

**Oregon Water Resources Department
Water Right Services Division**

Water Rights Application
Number G-15697

**Final Order
Extension of Time for Permit Number G-15437
Permit Holder: Phil Friedmann, on behalf of Bally Bandon Sheep Ranch**

Permit Information

Application File G-15697 Permit G-15437

Basin: 17 – South Coast / Watermaster District 19

Date of Priority: February 4, 2002

Authorized Use of Water

Source of Water: Six wells in Whiskey Run Creek Basin

Purpose of Use: Irrigation of 95.0 Acres

Maximum Rate: 0.45 Cubic Feet per Second (cfs)

**This Extension of Time request is being processed in accordance with
Oregon Revised Statute 537.630 and 539.010(5), and Oregon Administrative
Rule Chapter 690, Division 315**

Application History

Permit G-15437 was issued by the Department on May 16, 2003. The permit called for complete application of water to beneficial use by October 1, 2007. On April 30, 2012, Phil Friedmann, on behalf of Bally Bandon Sheep Ranch submitted to the Department an Application for Extension of Time for Permit G-15437. In accordance with OAR 690-315-0050(2), on May 13, 2013, the Department issued a Proposed Final Order proposing to extend the time to fully apply water to beneficial use to October 1, 2017. The protest period closed June 28, 2013, in accordance with OAR 690-315-0060(1). No protest was filed.

Appeal Rights

This is a final order in other than a contested case. This order is subject to judicial review under ORS 183.484. A request for judicial review must be filed within the 60 day time period specified by ORS 183.484(2). Pursuant to ORS 536.075 and OAR 137-004-0080 you may either file for judicial review, or petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the Director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied.

Findings of Fact

The Department adopts and incorporates by reference the findings of fact in the Proposed Final Order dated May 14, 2013.

At time of issuance of the Proposed Final Order the Department concluded that, based on the factors demonstrated by the applicant, the permit may be extended subject to no additional conditions.

CONCLUSION OF LAW

The applicant has demonstrated good cause for the permit extension pursuant to ORS 537.630, 539.010(5) and OAR 690-315-0040(2).

Order

The extension of time for Application G-15697, Permit G-15437, therefore, is approved. The deadline for complete construction of the works and to apply water to full beneficial use within the terms and conditions of the permit is extended from October 1, 2012 to October 1, 2017.

DATED: July 19, 2013

 *E. Timothy Wall* for

Dwight W. French, Administrator,
Water Right Services Division,
for PHILLIP C. WARD, DIRECTOR

-
- If you have any questions about statements contained in this document, please contact Michele McAleer at (503) 986-0825.
 - If you have other questions about the Department or any of its programs, please contact our Water Resources Customer Service Group at (503) 986-0900
-

Mailing List for Extension FO Copies

Note: Include a copy of the "Important Notice" document along with the original copy of the Final Order being sent to the permit holder.

FO Date: July, 19 2013

Copies Mailed

**Application G-15697
Permit G-15437**

By: CH
On: 7/23/13

Original mailed to permit holder

Phil Friedmann
Bally Bandon Sheep Ranch
P.O. Box 1756
Bandon, OR 97411

Copies sent to:

1. WRD - App. File G-15697/ Permit G-15437
2. Ronald P. Blegen, Golder Associates, Inc., 1430 W. Broadway Road, Suite 108, Tempe, AZ 85282

Fee paid as specified under ORS 536.050 to receive copy:

3. None

Receiving notification via e-mail FO available in WRIS for review

(DONE BY EXTENSION SPECIALIST)

4. rblegen@golder.com
5. Pfriedmann1@gmail.com

MRM 7/23/13

CASEWORKER: MRM

**Oregon Water Resources Department
Water Right Services Division**

Application for Extension of Time

In the Matter of the Application for an Extension of Time)
for Permit G-15437, Water Right Application G-15697) PROPOSED FINAL ORDER
in the name of Bally Bandon Sheep Ranch)

Permit Information

Application File G-15697 Permit G-15437

Basin: 17 – South Coast / Watermaster District 19

Date of Priority: February 4, 2002

Authorized Use of Water

Source of Water: Six wells in Whiskey Run Creek Basin

Purpose of Use: Irrigation of 95.0 Acres

Maximum Rate: 0.45 Cubic Feet per Second (cfs)

**This Extension of Time request is being processed in accordance with Oregon
Administrative Rule Chapter 690, Division 315**

Please read this Proposed Final Order in its entirety.

This Proposed Final Order applies only to Permit G-15437, water right Application G-15697.
A copy of Permit G-15437 is enclosed as Attachment 1.

Summary of Proposed Final Order for Extension of Time

The Department proposes to:

- Grant an extension of time for complete construction of the water system from October 1, 2012 to October 1, 2017.
- Grant an extension of time to apply water to full beneficial use from October 1, 2012 to October 1, 2017.

ACRONYM QUICK REFERENCE

Department – Oregon Department of Water Resources
PFO – Proposed Final Order

Units of Measure

cfs – cubic feet per second
gpm – gallons per minute

AUTHORITY

Generally, see ORS 537.630 and OAR Chapter 690 Division 315.

ORS 537.630(1) provide in pertinent part that the Oregon Water Resources Department (Department) may, for good cause shown, order an extension of time within which: irrigation or other works shall be completed; the well or other means of developing and securing ground water shall be completed; or the right perfected. In determining the extension, the Department shall give due weight to the considerations described under ORS 539.010(5) and to whether other governmental requirements relating to the project have significantly delayed completion of construction or perfection of the right.

ORS 539.010(5) provides in pertinent part that the Water Resources Director, for good cause shown, may extend the time within which the full amount of the water appropriated shall be applied to a beneficial use. This statute instructs the Director to consider: the cost of the appropriation and application of the water to a beneficial purpose; the good faith of the appropriator; the market for water or power to be supplied; the present demands therefore; and the income or use that may be required to provide fair and reasonable returns upon the investment.

OAR 690-315-0040 provides in pertinent part that the Water Resources Department shall make findings to determine if an extension of time may be approved to complete construction and/or apply water to full beneficial use.

FINDINGS OF FACT

Background

1. Permit G-15437 was granted by the Department on May 16, 2003. The permit authorizes the use of up to 0.45 cfs of water from Six wells in Whiskey Creek Basin for irrigation of 95.0 acres. The permit specified complete application of water was to be made on or before October 1, 2007.
2. One prior permit extension has been granted for Permit G-15437. The most recent extension request resulted in the completion dates for construction and full application of water being extended from October 1, 2007 to October 1, 2012.
3. The permit holder submitted an "Application for Extension of Time" to the Department on April 30, 2012 requesting the time to complete construction of the water system and the time to apply water to full beneficial use under the terms and conditions of Permit G-15437 be extended from October 1, 2012 to October 1, 2017.
4. Notification of the Application for Extension of Time for Permit G-15437 was published in the Department's Public Notice dated May 8, 2012. No public comments were received regarding the extension application.

Review Criteria [OAR 690-315-0040]

The time limits to complete construction and/or apply water to full beneficial use may be extended if the Department finds that the permit holder has met the requirements set forth under OAR 690-315-0040. This determination shall consider the applicable requirements of ORS 537.230¹, 537.248², 537.630³ and/or 539.010(5)⁴.

Complete Extension of Time Application [OAR 690-315-0040(1)(a)]

5. On April 30, 2012, the Department received a completed Application for Extension of Time and the fee specified in ORS 536.050 from the permit holder.

Start of Construction [OAR 690-315-0040(1)(b) and 690-315-0040(5)]

6. Senate Bill 300 (1999 legislation) eliminated the requirement that holders of new surface water and ground water permits start construction on water projects within one year after the Department issues the permit. Senate Bill 300 applies to any application for a permit filed after October 23, 1999, including this application.

Duration of Extension [OAR 690-315-0040(1)(c)]

¹ORS 537.230 applies to surface water permits only.

²ORS 537.248 applies to reservoir permits only.

³ORS 537.630 applies to ground water permits only.

⁴ORS 539.010(5) applies to surface water and ground water permits.

Under OAR 690-315-0040(1)(c), in order to approve an extension of time for water use permits the Department must find that the time requested is reasonable and the applicant can complete the project within the time requested.

7. As of April 30, 2012, the remaining work to be completed consists of completing construction of the water system and applying water to full beneficial use.
8. Given the amount of development left to occur, the Department has determined that the permit holder's request to have until October 1, 2017, to complete construction of the water system and to accomplish the application of water to beneficial use under the terms and conditions of Permit G-15437 is both reasonable and necessary.

Good Cause [OAR 690-315-0040(1)(d)]

The Department's determination of good cause shall consider the requirements set forth under OAR 690-315-0040(2).

Reasonable Diligence of the Appropriator [OAR 690-315-0040(2)(a)]

The Department's determination of reasonable diligence shall consider the requirements set forth under OAR 690-315-0040(3)(a-d). In accordance with OAR 690-315-0040(3), the Department shall consider, but is not limited to, the following factors when determining whether the applicant has demonstrated reasonable diligence in previous performance under the permit:

Amount of Construction [OAR 690-315-0040(3)(a)]

9. Work was accomplished within the time allowed in the permit or previous extension as follows:
 - a. Construction of a well was completed prior to October 1, 2007.
 - b. Work was completed (specified in the Application for an Extension of Time) during the original development time frame under Permit G-15437.

Beneficial Use of Water [OAR 690-315-0040(3)(b)]

10. The following beneficial use of water was made during the permit or previous extension time limits:
 - a. Since the issuance of Permit G-15437 on May 16, 2003, a maximum rate of 0.28 cfs of water has been appropriated from a well for irrigation of 15 acres. This exceeds the amount of water for irrigation use authorized under this permit. The authorized amount of water for irrigation of 15.0 acres is 0.19 cfs.
 - b. Delay of full beneficial use of water under Permit G-15437 was due, in part, to financial hardship. The permit holder needs more time in which to complete construction and apply the full quantity of water allowed under the permit to full beneficial use.

Compliance with Conditions [OAR 690-315-0040(3)(c)]

11. The water right permit holder's conformance with the permit or previous extension conditions.
 - a. The Department has considered the permit holder's compliance with conditions, and did not identify any concerns.

Financial Investments [OAR 690-315-0040(3)(d)]

12. Financial investments made toward developing the beneficial water use.
 - a. As of April 30, 2012, the permit holder has invested approximately \$575,000, which is approximately 53 percent of the total projected cost for complete development of this project.

Cost to Appropriate and Apply Water to a Beneficial Purpose [OAR 690-315-0040(2)(b)]

- a. The permit holder anticipates an additional \$500,000 investment is needed for the completion of this project.

Good Faith of the Appropriator [OAR 690-315-0040(2)(c)]

13. The Department has found good faith of the appropriator under Permit G-15437.

The Market and Present Demands for Water [OAR 690-315-0040(2)(d-e)]

The Department's determinations of market and present demand for water or power to be supplied shall consider the requirements set forth under OAR 690-315-0040(4)(a-f). In accordance with OAR 690-315-0040(4), the Department shall consider, but is not limited to, the following factors when determining the market and the present demand for water or power to be supplied:

14. The amount of water available to satisfy other affected water rights and scenic waterway flows; special water use designations established since permit issuance, including but not limited to state scenic waterways, federal wild and scenic rivers, serious water management problem areas or water quality limited sources established under 33 U.S.C. 1313(d); or the habitat needs of sensitive, threatened or endangered species, in consultation with the Oregon Department of Fish and Wildlife [OAR 690-315-0040(4)(a-c)].
 - a. The amount of water available to satisfy other affected water rights and scenic waterway flows was determined at the time of issuance of Permit G-15437; furthermore, water availability for other affected water rights and scenic waterway flows after the permit was issued is determined at such time that such application for a new water right is submitted. The points of appropriation for Permit G-15437, are located within the Whiskey Run Creek Basin, and are located within a limited or critical ground water area. Whiskey Run Creek is not located within or above any state or federal scenic waterway, however it is located within an area ranked "high" for stream flow restoration needs as determined by the Department in consultation with the Oregon Department of

Fish and Wildlife, and is not located within a Sensitive, Threatened or Endangered Fish Species Area as identified by the Department in consultation with Oregon Department of Fish and Wildlife. Whiskey Run Creek is not listed by the Department of Environmental Quality as a water quality limited stream.

15. Economic investment in the project to date [OAR 690-315-0040(4)(d)].
 - a. As of April 30, 2012, the permit holder has invested approximately \$575,000.
16. Other economic interests dependent on completion of the project [OAR 690-315-0040(4)(e)].
 - a. None have been identified.
17. Other factors relevant to the determination of the market and present demand for water and power [OAR 690-315-0040(4)(f)].
 - a. None have been identified.

Fair Return Upon Investment [OAR 690-315-0040(2)(f)]

18. Use and income from the permitted water development will likely result in reasonable returns upon the investment made to date.

Other Governmental Requirements [OAR 690-315-0040(2)(g)]

19. Delay in the development of this project was not caused by any other governmental requirements.

Unforeseen Events [OAR 690-315-0040(2)(h)]

20. None have been identified.

CONCLUSIONS OF LAW

1. The applicant is entitled to apply for an extension of time to complete construction and/or completely apply water to the full beneficial use pursuant to ORS 537.630(1).
2. The applicant has submitted a complete extension application form and the fee specified in ORS 536.050, as required by OAR 690-315-0040(1)(a).
3. The applicant complied with begin actual construction timeline requirements pursuant to ORS 537.630 as required by OAR 690-315-0040(1)(b) and OAR 690-315-0040(5).
4. Completion of construction and full application of water to beneficial use can be accomplished by October 1, 2017⁵, as required by OAR 690-315-0040(1)(c).

⁵Pursuant to ORS 537.630(4), upon the completion of beneficial use of water allowed under the permit, the permittee shall hire a certified water rights examiner to survey the appropriation. Within one year after the
Proposed Final Order: Permit G-15437 Page 6 of 8

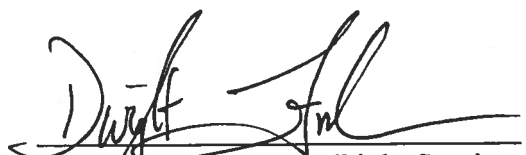
5. The Department has considered the reasonable diligence and good faith of the appropriator, the cost to appropriate and apply water to a beneficial purpose, the market and present demands for water to be supplied, the financial investment made and fair and reasonable return upon the investment, the requirements of other governmental agencies, and unforeseen events over which the permit holder had no control, whether denial of the extension will result in undue hardship to the applicant and whether there are no other reasonable alternatives for meeting water use needs, any other factors relevant to a determination of good cause, and has determined that the applicant has shown that good cause exists for an extension of time to apply water to full beneficial use pursuant to OAR 690-315-0040(1)(d).

Proposed Order

Based upon the foregoing Findings of Fact and Conclusions of Law, the Department proposes to issue an order to:

Extend the time for complete construction of the water and to apply water to beneficial use under Permit G-15437 from October 1, 2012 to October 1, 2017.

DATED: May 14, 2013


Dwight French, Water Right Services
Administrator

*If you have any questions,
please check the information
box on the last page for the
appropriate names and
phone numbers.*

Proposed Final Order Hearing Rights

1. Under the provisions of OAR 690-315-0100(1) and 690-315-0060, the applicant or any other person adversely affected or aggrieved by the proposed final order may submit a written protest to the proposed final order. The written protest must be received by the Water Resources Department no later than **June 28, 2013**, being 45 days from the date of publication of the proposed final order in the Department's weekly notice.

complete application of water to a beneficial use (or by the date allowed for the complete application of water to a beneficial use), the permittee shall submit a map of the survey and a new or revised claim of beneficial use as deemed appropriate by the Department.

Mailing List for Extension PFO Copies

PFO Date: May 14, 2013

Copies Mailed

**Application G-15697
Permit G-15437**

By: CH
On: 5/14/13

Original mailed to Applicant:

- ✓ Bally Bandon Sheep Ranch
Attn: Phil Friedmann
P.O. Box 1756
Bandon, OR 97411

Copies sent to:

- ✓ 1. WRD - App. File G-15697/ Permit G-15437
- ✓ 2. Ronald P. Blegen, Golder Associates, Inc., 1430 W. Broadway Road, Suite 108, Tempe, AZ, 85282

Fee paid as specified under ORS 536.050 to receive copy:

- 3. None

**Receiving via e-mail (10 AM Tuesday of signature date)
(DONE BY EXTENSION SPECIALIST)**

- 4. WRD - Watermaster District 19, Mitch Lewis
- 5. rblegen@golder.com
- 6. pfriedmann1@gmail.com

MRM
5/14/13

CASEWORKER: MRM

<i>For OWRD use only</i>	
Diligence Shown <input type="checkbox"/> Yes <input type="checkbox"/> No	Date Public Noticed: _____
Reviewed by: _____	Date: _____

2012

Oregon Water Resources Department October through September Water Use Recording and Reporting Form

2013

Consult the water right (permit, certificate, order) to determine applicable reporting conditions; the measurement, recording, and reporting conditions identified in a permitted or certified water right typically follow the place of use description. Use the columns below to document measurements for each authorized point of diversion/appropriation or reservoir. We ask that zeros be reported for any given month when water is not being used. Keep a copy of all measurement reports for your records. We encourage you to submit your water use data via our online utility when available, and to use the Monthly Water Use Forms for record keeping purposes. To lookup water rights, access the water use reporting webpage/online utility, or to obtain additional forms visit our web site: <http://www.wrd.state.or.us>

Water Right Holder's Name p.friedmann@recycled-greetings.com	BALLY BANDON SHEEP RANCH Water Right Holder's Business Name or Entity Name PO BOX 1756 BANDON, OR 97411	29308 USER ID#
Water Right Holder's Email	Water Right Holder's Complete Mailing Address	Phone Number

Facility Report ID	WELL 1A (COOS 52219) 61398 Application: G - 15697 Permit: G - 15437 Other:	WELL 2A 61399 Application: G - 15697 Permit: G - 15437 Other:	WELL 1B 61400 Application: G - 15697 Permit: G - 15437 Other:	WELL 2B 61401 Application: G - 15697 Permit: G - 15437 Other:
Describe the units of measurement as AF (acre-feet), G (gallons), KG (thousand gallons), MG (million gallons), CF (cubic feet), or MCF (million cubic feet)				
October - 2012	220,300	NOT IN USE	NOT IN USE	NOT IN USE
November - 2012	24,100			
December - 2012	24,100			
January - 2013	24,250			
February - 2013	22,300			
March - 2013	23,100			RECEIVED BY OWRD
April - 2013	27,150			
May - 2013	585,900			FEB 05 2014
June - 2013	764,600			
July - 2013	989,000			SALEM, OR
August - 2013	1,022,800			
September - 2013	329,000			
TOTAL *	4,056,600			
Unit of Measurement	<input checked="" type="checkbox"/> G <input type="checkbox"/> KG <input type="checkbox"/> MG <input type="checkbox"/> AF <input type="checkbox"/> CF <input type="checkbox"/> MCF	<input type="checkbox"/> G <input type="checkbox"/> KG <input type="checkbox"/> MG <input type="checkbox"/> AF <input type="checkbox"/> CF <input type="checkbox"/> MCF	<input type="checkbox"/> G <input type="checkbox"/> KG <input type="checkbox"/> MG <input type="checkbox"/> AF <input type="checkbox"/> CF <input type="checkbox"/> MCF	<input type="checkbox"/> G <input type="checkbox"/> KG <input type="checkbox"/> MG <input type="checkbox"/> AF <input type="checkbox"/> CF <input type="checkbox"/> MCF

Describe the method of measurement used: Flow Meter (G). If used for irrigation, total number of acres irrigated: 15

I certify this information is true and accurate to the best of my knowledge.

12-5-13 x Greg Harless GREG HARLESS Superintendent BALLY BANDON SHEEP RANCH 541-404-6255
 Date Signature Name and Title (print) Company Phone Number

Please complete and mail to: Oregon Water Resources Department; Water Use Reporting Program; 725 Summer Street NE, Suite A: Salem, OR 97301.

2012

Oregon Water Resources Department October through September Water Use Recording and Reporting Form

2013

Consult the water right (permit, certificate, order) to determine applicable reporting conditions; the measurement, recording, and reporting conditions identified in a permitted or certified water right typically follow the place of use description. Use the columns below to document measurements for each authorized point of diversion/appropriation or reservoir. We ask that zeros be reported for any given month when water is not being used. Keep a copy of all measurement reports for your records. We encourage you to submit your water use data via our online utility when available, and to use the Monthly Water Use Forms for record keeping purposes. To lookup water rights, access the water use reporting webpage/online utility, or to obtain additional forms visit our web site: <http://www.wrd.state.or.us>

Water Right Holder's Name p.friedmann@recycled-greetings.com	BALLY BANDON SHEEP RANCH	29308
Water Right Holder's Business Name or Entity Name PO BOX 1756 BANDON, OR 97411	USER ID#	
Water Right Holder's Email	Water Right Holder's Complete Mailing Address	Phone Number

Facility Report ID	WELL 3B 61402 Application: G - 15697 Permit: G - 15437 Other:	WELL 4B 61403 Application: G - 15697 Permit: G - 15437 Other:	Application: Permit: Other:	Application: Permit: Other:
Describe the units of measurement as AF (acre-feet), G (gallons), KG (thousand gallons), MG (million gallons), CF (cubic feet), or MCF (million cubic feet)				
October - 2012	220,300	NOT IN USE		
November - 2012	24,100			
December - 2012	24,100			
January - 2013	24,250			RECEIVED BY OWRD
February - 2013	22,300			FEB 05 2014
March - 2013	23,100			SALEM, OR
April - 2013	27,150			
May - 2013	585,900			
June - 2013	764,000			
July - 2013	989,000			
August - 2013	1,022,800			
September - 2013	329,000			
TOTAL *	4,056,600			
Unit of Measurement	<input checked="" type="checkbox"/> G <input type="checkbox"/> KG <input type="checkbox"/> MG <input type="checkbox"/> AF <input type="checkbox"/> CF <input type="checkbox"/> MCF	<input type="checkbox"/> G <input type="checkbox"/> KG <input type="checkbox"/> MG <input type="checkbox"/> AF <input type="checkbox"/> CF <input type="checkbox"/> MCF	<input type="checkbox"/> G <input type="checkbox"/> KG <input type="checkbox"/> MG <input type="checkbox"/> AF <input type="checkbox"/> CF <input type="checkbox"/> MCF	<input type="checkbox"/> G <input type="checkbox"/> KG <input type="checkbox"/> MG <input type="checkbox"/> AF <input type="checkbox"/> CF <input type="checkbox"/> MCF

Describe the method of measurement used: _____ . If used for irrigation, total number of acres irrigated: _____

I certify this information is true and accurate to the best of my knowledge.

12-15-13 x Greg Hartless Greg Hartless Bally Bandon Sheep Ranch 541-404-6255
Date Signature Name and Title (print) Company Phone Number

Please complete and mail to: Oregon Water Resources Department; Water Use Reporting Program; 725 Summer Street NE, Suite A: Salem, OR 97301.

Application # G-15697

Permit # G-15437

Public Notice Route Slip ... New Application Extension of Time
per Division 315 Rules... (Extensions received on July 1, 2001 or after)

◆ **WRIG...**

Money Received on: 4-30-2012

◆ **Extension Specialist...**

Added to tracking spreadsheet

After fee is receipted and app is added to spreadsheet, route to...

◆ **Codi Holmes...**

Publish on Public Notice (initial 30-day comment): Date of notice 5/8/12

Update WRIS Database

In the "PNotice Date" field... Enter the date the Extension Application was published on the Public Notice.

In the "Ext Filed" field... Enter the date the Extension Application was received.

Yes or No: Return file to Extension Specialist after PN Jerry G.

$$125 \text{ gpm} = \text{ft}^3/\text{s}$$

$$\frac{125}{448.8} = 0.2785 \approx 0.28 \text{ ft}^3/\text{s}$$

Spent 575,000
to spend 500,000

$$\text{total exp } \frac{1,075,000}{575,000}$$

$$\frac{575,000}{1,075,000} = 0.5348 \%$$
$$\approx 0.53$$

Extension PFO Checklist for Other than Muni or Quasi-Municipal

Water Use Permits
(OAR 690-315-0010 through OAR 690-315-0060)

Application: G- 15697 Permit: G- 15437 Permit Amendment? No Yes T- _____ pending approved

Permit Holder's Name: Bally Bandon Sheep Ranch; Phil Friedmann

Permit Holder's Mailing Address: PO Box 1756, Bandon, OR 97411 email Pfriedmann@gmail.com

Phone Number: 541-530-6839

POD Location: Township 27S Range 14W Section 20 ¼¼ SEE PERMIT

Drainage Basin: 17 County: Coos Watermaster District: 19 Watermaster: Mitch Lewis

Date Permit was issued: 5/16/2003

Priority Date: 2/4/2002

Date of PN: 5/8/2012

Source: Six wells in Whiskey Run Creek Basin

Use: Irrigation of 95.0 acres

"Q": 0.45 cubic foot per second

Orig "A" Date: _____

Orig "B" Date: 10/1/

Orig "C" Date: 10/1/2007

Extension request rec'd: 4/30/2012

Last Authorized "B" Date: 10/1/

Last Authorized "C" Date: 10/1/2012

Request Number (1, 2, 3...): 2

Proposed "B" Date: 10/1/

Proposed C Date: 10/1/2017

Conditions of Permit:

Condition Met?	Condition Not Met?	Permit Condition
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Installed a totalizing flow meter on Well 1 and submitted water use reports for Well 1
<input type="checkbox"/>	<input checked="" type="checkbox"/>	5 wells not drilled as of 4/30/2012
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Installed and operate a continuous record gaging station near mouth of Whiskey Run Creek
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Submitted and obtained approval of a monitoring plan
<input type="checkbox"/>	<input type="checkbox"/>	

Factors to consider in determining "Reasonable Diligence" [OAR 690-315-0040(3)]:

Yes No

- Work was accomplished within the time allowed in the permit or previous extension
- Water right permit holder conformed with the permit or previous extension conditions
- Financial investments were made toward developing the beneficial water use.

- Amount Invested to date: \$575,000 Estimated Remaining Cost: \$500,000

- Beneficial use made of the water during the permit or previous extension time limits

- Permit holder has beneficially used 125 cfs gpm af of the total permitted quantity of water on 15 acres

GW REVIEW: Y JWF

MITIGATION REVIEW: Y N

Has the applicant pursued perfection of the right in good faith and with reasonable diligence? Yes No

Determination of the market and the present demand for water or power to be supplied:

Identify the closest surface water or localized water basin. Whiskey Run Creek
Ground Water Permits: Is the POA located...
Surface Water Permits: Is the POD located...

- Yes No
- above a state scenic waterway? Name _____ Source: OWRD "Areas Above State Scenic Waterways" Map
 - within a stream segment designated as a federal wild and scenic river? Source: www.rivers.gov/wildriverslist.html
 - within a sensitive, threatened or endangered species area Source: "/>

Based on the written record, can the Department make a finding of "Good Cause" to approve the extension request?

Yes... "Good Cause" can be found. Approval of Extension Request
No ... "Good Cause" cannot be found. Denial of Extension Request

Conditions to be included in Extension PFO (if applicable)? Yes No

(NOTE: Check the file record for documentation to add a condition(s) at the extension stage.)

- 5-year Progress Report Checkpoints (Years: _____)
- Other: _____

Footnote regarding Claim of Beneficial Use. Choose the appropriate language below and insert as a footnote in the PFO:

- COBU Requirement - Surface/Ground Water - on or prior to July 9, 1987**
"For permits applied for or received on or before July 9, 1987, upon complete development of the permit, you must notify the Department that the work has been completed and either: (1) Hire a water right examiner certified under ORS 537.798 to conduct a survey, the original to be submitted as required by the Water Resources Department, for issuance of a water right certificate; or (2) Continue to appropriate water under the water right permit until the Water Resources Department conducts a survey and issues a water right certificate under ORS 537.250 or 537.625."
- COBU Requirement - Surface Water - post July 9, 1987**
"Pursuant to ORS 537.230(4), upon the completion of beneficial use of water allowed under the permit, the permit holder shall hire a certified water rights examiner to survey the appropriation. Within one year after the complete application of water to a beneficial use (or by the date allowed for the complete application of water to a beneficial use), the permit holder shall submit a map of the survey and the claim of beneficial use."
- COBU Requirement - Ground Water - post July 9, 1987**
"Pursuant to ORS 537.630(4), upon the completion of beneficial use of water allowed under the permit, the permit holder shall hire a certified water rights examiner to survey the appropriation. Within one year after the complete application of water to a beneficial use (or by the date allowed for the complete application of water to a beneficial use), the permit holder shall submit a map of the survey and the claim of beneficial use."

NOTES:

CC: Ronald P. Blegen, CWRE ☺

Extension "PFO" Dates

Mailing / Issuance Date: 14 May 2013 Protest Deadline Date: 28 June 2013

Reviewer's Name: [Signature] Date: 16 May 2013

Mailing List for Extension FO Copies

Note: Include a copy of the "Important Notice" document along with the original copy of the Final Order being sent to the permit holder.

FO Date: April 10, 2008

Copies Mailed

**Application G-15697
Permit G-15437**

By: MS
On: 4/10/08

Original mailed to permit holder

Bally Bandon Sheep Ranch
Attr: Phil Friedmann
875 North Michigan Ave, Ste 3928
Chicago, IL 60611

Copies sent to:

1. WRD - App. File G-15697/ Permit G-15437
2. WRD - Watermaster District 19, Mitch Lewis
3. WRD - SWR Regional Manager, Bruce Sund
4. Ron Blegen, CWRE, Golder Associates, 1430 W. Broadway, Suite 108, Tempe, AZ 85282
5. WRD - Support Staff, Salem...*Permit record update*

Fee paid as specified under ORS 536.050 to receive copy:

6. None

Receiving via e-mail (10 AM day of signature date)

7. None

CASEWORKER: KRF



Oregon

John A. Kitzhaber, MD, Governor

Water Resources Department
North Mall Office Building
725 Summer Street NE, Suite A
Salem, OR 97301-1271
503-986-0900
FAX 503-986-0904

May 8, 2012

REFERENCE: Application for Extension of Time

Dear Extension of Time Applicant:

The Water Right Services Division has received your application for an extension of time for **APPLICATION FILE #: G-15697 (Permit G-15437)**. Your application will be reviewed in the future. Following the review, you will receive a Proposed Final Order either approving or rejecting the extension of time request. A 45-day protest period begins upon issuance of the Proposed Final Order. After the protest period closes, a Final Order is issued.

If you are interested in having your application reviewed sooner, you may pay to have your file processed immediately, using the Reimbursement Authority program, which is described at: http://www.wrd.state.or.us/OWRD/mgmt_reimbursement_authority.shtml

You may continue the use of water under your water right until the Water Resources Department formally takes action on your extension application. If your permit includes conditions, water use reporting, water level measurement reporting, etc., you are required to comply with the conditions.

Any additional development that occurs after the expired completion date, identified on the permit or an extension order, can only be claimed upon an approved extension application.

If you have questions concerning your extension of time application, please contact Jerry Gainey (503) 986-0812. For general information about the Water Resources Department, you may contact the Water Resources' Customer Service Group at (503) 986-0801 or you may access the Department's website at: www.wrd.state.or.us.

StreamCode	Source	Tributary To	County	TRSQQ	Date Measured	District	Basin	DrainArea	Discharge	MilePost	HydroUnit	Description
Select 171490	WHISKY RUN	PACIFIC OCEAN	COOS	27S 14W 20SWSW	1/10/2006	19	South Coast		8.96		17100304	25 FT BLW GAGE AT POSTED CROSS SELECTION
Select 171490	WHISKY RUN	PACIFIC OCEAN	COOS	27S 14W 20SWSW	2/15/2006	19	South Coast		3.37		17100304	10 FT BLW GAGE 5 FT ABV O. G.
Select 171490	WHISKY RUN	PACIFIC OCEAN	COOS	27S 14W 20SWSW	3/23/2006	12	South Coast		4.89		17100304	WADING 15 FT BELOW GAGE 5 FT ABOVE O.G.
Select 171490	WHISKY RUN	PACIFIC OCEAN	COOS	27S 14W 20SWSW	4/19/2006	19	South Coast		4.84		17100304	15 FT BLW GAGE 5 FT ABV O. G.
Select 171490	WHISKY RUN	PACIFIC OCEAN	COOS	27S 14W 20SWSW	5/31/2006	19	South Coast		4.12		17100304	15 FT BLW GAGE 5 FT ABV O. G.
Select 171490	WHISKY RUN	PACIFIC OCEAN	COOS	27S 14W 20SWSW	6/26/2006	19	South Coast		3.62		17100304	15 FT BLW GAGE 5 FT ABV O. G.
Select 171490	WHISKY RUN	PACIFIC OCEAN	COOS	27S 14W 20SWSW	8/21/2006	19	South Coast		2.40		17100304	5 FT BLW OUTSIDE STAFF

STATE OF OREGON

COUNTY OF COOS

PERMIT TO APPROPRIATE THE PUBLIC WATERS

THIS PERMIT IS HEREBY ISSUED TO

PHIL FRIEDMANN for BALLY BANDON SHEEP RANCH
PO BOX 1756.
BANDON, OREGON 97411

(541) 530-6839

The specific limits and conditions of the use are listed below.

APPLICATION FILE NUMBER: G-15697

SOURCE OF WATER: SIX WELLS IN WHISKY RUN CREEK BASIN

PURPOSE OR USE: IRRIGATION OF 95.0 ACRES

MAXIMUM RATE: 0.45 CUBIC FOOT PER SECOND

PERIOD OF USE: MARCH 1 THROUGH OCTOBER 31

DATE OF PRIORITY: FEBRUARY 4, 2002

WELL LOCATIONS:

WELL #1A NW ¼ SW ¼, SECTION 20, T27S, R14W, W.M.; 2450 FEET
NORTH & 350 FEET EAST FROM SW CORNER, SECTION 20

WELL #2A NW ¼ NW ¼, SECTION 20, T27S, R14W, W.M.; 4600 FEET
NORTH & 550 FEET EAST FROM SW CORNER, SECTION 20

WELL #1B NW ¼ SW ¼, SECTION 20, T27S, R14W, W.M.; 1,350 FEET
NORTH & 325 FEET EAST FROM SW CORNER, SECTION 20

WELL #2B SE ¼ NW ¼, SECTION 20, T27S, R14W, W.M.; 1950 FEET
SOUTH & 2250 FEET EAST FROM NW CORNER, SECTION 20

WELL #3B NE ¼ NW ¼, SECTION 20, T27S, R14W, W.M.; 750 FEET SOUTH
& 1650 FEET EAST FROM NW CORNER, SECTION 20

WELL #4B NW ¼ NE ¼, SECTION 20, T27S, R14W, W.M.; 750 FEET SOUTH
& 1800 FEET WEST FROM NE CORNER, SECTION 20

4 annual
data reports

Application G-15697 Water Resources Department

PERMIT G-15437

The amount of water used for irrigation under this right, together with the amount secured under any other right existing for the same lands, is limited to a diversion of ONE-EIGHTIETH of one cubic foot per second (or its equivalent) and 2.5 acre-feet for each acre irrigated during the irrigation season of each year.

THE PLACE OF USE IS LOCATED AS FOLLOWS:

SE $\frac{1}{4}$ NE $\frac{1}{4}$ 2.2 ACRES
SECTION 19
NW $\frac{1}{4}$ NE $\frac{1}{4}$ 4.9 ACRES
NE $\frac{1}{4}$ NW $\frac{1}{4}$ 16.3 ACRES
NW $\frac{1}{4}$ NW $\frac{1}{4}$ 13.7 ACRES
SW $\frac{1}{4}$ NW $\frac{1}{4}$ 21.8 ACRES
SE $\frac{1}{4}$ NW $\frac{1}{4}$ 3.7 ACRES
NE $\frac{1}{4}$ SW $\frac{1}{4}$ 4.4 ACRES
NW $\frac{1}{4}$ SW $\frac{1}{4}$ 19.6 ACRES
SW $\frac{1}{4}$ SW $\frac{1}{4}$ 8.3 ACRES
SE $\frac{1}{4}$ SW $\frac{1}{4}$ 0.1 ACRES
SECTION 20

TOWNSHIP 27 SOUTH, RANGE 14 WEST, W.M.

Measurement, recording and reporting conditions:

- A. Before water use may begin under this permit, the permittee shall install a meter or other suitable measuring device as approved by the Director. The permittee shall maintain the meter or measuring device in good working order, shall keep a complete record of the amount of water used each month and shall submit a report which includes the recorded water use measurements to the Department annually or more frequently as may be required by the Director. Further, the Director may require the permittee to report general water use information, including the place and nature of use of water under the permit.
- B. The permittee shall allow the watermaster access to the meter or measuring device; provided however, where the meter or measuring device is located within a private structure, the watermaster shall request access upon reasonable notice.

Applicant is to pay for the installation and operation of a continuous record gaging station at a suitable location near the mouth of Whiskey Run Creek. The gaging station is to be run for no less than five

Application G-15697 Water Resources Department

PERMIT G-15437

years, and the data collected to the USGS standard. The record from this gaging station will be used to define the 80-percent exceedance natural streamflow for Whiskey Run Creek. If it is determined at the end of five years that streamflow is insufficient to meet the demands of the instream water right and the proposed use, the gaging station will be continued in operation at the applicant's expense for the purpose of regulating the use of water in Whiskey Run Creek according to the prior appropriation doctrine. If it is determined at the end of five years that streamflow is sufficient to meet the demands of the instream water right and the proposed use, the gaging station will be discontinued.

Prior to use of water under this permit, the permittee shall obtain OWRD approval for a plan to monitor and report the impacts of this use on water levels within the aquifer utilized under this permit. The plan shall include locating two or more dedicated observation wells between the permitted wells and offsite wells to address water level impacts on senior ground water users.

STANDARD CONDITIONS

If substantial interference with a senior water right occurs due to withdrawal of water from any well listed on this permit, then use of water from the well(s) shall be discontinued or reduced and/or the schedule of withdrawal shall be regulated until or unless the Department approves or implements an alternative administrative action to mitigate the interference. The Department encourages junior and senior appropriators to jointly develop plans to mitigate interferences.

The wells shall be constructed in accordance with the General Standards for the Construction and Maintenance of Water Wells in Oregon. The works shall be equipped with a usable access port, and may also include an air line and pressure gauge adequate to determine water level elevation in the well at all times.

The use shall conform to such reasonable rotation system as may be ordered by the proper state officer.

Prior to receiving a certificate of water right, the permit holder shall submit the results of a pump test meeting the department's standards, to the Water Resources Department. The Director may require water level or pump test results every ten years thereafter.

Failure to comply with any of the provisions of this permit may result in action including, but not limited to, restrictions on the use, civil penalties, or cancellation of the permit.

This permit is for the beneficial use of water without waste. The water user is advised that new regulations may require the use of best practical technologies or conservation practices to achieve this end.

By law, the land use associated with this water use must be in compliance with statewide land-use goals and any local acknowledged land-use plan.


The use of water shall be limited when it interferes with any prior surface or ground water rights.

The Director finds that the proposed use(s) of water described by this permit, as conditioned, will not impair or be detrimental to the public interest.

Complete application of the water to the use shall be made on or before October 1, 2007. If the water is not completely applied before this date, and the permittee wishes to continue development under the permit, the permittee must submit an application for extension of time, which may be approved based upon the merit of the application.

Within one year after complete application of water to the proposed use, the permittee shall submit a claim of beneficial use, which includes a map and report, prepared by a Certified Water Rights Examiner (CWRE).

Issued May 16, 2003


Paul R. Cleary, Director
Water Resources Department

REAL ESTATE TRANSACTIONS: Pursuant to ORS 537.330, in any transaction for the conveyance of real estate that includes any portion of the lands described in this permit, the seller of the real estate shall, upon accepting an offer to purchase that real estate, also inform the

Application G-15697
Basin 17
AMH

Water Resources Department
Volume 3 BASIN 17 MISC

PERMIT G-15437

purchaser in writing whether any permit, transfer approval order, or certificate evidencing the water right is available and that the seller will deliver any permit, transfer approval order or certificate to the purchaser at closing, if the permit, transfer approval order or certificate is available.

CULTURAL RESOURCES PROTECTION LAWS: Permittees involved in ground-disturbing activities should be aware of federal and state cultural resources protection laws. ORS 358.920 prohibits the excavation, injury, destruction or alteration of an archeological site or object, or removal of archeological objects from public and private lands without an archeological permit issued by the State Historic Preservation Office. 16 USC 470, Section 106, National Historic Preservation Act of 1966 requires a federal agency, prior to any undertaking to take into account the effect of the undertaking that is included on or eligible for inclusion in the National Register. For further information, contact the State Historic Preservation Office at 503-378-4168, extension 232.



Application G-15697
Basin 17
AMH

Water Resources Department
Volume 3 BASIN 17 MISC

PERMIT G-15437



July 19, 2018

123-92803

Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301

**RE: APPLICATION FOR EXTENSION OF TIME FOR A WATER RIGHT PERMIT
WATER RIGHT PERMIT G-15437
BALLY BANDON SHEEP RANCH, BANDON, COOS COUNTY, OREGON**

To Whom It May Concern:

On behalf of our client, Mr. Philip Friedmann, Golder Associates Inc. (Golder) is submitting the enclosed Application for Extension of Time for a Water Right Permit on his Bally Bandon Sheep Ranch property near Bandon, Oregon. Mr. Friedmann has invested in a substantial amount of property development planning and design effort in the past 24 months, including the full design of an irrigation water supply and distribution system. With this application, Mr. Friedmann is requesting an extension of the time required to apply water to full beneficial use under permit number G-15437 until October 1, 2022. With the current level of planning, the applicant believes the project can be completed well within this timeframe.

Enclosed is the completed application package and supporting documentation, and a check for \$670 to cover the application fee.

If you have any questions regarding the application and supporting documentation, please do not hesitate to contact me at 480-966-0153 or rblegen@golder.com. Thank you for your consideration of this application.

Sincerely,

Golder Associates Inc.

Ronald P. Blegen, RG, CWRE
Senior Hydrogeologist

RG/pb

CC: Philip Friedmann, Bally Bandon Sheep Ranch
David Banton, Golder Associates Inc. (Redmond)

Attachments: Application for Extension of Time for a Water Right Permit
Application Fee

RECEIVED
OVER THE COUNTER

RECEIVED

JUL 23 2018

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x:\tucson\projects\12proj\123-92803\007\rev c\12392803-l-007-rev c-20180719.docx

Golder Associates Inc.
1430 West Broadway Road, Suite 108, Tempe, Arizona, USA 85282

T: +1 480 966-0153 F: +1 480 966-0193

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golder.com

**Application for Extension of Time for a Water Right Permit
(NON-Municipal/NON Quasi-Municipal water Use)**



Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem Oregon 97301
(503) 986-0900
www.wrd.state.or.us

Criteria for a Permit Extension of Time

The Department can accept requests for an extension of time on permits to (1) complete construction, and/or to (2) apply water to beneficial use.

In order to approve a permit extension request the Department must be able to find:

1) Construction has begun:

A. For Groundwater Permits

Construction of the well began within 5 years of the date the permit was issued or by the actual construction date specified in the permit.

B. For Surface Water or Reservoir Permits

Construction of the water system began within 5 years of the date the permit was issued or by the actual construction date specified in the permit.

The Department will also confirm that:

- 2) A required fish screen, fish passage or fish by-pass device was installed before or prior to diversion of any water. An exception to the need to confirm installation prior to diversion of any water would be a waiver submitted to the Department from ODFW stating that a fish screen, fish passage or fish by-pass device was not required, provided your permit allows for a waiver.**

If you have questions, please call the Department at (503)-986-0900 and ask to speak with a permit extension specialist.

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Instructions are in Attachment A.

- This completed Application for Extension of Time.
- Statutory fee of \$670
- Signature page (Second page of this Application for Extension of Time).
- All supporting documentation and/or evidence referenced in the Application for Extension of Time.

MAIL COMPLETED APPLICATION
along with the Supporting documents and/ or evidence and correct fee to:

Water Resources Department
Attn: Water Right Permit Extensions
725 Summer Street NE, Suite A
Salem, Oregon 97301



GENERAL TIPS:

- Permit holders of **municipal or quasi-municipal water use permits DO NOT use this form**. The correct form is APPLICATION FOR EXTENSION OF TIME FOR MUNICIPAL AND QUASI-MUNICIPAL WATER USE PERMITS, available at the following link:
http://www.oregon.gov/owrd/PUBS/docs/forms/fillable_muni_quasi_ext_app_form_2014.doc
- Request the reasonable amount of time necessary to fully complete construction of the water project and/or to fully use the permitted quantity of water under the terms and conditions of your permit. Should this request be approved, it will be OWRD's expectation that you will complete your project within the new time period allowed. Future extensions may not be granted.
- A separate APPLICATION FOR EXTENSION OF TIME must be submitted for each permit. OAR 690-315-0020(2).
- An instruction sheet, INSTRUCTIONS FOR COMPLETING AN APPLICATION FOR EXTENSION OF TIME FOR A WATER RIGHT PERMIT (Attachment A), provides details that will help you answer each item on the application. Permit extensions are evaluated under OAR Chapter 690, Division 315. These rules may be viewed at: http://arcweb.sos.state.or.us/pages/rules/oars_600/oar_690/690_315.html
- You may provide OWRD with any additional information or evidence that will aid us in making our decision. Please note that OWRD may require other information that is necessary to evaluate the application. OAR 690-315-0020(3)(n).
- After careful review of the Application for Extension of Time, you may contact OWRD at (503) 986-0900, to ask questions and request assistance from a Permit Extensions Specialist in the Water Rights Services Division.
- An Application for an Extension of Time will be reviewed for completeness. OWRD will return any incomplete or deficient applications to the applicant. OAR 690-315-0040(1)(a).

Reference Materials Needed to Complete this Application:

- **The water right permit.** If needed, a copy of the water right permit can be downloaded from the Department's Website at <http://apps.wrd.state.or.us/apps/wr/wrinfo/> (using the link to the Water Rights Information System (WRIS). Or, a copy of the permit (or other documents) may be requested by water right application number from the Water Rights Division at 503-986-0900 (copy fees will apply).
- **Documentation which demonstrates compliance with permit conditions** (for example, well construction logs; static water level measurement reports; annual water use reports; ODFW fish screen certification; a plan to monitor the effect of water use on ground water aquifers utilized under the permit; etc.).

Questions to complete this application for an Extension of Time

Please see the instruction sheet to help you answer these items.

1. Beginning Construction within required deadlines. OAR 690-315-0020(3)(d)

For Groundwater Permits

Has construction of the point of appropriation (well) authorized under this permit begun?

Yes No

Date construction began is: November 1, 2001

Details of construction: _____

For Surface/Reservoir Permit

Has construction of the water system begun? Yes No

Date construction began:

Details of construction and attach documentation:

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OAR 690-315-0020(3)(A)(e)(A)

2a. Permits typically contain standard or special conditions that must be fully satisfied to lawfully develop and use permitted water. Review the permit subject to this extension to identify which of the conditions listed in the 2nd column are contained within it. Using the extra row labeled "other" to specify any other additional conditions specified in a final order approving a permit amendment or prior extension of time. In the 1st column check the box for each condition (row) identified as relevant. In the 3rd column check "Yes" if you have completed or met the permit condition. Check "No" if the condition is not yet satisfied. In the 4th column, give the date when the condition was satisfied or will be satisfied. Attach any pertinent documentation. Note: a pump test condition does not need to be addressed here however; you must submit the results of the test to the Department for approval prior to certification.

CHART-A

Permit Conditions in this Permit		Have Completed or Met?	Date satisfied/ or will be satisfied
Checkbox	Ground water Check those included on this permit		
<input checked="" type="checkbox"/>	Installation of a meter/totalizing flow meter	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2002
<input checked="" type="checkbox"/>	Submittal of annual water usage report	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Ongoing, annual reporting. See attached summary table.
<input checked="" type="checkbox"/>	Submittal of initial static water level measurement	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Provided in the original well reports.
<input checked="" type="checkbox"/>	Submittal of annual static water level measurements in the month required	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Data submitted annually with water use reports.
<input checked="" type="checkbox"/>	Submittal of a monitoring plan.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9/2003
<input checked="" type="checkbox"/>	Submittal of the results of a pump test meeting OWRD standards.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10/2002
<input checked="" type="checkbox"/>	No interference with a senior water right.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Ongoing monitoring. No issues have been reported. No rotational schedules are required.
<input checked="" type="checkbox"/>	Aquifer test completed.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	An aquifer test at Well #1A was completed in 2002. Results were submitted to OWRD with the 2012 extension application.
<input checked="" type="checkbox"/>	Purpose or Use: Irrigation of 95.0 acres.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	To date, water is applied to 22.4 acres.
<input checked="" type="checkbox"/>	Maximum rate less than 0.45 cfs.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Only one well in use. Estimated <u>maximum</u> pumping rate is 0.28 cfs (125 gpm)
Surface Water or Reservoir			
<input type="checkbox"/>	Installation of a meter/ totalizing flow meter/ in-line meter	<input type="checkbox"/> Yes <input type="checkbox"/> No	n/a
<input type="checkbox"/>	Installation a staff gauge	<input type="checkbox"/> Yes <input type="checkbox"/> No	n/a
<input type="checkbox"/>	Installation of a fish screen	<input type="checkbox"/> Yes <input type="checkbox"/> No	n/a
<input type="checkbox"/>	Installation of a fish by-pass device	<input type="checkbox"/> Yes <input type="checkbox"/> No	n/a
<input type="checkbox"/>	Installation of a fish passage	<input type="checkbox"/> Yes <input type="checkbox"/> No	n/a
<input type="checkbox"/>	Installation of an outlet gate/pipe/ conduit	<input type="checkbox"/> Yes <input type="checkbox"/> No	n/a
<input type="checkbox"/>	Submittal of a letter from ODFW that fish screen, fish by-pass device, and or fish passage is not required	<input type="checkbox"/> Yes <input type="checkbox"/> No	n/a
<input type="checkbox"/>	Submit as-built plans and specification	<input type="checkbox"/> Yes <input type="checkbox"/> No	n/a
<input type="checkbox"/>	Submittal of a letter from an engineer prior to storage	<input type="checkbox"/> Yes <input type="checkbox"/> No	n/a

2b. If you have NOT complied with Permit conditions, explain the reasons why and indicate a date certain, when you will be in compliance.

Bally Bandon Sheep Ranch has complied with all permit conditions at the current system capacity. All that remains to do is increase system capacity up to the permitted size. The design and installation of a water delivery system has not been completed to date largely due to the economic viability of such a large capital investment. See Section 18 for additional historical site development information.

[OAR 690-315-0020(3)(e)]

3. Provide evidence of physical work made toward completion of the water system, and of progress made toward making beneficial use of water within the permitted time period (CHART-B); and if applicable, within the time period of the most recent extension granted (CHART-C). CHART-B (below) must be completed for all Application for Extension of Time requests. Use *chronological order*. (this does NOT include planning, formulating a business plan, securing financing, letting contracts, purchasing but not installing equipment, surveying, clearing land, or planting crops)

CHART-B

DATE	WORK ACCOMPLISHED BEFORE PERMIT WAS ISSUED <i>List any work done before the permit was issued – eg. well drilled.</i>	COST*
12/2001	Construction and testing of irrigation well COOS-52219 (L51164). Drilled and installed piezometer COOS-52220.	~\$20,000
2001	Construct irrigation pond	\$500,000
10/2002	Drill and install piezometer COOS-52546`	\$10,000
DATE	WORK ACCOMPLISHED AFTER PERMIT WAS ISSUED and PRIOR TO DATE SPECIFIED IN PERMIT FOR COMPLETE APPLICATION OF WATER <i>List work/actions done during the permitted time period.</i>	COST*
5/16/2003	Date the permit was signed - find date above signature on last page of permit.	
9/2003	Install continuous monitoring gaging station on Whiskey Run Creek and continue stream gaging for 5 years.	\$20,000
2006-2007	Drill and install one irrigation well and six exploration/monitoring wells	\$35,000
10/1/2017	Date the permit specified complete application of water to the use shall be made- all permits contain this date. (UNDER CURRENT EXTENSION)	
DATE	WORK ACCOMPLISHED AFTER the date the permit specified complete application of water <i>COMPETE ONLY IF THIS IS YOUR 1st APPLICATION FOR AN EXTENSION OF TIME: List work done after the date specified in the permit for complete application of water up to the date of this Application for Extension of Time.</i>	COST*
Total Cost for Chart-B		\$585,000

* If exact cost is not known, you must provide your best estimate.

4. If this is not your 1st Application for Extension of Time request, fill out CHART-C below in addition to CHART-B above. Use *chronological order*.

CHART-C

DATE	WORK ACCOMPLISHED DURING THE LAST EXTENSION PERIOD <i>List all work done during the last authorized extension period.</i>	COST*
10/1/2012	"Extended From" date for complete application of water used in the 1 st (or the most recent) Application for Extension of Time.	
2016	2,500 feet of water line was extended from the irrigation well to 5 nearby greens	\$20,000
10/1/2017	"Extended To" date for complete application of water resulting from the 1 st (or the most recent) Application for Extension of Time.	

- This completed Application for Extension of Time.
- Statutory fee of \$670
- Signature page (Second page of this Application for Extension of Time).
- All supporting documentation and/or evidence referenced in the Application for Extension of Time.

MAIL COMPLETED APPLICATION
along with the Supporting documents and/ or evidence and correct fee to:

**Water Resources Department
Attn: Water Right Permit Extensions
725 Summer Street NE, Suite A
Salem, Oregon 97301**



GENERAL TIPS:

- Permit holders of **municipal or quasi-municipal water use permits DO NOT use this form**. The correct form is APPLICATION FOR EXTENSION OF TIME FOR MUNICIPAL AND QUASI-MUNICIPAL WATER USE PERMITS, available at the following link:
http://www.oregon.gov/owrd/PUBS/docs/forms/fillable_muni_quasi_ext_app_form_2014.doc
- Request the reasonable amount of time necessary to fully complete construction of the water project and/or to fully use the permitted quantity of water under the terms and conditions of your permit. Should this request be approved, it will be OWRD's expectation that you will complete your project within the new time period allowed. Future extensions may not be granted.
- A separate APPLICATION FOR EXTENSION OF TIME must be submitted for each permit. OAR 690-315-0020(2).
- An instruction sheet, INSTRUCTIONS FOR COMPLETING AN APPLICATION FOR EXTENSION OF TIME FOR A WATER RIGHT PERMIT (Attachment A), provides details that will help you answer each item on the application. Permit extensions are evaluated under OAR Chapter 690, Division 315. These rules may be viewed at: http://arcweb.sos.state.or.us/pages/rules/oars_600/oar_690/690_315.html
- You may provide OWRD with any additional information or evidence that will aid us in making our decision. Please note that OWRD may require other information that is necessary to evaluate the application. OAR 690-315-0020(3)(n).
- After careful review of the Application for Extension of Time, you may contact OWRD at (503) 986-0900, to ask questions and request assistance from a Permit Extensions Specialist in the Water Rights Services Division.
- An Application for an Extension of Time will be reviewed for completeness. OWRD will return any incomplete or deficient applications to the applicant. OAR 690-315-0040(1)(a).

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JUL 23 2018

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WELL LABEL # L 81718

START CARD # 1000477

(1) LAND OWNER Owner Well I.D. 1183 W-6

First Name Dennis Last Name Olson
Company BALLY BANDON SHEEP RANCH
Address PO BOX 1756
City BANDON State OR Zip 97411

(2) TYPE OF WORK New Well Deepening Conversion
 Alteration (repair/recondition) Abandonment

(3) DRILL METHOD
 Rotary Air Rotary Mud Cable Auger Cable Mud
 Reverse Rotary Other

(4) PROPOSED USE Domestic Irrigation Community
 Industrial/ Commercial Livestock Dewatering
 Thermal Injection Other

(5) BORE HOLE CONSTRUCTION Special Standard (Attach copy)
Depth of Completed Well 65.00 ft.

BORE HOLE			SEAL				sacks/
Dia	From	To	Material	From	To	Amt	lbs
16	0	4	Bentonite	0	4	3	S
12.25	4	65	Bentonite	4	32	22	S
6	65	70					

How was seal placed: Method A B C D E

Other Pour from surface

Backfill placed from _____ ft. to _____ ft. Material _____

Filter pack from 32 ft. to 70 ft. Material Sand Size 8/12

Explosives used: Yes Type _____ Amount _____

(6) CASING/LINER

Casing	Liner	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	10		1.5	4	.250	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	8		1.08	52.5	sdr26	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	8		62.5	65	sdr26	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Shoe Inside Outside Other Location of shoe(s) _____

Temp casing Yes Dia _____ From _____ To _____

(7) PERFORATIONS/SCREENS

Perforations Method _____
Screens Type Johnson V-Wire Material Stainless Steel

Perf/ Screen	Casing/ Liner	Screen Dia	From	To	Scrn/slot width	Slot length	# of slots	Tele/ pipe size
		8	52.5	62.5	.061			8

(8) WELL TESTS: Minimum testing time is 1 hour

<input checked="" type="radio"/> Pump	<input type="radio"/> Bailer	<input type="radio"/> Air	<input type="radio"/> Flowing Artesian
Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)
83.8	11.5	63	1
83.5	11.9	63	2

Temperature 53 °F Lab analysis Yes By _____

Water quality concerns? Yes (describe below)

From	To	Description	Amount	Units

(9) LOCATION OF WELL (legal description)

County Coos Twp 27.00 S N/S Range 14.00 W E/W WM
Sec 20 SW 1/4 of the SW 1/4 Tax Lot 400
Tax Map Number _____ Lot _____
Lat _____ " or _____ DMS or DD
Long _____ " or _____ DMS or DD
 Street address of well Nearest address

88500 Whisky Run Road, Bandon

(10) STATIC WATER LEVEL

Existing Well / Predeepening	Date	SWL(psi)	+ SWL(ft)
Completed Well	03-29-2007		34

Flowing Artesian? Dry Hole?

WATER BEARING ZONES

Depth water was first found 34

SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(ft)
03-29-2007	34	62	100		34

(11) WELL LOG

Ground Elevation 200

Material	From	To
Topsoil	0	2
Cemented sand brown	2	3
Wood & peat	3	4
Cemented sand brown	4	5
Sand fine-medium tan	5	16
Sandy clay tan & orange	16	18
Sand fine-coarse brown	18	31
Sandy clay tan w/sand fine-coarse brown	31	32
Sand fine-coarse brown	32	44
Sand fine-coarse w/gravel fine brown	44	50
Sandy clay tan w/gravel fine & sand f-c brown	50	52
Gravel fine w/sand coarse-fine brown	52	55
Gravel fine w/sand c-f & sandy clay orange brown	55	57
Gravel fine-medium w/sand coarse-fine gray brown	57	60
Gravel fine-medium w/sand c-f & sandy clay tan	60	61
Gravel fine-medium w/sand coarse-fine gray brown	61	62
Claystone gray	62	70

Date Started 01-11-2007 Completed 03-29-2007

(unbonded) Water Well Constructor Certification

I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

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JUL 23 2018

License Number _____ Date _____

Electronically Filed

Signed _____

OWRD

(bonded) Water Well Constructor Certification

I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.

License Number 1493 Date 03-30-2007

Electronically Filed

Signed JAMES A MACK SR (E-filed)

Contact Info (optional) BANDON WELL & PUMP COMPANY (541) 347-7867

WELL LABEL # L 81722

START CARD # 1000458

(1) LAND OWNER Owner Well I.D. 1180 W-5

First Name Dennis Last Name Olson
 Company Bally Bandon Sheep Ranch
 Address PO Box 1756
 City Bandon State OR Zip 97411

(2) TYPE OF WORK New Well Deepening Conversion
 Alteration (repair/recondition) Abandonment

(3) DRILL METHOD
 Rotary Air Rotary Mud Cable Auger Cable Mud
 Reverse Rotary Other

(4) PROPOSED USE Domestic Irrigation Community
 Industrial/ Commercial Livestock Dewatering
 Thermal Injection Other

(5) BORE HOLE CONSTRUCTION Special Standard (Attach copy)
 Depth of Completed Well 75.00 ft.

BORE HOLE			SEAL				sacks/
Dia	From	To	Material	From	To	Amt	lbs
12.25	0	76	Bentonite	0	32	28	S

How was seal placed: Method A B C D E

Other Pour from surface

Backfill placed from _____ ft. to _____ ft. Material _____

Filter pack from 32 ft. to 75 ft. Material Sand Size 8/12

Explosives used: Yes Type _____ Amount _____

(6) CASING/LINER

Casing	Liner	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	8		1.3	62.5	sdr26	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	8		72.5	75	sdr26	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	10		1.5	4	.250	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Shoe Inside Outside Other Location of shoe(s) _____

Temp casing Yes Dia _____ From _____ To _____

(7) PERFORATIONS/SCREENS

Perforations Method _____
 Screens Type Johnson V-Wire Material Stainless Steel

Perf/ Screen	Casing/ Liner	Screen Dia	From	To	Scrnm/slot width	Slot length	# of slots	Tele/ pipe size
		8	62.5	72.5	.041			8

(8) WELL TESTS: Minimum testing time is 1 hour

Pump Bailer Air Flowing Artesian

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)
2.6	2.5	75	1
10	10	75	1

Temperature 53 °F Lab analysis Yes By _____

Water quality concerns? Yes (describe below)

From	To	Description	Amount	Units

(9) LOCATION OF WELL (legal description)

County Coos Twp 27.00 S N/S Range 14.00 W E/W WM
 Sec 20 SW 1/4 of the SW 1/4 Tax Lot 400
 Tax Map Number _____ Lot _____
 Lat _____ " or _____ DMS or DD
 Long _____ " or _____ DMS or DD
 Street address of well Nearest address

no # vacant Whiskey Run Road, Bandon

(10) STATIC WATER LEVEL

Existing Well / Predeepening	Date	SWL(psi)	+ SWL(ft)
Completed Well	03-26-2007		59.5

Flowing Artesian? Dry Hole?

WATER BEARING ZONES Depth water was first found 46.75

SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(ft)
03-22-2007	59.5	74	10		59.5

(11) WELL LOG

Ground Elevation 150

Material	From	To
Cemented sand orange brown	0	3
Sand fine tan	3	8
Cemented sand tan	8	9
Sandy clay tan	9	10
Cemented sand orange & brown	10	11
Sand fine brown	11	15
Sandy clay white	15	16
Sandy clay orange	16	17
Sand fine-medium tan	17	23
Sandy clay lt. gray	23	24
Sand fine-medium tan	24	32
Cemented sand orange & tan	32	33
Sand fine-coarse w/gravel fine tan	33	38
Sandy clay orange	38	39
Sandy clay tan	39	42
Sand fine-coarse tan	42	44
Sand fine-coarse w/gravel fine brown black	44	49
Gravel fine-medium w/sand coarse-fine brown	49	53
Continued on page 2	49	53

Date Started 01-10-2007 Completed 03-26-2007

(unbonded) Water Well Constructor Certification

I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

License Number _____ Date **JUL 23 2018**

Electronically Filed

Signed _____ **OWRD**

(bonded) Water Well Constructor Certification

I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.

License Number 1493 Date 03-27-2007

Electronically Filed

Signed JAMES A MACK SR (E-filed)

Contact Info (optional) BANDON WELL & PUMP COMPANY (541) 347-7867

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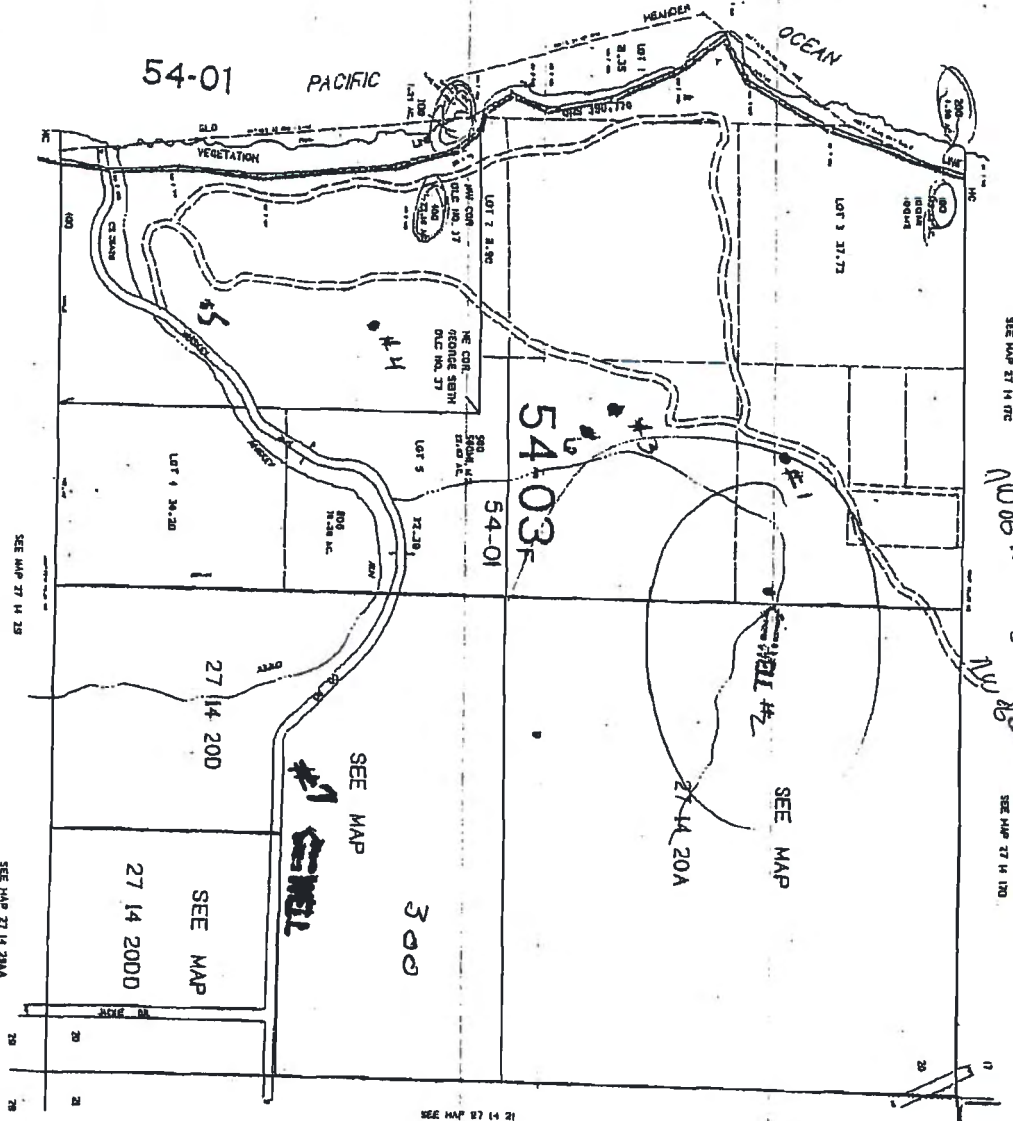
CHANGES UPDATED AS OF MAR 16 1995

CONTROL CHECKED ✓
WATER RESOURCES DEPT
SALEM, OREGON

APR 04 2007

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COOS 53825



NO MAP THIS REQUIRED FOR
ASSOCIATED PARCELS (A. 1.)

SEE MAP 27 14 07C

SEE MAP 27 14 17D

SEE MAP 27 14 19

SEE MAP 27 14 20A

SEE MAP 27 14 21

SEE MAP 27 14 22

SECTION 20 1, 2, 3, R14W, W.M.
COOS COUNTY
7-100'

Handwritten notes:
20,000
100,000
300
27-14-20A

27 14 20
& INDEX

81

27 14 20
& INDEX

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OWRD

COOS 53826

**STATE OF OREGON
MONITORING WELL REPORT**

(as required by ORS 537.765 & OAR 690-240-0395)

WELL LABEL # L 81704

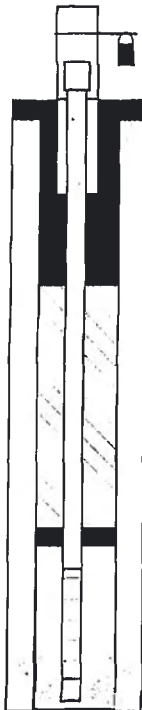
START CARD # 1000459

(1) LAND OWNER Owner Well I.D. 1181 P-7
 First Name Dennis Last Name Olson
 Company BALLY BANDON SHEEP RANCH
 Address PO Box 1756
 City Bandon State OR Zip 97411

(2) TYPE OF WORK New Deepening Conversion
 Alteration (repair/recondition) Abandonment

(3) DRILL METHOD
 Rotary Air Rotary Mud Cable Hollow Stem Auger Cable Mud
 Reverse Rotary Other _____

(4) CONSTRUCTION Piezometer Well
 Depth of Completed Well 54.66 ft. Special Standard



MONUMENT/VAULT Above Ground
 From 1.5 To 4

BORE HOLE
 Diameter 10 From 0 To 4

CASING
 Dia. 2 From 1 To 39.66
 Gauge Sch 40 Wid Thrd
 Material Steel Plastic

LINER
 Dia. _____ From _____ To _____
 Gauge _____ Wid Thrd
 Material Steel Plastic

SEAL
 From 0 To 36
 Material Bentonite Chips
 Amount 7 S Grout weight _____

SCREEN
 Casing/Liner Casing Material PVC
 Diameter 2 From 39.66 To 49.66
 Slot Size .011

FILTER
 From 36 To 55 Material Sand Size of pack 10/20

(5) WELL TESTS

Pump Bailer Air Flowing Artesian

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)
<u>5</u>		<u>54</u>	<u>1</u>

Temperature 54 °F Lab analysis Yes By _____

Supervising Geologist/Engineer _____

Water quality concerns? Yes (describe below)

From	To	Description	Amount	Units

(6) LOCATION OF WELL (legal description)
 County COOS Twp 27 S N/S Range 14 W E/W WM
 Sec 20 NW 1/4 of the SE 1/4 Tax Lot 300
 Tax Map Number _____ Lot _____
 Lat _____ " or _____ DMS or DD
 Long _____ " or _____ DMS or DD
 Street address of well Nearest address

no# vacant, Whiskey Run Road, Bandon

(7) STATIC WATER LEVEL

Date	SWL (psi)	+ SWL (ft)
Existing Well / Predeepening		
Completed Well <u>01-16-2007</u>		<u>31.3</u>

WATER BEARING ZONES Flowing Artesian? Dry Hole?
 Depth water was first found 31.3

SWL Date	From	To	Est Flow	SWL (psi)	+ SWL (ft)
<u>01-16-2007</u>	<u>31.3</u>	<u>50</u>	<u>5</u>		<u>31.3</u>

(8) WELL LOG Ground Elevation 200

Material	From	To
Sandy clay tan	0	3
Cemented sand orange brown & tan	3	6
Sand fine brown	6	8
Sandy clay tan	8	9
Sand fine-coarse gray brown w/sandy clay white	9	19
Sand coarse-fine gray brown w/sandy clay tan	19	21
Sandy clay w/sand fine-coarse brown	21	24
Sand c-f gray brown w/sandy clay brown	24	33
Cemented sand black & brown	33	40
Sand fine-coarse gray brown	40	45
Sand coarse-fine w/gravel fine-coarse gray brown	45	50
Sandy clay orange	50	51
Claystone gray brown	51	55

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SALEM, OREGON

Date Started 01-16-2007 Completed 01-16-2007

(unbonded) Monitor Well Constructor Certification
 I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon monitoring well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

License Number _____ Date _____
 Password: (if filing electronically) _____
 Signed _____

(bonded) Monitor Well Constructor Certification
 I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon monitoring well construction standards. This report is true to the best of my knowledge and belief.

License Number 1493 Date 11/27/07
 Password: (if filing electronically) _____
 Signed [Signature]
 Contact Info (optional) BANDON WELL & PUMP COMPANY (541) 347-7867

ORIGINAL - WATER RESOURCES DEPARTMENT
 THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

Form Version: 0.31

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CHANGES UPDATED AS OF MAR 1 9 1995

COOS 53828

WATER RESOURCES DEPT
SALEM, OREGON

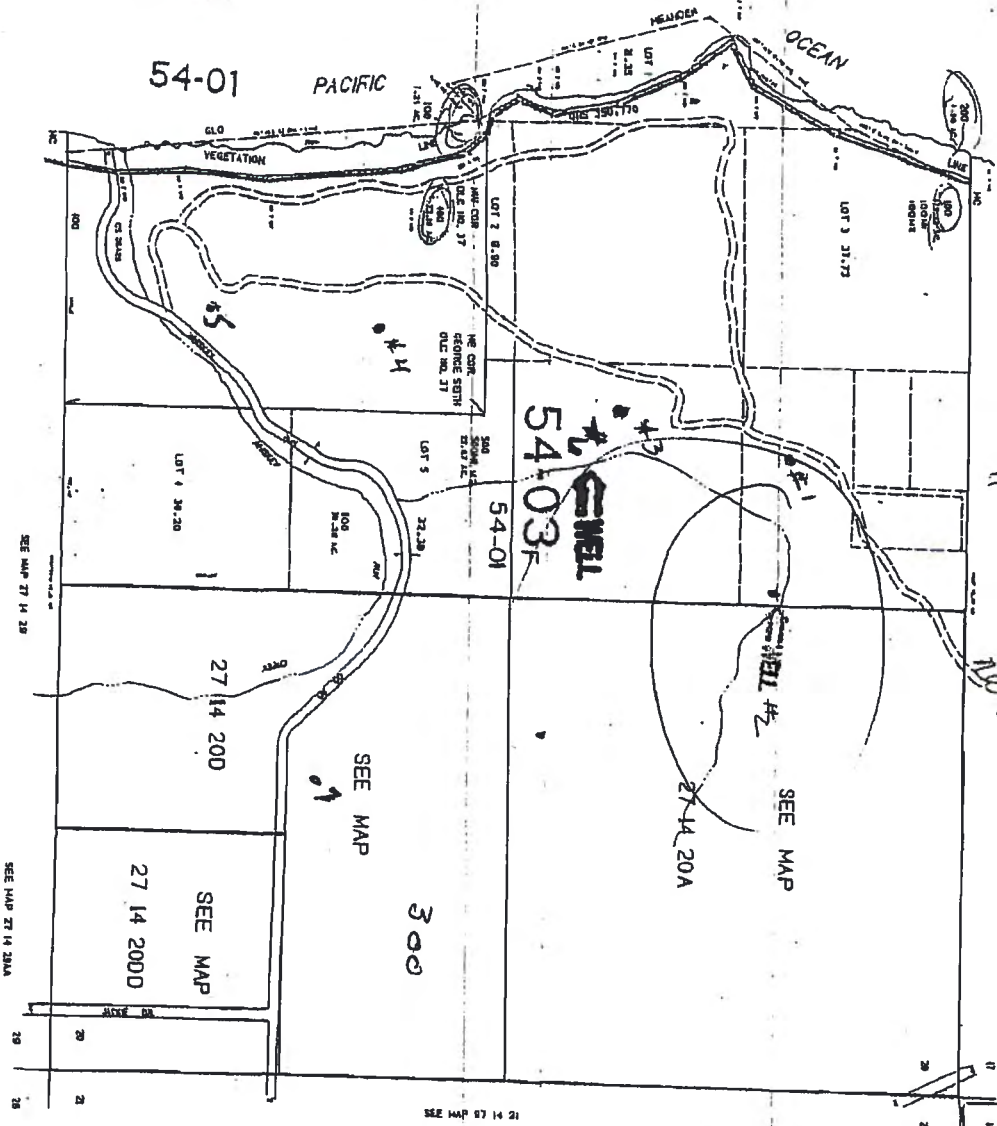
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RECORDING PURPOSE ONLY.

SECTION 20 1/2'S; R14W, WM,
COOS COUNTY

27 14 20
& INDEX



27 14 20
& INDEX

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(4) CONSTRUCTION

BORE HOLE			FILTER PACK			
Dia	From	To	From	To	Material	Size
6	4	71				

SEAL					
Material	From	To	Amt	sacks/ lbs	grout weight

CASING/LINER

Casing	Liner	Dia	+	From	To	Gauge	Su	Plstc	Wld	Thrd
<input checked="checked" type="checkbox"/>	<input type="checkbox"/>	2	<input type="checkbox"/>	62.58	70.58	Sch40	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="checked" type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

SCREENS

Perf/ Screen	Casing/ Liner	Screen Dia	From	To	Scrn size/ slot width	Slot length	# of slots	Tele/ pipe size

(5) WELL TESTS

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)

Water Quality Concerns

From	To	Description	Amount	Units

(7) STATIC WATER LEVEL

Water Bearing Zones						
SWL Date	From	To	Est Flow	SWL(psi)	+	SWL(ft)

(8) WELL LOG

Material	From	To

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WATER RESOURCES DEPT.
SALEM, OREGON

Comments/Remarks

Piezometer well drilled by:
Bandon Well & Pump Co.

STATE OF OREGON
MONITORING WELL REPORT

(as required by ORS 537.765 & OAR 690-240-0395)

WELL LABEL # L 81702

START CARD # 1000457

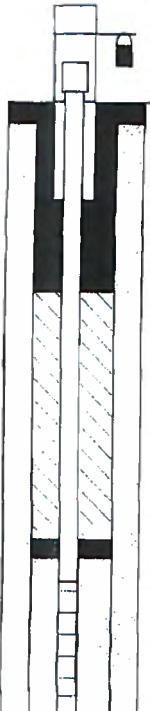
(1) LAND OWNER Owner Well I.D. 1179-6

First Name Dennis Last Name Olson
Company BALLY BANDON SHEEP RANCH
Address PO Box 1756
City Bandon State OR Zip 97411

(2) TYPE OF WORK New Deepening Conversion
 Alteration (repair/recondition) Abandonment

(3) DRILL METHOD
 Rotary Air Rotary Mud Cable Hollow Stem Auger Cable Mud
 Reverse Rotary Other

(4) CONSTRUCTION Piezometer Well
Depth of Completed Well 70.58 ft. Special Standard



MONUMENT/VAULT Above Ground
From 1.5 To 4

BORE HOLE
Diameter 10 From 0 To 4

CASING
Dia. 2 From 1 To 52.58
Gauge Sch40 Wid Thrd
Material Steel Plastic

LINER
Dia. From To
Gauge Wid Thrd
Material Steel Plastic

SEAL
From 0 To 50
Material Bentonite Chips
Amount 10 S Grout weight

SCREEN
Casing/Liner Casing Material PVC
Diameter 2 From 52.58 To 62.58
Slot Size .011

FILTER
From 50 To 71 Material Sand Size of pack 10/20

(6) LOCATION OF WELL (legal description)

County COOS Twp 27 S N/S Range 14 W E/W WM
Sec 20 SE 1/4 of the NW 1/4 Tax Lot 100
Tax Map Number Lot
Lat ° 0 ' or DMS or DD
Long ° 0 ' or DMS or DD
 Street address of well Nearest address

no# vacant off Whiskey Run Road, Bandon

(7) STATIC WATER LEVEL

Existing Well / Predeepening	Date	SWL(psi)	+ SWL(ft)
Completed Well	01-09-2007		36

Flowing Artesian? Dry Hole?
WATER BEARING ZONES Depth water was first found 36

SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(ft)
01-09-2007	36	62	10		36

(8) WELL LOG Ground Elevation 200

Material	From	To
Sandy topsoil	0	2
Cemented sand orange brown	2	3
Peat w/wood	3	4
Cemented sand orange brown	4	5
Sand fine-medium brown	5	16
Sandy clay white & orange	16	18
Sand fine-medium orange brown	18	20
Sandy clay orange	20	21
Sand fine-coarse brown	21	30
Sandy clay tan	30	31
Sand fine-coarse gray brown	31	38
Sandy clay tan	38	40
Sand fine-coarse gray brown w/sandy clay tan	40	48
Gravel fine w/sand coarse-fine orange brown	48	53
Gravel fine-medium w/sand coarse-fine gray brown	53	58
Gravel fine-medium w sand c-f & sandy clay orange	58	60
Gravel fine-medium w/sand coarse-fine gray brown	60	62
Claystone blue gray	62	64
Claystone lt brown	64	71

Date Started 01-09-2007 Completed 01-09-2007

(unbonded) Monitor Well Constructor Certification
I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon monitoring well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

License Number _____ Date _____
Password: (if filing electronically) _____
Signed _____

(bonded) Monitor Well Constructor Certification
I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon monitoring well construction standards. This report is true to the best of my knowledge and belief.

License Number 1493 Date 11/10/07
Password: (if filing electronically) _____
Signed *Janis M. Gove*
Contact Info (optional) BANDON WELL & PUMP COMPANY (541) 347-7867

(5) WELL TESTS

Pump Bailer Air Flowing Artesian

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)
10		65	1

Temperature 54 °F Lab analysis Yes By _____

Supervising Geologist/Engineer _____

Water quality concerns? Yes (describe below)

From	To	Description	Amount	Units

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THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

ORIGINAL - WATER RESOURCES DEPARTMENT
SALEM, OREGON

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Form Version: 0.31

JUL 23 2013

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CHANGES UPDATED AS OF MAR 16 1995

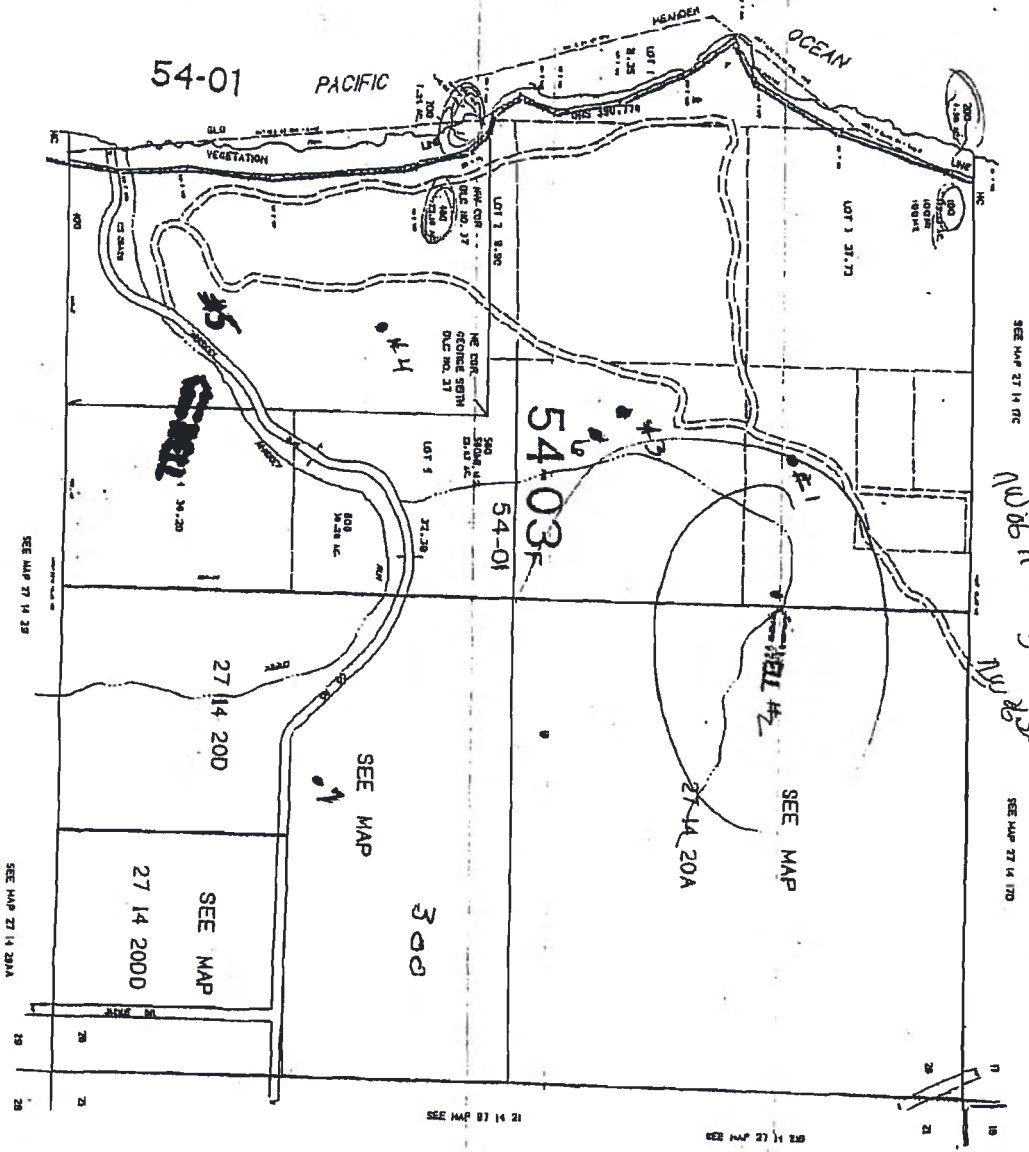
COOS 53827

CONTROL WATER RESOURCES DEPT SALEM, OREGON

APR 04 2007

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THIS MAP WAS PREPARED FOR
LANDSCAPE PURPOSES ONLY.



SELLIUM 20 1 2/3, R14W, W.M.
COOS COUNTY

Handwritten notes:
200 200
100 100
300
SEE MAP

2/14 20
& INDEX

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77 14 20
& INDEX

(4) CONSTRUCTION

BORE HOLE

Dia	From	To
6	4	75.08

FILTER PACK

From	To	Material	Size

SEAL

Material	From	To	Am't	sacks/ lbs	grout weight

(7) STATIC WATER LEVEL

Water Bearing Zones

SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(ft)

(8) WELL LOG

Material	From	To
Sandy clay tan w/gravel fine & sand c-f orange brown	66	68
Gravel fine-medium w/sand c-f gray brown	68	74
Claystone gray	74	75.08

CASING/LINER

Casing Liner	Dia	+ Gauge	From	To	Stl	Plstc	Wld	Thrd

SCREENS

Perf/ Screen	Casing/ Liner	Screen Dia	From	To	Scrn size/ slot width	Slot length	# of slots	Tele/ pipe size

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JAN 19 2007
WATER RESOURCES DEPT.
SALEM, OREGON

(5) WELL TESTS

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)

Water Quality Concerns

From	To	Description	Amount	Units

Comments/Remarks

Piezometer Well Drilled By:
Bandon Well & Pump Co.
(541)347-7867

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JUL 23 2018
OWRD

STATE OF OREGON
MONITORING WELL REPORT

(as required by ORS 537.765 & OAR 690-240-0395)

WELL LABEL # L 81703

START CARD # 1000472

(1) LAND OWNER Owner Well I.D. 1182 P-5
 First Name Dennis Last Name Olson
 Company BALLEY BANDON SHEEP RANCH
 Address PO Box 1756
 City Bandon State OR Zip 97411

(2) TYPE OF WORK New Deepening Conversion
 Alteration (repair/recondition) Abandonment

(3) DRILL METHOD
 Rotary Air Rotary Mud Cable Hollow Stem Auger Cable Mud
 Reverse Rotary Other

(4) CONSTRUCTION Piezometer Well
 Depth of Completed Well 75.08 ft. Special Standard



MONUMENT/VAULT Above Ground
 From 1.5 To 4

BORE HOLE
 Diameter 10 From 0 To 4

CASING
 Dia. 2 From 1 To 65
 Gauge Sch 40 Wld Thrd
 Material Steel Plastic

LINER
 Dia. _____ From _____ To _____
 Gauge _____ Wld Thrd
 Material Steel Plastic

SEAL
 From 0 To 62
 Material Bentonite Chips
 Amount 13 S Grout weight _____

SCREEN
 Casing/Liner Casing Material PVC
 Diameter 2 From 65 To 75
 Slot Size .011

FILTER
 From 62 To 75.08 Material Sand Size of pack 10/20

(5) WELL TESTS

Pump Bailer Air Flowing Artesian

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)
5		75	1

Temperature 54 °F Lab analysis Yes By _____

Supervising Geologist/Engineer
 Water quality concerns? Yes (describe below)

From	To	Description	Amount	Units

(6) LOCATION OF WELL (legal description)
 County COOS Twp 27 S N/S Range 14 W E/W WM
 Sec 20 SW 1/4 of the SW 1/4 Tax Lot 400
 Tax Map Number _____ Lot _____
 Lat _____ " or _____ DMS or DD
 Long _____ " or _____ DMS or DD
 Street address of well Nearest address

no# vacant, Whiskey Run Road, Bandon

(7) STATIC WATER LEVEL

Existing Well / Predeepening	Date	SWL (psi)	+ SWL (ft)
Completed Well	01-15-2007		46.8

WATER BEARING ZONES Depth water was first found 46.75

SWL Date	From	To	Est Flow	SWL (psi)	+ SWL (ft)
01-15-2007	46.75	74	5		46.75

(8) WELL LOG Ground Elevation 200

Material	From	To
Topsoil	0	1
Sand fine orange brown	1	3
Sand fine brown	3	9
Sandy clay brown	9	10
Cemented sand orange brown	10	13
Sand fine-medium orange brown	13	16
Sandy clay w/cemented sand lenses tan	16	20
Sand fine-medium tan	20	22
Cemented sand w/sandy clay lenses tan	22	24
Sand fine-coarse brown	24	30
Sand coarse-fine gray brown	30	39
Sandy clay tan	39	40
Sand coarse-fine w/gravel fine gray brown	40	49
Gravel fine w/sand c-f & sandy clay brown	49	51
Gravel fine w/sand coarse-fine gray brown	51	54
Gravel fine-medium w/sand coarse-fine orange brown	54	61
Sandy clay tan w/gravel f-m & sand c-f orange brown	61	63
Sandy clay orange brown w/gravel f-m & sand brown	63	66
Continued on page 2	63	66

Date Started 01-15-2007 Completed 01-15-2007

(unbonded) Monitor Well Constructor Certification
 I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon monitoring well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

License Number _____ Date _____
 Password: (if filing electronically) _____
 Signed _____

(bonded) Monitor Well Constructor Certification
 I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon monitoring well construction standards. This report is true to the best of my knowledge and belief.

License Number 1493 Date 1/16/07
 Password: (if filing electronically) _____
 Signed Joe Machuga
 Contact Info (optional) BANDON WELL & PUMP COMPANY (541) 347-7867

THIS REPORT MUST BE SUBMITTED TO THE ORIGINAL STATE RESOURCES DEPARTMENT SALEM, OREGON WITHIN 30 DAYS OF COMPLETION OF WORK

STATE OF OREGON
MONITORING WELL REPORT

(as required by ORS 537.765 & OAR 690-240-0395)

*Amended
for*

WELL LABEL # L 81703

START CARD # 1000472

(1) LAND OWNER Owner Well I.D. 1182 P-5
First Name Dennis Last Name Olson
Company BALLY BANDON SHEEP RANCH
Address PO Box 1756
City Bandon State OR Zip 97411

(2) TYPE OF WORK New Deepening Conversion
 Alteration (repair/recondition) Abandonment

(3) DRILL METHOD
 Rotary Air Rotary Mud Cable Hollow Stem Auger Cable Mud
 Reverse Rotary Other

(4) CONSTRUCTION Piezometer Well
Depth of Completed Well 75.08 ft. Special Standard



MONUMENT/Vault Above Ground
From 1.5 To 4

BORE HOLE
Diameter 10 From 0 To 4

CASING
Dia. 2 From 1 To 65
Gauge Sch 40 Wid Thrd
Material Steel Plastic

LINER
Dia. _____ From _____ To _____
Gauge _____ Wid Thrd
Material Steel Plastic

SEAL
From 0 To 62
Material Bentonite Chips
Amount 13 S Grout weight _____

SCREEN
Casing/Liner Casing Material PVC
Diameter 2 From 65 To 75
Slot Size .011

FILTER
From 62 To 75.08 Material Sand Size of pack 10/20

(5) WELL TESTS

Pump Bailer Air Flowing Artesian

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)
<u>5</u>		<u>75</u>	<u>1</u>

Temperature 54 °F Lab analysis Yes By _____
Supervising Geologist/Engineer _____
Water quality concerns? Yes (describe below)
From _____ To _____ Amount _____ Units _____
RECEIVED
APR 04 2007

(6) LOCATION OF WELL (legal description)
County COOS Twp 27 S N/S Range 14 W E/W WM
Sec 20 SW 1/4 of the SW 1/4 Tax Lot 400
Tax Map Number _____ Lot _____
Lat _____ ° _____ ' _____ " or _____ DMS or DD
Long _____ ° _____ ' _____ " or _____ DMS or DD
 Street address of well Nearest address
no# vacant, Whiskey Run Road, Bandon

(7) STATIC WATER LEVEL

Existing Well / Predeepening	Date	SWL(psi)	+ SWL(ft)
Completed Well	<u>01-15-2007</u>		<u>46.8</u>

Flowing Artesian? Dry Hole?
Depth water was first found 46.75

SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(ft)
<u>01-15-2007</u>	<u>46.75</u>	<u>74</u>	<u>5</u>		<u>46.75</u>

(8) WELL LOG Ground Elevation 200

Material	From	To
Topsoil	0	1
Sand fine orange brown	1	3
Sand fine brown	3	9
Sandy clay brown	9	10
Cemented sand orange brown	10	13
Sand fine-medium orange brown	13	16
Sandy clay w/cemented sand lenses tan	16	20
Sand fine-medium tan	20	22
Cemented sand w/sandy clay lenses tan	22	24
Sand fine-coarse brown	24	30
Sand coarse-fine gray brown	30	39
Sandy clay tan	39	40
Sand coarse-fine w/gravel fine gray brown	40	49
Gravel fine w/sand c-f & sandy clay brown	49	51
Gravel fine w/sand coarse-fine gray brown	51	54
Gravel fine-medium w/sand coarse-fine orange brown	54	61
Sandy clay tan w/gravel f-m & sand c-f orange brown	61	63
Sandy clay orange brown w/gravel f-m & sand brown	63	66
Continued on page 2	63	66

Date Started 01-15-2007 Completed 01-15-2007

(unbonded) Monitor Well Constructor Certification **RECEIVED**
I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon monitoring well construction standards. Materials used and information reported above are true to the best of my knowledge and belief. **APR 2 2018**
License Number _____ Date _____ **OWRD**
Password: (if filing electronically) _____
Signed _____

(bonded) Monitor Well Constructor Certification
I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon monitoring well construction standards. This report is true to the best of my knowledge and belief.
License Number 1493 Date 4/3/07
Password: (if filing electronically) _____
Signed Jim M... M6w
Contact Info (optional) BANDON WELL & PUMP COMPANY (541) 347-7867

COOS 53703

MONITORING WELL REPORT -
continuation page

WELL I.D. # L 80265

START CARD # 182719

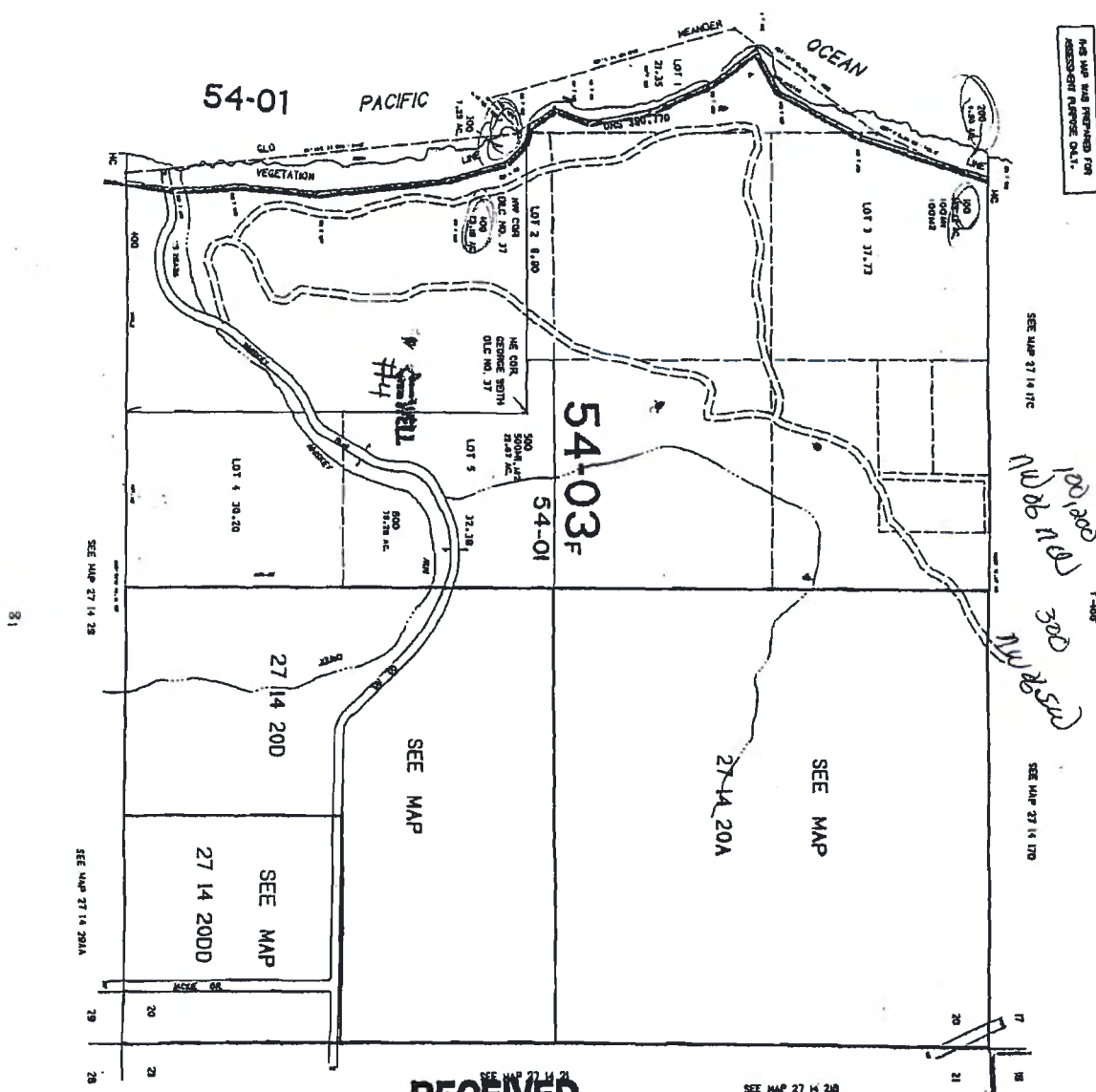
Map of well

CONTROL LAYOUT TRACED CHECKED

REDUCED COPY
NOT TO SCALE

27-14-20
COPY

CHANGES UPDATED AS OF MAR 16 1995



SECTION 20 1.2/5. HAW. WM.
COOS COUNTY
T-408

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JUL 23 2018
OWRD

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SEP 27 2006

WATER RESOURCES DEPT
SALEM, OREGON

27 14 20
& INDEX

27 14 20
& INDEX

COOS 53703

MONITORING WELL REPORT -
continuation page

WELL I.D. # L 80265

START CARD # 182719

(4) CONSTRUCTION

BORE HOLE

Dia	From	To

FILTER PACK

From	To	Material	Size

SEAL

Material	From	To	Amt	sacks/ lbs	grout weight
Cement	66	73	1	S	

CASING/LINER

Casing/Liner	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd
<input checked="" type="radio"/> <input type="radio"/>	2		65	72.6	Sch40	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

SCREENS

Perf/ Screen	Casing/ Liner	Screen Dia	From	To	Scrn size/ slot width	Slot length	# of slots	Tele/ pipe size

(5) WELL TESTS

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)

Water Quality Concerns

From	To	Description	Amount	Units

(7) STATIC WATER LEVEL

Water Bearing Zones

SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(ft)

(8) WELL LOG

Material	From	To
Gravel fine-medium w/sand fine-coarse multi-colored	53	64
Clay brown	64	64.5
Sandy clay gray	64.5	66
Wood w/gravel & sandy clay gray (Loss circulation)	66	68
Sandstone gray	68	71
Claystone gray	71	73

Comments/Remarks

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JUL 23 2018

OWRD

Well drilled by:
BANDON WELL & PUMP COMPANY
(541) 347-7867

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SEP 27 2006

WATER RESOURCES DEPT
SALEM, OREGON

STATE OF OREGON
MONITORING WELL REPORT

(as required by ORS 537.765 & OAR 690-240-0395)

WELL LABEL # L 80265

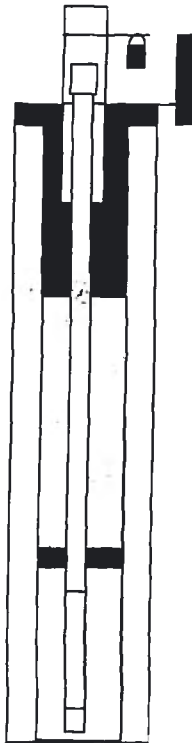
START CARD # 182719

(1) LAND OWNER Owner Well I.D. 1154
First Name Dennis Last Name Olson
Company BALLY BANDON SHEEP RANCH
Address PO Box 1756
City Bandon State OR Zip 97411

(2) TYPE OF WORK New Deepening Conversion
 Alteration (repair/recondition) Abandonment

(3) DRILL METHOD
 Rotary Air Rotary Mud Cable Hollow Stem Auger Cable Mud
 Reverse Rotary Other

(4) CONSTRUCTION Piezometer Well
Depth of Completed Well 72.6 ft. Special Standard



MONUMENT/Vault Above Ground
From 1.3 To 4

BORE HOLE
Diameter 6 From 0 To 73

CASING
Dia. 2 From 1 To 54.4
Gauge Sch40 Wld Thrd
Material Steel Plastic

LINER
Dia. _____ From _____ To _____
Gauge _____ Wld Thrd
Material Steel Plastic

SEAL
From 0 To 41
Material Bentonite
Amount 15 S Grout weight _____

SCREEN
Casing/Liner Casing _____ Material PVC
Diameter 2 From 54.4 To 64
Slot Size .02

FILTER
From 41 To 65 Material Sand Size of pack 10/20

(5) WELL TESTS

Pump Bailer Air Flowing Artesian

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)
		72	1

Temperature 53 °F Lab analysis Yes By _____

Supervising Geologist/Engineer _____

Water quality concerns? Yes (describe below)

From	To	Description	Amount	Units

(6) LOCATION OF WELL (legal description)

County COOS Twp 27 S N/S Range 14 W E/W WM
Sec 20 NW 1/4 of the SW 1/4 Tax Lot 400
Tax Map Number _____ Lot _____
Lat _____ " or _____ DMS or DD
Long _____ " or _____ DMS or DD
 Street address of well Nearest address

off Whiskey Run Road no#vacant

(7) STATIC WATER LEVEL

Existing Well / Predeepening	Date	SWL (psi)	+ SWL (ft)
Completed Well	09-21-2006		51.4

Flowing Artesian? Dry Hole?
Depth water was first found 51.4

WATER BEARING ZONES

SWL Date	From	To	Est Flow	SWL (psi)	+ SWL (ft)
09-21-2006	51.4	68	20		51.4

(8) WELL LOG

Ground Elevation 200

Material	From	To
Sandy clay brown	0	1
Cemented sand brown	1	7
Sandy clay tan	7	7.5
Cemented sand brown	7.5	9
Sand tan fine	9	11
Sandy clay white	11	12
Sandy clay tan/orange	12	13
Sand fine tan	13	21
Sandy clay white	21	22
Sand fine-coarse brown	22	29
Sandy clay tan/orange	29	30
Sand fine-coarse w/gravel fine brown	30	35
Sandy clay orange	35	36
Sand fine-coarse w/gravel fine brown	36	43
Sandy clay tan	43	44
Sand fine-coarse w/gravel fine brown	44	46
Cemented sand red	46	48
Sand fine-coarse w/gravel fine brown	48	53
Continued on page 2	48	53

Date Started 09-20-2006 Completed 09-21-2006

(unbonded) Monitor Well Constructor Certification

I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon monitoring well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

License Number _____ Date _____

Password : (if filing electronically) _____

Signed _____

(bonded) Monitor Well Constructor Certification

I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon monitoring well construction standards. This report is true to the best of my knowledge and belief.

License Number 1493 Date 9/22/06

Password : (if filing electronically) _____

Signed Jim Mack

Contact Info (optional) BANDON WELL & PUMP COMPANY (541) 347-7867

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ORIGINAL - WATER RESOURCES DEPARTMENT
THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

SEP 27 2006

WATER RESOURCES DEPT
SALEM, OREGON

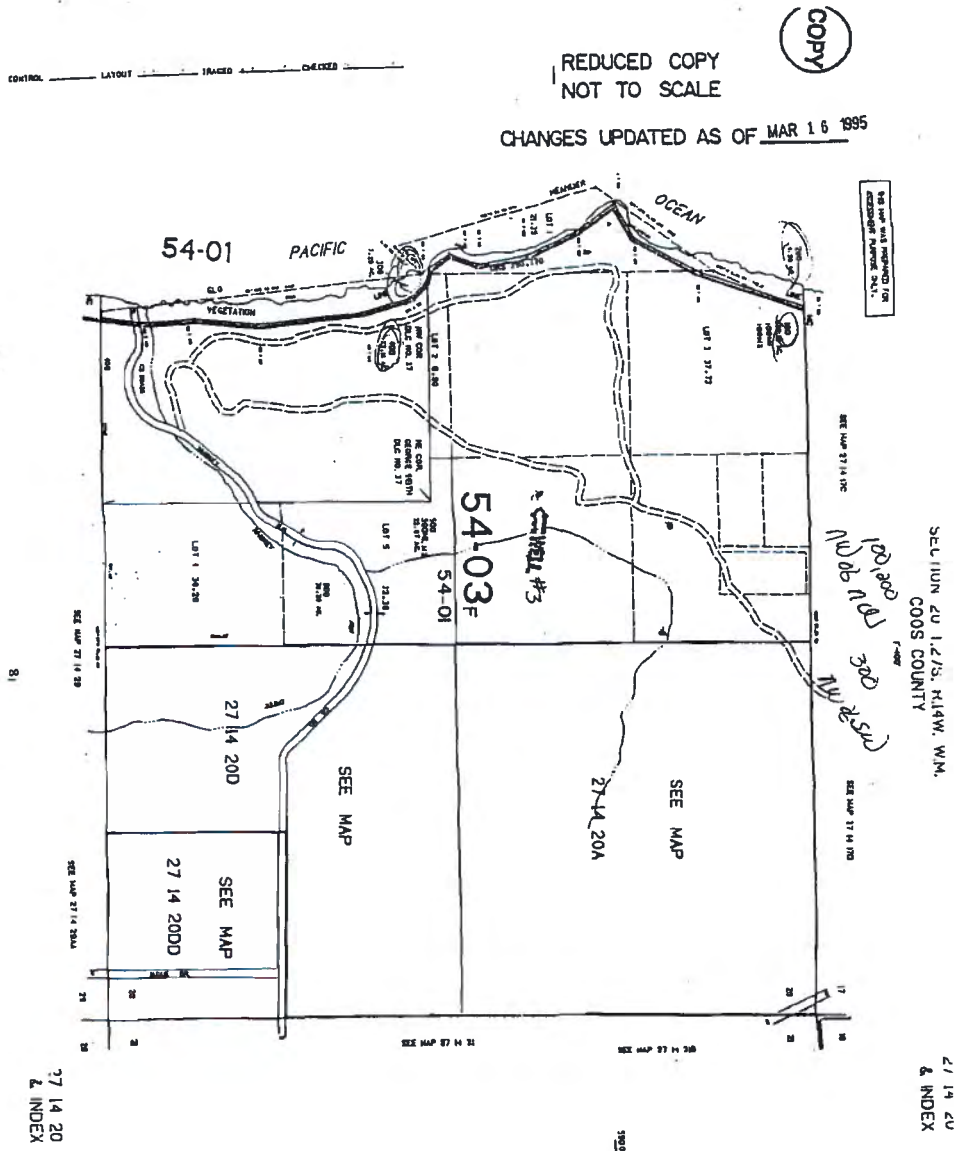
COOS 53700

MONITORING WELL REPORT -
continuation page

WELL I.D. # L 80266

START CARD # 182716

Map of well



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WATER RESOURCES DEPT
SALEM, OREGON

COOS 53700

**STATE OF OREGON
MONITORING WELL REPORT**

(as required by ORS 537.765 & OAR 690-240-0395)

WELL LABEL # L 80266

START CARD # 182716

(1) LAND OWNER Owner Well I.D. 1153

First Name Dennis Last Name Olson
Company BALLY BANDON SHEEP RANCH
Address PO Box 1756
City Bandon State OR Zip 97411

(2) TYPE OF WORK New Deepening Conversion
 Alteration (repair/recondition) Abandonment

(3) DRILL METHOD
 Rotary Air Rotary Mud Cable Hollow Stem Auger Cable Mud
 Reverse Rotary Other

(4) CONSTRUCTION Piezometer Well

Depth of Completed Well 63.08 ft. Special Standard



MONUMENT/VAULT Above Ground
From 1.3 To 4

BORE HOLE
Diameter 6 From 0 To 65

CASING
Dia. 2 From 1 To 43
Gauge Sch40 Wid Thrd
Material Steel Plastic

LINER
Dia. _____ From _____ To _____
Gauge _____ Wid Thrd
Material Steel Plastic

SEAL
From 0 To 30
Material Bentonite
Amount 12 S Grout weight _____

SCREEN
Casing/Liner Casing Material PVC
Diameter 2 From 43 To 53
Slot Size .020

FILTER
From 30 To 54 Material Sand Size of pack 10/20

(5) WELL TESTS

Pump Bailor Air Flowing Artesian

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)
<u>3</u>		<u>60</u>	

Temperature 53 °F Lab analysis Yes By _____

Supervising Geologist/Engineer _____

Water quality concerns? Yes (describe below)

From	To	D	Amount	Units

(6) LOCATION OF WELL (legal description)

County COOS Twp 27 S N/S Range 14 W E/W WM
Sec 20 SE 1/4 of the NW 1/4 Tax Lot 100
Tax Map Number _____ Lot _____
Lat _____ " or _____ DMS or DD
Long _____ " or _____ DMS or DD
 Street address of well Nearest address

no#(vacant) Whiskey Run, Bandon

(7) STATIC WATER LEVEL

Existing Well / Predeepening	Date	SWL(psi)	+ SWL(ft)
Completed Well	<u>09-19-2006</u>		<u>32.6</u>

Flowing Artesian? Dry Hole?
WATER BEARING ZONES Depth water was first found 32.6

SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(ft)
<u>09-19-2006</u>	<u>32.6</u>	<u>53.5</u>	<u>3</u>		<u>32.6</u>

(8) WELL LOG

Ground Elevation 300

Material	From	To
Cemented sand w/sand fine tan	0	4
Sand fine tan	4	9
Sandy clay tan w/gravel fine	9	10
Sand fine-coarse tan	10	16
Sand fine-coarse w/gravel fine tan	16	17
Sandy clay tan	17	18
Sand fine-coarse w/gravel fine tan	18	21
Sandy clay tan/orange w/peat	21	25
Sand fine-coarse w/gravel fine brown	25	38
Sandy clay tan/orange w/peat	38	41
Sand fine-coarse w/gravel f-m & cemented sand balls	41	45
Sand fine-coarse w/gravel fine tan	45	53
Gravel fine-medium w/sand fine-coarse tan	53	53.5
Sandy clay tan/orange	53.5	54
Clay tan & orange	54	56
Clay gray	56	57
Claystone gray	57	65

Date Started 09-18-2006 Completed 09-19-2006

(unbonded) Monitor Well Constructor Certification

I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon monitoring well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

License Number _____ Date _____

Password : (if filing electronically) _____

Signed _____

(bonded) Monitor Well Constructor Certification

I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon monitoring well construction standards. This report is true to the best of my knowledge and belief.

License Number 1493 Date 9/20/06

Password : (if filing electronically) _____

Signed Jim Meckel, M. Mewe

Contact Info (optional) BANDON WELL & PUMP COMPANY (541) 347-7867

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OWRD

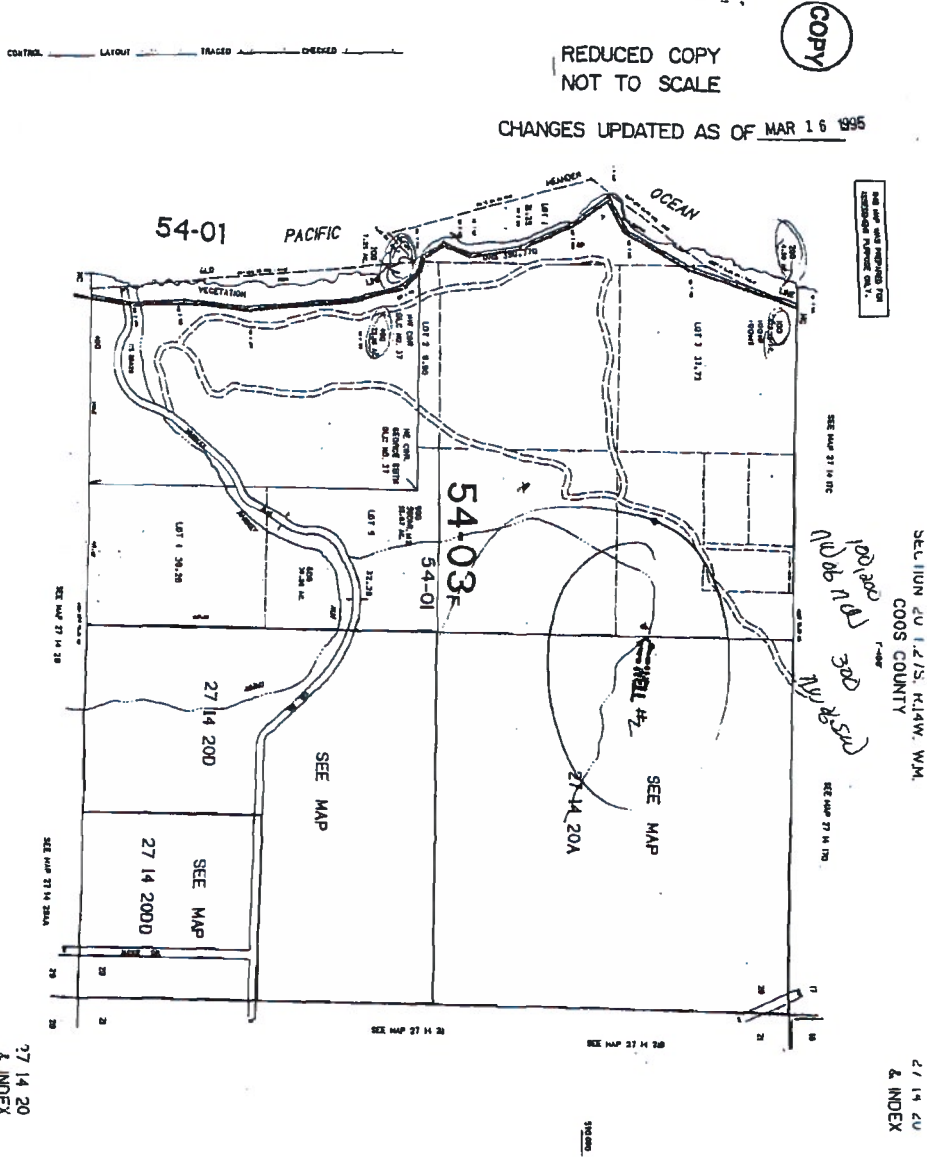
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SEP 21 2006

MONITORING WELL REPORT -
 Map with location identified must be attached and shall include
 an approximate scale and north arrow

WELL I.D. # L 80259

START CARD # 182715

Map of well



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 SEP 21 2006
 WATER RESOURCES DEPT
 SALEM, OREGON

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 JUL 23 2018
 OWRD

COOS 53699

MONITORING WELL REPORT -
continuation page

WELL I.D. # L 80259

START CARD # 182715

(4) CONSTRUCTION

BORE HOLE

Dia	From	To

FILTER PACK

From	To	Material	Size

SEAL

Material	From	To	Amt	sacks/ lbs	grout weight
Cement	46	55	1.5	S	

CASING/LINER

Casing Liner	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd
	2		45	55	Sch40				

SCREENS

Perf/Screen	Casing/Liner Dia	From	To	Scrn size/ slot width	Slot length	# of slots	Tele/ pipe size

(5) WELL TESTS

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)

Water Quality Concerns

From	To	Description	Amount	Units

(7) STATIC WATER LEVEL

Water Bearing Zones

SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(ft)

(8) WELL LOG

Material	From	To
Claystone gray	48	52
Sandstone gray	52	53
Claystone gray	53	55

Comments/Remarks

Well drilled by Bandon Well & Pump Co.
(541) 347-7867

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SEP 21 2006

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JUL 23 2018

OWRD

STATE OF OREGON
MONITORING WELL REPORT

(as required by ORS 537.765 & OAR 690-240-0395)

WELL LABEL # L 80259

START CARD # 182715

(1) LAND OWNER Owner Well I.D. 1152

First Name Dennis Last Name Olson
Company BANDON BALLY SHEEP RANCH
Address PO Box 1756
City Bandon State OR Zip 97411

(2) TYPE OF WORK New Deepening Conversion
 Alteration (repair/recondition) Abandonment

(3) DRILL METHOD

Rotary Air Rotary Mud Cable Hollow Stem Auger Cable Mud
 Reverse Rotary Other

(4) CONSTRUCTION Piezometer Well

Depth of Completed Well 55 ft. Special Standard

MONUMENT/VAULT Above Ground
From 1.3 To 4

BORE HOLE
Diameter 6 From 0 To 55

CASING
Dia. 2 From 1 To 40
Gauge Sch40 Wld Thrd
Material Steel Plastic

LINER
Dia. _____ From _____ To _____
Gauge _____ Wld Thrd
Material Steel Plastic

SEAL
From 0 To 29
Material Bentonite
Amount 11 S Grout weight _____

SCREEN
Casing/Liner Casing Material PVC
Diameter 2 From 40 To 45
Slot Size .020

FILTER
From 29 To 46 Material Sand Size of pack 10/20

(5) WELL TESTS

<input checked="" type="radio"/> Pump	<input type="radio"/> Bailer	<input checked="" type="radio"/> Air	<input type="radio"/> Flowing Artesian
Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)
4		50	1

Temperature 53 °F Lab analysis Yes By _____

Supervising Geologist/Engineer _____

Water quality concerns? Yes (describe below)

From	To	Description	Amount	Units

(6) LOCATION OF WELL (legal description)

County COOS Twp 27 S N/S Range 14 W E/W WM
Sec 20 NE 1/4 of the NW 1/4 Tax Lot 100
Tax Map Number _____ Lot _____
Lat _____ " or _____ DMS or DD
Long _____ " or _____ DMS or DD
 Street address of well Nearest address

no#(vacant) off Whiskey Run, Bandon

(7) STATIC WATER LEVEL

Existing Well / Predeepening	Date	SWL(psi)	+ SWL(ft)
Completed Well	09-18-2006		16.6

Flowing Artesian? Dry Hole?
WATER BEARING ZONES Depth water was first found

SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(ft)
09-18-2006	18	45	4		16.6

(8) WELL LOG

Ground Elevation 300

Material	From	To
Sandy clay brown	0	1
Cemented sand brown	1	2
Sand tan fine	2	5
Wood & sand fine tan	5	6
Sand fine tan	6	7
Sand fine-coarse tan	7	8
Sand fine-coarse w/gravel fine brown	8	13
Gravel fine w/sandy clay orange brown	13	17
Peat	17	18
Sand fine-coarse brown	18	23
Sandy clay tan w/peat	23	30
Sand fine-coarse tan	30	34
Sandy clay tan orange w/peat	34	39
Sand fine-coarse w/gravel fine tan	39	40
Sand fine-coarse w/gravel fine-medium tan	40	45
Sandy clay tan orange	45	45.5
Sandy clay white	45.5	46
Clay gray	46	48
Continued on page 2	46	48

Date Started 09-15-2006 Completed 09-18-2006

(unbonded) Monitor Well Constructor Certification

I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon monitoring well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

License Number _____ Date JUL 23 2018

Password: (if filing electronically) _____

Signed _____ OWRD

(bonded) Monitor Well Constructor Certification

I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon monitoring well construction standards. This report is true to the best of my knowledge and belief.

License Number 1493 Date 9/19/06

Password: (if filing electronically) _____

Signed [Signature]

Contact Info (optional) BANDON WELL & PUMP COMPANY (541) 347-7867

RECEIVED
SEP 21 2006

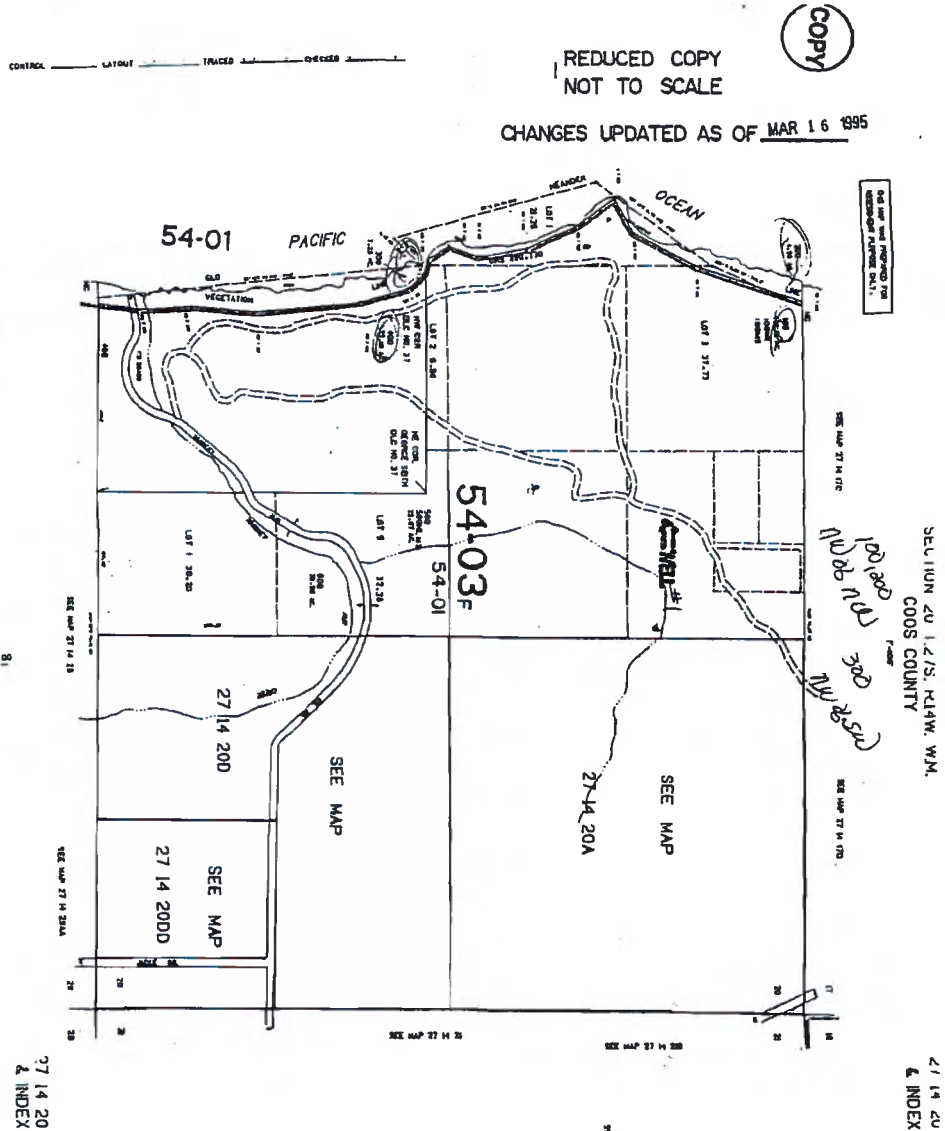
COOS 53702

MONITORING WELL REPORT -
continuation page

WELL I.D. # L 80268

START CARD # 182714

Map of well



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JUL 23 2018
OWRD

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SEP 21 2006
WATER RESOURCES DEPT
SALEM, OREGON

STATE OF OREGON
MONITORING WELL REPORT

(as required by ORS 537.765 & OAR 690-240-0395)

WELL LABEL # L 80268

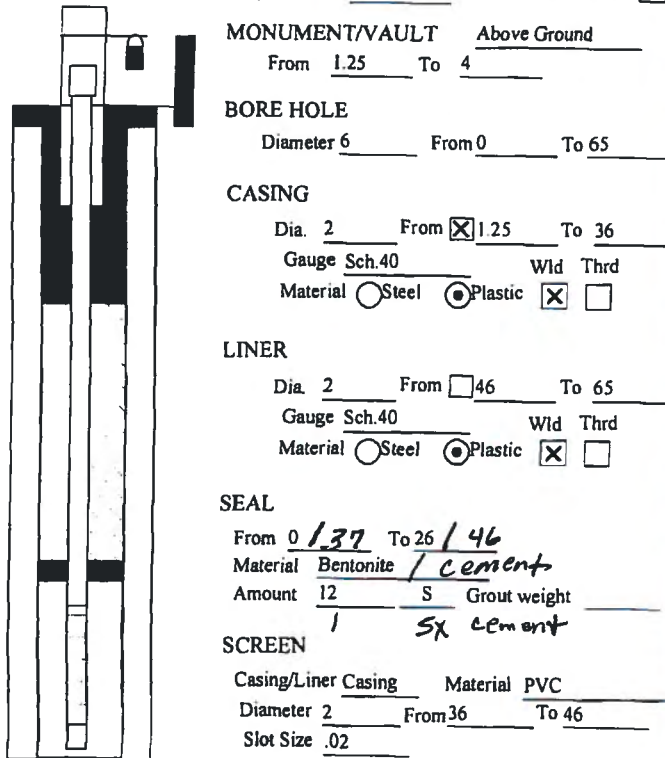
START CARD # 182714

(1) LAND OWNER Owner Well I.D. 1151
First Name Dennis Last Name Olson
Company BANDON BALLY SHEEP RANCH
Address PO Box 1756
City Bandon State OR Zip 97411

(2) TYPE OF WORK New Deepening Conversion
 Alteration (repair/recondition) Abandonment

(3) DRILL METHOD
 Rotary Air Rotary Mud Cable Hollow Stem Auger Cable Mud
 Reverse Rotary Other

(4) CONSTRUCTION Piezometer Well
Depth of Completed Well 65 ft. Special Standard



MONUMENT/VAULT Above Ground
From 1.25 To 4

BORE HOLE
Diameter 6 From 0 To 65

CASING
Dia. 2 From 1.25 To 36
Gauge Sch.40 Wld Thrd
Material Steel Plastic

LINER
Dia. 2 From 46 To 65
Gauge Sch.40 Wld Thrd
Material Steel Plastic

SEAL
From 0 1.37 To 26 1.46
Material Bentonite / cement
Amount 12 S Grout weight
1 5x cement

SCREEN
Casing/Liner Casing Material PVC
Diameter 2 From 36 To 46
Slot Size .02

FILTER
From 26 To 37 Material Sand Size of pack 10/20

(5) WELL TESTS

Pump Bailor Air Flowing Artesian

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)
2		50	1

Temperature 53 °F Lab analysis Yes By

Supervising Geologist/Engineer

Water quality concerns? Yes (describe below)

From	To	Description	Amount	Units

(6) LOCATION OF WELL (legal description)
County COOS Twp 27 S N/S Range 14 W E/W WM
Sec 20 NE 1/4 of the NW 1/4 Tax Lot 100
Tax Map Number Lot
Lat 0 0 ' " or DMS or DD
Long 0 0 ' " or DMS or DD
 Street address of well Nearest address

no#(vacant) off Whiskey Run

(7) STATIC WATER LEVEL

Existing Well / Predeepening	Date	SWL(psi)	+ SWL(ft)
Completed Well	09-15-2006		38.3

Flowing Artesian? Dry Hole?

WATER BEARING ZONES Depth water was first found

SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(ft)
09-15-2006	38.3	46	2		38.3

(8) WELL LOG Ground Elevation 300

Material	From	To
Cemented sand brown	0	1
Sandy clay brown	1	3
Cemented sand brown	3	7
Sandy clay white	7	8
Cemented sand orange & brown	8	11
Sand fine - coarse w/ gravel fine brown	11	14
Cemented sand orange & brown	14	15
Sand fine-coarse w/gravel fine brown	15	24
Cemented sand brown	24	27
Sandy clay tan w/peat & sand coarse-fine	27	31
Gravel fine w/sand coarse-fine gray	31	38
Peat	38	43
Sand fine-coarse w/gravel fine gray brown	43	46
Peat	46	47
Sandy clay white w/gravel fine-medium gray	47	56
Clay gray	56	60
Claystone gray	60	65

Date Started 09-13-2006 Completed 09-15-2006

(unbonded) Monitor Well Constructor Certification
I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon monitoring well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

License Number _____ Date _____
Password : (if filing electronically) _____
Signed _____

(bonded) Monitor Well Constructor Certification
I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon monitoring well construction standards. This report is true to the best of my knowledge and belief.

License Number 1493 Date 9/18/06
Password : (if filing electronically) _____
Signed _____
Contact Info (optional) BANDON WELL & PUMP COMPANY (541) 347-7867

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STATE OF OREGON
WATER WELL REPORT
(as required by ORS 537.765)

MAY 10 1993

WATER RESOURCES DEPT.

(START CARD) # 48138

SALEM, OREGON
Well Number _____

(1) OWNER:
Name Linda Roth
Address P.O. Box 1619
City Bandon State OR Zip 97411

(2) TYPE OF WORK:
 New Well Deepen Recondition Abandon

(3) DRILL METHOD:
 Rotary Air Rotary Mud Cable
 Other _____

(4) PROPOSED USE:
 Domestic Community Industrial Irrigation
 Thermal Injection Other _____

(5) BORE HOLE CONSTRUCTION:
Special Construction approval Yes No Depth of Completed Well 37 ft.
Explosives used Yes No Type _____ Amount _____

HOLE			SEAL			Amount sacks or pounds
Diameter	From	To	Material	From	To	
9	0	20	Cement	20	0	6
7	20	47				

How was seal placed: Method A B C D E
 Other _____

Backfill placed from _____ ft. to _____ ft. Material _____
Gravel placed from 20 ft. to 47 ft. Size of gravel pea gravel

(6) CASING/LINER:

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing: <u>4 1/2</u>	<u>12</u>	<u>27</u>	<u>SM26</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liner:				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Final location of shoe(s) _____

(7) PERFORATIONS/SCREENS:
 Perforations Method _____
 Screens Type Hydrophillic Material plastic

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
<u>27</u>	<u>47</u>	<u>10/10</u>		<u>4 1/2</u>	<u>4 1/2</u>	<input type="checkbox"/>	<input type="checkbox"/>

(8) WELL TESTS: Minimum testing time is 1 hour

Yield gal/min	Drawdown	Drill stem at	Time
<u>15</u>		<u>37</u>	<u>1 hr.</u>

Temperature of Water 52.0 Depth Artesian Flow Found _____
Was a water analysis done? Yes By whom _____
Did any strata contain water not suitable for intended use? Too little
 Salty Muddy Odor Colored Other _____
Depth of strata: _____

(9) LOCATION OF WELL by legal description:
County COOS Latitude _____ Longitude _____
Township 27 N or S Range 14 E or W WM.
Section 17 SW 1/4 NE 1/4
Tax Lot 1500 Lot _____ Block _____ Subdivision _____
Street address of Well (or nearest address) 2303 Tokyo Rd

(10) STATIC WATER LEVEL:
21 ft. below land surface. Date 4/4/93
Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:

Depth at which water was first found 12'

From	To	Estimated Flow Rate	SWL
<u>24</u>	<u>47</u>	<u>15 gpm</u>	<u>21</u>

(12) WELL LOG:
Ground elevation _____

Material	From	To	SWL
<u>Brown sandy clay</u>	<u>0</u>	<u>24</u>	
<u>Brown sand</u>	<u>24</u>	<u>47</u>	

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Date started 4-7-93 Completed 4/9/93
(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.
Signed _____ WWC Number _____ Date _____

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.
Signed [Signature] WWC Number 1361 Date 5/5/93

27-14-20

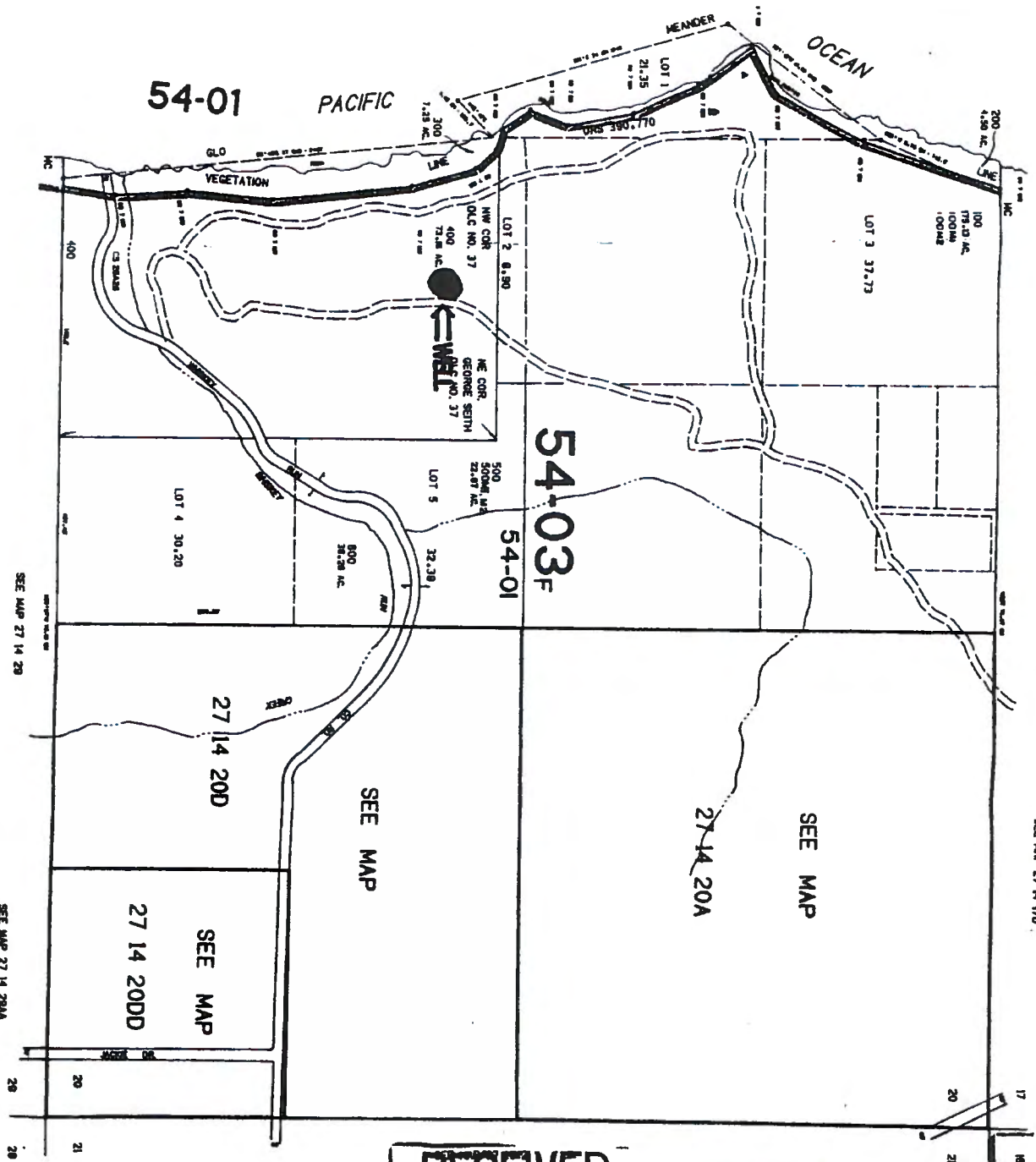
COPY

CONTROL LAYOUT TRACED CHECKED

REDUCED COPY
NOT TO SCALE

CHANGES UPDATED AS OF MAR 16 1995

THIS MAP WAS PREPARED FOR
ASSESSMENT PURPOSE ONLY.



SECTION 20 1/2/S. R14W. WM.
COOS COUNTY
T-400'

SEE MAP 27 14 17C

SEE MAP 27 14 17D

SEE MAP 27 14 29

SEE MAP 27 14 28AA

SEE MAP 27 14 28B

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SALEM, OREGON

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STATE OF OREGON
 GEOTECHNICAL HOLE REPORT
 (as required by OAR 690-240-035)
 WATER RESOURCES DEPT.
 SALEM, OREGON

OCT 11 2002

COOS 52546 07-14-20 NW-SW

(1) OWNER/PROJECT: Hole Number 856
 Name Bally Bandon Sheep Ranch
 Address PO BOX 1756
 City Bandon State OR Zip 97411

(9) LOCATION OF HOLE by legal description:
 County COOS Latitude _____ Longitude _____
 Township 07 N or S Range 14 E or W. W.M.
 Section 20 NW 1/4 SW 1/4
 Tax Lot 400 Lot _____ Block _____ Subdivision _____
 Street Address of Well (or nearest address) Whiskey Run Rd Bandon

(2) TYPE OF WORK
 New Deepening Alteration (repair/recondition) Abandonment

(3) CONSTRUCTION:
 Rotary Air Hand Auger Hollow Stem Auger
 Rotary Mud Cable Tool Push Probe Other

(4) TYPE OF HOLE:
 Uncased Temporary Cased Permanent
 Uncased Permanent Slope Stability Other

(5) USE OF HOLE: Piezometer

(10) STATIC WATER LEVEL:
58'4" ft. below land surface. Date 10/8/02
 Artesian pressure _____ lb. per square inch. Date _____

(11) SUBSURFACE LOG:
 Ground Elevation +/- 300'

(6) BORE HOLE CONSTRUCTION:
 Special Construction approval Yes No Depth of Completed Hole 768'
TOC

HOLE			SEAL			Sacks or pounds
Diameter	From	To	Material	From	To	
6"	0	75	Bentonite	0	40	13

Backfill placed from _____ ft. to _____ ft. Material _____
 Filter Pack placed from 40 ft. to 75 ft. Size of pack 10/20

(7) CASING/SCREEN:

Diameter	From	To	Gauge	Steel				Threaded
				Plastic	Welded			
Casing: 2"	+1	60	54 1/2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Screen: 2"	60	75	54 1/2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

 Slot size 1020

(8) WELL TEST:
 Pump Bailer Air Flowing Artesian
 Permeability _____ Yield _____ GPM 56 GPM
 Conductivity _____ PH _____
 Temperature of water 53° °F/C Depth artesian flow found _____ ft.
 Was water analysis done? Yes No
 By whom? _____
 Depth of strata analyzed. From _____ ft. to _____ ft.
 Remarks: _____

Material Description	From	To	SWL
Sandy Topsoil	0	1	
Cemented Sand Brown	1	2	
Sand brown Fine	2	9	
Sandy tan Clay	9	11	
Cemented sand tan	11	15	
Sandy Clay white	15	16	
Sand Fine tan	16	19	
Sandy Clay orange	19	20	
Sand tan Fine-med	20	29	

Date Started 10/07/02 Date Completed 10/08/02

~~(11)~~ LOG: Cont.
Subsurface SWL

Material Description	From	To	SWL
Sandy Clay white + orange	29	30	
Gravel Fine w/ Sand Brn	30	36	
Sand Fine-med Tan	36	40	
Sand Fine-Crs w/ Fine gravel	40	61	58'4"
Sand Fine-Crs w/ Gravel Med-Fine	61	65	
Gravel Fine-Crs w/ Sand	65	74	
Crs-Fine Gray brn	74	75	
Clay Gray	74	75	

Date started 10/07/02 Date Completed 10/08/02

Professional Certification
 (to be signed by a licensed water supply or monitoring well constructor, or Oregon registered geologist or civil engineer).
 I accept responsibility for the construction, alteration, or abandonment work performed during the construction dates reported above. All work performed during this time is in compliance with Oregon's geotechnical hole construction standards. This report is true to the best of my knowledge and belief.
 License or Registration Number 1493
 Signed Jim McCall Sr M.G.W.C. Date 10/09/02
 Affiliation Bandon Well + Septic Co. Inc.

THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

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STATE OF OREGON WATER SUPPLY WELL REPORT (as required by ORS 537.765)

WATER RESOURCES DEPT. SALEM, OREGON

WELL I.D. # L 51164 START CARD # 123874

Instructions for completing this report are on the last page of this form.

(1) OWNER: Well Number 808

Name Bailey Bandon Sheep Ranch Address PO Box 1756 City Bandon State OR Zip 97411

(2) TYPE OF WORK: [X] New Well [] Deepening [] Alteration (repair/recondition) [] Abandonment

(3) DRILL METHOD: [] Rotary Air [X] Rotary Mud [] Cable [] Auger [] Other

(4) PROPOSED USE: [] Domestic [] Community [] Industrial [X] Irrigation [] Thermal [] Injection [] Livestock [] Other

(5) BORE HOLE CONSTRUCTION: Special Construction approval [] Yes [X] No Depth of Completed Well 89 ft. Explosives used [] Yes [X] No Type Amount

Table with columns: HOLE Diameter, From, To, SEAL Material, From, To, Sacks or pounds. Rows include 14" 0-20 Bentonite, 12 1/4" 20-89, 6" 89-110 Cement.

How was seal placed: Method [] A [] B [X] C [] D [] E [X] Other Bentonite powder from surface cement. Backfill placed from 35 ft. to 89 ft. Material Gravel placed from 35 ft. to 89 ft. Size of gravel 6/9

(6) CASING/LINER: Table with columns: Diameter, From, To, Gauge, Steel, Plastic, Welded, Threaded. Rows for 8" casing and 10" protective casing.

Final location of shoe(s)

(7) PERFORATIONS/SCREENS: Table with columns: From, To, Slot size, Number, Diameter, Tele/pipe size, Casing, Liner. Includes Johnson wire material 55.

(8) WELL TESTS: Minimum testing time is 1 hour

Table for well tests with columns: Yield gal/min, Drawdown, Drill stem at, Time. Values: 73, 9', 89, 1 hr; 100', 14', 89, 2 hrs.

Temperature of water 52° Depth Artesian Flow Found Was a water analysis done? [X] Yes By whom BWS Did any strata contain water not suitable for intended use? [] Too little [] Salty [] Muddy [] Odor [] Colored [] Other

Depth of strata: Bandon Well & Septic Co., Inc.

(9) LOCATION OF WELL by legal description: County COOS Latitude Longitude Township 27 N or S Range 14 E or W W.M. Section 20 NW 14 SW 1/4 Tax Lot 400 Lot Block Subdivision Street Address of Well (or nearest address) Whiskey Run Rd. Bandon

(10) STATIC WATER LEVEL: 56' ft. below land surface. Date 12/20/01 Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES: Depth at which water was first found 56'

Table with columns: From, To, Estimated Flow Rate, SWL. Row: 56, 83, 100, 56. Note: Specific cap 8.1 gal/ft of DP

(12) WELL LOG: Ground Elevation +/- 100'

Table for well log with columns: Material, From, To, SWL. Rows include Topsoil, Sandy Clay brown, Sand Fine brown, etc.

Date started 11/21/01 Completed 12/20/01 (unbonded) Water Well Constructor Certification:

I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief. Signed Chris Keating WWC Number 1759 Date 1/4/02

(bonded) Water Well Constructor Certification: I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief. Signed Jim Mackle M.G.W.C. WWC Number 1493 Date 1/7/02

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**STATE OF OREGON
GEOTECHNICAL HOLE REPORT**
(as required by OAR 690-240-035)

Coos
52220

(Pg 1)

(1) OWNER/PROJECT: Hole Number 810
Name Bally Brandon Sheep Ranch
Address PO Box 1756
City Brandon State OR Zip 97411

(2) TYPE OF WORK
 New Deepening Alteration (repair/recondition) Abandonment

(3) CONSTRUCTION:
 Rotary Air Hand Auger Hollow Stem Auger
 Rotary Mud Cable Tool Push Probe Other

(4) TYPE OF HOLE:
 Uncased Temporary Cased Permanent
 Uncased Permanent Slope Stability Other

(5) USE OF HOLE: Formation Samples

(6) BORE HOLE CONSTRUCTION:
Special Construction approval Yes No Depth of Completed Hole 78' ft.

HOLE			SEAL			Sacks or pounds
Diameter	From	To	Material	From	To	
6"	0	78	Cement	0	78	25x
			Portemite	0	35	18.5x

Backfill placed from _____ ft. to _____ ft. Material _____
Filter Pack placed from _____ ft. to _____ ft. Size of pack _____

(7) CASING/SCREEN:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	2"	+1	35	5/8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Screen:					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Slot size _____

(8) WELL TEST:
 Pump Bailer Air Flowing Artesian
Permeability _____ Yield _____ GPM _____
Conductivity _____ PH _____
Temperature of water _____ °F/C Depth artesian flow found _____ ft.
Was water analysis done? Yes No
By whom? _____
Depth of strata analyzed. From _____ ft. to _____ ft.
Remarks: _____

(9) LOCATION OF HOLE by legal description:
County Coos Latitude _____ Longitude _____
Township 27 N or S Range 14 E or W. W.M.
Section 20 1/4 NW 1/4
Tax Lot 100 Lot _____ Block _____ subdivision _____
Street Address of Well (or nearest address) Whiskey Run Rd, Brandon

Map with location identified must be attached

(10) STATIC WATER LEVEL:
30.5" ft. below land surface. Date 12/21/01
Artesian pressure _____ lb. per square inch. Date _____

(11) SUBSURFACE LOG:
Ground Elevation +1-100'

Material Description	From	To	SWL
Topsoil	0	1	
Sand Fine brown	1	3	
Sand Fine tan	3	12	
Clay brown	12	14	
Sandy Clay Tan	14	15	
Sand Fine Tan	15	18	
Sandy Clay white	18	20	
Sand Fine Tan	20	30	

Continued on Page #2
Date Started 11/29/01 Date Completed 12/21/01

(12) ABANDONMENT LOG:

Material Description	From	To	Sacks or Pounds
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WATER RESOURCES DEPT. SALEM, OREGON			

Date started _____ Date Completed _____

Professional Certification

(to be signed by a licensed water supply or monitoring well constructor, or Oregon registered geologist or civil engineer).

I accept responsibility for the construction, alteration, or abandonment work performed during the construction dates reported above. All work performed during this time is in compliance with Oregon's geotechnical hole construction standards. This report is true to the best of my knowledge and belief.

License or Registration Number 1493
Signed James Mack Sr M.C.W.C. Date 1/7/02
Affiliation Brandon Well & Septic Co. Inc

THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

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STATE OF OREGON
GEOTECHNICAL HOLE REPORT
 (as required by OAR 690-240-035)

(Pg 2)

COOS
 52220

(1) OWNER/PROJECT: Hole Number 810
 Name Bally Bandon Sheep Ranch
 Address PO Box 1756
 City Bandon State OR Zip 97411

(2) TYPE OF WORK
 New Deepening Alteration (repair/recondition) Abandonment

(3) CONSTRUCTION:
 Rotary Air Hand Auger Hollow Stem Auger
 Rotary Mud Cable Tool Push Probe Other

(4) TYPE OF HOLE:
 Uncased Temporary Cased Permanent
 Uncased Permanent Slope Stability Other

(5) USE OF HOLE:

(6) BORE HOLE CONSTRUCTION:
 Special Construction approval Yes No Depth of Completed Hole _____ ft.

HOLE			SEAL			Sacks or pounds
Diameter	From	To	Material	From	To	

Backfill placed from _____ ft. to _____ ft. Material _____
 Filter Pack placed from _____ ft. to _____ ft. Size of pack _____

(7) CASING/SCREEN:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Screen:					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Slot size _____

(8) WELL TEST:
 Pump Bailor Air Flowing Artesian
 Permeability _____ Yield _____ GPM _____
 Conductivity _____ PH _____
 Temperature of water _____ °F/C Depth artesian flow found _____ ft.
 Was water analysis done? Yes No
 By whom? _____
 Depth of strata analyzed. From _____ ft. to _____ ft.
 Remarks: _____

(9) LOCATION OF HOLE by legal description:
 County Coos Latitude _____ Longitude _____
 Township d7 N or S Range 14 E or W WM
 Section 20 QU 1/4 QU 1/4
 Tax Lot 100 Lot _____ Block _____ Subdivision _____
 Street Address of Well (or nearest address) Whiskey Run Rd.
Bandon

Map with location identified must be attached

(10) STATIC WATER LEVEL:
 _____ ft. below land surface. Date _____
 Artesian pressure _____ lb. per square inch. Date _____

(11) SUBSURFACE LOG:
 Ground Elevation _____

Material Description	From	To	SWL
<u>Sand Fine-med Tan</u>	<u>30</u>	<u>37</u>	
<u>Sand Clay brn w/sand Fine</u>	<u>37</u>	<u>45</u>	
<u>Peat Brown</u>	<u>45</u>	<u>46</u>	
<u>Wood w/sand Fine brown</u>	<u>46</u>	<u>48</u>	
<u>Sand Fine-med tan</u>	<u>48</u>	<u>53</u>	
<u>Gravel med-ers Brn Red w/sand</u>	<u>53</u>	<u>60</u>	
<u>Sand Fine w/Gravel Fine-ers Gray</u>	<u>60</u>	<u>65</u>	
<u>Sandy Clay Gray</u>	<u>65</u>	<u>66</u>	
<u>Claystone Gray</u>	<u>66</u>	<u>78</u>	

Date Started 11/29/01 Date Completed 12/21/01

(12) ABANDONMENT LOG:

Material Description	From	To	Sacks or Pounds

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 WATER RESOURCES DEPT.
 SALEM, OREGON

Date started _____ Date Completed _____

Professional Certification
 (to be signed by a licensed water supply or monitoring well constructor, or Oregon registered geologist or civil engineer).

I accept responsibility for the construction, alteration, or abandonment work performed during the construction dates reported above. All work performed during this time is in compliance with Oregon's geotechnical hole construction standards. This report is true to the best of my knowledge and belief.

License or Registration Number 1493
 Signed Jim Meehan MGCW Date 1/7/02
 Affiliation Bandon Well + Septic Co. Inc.

THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

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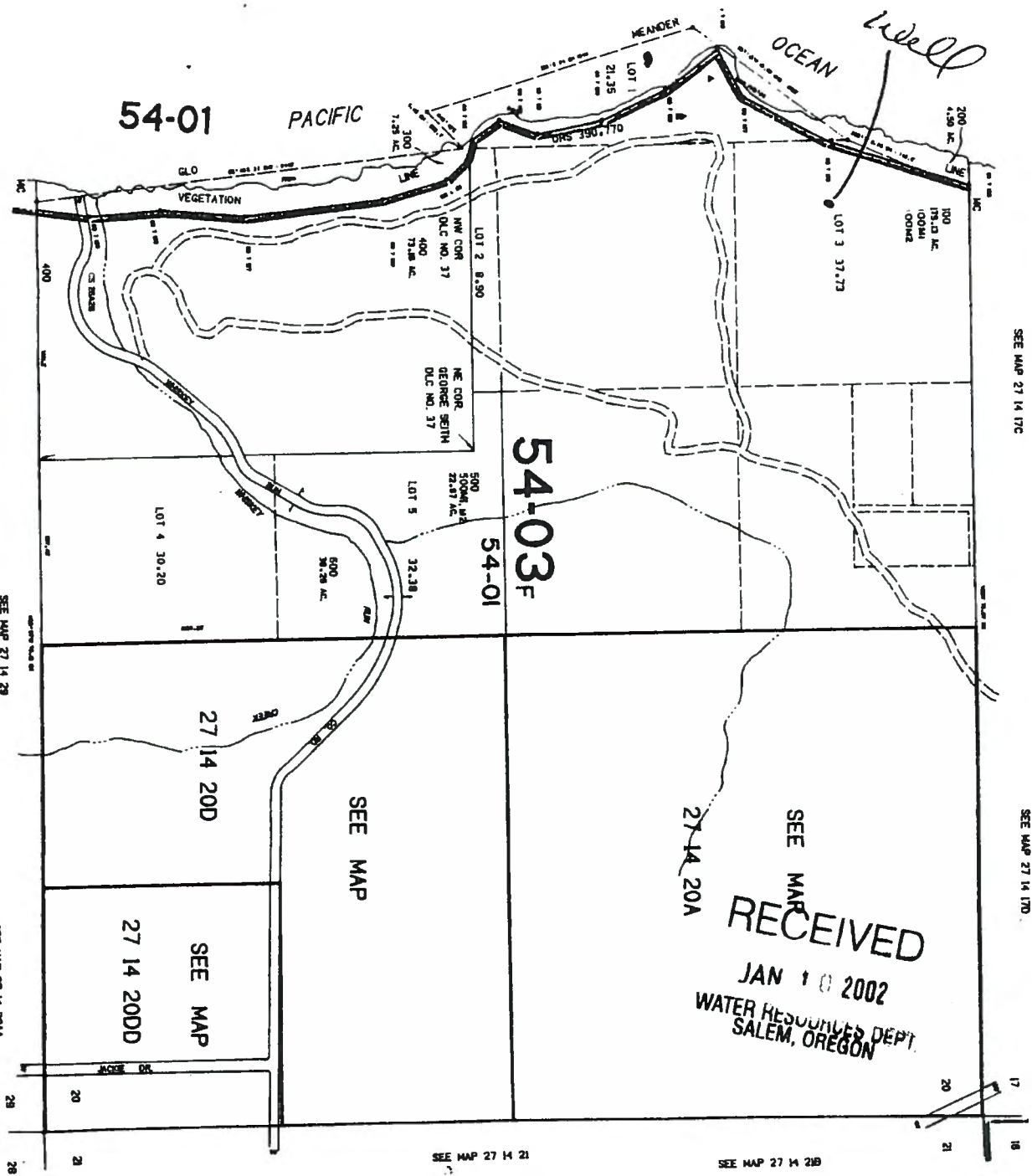


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NOT TO SCALE

CHANGES UPDATED AS OF MAR 16 1995

CONTROL _____ LAYOUT _____ TRACED _____ CHECKED _____

THIS MAP WAS PREPARED FOR
ASSESSMENT PURPOSE ONLY.



SECTION 20 1.2/S. R14W. W.M.
COOS COUNTY
T-400'

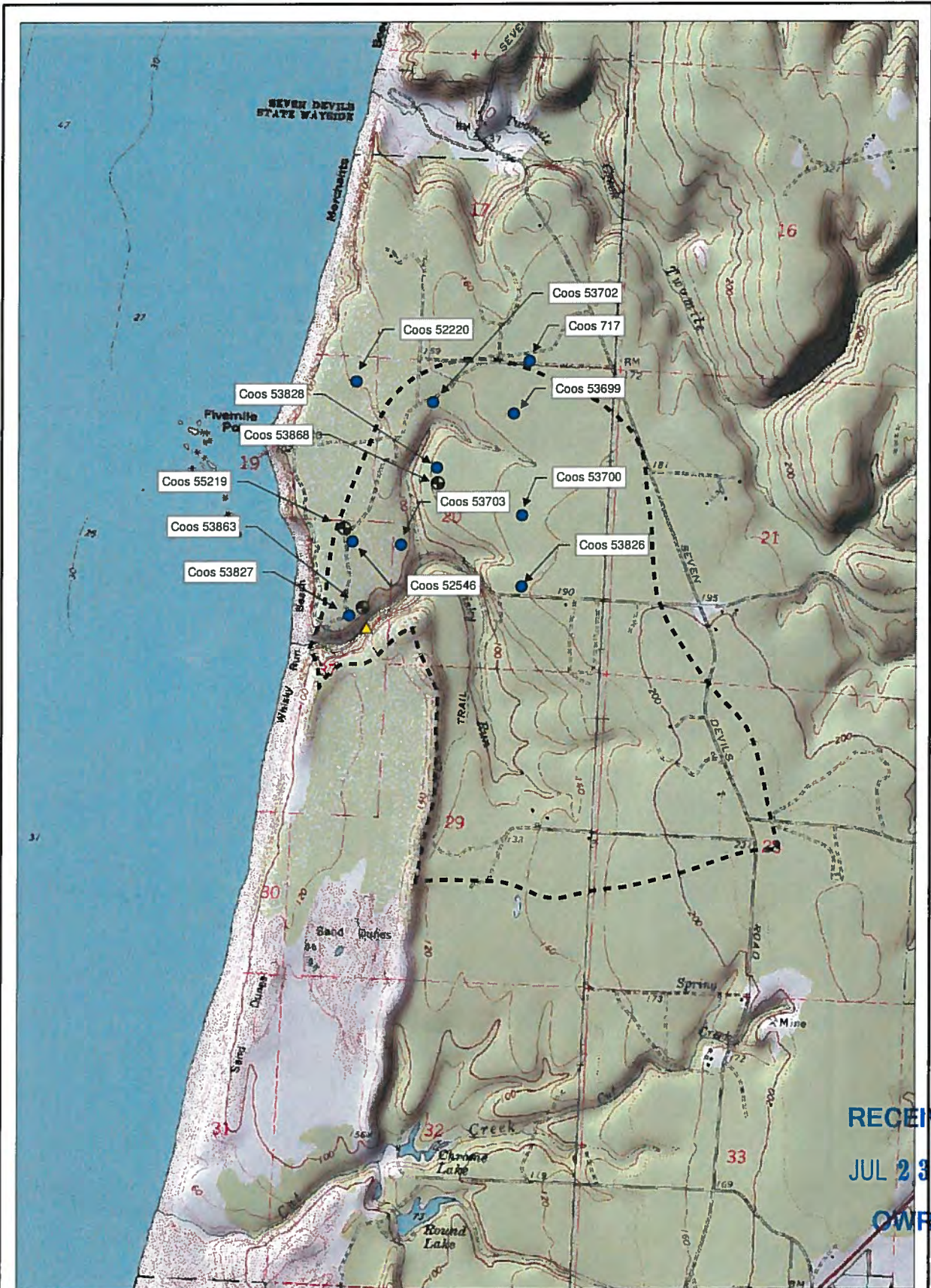
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LEGEND

- Watershed Boundary
- Stream Gaging Station
- Private/Domestic Well or Piezometer
- Irrigation Well

(See Appendix A for well logs)



Scale 1" = 1500 Feet
 Map Projection:
 Oregon State Plane, NAD 83,
 South Zone, Feet
 Source: Regional Ecosystem
 Organization

Site Map With Measurement Locations BALLY BSR/GROUNDWATER SERVICES/OR			
Drawn: SJG	Revision: 5	Dec. 03, 2007	Figure: 1

**ATTACHMENT D
WELL INFORMATION SUMMARY (EXCERPTED FROM THE 2012 EXTENSION APPLICATION)**

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**TABLE E-1
IRRIGATION AND OBSERVATION WELL INFORMATION**

Owner's Well Name	Well Log ID	Well Label	POD ID in Permit G-15437	Well Type	Depth Drilled (feet bgs)	Depth of Completed Well (feet bgs)	Open or Screened Interval (feet bgs)	TRS Location
Irrigation Well	Coos 52219	L51164	Well #1A	Production Well	110	83	66-81	T27S/R14W-20 NW/SW
Northern Piezometer	Coos 52220	-	-	Monitoring Well	78	35	34.5-35	T27S/R14W-20 NW/NW
Irrigation Well Piezometer	Coos 52546	-	-	Monitoring Well	75	75	60-75	T27S/R14W-20 NW/SW
Tokyo Lane Well	Coos 717	-	-	Domestic Well (Monitored)	47	47	27-47	T27S/R14W-17 SW/NE
Piezometer P-1	Coos 53702	L80268	-	Monitoring Well	65	65	36-46	T27S/R14W-20 NE/NW
Piezometer P-2	Coos 53699	L80259	-	Monitoring Well	55	55	40-45	T27S/R14W-20 NE/NW
Piezometer P-3	Coos 53700	L80266	-	Monitoring Well	65	53	43-53	T27S/R14W-20 SE/NW
Piezometer P-4	Coos 53703	L80265	-	Monitoring Well	73	72.6	54-64	T27S/R14W-20 NW/SW
Piezometer P-5	Coos 53827	L81703	-	Monitoring Well	75	75	65-75	T27S/R14W-20 SW/SW
Piezometer P-6	Coos 53828	L81702	-	Monitoring Well	71	62.58	52.58-62.58	T27S/R14W-20 SE/NW
Piezometer P-7	Coos 53826	L81704	-	Monitoring Well	55	49.66	39.66-49.66	T27S/R14W-20 NW/SE
Irrigation Well 5	Coos 53863	L81722	-	Monitoring Well	76	75	62.5-72.5	T27S/R14W-20 SW/SW
Irrigation Well 6	Coos 53868	L81718	Well #2B	Production Well	70	65	52.5-62.6	T27S/R14W-20 SE/NW

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**Oregon Water Resources Department
Water Right Services Division**

Water Rights Application
Number G-15697

**Final Order
Extension of Time for Permit Number G-15437
Permit Holder: Phil Friedmann, on behalf of Bally Bandon Sheep Ranch**

Permit Information

Application File G-15697 Permit G-15437

Basin: 17 – South Coast / Watermaster District 19

Date of Priority: February 4, 2002

Authorized Use of Water

Source of Water: Six wells in Whiskey Run Creek Basin

Purpose of Use: Irrigation of 95.0 Acres

Maximum Rate: 0.45 Cubic Feet per Second (cfs)

**This Extension of Time request is being processed in accordance with
Oregon Revised Statute 537.630 and 539.010(5), and Oregon Administrative
Rule Chapter 690, Division 315**

Application History

Permit G-15437 was issued by the Department on May 16, 2003. The permit called for complete application of water to beneficial use by October 1, 2007. On April 30, 2012, Phil Friedmann, on behalf of Bally Bandon Sheep Ranch submitted to the Department an Application for Extension of Time for Permit G-15437. In accordance with OAR 690-315-0050(2), on May 13, 2013, the Department issued a Proposed Final Order proposing to extend the time to fully apply water to beneficial use to October 1, 2017. The protest period closed June 28, 2013, in accordance with OAR 690-315-0060(1). No protest was filed.

Appeal Rights

This is a final order in other than a contested case. This order is subject to judicial review under ORS 183.484. A request for judicial review must be filed within the 60 day time period specified by ORS 183.484(2). Pursuant to ORS 536.075 and OAR 137-004-0080 you may either file for judicial review, or petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the Director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied.

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Findings of Fact

The Department adopts and incorporates by reference the findings of fact in the Proposed Final Order dated May 14, 2013.

At time of issuance of the Proposed Final Order the Department concluded that, based on the factors demonstrated by the applicant, the permit may be extended subject to no additional conditions.

CONCLUSION OF LAW

The applicant has demonstrated good cause for the permit extension pursuant to ORS 537.630, 539.010(5) and OAR 690-315-0040(2).

Order

The extension of time for Application G-15697, Permit G-15437, therefore, is approved. The deadline for complete construction of the works and to apply water to full beneficial use within the terms and conditions of the permit is extended from October 1, 2012 to October 1, 2017.

DATED: July 19, 2013

Dwight W. French, Administrator,
Water Right Services Division,
for PHILLIP C. WARD, DIRECTOR

-
- If you have any questions about statements contained in this document, please contact Michele McAleer at (503) 986-0825.
 - If you have other questions about the Department or any of its programs, please contact our Water Resources Customer Service Group at (503) 986-0900
-

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STATE OF OREGON

COUNTY OF COOS

PERMIT TO APPROPRIATE THE PUBLIC WATERS

THIS PERMIT IS HEREBY ISSUED TO

PHIL FRIEDMANN for BALLY BANDON SHEEP RANCH
PO BOX 1756.
BANDON, OREGON 97411

(541) 530-6839

The specific limits and conditions of the use are listed below.

APPLICATION FILE NUMBER: G-15697

SOURCE OF WATER: SIX WELLS IN WHISKY RUN CREEK BASIN

PURPOSE OR USE: IRRIGATION OF 95.0 ACRES

MAXIMUM RATE: 0.45 CUBIC FOOT PER SECOND

PERIOD OF USE: MARCH 1 THROUGH OCTOBER 31

DATE OF PRIORITY: FEBRUARY 4, 2002

WELL LOCATIONS:

WELL #1A NW $\frac{1}{4}$ SW $\frac{1}{4}$, SECTION 20, T27S, R14W, W.M.; 2450 FEET
NORTH & 350 FEET EAST FROM SW CORNER, SECTION 20

WELL #2A NW $\frac{1}{4}$ NW $\frac{1}{4}$, SECTION 20, T27S, R14W, W.M.; 4600 FEET
NORTH & 550 FEET EAST FROM SW CORNER, SECTION 20

WELL #1B NW $\frac{1}{4}$ SW $\frac{1}{4}$, SECTION 20, T27S, R14W, W.M.; 1,350 FEET
NORTH & 325 FEET EAST FROM SW CORNER, SECTION 20

WELL #2B SE $\frac{1}{4}$ NW $\frac{1}{4}$, SECTION 20, T27S, R14W, W.M.; 1950 FEET
SOUTH & 2250 FEET EAST FROM NW CORNER, SECTION 20

WELL #3B NE $\frac{1}{4}$ NW $\frac{1}{4}$, SECTION 20, T27S, R14W, W.M.; 750 FEET SOUTH
& 1650 FEET EAST FROM NW CORNER, SECTION 20

WELL #4B NW $\frac{1}{4}$ NE $\frac{1}{4}$, SECTION 20, T27S, R14W, W.M.; 750 FEET SOUTH
& 1800 FEET WEST FROM NE CORNER, SECTION 20

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The amount of water used for irrigation under this right, together with the amount secured under any other right existing for the same lands, is limited to a diversion of ONE-EIGHTIETH of one cubic foot per second (or its equivalent) and 2.5 acre-feet for each acre irrigated during the irrigation season of each year.

THE PLACE OF USE IS LOCATED AS FOLLOWS:

SE $\frac{1}{4}$ NE $\frac{1}{4}$ 2.2 ACRES

SECTION 19

NW $\frac{1}{4}$ NE $\frac{1}{4}$ 4.9 ACRES

NE $\frac{1}{4}$ NW $\frac{1}{4}$ 16.3 ACRES

NW $\frac{1}{4}$ NW $\frac{1}{4}$ 13.7 ACRES

SW $\frac{1}{4}$ NW $\frac{1}{4}$ 21.8 ACRES

SE $\frac{1}{4}$ NW $\frac{1}{4}$ 3.7 ACRES

NE $\frac{1}{4}$ SW $\frac{1}{4}$ 4.4 ACRES

NW $\frac{1}{4}$ SW $\frac{1}{4}$ 19.6 ACRES

SW $\frac{1}{4}$ SW $\frac{1}{4}$ 8.3 ACRES

SE $\frac{1}{4}$ SW $\frac{1}{4}$ 0.1 ACRES

SECTION 20

TOWNSHIP 27 SOUTH, RANGE 14 WEST, W.M.

Measurement, recording and reporting conditions:

- A. Before water use may begin under this permit, the permittee shall install a meter or other suitable measuring device as approved by the Director. The permittee shall maintain the meter or measuring device in good working order, shall keep a complete record of the amount of water used each month and shall submit a report which includes the recorded water use measurements to the Department annually or more frequently as may be required by the Director. Further, the Director may require the permittee to report general water use information, including the place and nature of use of water under the permit.
- B. The permittee shall allow the watermaster access to the meter or measuring device; provided however, where the meter or measuring device is located within a private structure, the watermaster shall request access upon reasonable notice.

Applicant is to pay for the installation and operation of a continuous record gaging station at a suitable location near the mouth of Whiskey Run Creek. The gaging station is to be run for no less than five

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years, and the data collected to the USGS standard. The record from this gaging station will be used to define the 80-percent exceedance natural streamflow for Whiskey Run Creek. If it is determined at the end of five years that streamflow is insufficient to meet the demands of the instream water right and the proposed use, the gaging station will be continued in operation at the applicant's expense for the purpose of regulating the use of water in Whiskey Run Creek according to the prior appropriation doctrine. If it is determined at the end of five years that streamflow is sufficient to meet the demands of the instream water right and the proposed use, the gaging station will be discontinued.

Prior to use of water under this permit, the permittee shall obtain OWRD approval for a plan to monitor and report the impacts of this use on water levels within the aquifer utilized under this permit. The plan shall include locating two or more dedicated observation wells between the permitted wells and offsite wells to address water level impacts on senior ground water users.

STANDARD CONDITIONS

If substantial interference with a senior water right occurs due to withdrawal of water from any well listed on this permit, then use of water from the well(s) shall be discontinued or reduced and/or the schedule of withdrawal shall be regulated until or unless the Department approves or implements an alternative administrative action to mitigate the interference. The Department encourages junior and senior appropriators to jointly develop plans to mitigate interferences.

The wells shall be constructed in accordance with the General Standards for the Construction and Maintenance of Water Wells in Oregon. The works shall be equipped with a usable access port, and may also include an air line and pressure gauge adequate to determine water level elevation in the well at all times.

The use shall conform to such reasonable rotation system as may be ordered by the proper state officer.

Prior to receiving a certificate of water right, the permit holder shall submit the results of a pump test meeting the department's standards, to the Water Resources Department. The Director may require water level or pump test results every ten years thereafter.

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Failure to comply with any of the provisions of this permit may result in action including, but not limited to, restrictions on the use, civil penalties, or cancellation of the permit.

This permit is for the beneficial use of water without waste. The water user is advised that new regulations may require the use of best practical technologies or conservation practices to achieve this end.

By law, the land use associated with this water use must be in compliance with statewide land-use goals and any local acknowledged land-use plan.


The use of water shall be limited when it interferes with any prior surface or ground water rights.

The Director finds that the proposed use(s) of water described by this permit, as conditioned, will not impair or be detrimental to the public interest.

Complete application of the water to the use shall be made on or before October 1, 2007. If the water is not completely applied before this date, and the permittee wishes to continue development under the permit, the permittee must submit an application for extension of time, which may be approved based upon the merit of the application.

Within one year after complete application of water to the proposed use, the permittee shall submit a claim of beneficial use, which includes a map and report, prepared by a Certified Water Rights Examiner (CWRE).

Issued May 16, 2003


Paul R. Cleary, Director
Water Resources Department

REAL ESTATE TRANSACTIONS: Pursuant to ORS 537.330, in any transaction for the conveyance of real estate that includes any portion of the lands described in this permit, the seller of the real estate shall, upon accepting an offer to purchase that real estate, also inform the

Application G-15697 Water Resources Department
Basin 17 Volume 3 BASIN 17 MISC
AMH

PERMIT G-15437

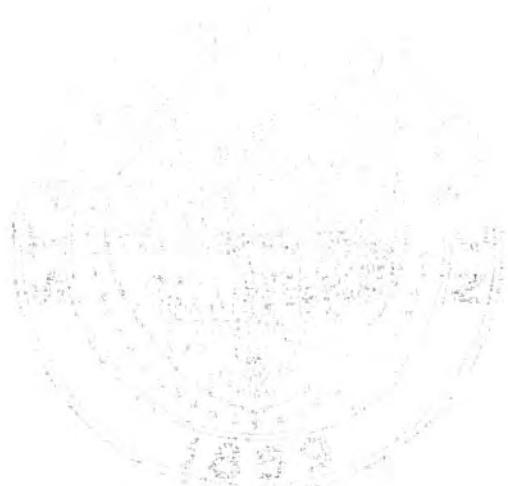
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purchaser in writing whether any permit, transfer approval order, or certificate evidencing the water right is available and that the seller will deliver any permit, transfer approval order or certificate to the purchaser at closing, if the permit, transfer approval order or certificate is available.

CULTURAL RESOURCES PROTECTION LAWS: Permittees involved in ground-disturbing activities should be aware of federal and state cultural resources protection laws. ORS 358.920 prohibits the excavation, injury, destruction or alteration of an archeological site or object, or removal of archeological objects from public and private lands without an archeological permit issued by the State Historic Preservation Office. 16 USC 470, Section 106, National Historic Preservation Act of 1966 requires a federal agency, prior to any undertaking to take into account the effect of the undertaking that is included on or eligible for inclusion in the National Register. For further information, contact the State Historic Preservation Office at 503-378-4168, extension 232.



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Basin 17
AMH

Water Resources Department
Volume 3 BASIN 17 MISC

PERMIT G-15437

DATE	WORK ACCOMPLISHED AFTER THE LAST EXTENSION PERIOD EXPIRED		COST*
	List all work done after the last authorized date for complete application of water up to the date of this Application for Extension of Time.		
Jan-2018	Continued voluntary monitoring of flow in adjacent Whiskey Run Creek.		\$50,000
2018	Drilled and installed 4 new wells to evaluate groundwater resources at select locations.		\$125,000
2017-2018	Additional design and planning work as described in Section 18, including an irrigation plan and stormwater plan for the property.		\$300,000
Total Cost of Chart-C			\$495,000

* If exact cost is not known, you must provide your best estimate. [OAR 690-315-0020(3)(f)]

5. Cost of project to date: **\$1,080,000**

(The total combined cost from CHART-B and CHART-C) [OAR 690-315-0020(f)]

[OAR 690-315-0020(3)(e)(B)]

Provide evidence of the maximum rate (or duty, if applicable) of water diverted for beneficial use under this permit and/or prior extensions of time (if any) made to date.

TIP: Report the rate used to date. Unless full beneficial use has been made, this rate will be less than the rate authorized on the permit.

6. For Surface Water Permit Extensions (e.g. S-XXXX or R-XXXX):

N/A

TIP: Report the rate in the same units of measurement as specified in the permit.

Maximum rate used to date = _____ cfs (cubic feet per second) or,

Maximum rate used to date = _____ gpm (gallons per minute) or,

Acre-feet stored to date = _____ AF

7. For Ground Water Permit Extensions (e.g. G-15437):

TIP: Include information from ALL wells that pertain to this permit, including drilled wells not currently used.

CHART-D

Well # as identified on Permit	Water User's Well #	Has this well been drilled?	IF DRILLED					
			Well Log Number e.g. MORR 50473	Well Tag Number e.g. # 27566 or N/A	Is the actual drilled location authorized on this permit or on a permit amendment?	Maximum instantaneous rate used to date from this well - - under <u>this permit</u> only (CFS or GPM)	Is this well authorized or utilized under any OTHER water rights?	If yes, provide the Permit, Certificate, or Transfer No.
1A	Irrigation Well	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	COOS 52219	L51164	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	125 gpm (est)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	-
2A		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			Yes <input type="checkbox"/> No <input type="checkbox"/>		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	-
1B		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			Yes <input type="checkbox"/> No <input type="checkbox"/>		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	-

2B	Irrigation Well 6	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	COOS 53868	L81718	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	n/a (no pump yet installed)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	-
3B		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			Yes <input type="checkbox"/> No <input type="checkbox"/>		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	-
4B		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			Yes <input type="checkbox"/> No <input type="checkbox"/>		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	-
Total instantaneous rate from all wells utilized under this permit (to date)						125 gpm (0.28 cfs)		

[Note: A summary of well and borehole information compiled under this permit is presented in Attachment D. This information was excerpted from the 2012 extension application. Well reports from the June 2018 drilling program have not yet been submitted to OWRD, but will be submitted as an application addendum at a later date.]

8. Has a Permit Amendment Application been filed? Yes No
If yes, identify Transfer No. T-_____

Has the Permit Amendment been approved? Yes No
If yes, on what date was the Permit Amendment approved? _____

[OAR 690-315-0020(3)(e)(C)]

9. **For Irrigation and Nursery Use Permits Extensions**

Provide the total number of acres irrigated to date under this permit.

a) Total acres irrigated to date: up to 22.4 acres (Golf course - tee boxes and greens expanding to portions of fairways). Total acreage increased slightly between 2003 and 2017.

b) List by year, the number of acres irrigated each year since permit issuance.

Year	Acres	Year	Acres	Year	Acres
2003	<15	2004	15	2005	15
2006	15	2007	15	2008	15
2009	15	2010	15	2011	15
2012	15	2013	18	2014	18
2015	18	2016	22.4	2017	22.4

c) Provide a copy of the application map identifying the acres irrigated.

The attached map depicts the original layout of the golf course and intended irrigation areas, which include the tee boxes, fairways, and greens, totaling 95 acres. To date irrigation has been limited to the tee boxes, greens and small portions of fairways (totaling approximately 22.4 acres), and 13 of the 18 planned holes have been constructed.

d) Please specify the number of acres irrigated by each Point of Diversion/Point of Appropriation (POD/POA).

(POD/POA)# 1A Acres Up to 22.4 (POD/POA) # _____ Acres _____

(POD/POA) # _____ Acres _____ (POD/POA) # _____ Acres _____

[OAR 690-315-0020(3)(i)(j)]

10. In the chart below provide a summary of your future plans and schedule to complete the construction of the water system, and/or apply water to full beneficial use under the terms and conditions of the permit.

CHART-E

APPROXIMATE DATE RANGE (projected)	WORK OR ACTION TO BE ACCOMPLISHED (projected)	ESTIMATED COST (projected)
2018-2019	Install the designed underground and above-ground irrigation system components.	\$2,000,000
2019	Install pump systems in the additional irrigation wells.	\$50,000
2019	Install a pumping station at irrigation pond #1.	\$50,000
2018-2019	Construct irrigation pond #2 and modify pond #1	\$125,000
2018 - 2022	Complete design and construction of the golf course to the full permitted acreage and apply water as required by the permit.	TBD
Year: 10/1/2022	Date intend to apply water to full beneficial use under the terms and conditions of this permit.	
	Total Cost	<u>\$2,225,000</u>

[OAR 690-315-0020(3)(g)]

11. Estimated remaining cost to complete the project: \$2,225,000
(The total cost from CHART-E)

[OAR 690-315-0020(3)(j)]

12. Provide a summary of your plan to complete construction, meeting all permit conditions and apply the water to beneficial use: (List all tasks or steps needed to complete the project, the date when each task will be completed, and the cost associated with each task; attach additional pages if necessary.)

Information on anticipated tasks, costs, and potential schedule are presented in Chart-E. As this work progresses, BBSR will continue to meet the required standard and special conditions of the permit.

[OAR 690-315-0020(3)(k)]

13. **Justify the time requested** to complete the project and/or apply the water to full beneficial use. (Include any other information or evidence to establish that the requested amount of time is sufficient and that you will be able to complete the project within the amount of time requested.)

Full development of the property has been limited by the lack of additional reliable sources of irrigation water needed to complete the golf course property. The one active well does not have sufficient capacity to provide a long-term source of water by itself.

Additional irrigation supply wells will be needed to reach the permitted capacity. The property owner/applicant has conducted additional exploration drilling activities to support this need. Development planning has increased dramatically in the last 24 months as the owner prepares to fully build out the course design, including the water delivery infrastructure.

[OAR 690-315--0020(3)(l)]

14a. Will a denial of the extension result in undue hardship? (Describe the hardship and the effects.)

Yes. A denial of the extension will prevent further development of the property which will severely affect the long-term value of the property. The expansion of the golf course to a full length course is still dependent upon developing sufficient water resources to reach the permitted capacity and the installation of an irrigation water distribution system. The current method of irrigation is not sustainable over the long term and will not allow the owner to fully develop the property.

14b. Are there any other reasonable alternatives that exist for meeting your water use needs? (Explain in detail)

At present, there are no other sources of water available within the Whiskey Run Creek watershed due to the OWRD water availability model. Importation from other sources within the basing has also been explored, but no viable sources are known to be present on adjacent and nearby properties.

[OAR 690-315-0020(3)(h)]

15. Was the delay in the timely completion of this water development project and/or timely application of water to full beneficial use caused by any additional government requirements, other than the conditions contained within the permit, which significantly delayed the completion and perfection of this right? (Explain in detail, including how much time did this delay the project; list dates.)

No

[OAR 690-315-0020(3)(h)]

16. Describe any unforeseen events which contributed to the delay of completion of this project that you had no control over. (Explain in detail what the unforeseen events were and how much time was spent addressing the unforeseen events.)

Recent economic downturns, particularly in 2007, have had a significant impact on the golf industry. This includes the further development of the Bally Bandon Sheep Ranch property. Recreational industries normally take longer to recover than other economic institutions that provide necessary or tangible services.

[OAR 690-315-0020(3)(h)]

17. Describe any additional reasons why the construction was not completed, and/or water was not beneficially used within permit time limits. (Provide supporting information for the reason(s) that best fits your circumstances.)

As noted above, and in Section 18 below, economic downturns in the past 10 years have had a substantial negative impact on the golf industry, resulting in cessations in the development of the Bally Bandon Sheep Ranch golf course in general, and the property irrigation water supply system in particular. Further exploration of the groundwater resources necessary to reach the permitted capacity was similarly delayed. Without the water capacity to fully develop the course, construction was further delayed. With the recent uptick in U.S. economic activity and increase in the demand for golfing facilities, the development of the Sheep Ranch course has become an economically viable option.

[OAR 690-315-0020(3)(m)(n)]

18. Provide any other information you wish OWRD to consider while evaluating your Application for Extension of Time.

Land use approval to construct the Bally Bandon Sheep Ranch Golf Course was approved in November of 2000. Shortly thereafter, an intensive gorse removal process began together with grubbing and initial shaping. Wells were drilled in 2001 and 2002, and water permits were granted by the OWRD in May of 2003. Shaping and development of tees, greens and fairways commences through 2003 and 2004. Due to limited water availability, development was only completed on the western two thirds of approved area with partial irrigation.

In 2005-2006, play was initiated for the purpose of experimenting with various hole routings along the oceanfront bluff. In 2006 and 2007 an additional nine (9) wells were drilled with the intent of procuring enough water to complete the golf course, however the resulting wells did not produce sufficient water to proceed.

In 2007, the U.S. recession severely impacted the golf industry and there was no demand for additional golf courses. While further expansion of the golf course ceased, the maintenance and irrigation continued around existing greens, tee areas and fairway approaches. Limited play has continued on the westerly segment to date.

Following the economic recovery (2013-2014), Southwestern Oregon golf courses (e.g. Bandon Dunes) resumed pre-recession usage which generated regional demand for additional golf. The following actions have been implemented by the owner/applicant over the past 24 months in a dedicated effort to complete the golf course and finalize their beneficial use of water:

- Received confirmation from the Coos County Planning Department that the golf course has been implemented pursuant their 2000 approval and that continued work is allowed within the area identified under the permit.

- Completion of a golf course design prepared by international golf course designers Bill Coore and Ben Crenshaw.
- Completed a DEQ 1200-C Erosion Control Plan for the project.
- Completed a golf course storm water drainage plan.
- Completed a golf course irrigation plan.
- Drilled additional wells at the site for the purpose of attaining sufficient water for irrigation
- Continued water flow monitoring on Whiskey Run Creek.
- Expanded land clearing and gorse removal on the site.

The cost to date for actions implemented over the past 24 months is estimated in excess of \$300,000 for engineering, consultants, designers, and contractors.

The Bally Bandon Sheep Ranch property is located on the westernmost edge of the terrace overlooking Whiskey Run Beach and the Pacific Ocean. It is hydrologically downgradient from other groundwater users and the irrigation well used on the property is over a mile from wells on adjoining properties. Therefore the potential to interfere with water users on those properties is unlikely. In addition, previous stream monitoring data presented to OWRD has indicated, and OWRD has determined, that routine pumping from the irrigation well does not impact flow in Whiskey Run Creek. Continuing with irrigation operations at the property is unlikely to significantly and negatively impact local groundwater conditions as the property development continues.

[OAR 690-315-0040(2)(f)]

19. Will the income or use of the water project provide a fair and reasonable return on your investment? (Explain in detail)

Yes. The water project will allow for more complete development of the property (as noted above in Section 18), thereby substantially increasing the property value to the owner.

[OAR 690-315-0040(4)(d)]

20. Describe in detail if there are other economic interest, beyond those of the permit holder, which are dependent upon the completion of this project. (Who will be effected and how?)

The property owner and permit holder is the primary affected party. However there will be a large number of secondary beneficiaries to the development of the property that will have a strong impact on the local economy. These include future employees (e.g. course superintendents, golf instructors, caddies, landscapers, retail employees), local golfers, and golfers who travel to the Bandon area and contribute to the local economy.

Attach permit, and documentation to the application

Attachments:

Attachment A Permit G-15437

Attachment B Permit Map

Attachment C Final Order, Dated July 13, 2013

Attachment D Well Information Summary (Excerpted from the 2012 Extension Application)

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**ATTACHMENT A
PERMIT G-15437**

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**ATTACHMENT B
PERMIT MAP**

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 MAR 18 2003
 WATER RESOURCES DEPT
 SALEM, OREGON

Place of Use

Location (T-R-S-QQ)	Total Acres	Irrigated Acres
27.05-14.0W-19-NENE	3.8	
27.05-14.0W-19-NESE	0.8	
27.05-14.0W-19-SENE	9.5	2.2 ✓
27.05-14.0W-20-NENW	38.8	10.3 ✓
27.05-14.0W-20-NESE	28.8	4.4 ✓
27.05-14.0W-20-NESE	10.1	
27.05-14.0W-20-NWNE	33.7	4.9
27.05-14.0W-20-NWNW	37.9	13.7
27.05-14.0W-20-NWSW	36.1	10.6
27.05-14.0W-20-NWSE	32.0	
27.05-14.0W-20-SWNE	36.0	
27.05-14.0W-20-SWNW	40.0	21.8
27.05-14.0W-20-SWSW	16.8	8.3
27.05-14.0W-20-SENE	40.0	3.7
27.05-14.0W-20-SESW	0.9	0.1

*Total acres
are 95^e*

- LEGEND**
- Place of Use
 - PLSS Quarter, C
 - Proposed Irrigat
 - Proposed Irrigat

0 1320
 Scale 1" = 1320 Feet
 Map Projection:
 Oregon State Plane, NAD 83,
 South Zone, Feet
 Source: Regional Ecosystem
 Organization

**Well Location Information
(G - 15697)**

Well	Location
1	NW of the SW Quarter Section 20, 2,450 feet north and 350 feet east of the SW corner section 20
2	NW of the NW Quarter Section 20, 4,000 feet north and 550 feet east of the SW corner section 20

**Well Location Information
(G - 15920)**

Well	Location
1	NW of the SW Quarter Section 20, 1,350 feet north and 325 feet east from SW corner of Section 20
2	SE of the NW Quarter Section 20, 2,250 feet east and 1,950 feet south of the NW corner of Section 20
3	NE of the NW Quarter Section 20, 1,650 feet east and 750 feet south of the NW corner of Section 20
4	NW of the NE Quarter Section 20, 1,800 feet west and 750 feet south of the NE corner of Section 20

Site Map With Proposed Irrigation Areas
 BALLY BSR/GROUNDWATER SERVICES/OR

Drawn: ATB Revision: 4 Date: Mar 17, 2003 Figure: 1

app# G-15697 Permit # G-15437 **Golder Associates**

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**ATTACHMENT C
FINAL ORDER, DATED JULY 13, 2013**

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Mailing List for Extension FO Copies

Note: Include a copy of the "Important Notice" document along with the original copy of the Final Order being sent to the permit holder.

FO Date: July, 19 2013

Copies Mailed

**Application G-15697
Permit G-15437**

By: _____
On: _____

Original mailed to permit holder

Phil Friedmann
Bally Bandon Sheep Ranch
P.O. Box 1756
Bandon, OR 97411

Copies sent to:

1. WRD - App. File G-15697/ Permit G-15437
2. Ronald P. Blegen, Golder Associates, Inc., 1430 W. Broadway Road, Suite 108, Tempe, AZ 85282

Fee paid as specified under ORS 536.050 to receive copy:

3. None

Receiving notification via e-mail FO available in WRIS for review
(DONE BY EXTENSION SPECIALIST)

4. rblegen@golder.com
5. Pfriedmann1@gmail.com

CASEWORKER: MRM

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BEFORE THE OREGON WATER RESOURCES DEPARTMENT

In the Matter of Water Right Application)	FINAL ORDER
G-15697 in the Name of Bally Bandon	)	INCORPORATING
Sheep Ranch and Phil Friedmann,	)	SETTLEMENT
<i>Applicant and Protestant</i>	)	AGREEMENT

Based on the attached Settlement Agreement, which is incorporated herein and includes the draft permit attached, I find that the proposed use would ensure the public welfare, safety and health as described in ORS 537.525 because the proposed use is allowed in the basin program, water is available, the proposed use will not result in injury to existing water rights and the proposed use complies with the rules of the Water Resources Commission.

Therefore, it is ordered that Application G-15697 is approved and a permit shall issue.

DATED this 16 day of May, 2003.



Paul Clark, Director
Oregon Water Resources Department

STATE OF OREGON

COUNTY OF COOS

PERMIT TO APPROPRIATE THE PUBLIC WATERS

THIS PERMIT IS HEREBY ISSUED TO

PHIL FRIEDMANN for BALLY BANDON SHEEP RANCH
PO BOX 1756.
BANDON, OREGON 97411

(541) 530-6839

The specific limits and conditions of the use are listed below.

APPLICATION FILE NUMBER: G-15697

SOURCE OF WATER: SIX WELLS IN WHISKY RUN CREEK BASIN

PURPOSE OR USE: IRRIGATION OF 95.0 ACRES

MAXIMUM RATE: 0.45 CUBIC FOOT PER SECOND

PERIOD OF USE: MARCH 1 THROUGH OCTOBER 31

DATE OF PRIORITY: FEBRUARY 4, 2002

WELL LOCATIONS:

WELL #1A NW ¼ SW ¼, SECTION 20, T27S, R14W, W.M.; 2450 FEET
NORTH & 350 FEET EAST FROM SW CORNER, SECTION 20

WELL #2A NW ¼ NW ¼, SECTION 20, T27S, R14W, W.M.; 4600 FEET
NORTH & 550 FEET EAST FROM SW CORNER, SECTION 20

WELL #1B NW ¼ SW ¼, SECTION 20, T27S, R14W, W.M.; 1,350 FEET
NORTH & 325 FEET EAST FROM SW CORNER, SECTION 20

WELL #2B SE ¼ NW ¼, SECTION 20, T27S, R14W, W.M.; 1950 FEET
SOUTH & 2250 FEET EAST FROM NW CORNER, SECTION 20

WELL #3B NE ¼ NW ¼, SECTION 20, T27S, R14W, W.M.; 750 FEET SOUTH
& 1650 FEET EAST FROM NW CORNER, SECTION 20

WELL #4B NW ¼ NE ¼, SECTION 20, T27S, R14W, W.M.; 750 FEET SOUTH
& 1800 FEET WEST FROM NE CORNER, SECTION 20

The amount of water used for irrigation under this right, together with the amount secured under any other right existing for the same lands, is limited to a diversion of ONE-EIGHTIETH of one cubic foot per second (or its equivalent) and 2.5 acre-feet for each acre irrigated during the irrigation season of each year.

THE PLACE OF USE IS LOCATED AS FOLLOWS:

SE $\frac{1}{4}$ NE $\frac{1}{4}$ 2.2 ACRES

SECTION 19

NW $\frac{1}{4}$ NE $\frac{1}{4}$ 4.9 ACRES

NE $\frac{1}{4}$ NW $\frac{1}{4}$ 16.3 ACRES

NW $\frac{1}{4}$ NW $\frac{1}{4}$ 13.7 ACRES

SW $\frac{1}{4}$ NW $\frac{1}{4}$ 21.8 ACRES

SE $\frac{1}{4}$ NW $\frac{1}{4}$ 3.7 ACRES

NE $\frac{1}{4}$ SW $\frac{1}{4}$ 4.4 ACRES

NW $\frac{1}{4}$ SW $\frac{1}{4}$ 19.6 ACRES

SW $\frac{1}{4}$ SW $\frac{1}{4}$ 8.3 ACRES

SE $\frac{1}{4}$ SW $\frac{1}{4}$ 0.1 ACRES

SECTION 20

TOWNSHIP 27 SOUTH, RANGE 14 WEST, W.M.

Measurement, recording and reporting conditions:

- A. Before water use may begin under this permit, the permittee shall install a meter or other suitable measuring device as approved by the Director. The permittee shall maintain the meter or measuring device in good working order, shall keep a complete record of the amount of water used each month and shall submit a report which includes the recorded water use measurements to the Department annually or more frequently as may be required by the Director. Further, the Director may require the permittee to report general water use information, including the place and nature of use of water under the permit.
- B. The permittee shall allow the watermaster access to the meter or measuring device; provided however, where the meter or measuring device is located within a private structure, the watermaster shall request access upon reasonable notice.

Applicant is to pay for the installation and operation of a continuous record gaging station at a suitable location near the mouth of Whiskey Run Creek. The gaging station is to be run for no less than five

years, and the data collected to the USGS standard. The record from this gaging station will be used to define the 80-percent exceedance natural streamflow for Whiskey Run Creek. If it is determined at the end of five years that streamflow is insufficient to meet the demands of the instream water right and the proposed use, the gaging station will be continued in operation at the applicant's expense for the purpose of regulating the use of water in Whiskey Run Creek according to the prior appropriation doctrine. If it is determined at the end of five years that streamflow is sufficient to meet the demands of the instream water right and the proposed use, the gaging station will be discontinued.

Prior to use of water under this permit, the permittee shall obtain OWRD approval for a plan to monitor and report the impacts of this use on water levels within the aquifer utilized under this permit. The plan shall include locating two or more dedicated observation wells between the permitted wells and offsite wells to address water level impacts on senior ground water users.

STANDARD CONDITIONS

If substantial interference with a senior water right occurs due to withdrawal of water from any well listed on this permit, then use of water from the well(s) shall be discontinued or reduced and/or the schedule of withdrawal shall be regulated until or unless the Department approves or implements an alternative administrative action to mitigate the interference. The Department encourages junior and senior appropriators to jointly develop plans to mitigate interferences.

The wells shall be constructed in accordance with the General Standards for the Construction and Maintenance of Water Wells in Oregon. The works shall be equipped with a usable access port, and may also include an air line and pressure gauge adequate to determine water level elevation in the well at all times.

The use shall conform to such reasonable rotation system as may be ordered by the proper state officer.

Prior to receiving a certificate of water right, the permit holder shall submit the results of a pump test meeting the department's standards, to the Water Resources Department. The Director may require water level or pump test results every ten years thereafter.

Failure to comply with any of the provisions of this permit may result in action including, but not limited to, restrictions on the use, civil penalties, or cancellation of the permit.

This permit is for the beneficial use of water without waste. The water user is advised that new regulations may require the use of best practical technologies or conservation practices to achieve this end.

By law, the land use associated with this water use must be in compliance with statewide land-use goals and any local acknowledged land-use plan.


The use of water shall be limited when it interferes with any prior surface or ground water rights.

The Director finds that the proposed use(s) of water described by this permit, as conditioned, will not impair or be detrimental to the public interest.

Complete application of the water to the use shall be made on or before October 1, 2007. If the water is not completely applied before this date, and the permittee wishes to continue development under the permit, the permittee must submit an application for extension of time, which may be approved based upon the merit of the application.

Within one year after complete application of water to the proposed use, the permittee shall submit a claim of beneficial use, which includes a map and report, prepared by a Certified Water Rights Examiner (CWRE).

Issued May 16, 2003


Paul R. Cleary, Director
Water Resources Department

REAL ESTATE TRANSACTIONS: Pursuant to ORS 537.330, in any transaction for the conveyance of real estate that includes any portion of the lands described in this permit, the seller of the real estate shall, upon accepting an offer to purchase that real estate, also inform the

Application G-15697

Water Resources Department

PERMIT G-15437

Basin 17

Volume 3 BASIN 17 MISC

AMH

purchaser in writing whether any permit, transfer approval order, or certificate evidencing the water right is available and that the seller will deliver any permit, transfer approval order or certificate to the purchaser at closing, if the permit, transfer approval order or certificate is available.

CULTURAL RESOURCES PROTECTION LAWS: Permittees involved in ground-disturbing activities should be aware of federal and state cultural resources protection laws. ORS 358.920 prohibits the excavation, injury, destruction or alteration of an archeological site or object, or removal of archeological objects from public and private lands without an archeological permit issued by the State Historic Preservation Office. 16 USC 470, Section 106, National Historic Preservation Act of 1966 requires a federal agency, prior to any undertaking to take into account the effect of the undertaking that is included on or eligible for inclusion in the National Register. For further information, contact the State Historic Preservation Office at 503-378-4168, extension 232.



Application G-15697
Basin 17
AMH

Water Resources Department
Volume 3 BASIN 17 MISC

PERMIT G-15437

Oregon Water Resources Department
Water Rights Division

Water Rights Application
Number G-15697

Final Order
Extension of Time for Permit Number G-15437

Appeal Rights

This is a final order in other than contested case. This order is subject to judicial review under ORS 183.484. Any petition for judicial review must be filed within the 60 day time period specified by ORS 183.484(2). Pursuant to ORS 536.075 and OAR 137-004-0080 you may either petition for judicial review or petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the Director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied.

Application History

The Department issued Permit G-15437 on May 16, 2003. The permit called for complete application of water to beneficial use by October 1, 2007. On December 4, 2007, Bally Bandon Sheep Ranch; Phil Friedmann submitted to the Department an Application for Extension of Time for Permit G-15437. In accordance with OAR 690-315-0050(2), on January 15, 2008, the Department issued a Proposed Final Order proposing to extend the time to fully apply water to beneficial use to October 1, 2012. The protest period closed February 29, 2008, in accordance with OAR 690-315-0060(1). No protest was filed.

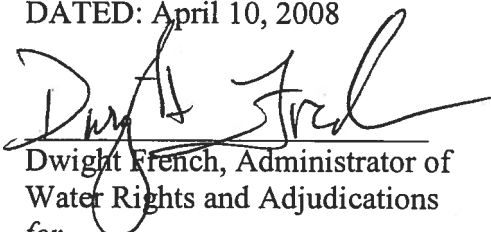
At time of issuance of the Proposed Final Order the Department concluded that, based on the factors demonstrated by the applicant, the permit may be extended subject to no additional conditions.

The applicant has demonstrated good cause for the permit extension pursuant to ORS 537.630, 539.010(5) and OAR 690-315-0040(2).

Order

The extension of time for Application G-15697, Permit G-15437, therefore, is approved. The deadline for applying water to full beneficial use is extended to October 1, 2012.

DATED: April 10, 2008



Dwight French, Administrator of
Water Rights and Adjudications

for

Phillip C. Ward, Director

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- If you have any questions about statements contained in this document, please contact Ann Reece at (503) 986-0827.
 - If you have other questions about the Department or any of its programs, please contact our Water Resources Customer Service Group at (503) 986-0900
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**Oregon Water Resources Department
Water Rights Division**

Application for Extension of Time

In the Matter of the Application for an Extension of Time)
for Permit G-15437, Water Right Application G-15697)
in the name of Bally Bandon Sheep Ranch; Phil Friedmann)

PROPOSED FINAL ORDER

Permit Information

Application File G-15697 Permit G-15437

Basin: 17 – South Coast / Watermaster District 19

Date of Priority: February 4, 2002

Authorized Use of Water

Source of Water: Six Wells in the Whiskey Run Creek Basin

Purpose of Use: Irrigation of 95.0 Acres

Maximum Rate: 0.45 Cubic Feet per Second (cfs)

**This Extension of Time request is being processed in accordance with Oregon
Administrative Rule Chapter 690, Division 315**

Please read this Proposed Final Order in its entirety.

This Proposed Final Order applies only to Permit G-15437, water right Application G-15697.
A copy of Permit G-15437 is enclosed as Attachment 1.

Summary of Proposed Final Order for Extension of Time

The Department proposes to:

- Grant an extension of time to apply water to full beneficial use from October 1, 2007 to October 1, 2012.

ACRONYM QUICK REFERENCE

Department – Oregon Department of Water Resources
PFO – Proposed Final Order

Units of Measure

cfs – cubic feet per second
gpm – gallons per minute

AUTHORITY

Generally, see ORS 537.630 and OAR Chapter 690 Division 315.

ORS 537.630(1) provide in pertinent part that the Oregon Water Resources Department (Department) may, for good cause shown, order an extension of time within which: irrigation or other works shall be completed; the well or other means of developing and securing ground water shall be completed; or the right perfected. In determining the extension, the Department shall give due weight to the considerations described under ORS 539.010(5) and to whether other governmental requirements relating to the project have significantly delayed completion of construction or perfection of the right.

ORS 539.010(5) provides in pertinent part that the Water Resources Director, for good cause shown, may extend the time within which the full amount of the water appropriated shall be applied to a beneficial use. This statute instructs the Director to consider: the cost of the appropriation and application of the water to a beneficial purpose; the good faith of the appropriator; the market for water or power to be supplied; the present demands therefore; and the income or use that may be required to provide fair and reasonable returns upon the investment.

OAR 690-315-0040 provides in pertinent part that the Water Resources Department shall make findings to determine if an extension of time may be approved to complete construction and/or apply water to full beneficial use.

FINDINGS OF FACT

Background

1. Permit G-15437 was granted by the Department on May 16, 2003. The permit authorizes the use of up to 0.45 cfs of water from six wells for irrigation of 95.0 acres. The permit specified complete application of water was to be made on or before October 1, 2007.
2. The permit holder submitted an "Application for Extension of Time" to the Department on December 4, 2007 requesting the time to apply water to full beneficial use under the terms of Permit G-15437 be extended from October 1, 2007 to October 1, 2012. This is the first permit extension requested for Permit G-15437.
3. Notification of the Application for Extension of Time for Permit G-15437 was published in the Department's Public Notice dated December 11, 2007. No public comments were received regarding the extension application.

Review Criteria [OAR 690-315-0040]

The time limits to complete construction and/or apply water to full beneficial use may be extended if the Department finds that the permit holder has met the requirements set forth under OAR 690-315-0040. This determination shall consider the applicable requirements of ORS 537.230¹, 537.248², 537.630³ and/or 539.010(5)⁴.

Complete Extension of Time Application [OAR 690-315-0040(1)(a)]

4. On December 4, 2007, the Department received a completed Application for Extension of Time and the fee required by ORS 536.050 from the permit holder.

Start of Construction [OAR 690-315-0040(1)(b) and 690-315-0040(5)]

5. Senate Bill 300 (1999 legislation) eliminates the requirement that holders of new surface water and ground water permits start construction on water projects within one year after the Department issues the permit. Senate Bill 300 applies to any application for a permit filed after October 23, 1999.

Duration of Extension [OAR 690-315-0040(1)(c)]

Under OAR 690-315-0040(1)(c), in order to approve an extension of time for water use permits the Department must find that the time requested is reasonable and the applicant can complete the project within the time requested.

6. As of December 4, 2007, the remaining work to be completed consists of completing construction of the water system and applying water to full beneficial use.

¹ ORS 537.230 applies to surface water permits only.

² ORS 537.248 applies to reservoir permits only.

³ ORS 537.630 applies to ground water permits only.

⁴ ORS 539.010(5) applies to surface water and ground water permits.

7. Given the amount of development left to occur, the Department has determined that the permit holder's request to have until October 1, 2012, to accomplish the application of water to beneficial use under the terms of Permit G-15437 is both reasonable and necessary.

Good Cause [OAR 690-315-0040(1)(d)]

The Department's determination of good cause shall consider the requirements set forth under OAR 690-315-0040(2).

Reasonable Diligence of the Appropriator [OAR 690-315-0040(2)(a)]

The Department's determination of reasonable diligence shall consider the requirements set forth under OAR 690-315-0040(3)(a-d). In accordance with OAR 690-315-0040(3), the Department shall consider, but is not limited to, the following factors when determining whether the applicant has demonstrated reasonable diligence in previous performance under the permit:

Amount of Construction [OAR 690-315-0040(3)(a)]

8. The following construction was completed within the time allowed in the permit or previous extension:
 - a. Prior to October 1, 2007, construction of one well had been completed.
 - b. Work was accomplished (specified in the Application for Extension of Time) during the original development time frame under Permit G-15437.

Beneficial Use of Water [OAR 690-315-0040(3)(b)]

9. The following beneficial use was made of the water during the permit or previous extension time limits:
 - a. Since the issuance of Permit G-15437 on May 16, 2003, a maximum rate of 0.28 cfs has been appropriated from the well for irrigation of 15.0 acres.

Compliance with Conditions [OAR 690-315-0040(3)(c)]

10. The water right permit holder's conformance with the permit or previous extension conditions.
 - a. The Department has considered the permit holder's compliance with conditions, and has identified the following concerns: (1) the record does not show that the gaging station installed and operated near the mouth of Whiskey Run Creek has been running for five years.
 - b. Failure to comply with permit conditions constitutes illegal use of water. The use of water under this permit, therefore, has not yet been demonstrated. In order to legally perfect the use of water under this permit, the permit holder must demonstrate that all conditions of the permit have been satisfied.

Financial Investments [OAR 690-315-0040(3)(d)]

11. Financial investments made toward developing the beneficial water use.
 - a. As of December 4, 2007, the permit holder has invested approximately \$600,000, which is 55 percent of the total projected cost for complete development of this project. The permit holder anticipates an additional \$500,000 investment is needed for the completion of this project.

Cost to Appropriate and Apply Water to a Beneficial Purpose [OAR 690-315-0040(2)(b)]

12. As of December 4, 2007, the permit holder has invested approximately \$600,000 which is 55 percent of the total projected cost for complete development of this project. The permit holder anticipates an additional \$500,000 investment is needed for the completion of this project.

Good Faith of the Appropriator [OAR 690-315-0040(2)(c)]

13. The Department has found good faith of the appropriator under Permit G-15437.

The Market and Present Demands for Water [OAR 690-315-0040(2)(d-e)]

The Department's determinations of market and present demand for water or power to be supplied shall consider the requirements set forth under OAR 690-315-0040(4)(a-f). In accordance with OAR 690-315-0040(4), the Department shall consider, but is not limited to, the following factors when determining the market and the present demand for water or power to be supplied:

14. The amount of water available to satisfy other affected water rights and scenic waterway flows; special water use designations established since permit issuance, including but not limited to state scenic waterways, federal wild and scenic rivers, serious water management problem areas or water quality limited sources established under 33 U.S.C. 1313(d); or the habitat needs of sensitive, threatened or endangered species, in consultation with the Oregon Department of Fish and Wildlife [OAR 690-315-0040(4)(a-c)].
 - a. The amount of water available to satisfy other affected water rights and scenic waterway flows was determined at the time of issuance of Permit G-15437; furthermore, water availability for other affected water rights and scenic waterway flows after the permit was issued is determined at such time that such application for a new water right is submitted. The points of appropriation for Permit G-15437, located within the Whiskey Run Creek Basin, are not located within a limited or critical ground water area. Whiskey Run Creek is not located within or above any state or federal scenic waterway, however it is located within an area ranked "low" for stream flow restoration needs as determined by the Department in consultation with the Oregon Department of Fish and Wildlife, and is located within a Sensitive, Threatened or Endangered Fish Species Area as identified by the Department in consultation with Oregon Department of Fish and

Wildlife. Whiskey Run Creek is not listed by the Department of Environmental Quality as a water quality limited stream.

15. Economic investment in the project to date [OAR 690-315-0040(4)(d)].
 - a. As of December 4, 2007, the permit holder has invested approximately \$600,000.
16. Other economic interests dependent on completion of the project [OAR 690-315-0040(4)(e)].
 - a. None have been identified.
17. Other factors relevant to the determination of the market and present demand for water and power [OAR 690-315-0040(4)(f)].
 - a. None have been identified.

Fair Return Upon Investment [OAR 690-315-0040(2)(f)]

18. Use and income from the permitted water development results in reasonable returns upon the investment made to date.

Other Governmental Requirements [OAR 690-315-0040(2)(g)]

19. Delay in the development of this project was not caused by any other governmental requirements.

Unforeseen Events [OAR 690-315-0040(2)(h)]

20. None have been identified.

CONCLUSIONS OF LAW

1. The applicant is entitled to apply for an extension of time to complete construction and/or completely apply water to the full beneficial use pursuant to ORS 537.630(1).
2. The applicant has submitted a complete extension application form and the fee specified in ORS 536.050, as required by OAR 690-315-0040(1)(a).
3. The applicant complied with begin actual construction timeline requirements pursuant to ORS 537.630 as required by OAR 690-315-0040(1)(b) and OAR 690-315-0040(5).
4. Full application of water to beneficial use can be accomplished by October 1, 2012⁵, as required by OAR 690-315-0040(1)(c).

⁵Pursuant to ORS 537.630(4), upon the completion of beneficial use of water allowed under the permit, the permittee shall hire a certified water rights examiner to survey the appropriation. Within one year after the complete application of water to a beneficial use (or by the date allowed for the complete application of water to a beneficial use), the permittee shall submit a map of the survey and the claim of beneficial use.

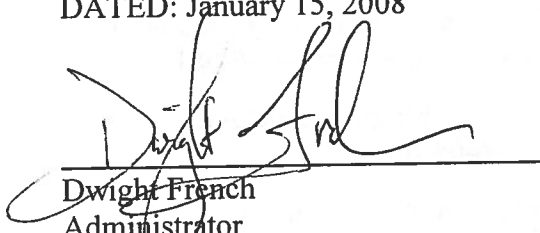
5. The Department has considered the reasonable diligence and good faith of the appropriator, the cost to appropriate and apply water to a beneficial purpose, the market and present demands for water to be supplied, the financial investment made and fair and reasonable return upon the investment, the requirements of other governmental agencies, and unforeseen events over which the permit holder had no control, whether denial of the extension will result in undue hardship to the applicant and whether there are no other reasonable alternatives for meeting water use needs, any other factors relevant to a determination of good cause, and has determined that the applicant has shown that good cause exists for an extension of time to apply water to full beneficial use pursuant to OAR 690-315-0040(1)(d).

Proposed Order

Based upon the foregoing Findings of Fact and Conclusions of Law, the Department proposes to issue an order to:

extend the time to apply water to beneficial use under Permit G-15437 from October 1, 2007 to October 1, 2012.

DATED: January 15, 2008


Dwight French
Administrator
Water Rights & Adjudications Division

*If you have any questions,
please check the information
box on the last page for the
appropriate names and
phone numbers.*

Proposed Final Order Hearing Rights

1. Under the provisions of OAR 690-315-0100(1) and 690-315-0060, the applicant or any other person adversely affected or aggrieved by the proposed final order may submit a written protest to the proposed final order. The written protest must be received by the Water Resources Department no later than **February 29, 2008**, being 45 days from the date of publication of the proposed final order in the Department's weekly notice.
2. A written protest shall include:
 - a. The name, address and telephone number of the petitioner;
 - b. A description of the petitioner's interest in the proposed final order and if the protestant claims to represent the public interest, a precise statement of the public interest represented;
 - c. A detailed description of how the action proposed in the proposed final order would adversely affect or aggrieve the petitioner's interest;

- d. A detailed description of how the proposed final order is in error or deficient and how to correct the alleged error or deficiency;
 - e. Any citation of legal authority supporting the petitioner, if known;
 - f. Proof of service of the protest upon the water right permit holder, if petitioner is other than the water right permit holder; and
 - g. The protest fee required under ORS 536.050, if petitioner is other than the water right permit holder.
3. Within 60 days after the close of the period for requesting a contested case hearing, the Director shall:
- a. Issue a final order on the extension request; or
 - b. Schedule a contested case hearing if a protest has been submitted, and:
 - 1) Upon review of the issues, the Director finds there are significant disputes related to the proposed agency action; or
 - 2) The applicant submits a written request for a contested case hearing within 30 days after the close of the period for submitting protests.

-
- If you have any questions about statements contained in this document, please contact Kim French at 503-986-0813.
 - If you have questions about how to file a protest or if you have previously filed a protest and you want to know the status, please contact Patricia McCarty at 503-986-0819.
 - If you have any questions about the Department or any of its programs, please contact our Water Resources Customer Service Group at 503-986-0801.
 - Address any correspondence to : Water Rights and Adjudications Division
725 Summer St NE, Suite A
Salem, OR 97301-1266
- Fax: 503-986-0901
-

Mailing List for Extension PFO Copies

PFO Date: January 15, 2008

Copies Mailed

**Application G-15697
Permit G-15437**

By: MS
On: 1/15/08

Original mailed to Applicant:

Bally Bandon Sheep Ranch
Attn: Phil Friedmann
875 North Michigan Ave, Ste 3928
Chicago, IL 60611

Copies sent to:

1. WRD - App. File G-15697/ Permit G-15437
2. WRD - Watermaster District 19, Mitch Lewis
3. Ron Blegen, CWRE, Golder Associates, 1430 W. Broadway, Suite 108, Tempe, AZ 85282

Fee paid as specified under ORS 536.050 to receive copy:

4. None

Receiving via e-mail (10 AM Tuesday of signature date)

5. None

CASEWORKER: KRF

Extension PFO Checklist for Other than Muni or Quasi-Municipal

Water Use Permits
(OAR 690-315-0010 through OAR 690-315-0060)

Application: G- 15697 Permit: G- 15437 Permit Amendment? No Yes T- _____

Permit Holder's Name: Phil Friedmann for Bally Bandon Sheep Ranch

Permit Holder's Mailing Address: _____

Phone Number: _____

POD Location: Township 27S Range 14W Section 20 ¼¼ VARIOUS

Drainage Basin: 17 County: Coos Watermaster District: 19 Watermaster: Mitch Lewis

Date Permit was issued: 5/16/2003 Priority Date: 2/4/2002 Date of PN: 12/11/2007

Source: Six Wells in Whiskey Run Creek Basin

Use: Irrigation of 95.0 acres

"Q": 0.45 cfs

Orig "A" Date: _____

Orig "B" Date: 10/1/

Orig "C" Date: 10/1/2007

Extension request rec'd: 12/4/2007

Last Authorized "B" Date: 10/1/

Last Authorized "C" Date: 10/1/

Request Number (1, 2, 3...): 1

Proposed "B" Date: 10/1/2012

Proposed C Date: 10/1/2012

Conditions of Permit:

Condition Met?	Condition Not Met?	Permit Condition
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Install Meter
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Install and operate a continuous record gaging station near the mouth of Whiskey Run Creek
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Run gaging station for no less than five years
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Obtain OWRD approval for a plan to monitor and report impacts on water levels
<input type="checkbox"/>	<input type="checkbox"/>	

Factors to consider in determining "Reasonable Diligence" [OAR 690-315-0040(3)]:

Yes No

- Work was accomplished within the time allowed in the permit or previous extension
- Water right permit holder conformed with the permit or previous extension conditions
- Financial investments were made toward developing the beneficial water use.
 - Amount Invested to date: \$600,000 Estimated Remaining Cost: \$500,000
- Beneficial use made of the water during the permit or previous extension time limits
 - Permit holder has beneficially used 0.28 cfs gpm af of the total permitted quantity of water on 15.0 acres

Has the applicant pursued perfection of the right in good faith and with reasonable diligence? Yes No

Determination of the market and the present demand for water or power to be supplied:

Identify the closest surface water or localized water basin. Whiskey Run Creek
Ground Water Permits: Is the POA located...
Surface Water Permits: Is the POD located...

- Yes No
- above a state scenic waterway? Source: OWRD "Areas Above State Scenic Waterways" Map
 - within a stream segment designated as a federal wild and scenic river? Source: www.rivers.gov/wildriverslist.html
 - within a sensitive, threatened or endangered species area Source: "/>

Based on the written record, can the Department make a finding of "Good Cause" to approve the extension request?

Yes... "Good Cause" can be found. Approval of Extension Request
No ... "Good Cause" cannot be found. Denial of Extension Request

Conditions to be included in Extension PFO (if applicable)? Yes No

(NOTE: Check the file record for documentation to add a condition(s) at the extension stage.)

- 5-year Progress Report Checkpoints (Years: _____)
- Other: _____

Footnote regarding Claim of Beneficial Use. Choose the appropriate language below and insert as a footnote in the PFO:

- COBU Requirement - Surface/Ground Water - on or prior to July 9, 1987**
"For permits applied for or received on or before July 9, 1987, upon complete development of the permit, you must notify the Department that the work has been completed and either: (1) Hire a water right examiner certified under ORS 537.798 to conduct a survey, the original to be submitted as required by the Water Resources Department, for issuance of a water right certificate; or (2) Continue to appropriate water under the water right permit until the Water Resources Department conducts a survey and issues a water right certificate under ORS 537.250 or 537.625."
- COBU Requirement - Surface Water - post July 9, 1987**
"Pursuant to ORS 537.230(4), upon the completion of beneficial use of water allowed under the permit, the permit holder shall hire a certified water rights examiner to survey the appropriation. Within one year after the complete application of water to a beneficial use (or by the date allowed for the complete application of water to a beneficial use), the permit holder shall submit a map of the survey and the claim of beneficial use."
- COBU Requirement - Ground Water - post July 9, 1987**
"Pursuant to ORS 537.630(4), upon the completion of beneficial use of water allowed under the permit, the permit holder shall hire a certified water rights examiner to survey the appropriation. Within one year after the complete application of water to a beneficial use (or by the date allowed for the complete application of water to a beneficial use), the permit holder shall submit a map of the survey and the claim of beneficial use."

NOTES:

Extension "PFO" Dates

Mailing / Issuance Date: _____ Protest Deadline Date: _____

Reviewer's Name: _____ Date: _____

Public Notice Route Slip ... New Application Extension of Time
per Division 315 Rules... (Extensions received on July 1, 2001 or after)

- ◆ **WRIG...**
Money Received on: 12/4/07
- ◆ **Kim French...**
 - Added to tracking spreadsheet

After fee is receipted and app is added to spreadsheet, route to...

- ◆ **Jonnine Skaug...**
 - Publish on Public Notice (initial 30-day comment): Date of notice 12/11/07 MS
 - Update WRIS Database
 - In the "PNotice Date" field... Enter the date the Extension Application was published on the Public Notice.
 - In the "Ext Filed" field... Enter the date the Extension Application was received.

STATE OF OREGON
WATER RESOURCES DEPARTMENT

725 Summer St. N.E. Ste. A
 SALEM, OR 97301-4172
 (503) 986-0900 / (503) 986-0904 (fax)

RECEIPT # **90833**

INVOICE # _____

RECEIVED FROM: Holder Associates
Tulson Imprest

APPLICATION 62-15697
 PERMIT _____
 TRANSFER _____

CASH: CHECK# 1200 OTHER: (IDENTIFY)

TOTAL REC'D \$ 350.00

1083 TREASURY 4170 WRD MISC CASH ACCT

0407 COPIES PLA 46111 \$ _____
 OTHER: (IDENTIFY) _____ \$ _____

0243 I/S Lease _____ 0244 Muni Water Mgmt. Plan _____ 0245 Cons. Water _____

4270 WRD OPERATING ACCT

**RECEIVED
 OVER THE COUNTER**

MISCELLANEOUS
 0407 COPY & TAPE FEES \$ _____
 0410 RESEARCH FEES \$ _____
 0408 MISC REVENUE: (IDENTIFY) _____ \$ _____
 TC162 DEPOSIT LIAB. (IDENTIFY) _____ \$ _____
 0240 EXTENSION OF TIME \$ 350.00

WATER RIGHTS:

EXAM FEE	RECORD FEE
0201 SURFACE WATER \$ _____	0202 \$ _____
0203 GROUND WATER \$ _____	0204 \$ _____
0205 TRANSFER \$ _____	

WELL CONSTRUCTION

EXAM FEE	LICENSE FEE
0218 WELL DRILL CONSTRUCTOR \$ _____	0219 \$ _____
LANDOWNER'S PERMIT	0220 \$ _____

OTHER (IDENTIFY) _____

0536 TREASURY 0437 WELL CONST. START FEE

0211 WELL CONST START FEE \$ _____ CARD # _____
 0210 MONITORING WELLS \$ _____ CARD # _____
 OTHER (IDENTIFY) _____

0607 TREASURY 0467 HYDRO ACTIVITY LIC NUMBER

0233 POWER LICENSE FEE (FW/WRD) \$ _____
 0231 HYDRO LICENSE FEE (FW/WRD) \$ _____
 HYDRO APPLICATION \$ _____

TREASURY OTHER / RDX

FUND _____ TITLE _____
 OBJ. CODE _____ VENDOR # _____
 DESCRIPTION _____ \$ _____

RECEIPT: **90833**

DATED: 12/4/07 BY: [Signature]

Extension PFO Checklist for Other than Muni or Quasi-Municipal

Water Use Permits
(OAR 690-315-0010 through OAR 690-315-0060)

Application: G- 15697 Permit: G- 15437 Permit Amendment? No Yes T- _____

Permit Holder's Name: Phil Friedmann for Bally Bandon Sheep Ranch

Permit Holder's Mailing Address: _____

Phone Number: _____

POD Location: Township 27S Range 14W Section 20 $\frac{1}{4}$ VARIOUS

Drainage Basin: 17 County: Coos Watermaster District: 19 Watermaster: Mitch Lewis

Date Permit was issued: 5/16/2003 Priority Date: 2/4/2002 Date of PN: 12/11/2007

Source: Six Wells in Whiskey Run Creek Basin

Use: Irrigation of 95.0 acres

"Q": 0.45 cfs

Orig "A" Date: _____

Orig "B" Date: 10/1/

Orig "C" Date: 10/1/2007

Extension request rec'd: 12/4/2007

Last Authorized "B" Date: 10/1/

Last Authorized "C" Date: 10/1/

Request Number (1, 2, 3...): 1

Proposed "B" Date: 10/1/2012

Proposed C Date: 10/1/2012

Conditions of Permit:

Condition Met?	Condition Not Met?	Permit Condition
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Install Meter
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Install and operate a continuous record gaging station near the mouth of Whiskey Run Creek
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Run gaging station for no less than five years
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Obtain OWRD approval for a plan to monitor and report impacts on water levels
<input type="checkbox"/>	<input type="checkbox"/>	

Factors to consider in determining "Reasonable Diligence" [OAR 690-315-0040(3)]:

Yes No

- Work was accomplished within the time allowed in the permit or previous extension
- Water right permit holder conformed with the permit or previous extension conditions
- Financial investments were made toward developing the beneficial water use.
 - Amount Invested to date: \$600,000 Estimated Remaining Cost: \$500,000
- Beneficial use made of the water during the permit or previous extension time limits
 - Permit holder has beneficially used 0.28 cfs gpm af of the total permitted quantity of water on 15.0 acres

Has the applicant pursued perfection of the right in good faith and with reasonable diligence? Yes No

Determination of the market and the present demand for water or power to be supplied:

Identify the closest surface water or localized water basin. Whiskey Run Creek
Ground Water Permits: Is the POA located...
Surface Water Permits: Is the POD located...

- Yes No
- above a state scenic waterway? Source: OWRD "Areas Above State Scenic Waterways" Map
 - within a stream segment designated as a federal wild and scenic river? Source: www.rivers.gov/wildriverslist.html
 - within a sensitive, threatened or endangered species area Source: "/gisdata/dev/projects/salmon/div33map.aml"
 - within a critical or limited Ground Water Area? Name of area
 - in a waterbody listed on the DEQ Section 303(d) List of Water Quality Limited Areas? Date added to list
 - within an area ranking low / moderate / high for stream flow restoration needs Source: OWRD "Streamflow Restoration Needs" Maps (by region)

Based on the written record, can the Department make a finding of "Good Cause" to approve the extension request?

Yes... "Good Cause" can be found. Approval of Extension Request
No ... "Good Cause" cannot be found. Denial of Extension Request

Conditions to be included in Extension PFO (if applicable)? Yes No

(NOTE: Check the file record for documentation to add a condition(s) at the extension stage.)

- 5-year Progress Report Checkpoints (Years: _____)
- Other: _____

Footnote regarding Claim of Beneficial Use. Choose the appropriate language below and insert as a footnote in the PFO:

- COBU Requirement - Surface/Ground Water - on or prior to July 9, 1987**
"For permits applied for or received on or before July 9, 1987, upon complete development of the permit, you must notify the Department that the work has been completed and either: (1) Hire a water right examiner certified under ORS 537.798 to conduct a survey, the original to be submitted as required by the Water Resources Department, for issuance of a water right certificate; or (2) Continue to appropriate water under the water right permit until the Water Resources Department conducts a survey and issues a water right certificate under ORS 537.250 or 537.625."
- COBU Requirement - Surface Water - post July 9, 1987**
"Pursuant to ORS 537.230(4), upon the completion of beneficial use of water allowed under the permit, the permit holder shall hire a certified water rights examiner to survey the appropriation. Within one year after the complete application of water to a beneficial use (or by the date allowed for the complete application of water to a beneficial use), the permit holder shall submit a map of the survey and the claim of beneficial use."
- COBU Requirement - Ground Water - post July 9, 1987**
"Pursuant to ORS 537.630(4), upon the completion of beneficial use of water allowed under the permit, the permit holder shall hire a certified water rights examiner to survey the appropriation. Within one year after the complete application of water to a beneficial use (or by the date allowed for the complete application of water to a beneficial use), the permit holder shall submit a map of the survey and the claim of beneficial use."

NOTES:

Extension "PFO" Dates

Mailing / Issuance Date: _____ Protest Deadline Date: _____

Reviewer's Name: _____ Date: _____

Division 315 - Other Than Muni or Quasi-Muni
Extension of Time Application - Completeness Checklist
OAR 690-315-0020

Place a checkmark in the box if the item is satisfied	
✓	The appropriate extension of time fee (as specified in ORS 536.050). [OAR 690-315-0020(3)] \$350 – applications received on or after July 1, 2007
✓	The name and mailing address of the water right permit holder(s); [OAR 690-315-0020(3)(a)]
✓	The application number and the permit number for which an extension is requested; [OAR 690-315-0020(3)(b)]
/	If the water right permit holder receives delivery of the subject water right permit from a municipality, municipal corporation, or other special district, the applicant shall provide the name of the entity and evidence that a copy of the application for extension of time has been provided to the entity responsible for delivering the water; [OAR 690-315-0020(3)(c)]
✓	Evidence of the actions taken to begin actual construction within the time period in the permit or previous extension: <ul style="list-style-type: none"> • "Actual construction" means physical work performed towards completion of the water system, which demonstrates both the present good faith of the water right permit holder and the water right permit holder's intention to complete the project with reasonable diligence ("Actual construction" does not include planning a diversion system, formulating a business plan, securing financing, letting contracts, purchasing but not installing equipment, or surveying. [OAR 690-315-0020(3)(d)]
✓	Evidence of progress made toward completion of the water development and application to full beneficial use, which includes but is not limited to: [OAR 690-315-0020(3)(e)] <ul style="list-style-type: none"> • The annual accomplishments toward perfecting the water right under the terms and conditions of the permit, including the dates on which each condition contained in the relevant permit and any previous extension(s) was satisfied or the reason the condition was not satisfied; • The maximum rate of diversion, if any, made to date; and • If for irrigation, a listing by year of the number of acres irrigated each year since permit issuance, the total number of acres irrigated to date under the permit or previous extension, and a copy of the application map showing the acres irrigated.
✓	A description of financial expenditures made toward completion of the water development; [OAR 690-315-0020(3)(f)]
✓	An estimate of the cost to complete the water development; [OAR 690-315-0020(3)(g)]
/	A summary of any additional unforeseen events which delayed completion of the water development or application of water to full beneficial use, including other governmental requirements, if any, relating to the project which have significantly delayed completion of construction or perfection of the right; [OAR 690-315-0020(3)(h)]
✓	The date by which the water development will be completed and water put to full beneficial use; [OAR 690-315-0020(3)(i)]
✓	A summary of the applicant's plan and schedule to complete construction and/or perfect the water right; [OAR 690-315-0020(3)(j)]
✓	Justification of why the requested time is needed to complete the project and/or apply the water to full beneficial use; [OAR 690-315-0020(3)(k)]
/	A description of any undue hardship to the applicant which will result from denial of the extension, and that there are no other reasonable alternatives for meeting water use needs; [OAR 690-315-0020(3)(l)] <i>(NOTE: The permit holder is not asked to answer this specific question when filling out the Extension of Time Application. The Department decided this was a finding that should be determined by staff. In order to make this determination, review the Extension of Time Application and documentation in the file record. Generally, a denied extension of time may result in possible loss of investments made in the project, loss of future property value, and/or loss of future income.</i>
/	Any other information the applicant determines is relevant to evaluate the application in accordance with applicable statutes and these rules; [OAR 690-315-0020(3)(m)]
/	Any other information required in the application form that is necessary to evaluate the application in accordance with applicable statutory requirements; and [OAR 690-315-0020(3)(n)]
✓	Signature(s) of the water right permit holder(s).

Name of Reviewer: Kim French Date: 12/5/07

**Oregon Water Resources Department
Water Rights Division**

Application for Extension of Time

In the Matter of the Application for an Extension of Time)
for Permit G-15437, Water Right Application G-15697) PROPOSED FINAL ORDER
in the name of Bally Bandon Sheep Ranch; Phil Friedmann)

Permit Information

Application File G-15697 Permit G-15437

Basin: 17 – South Coast / Watermaster District 19

Date of Priority: February 4, 2002

Authorized Use of Water

Source of Water: Six Wells in the Whiskey Run Creek Basin

Purpose of Use: Irrigation of 95.0 Acres

Maximum Rate: 0.45 Cubic Feet per Second (cfs)

**This Extension of Time request is being processed in accordance with Oregon
Administrative Rule Chapter 690, Division 315**

Please read this Proposed Final Order in its entirety.

This Proposed Final Order applies only to Permit G-15437, water right Application G-15697.
A copy of Permit G-15437 is enclosed as Attachment 1.

Summary of Proposed Final Order for Extension of Time

The Department proposes to:

- Grant an extension of time to apply water to full beneficial use from October 1, 2007 to October 1, 2012.

ACRONYM QUICK REFERENCE

Department – Oregon Department of Water Resources
PFO – Proposed Final Order

Units of Measure

cfs – cubic feet per second
gpm – gallons per minute

AUTHORITY

Generally, see **ORS 537.630** and **OAR Chapter 690 Division 315**.

ORS 537.630(1) provide in pertinent part that the Oregon Water Resources Department (Department) may, for good cause shown, order an extension of time within which: irrigation or other works shall be completed; the well or other means of developing and securing ground water shall be completed; or the right perfected. In determining the extension, the Department shall give due weight to the considerations described under **ORS 539.010(5)** and to whether other governmental requirements relating to the project have significantly delayed completion of construction or perfection of the right.

ORS 539.010(5) provides in pertinent part that the Water Resources Director, for good cause shown, may extend the time within which the full amount of the water appropriated shall be applied to a beneficial use. This statute instructs the Director to consider: the cost of the appropriation and application of the water to a beneficial purpose; the good faith of the appropriator; the market for water or power to be supplied; the present demands therefore; and the income or use that may be required to provide fair and reasonable returns upon the investment.

OAR 690-315-0040 provides in pertinent part that the Water Resources Department shall make findings to determine if an extension of time may be approved to complete construction and/or apply water to full beneficial use.

FINDINGS OF FACT

Background

1. Permit G-15437 was granted by the Department on May 16, 2003. The permit authorizes the use of up to 0.45 cfs of water from six wells for irrigation of 95.0 acres. The permit specified complete application of water was to be made on or before October 1, 2007.
2. The permit holder submitted an "Application for Extension of Time" to the Department on December 4, 2007 requesting the time to apply water to full beneficial use under the terms of Permit G-15437 be extended from October 1, 2007 to October 1, 2012. This is the first permit extension requested for Permit G-15437.
3. Notification of the Application for Extension of Time for Permit G-15437 was published in the Department's Public Notice dated December 11, 2007. No public comments were received regarding the extension application.

Review Criteria [OAR 690-315-0040]

The time limits to complete construction and/or apply water to full beneficial use may be extended if the Department finds that the permit holder has met the requirements set forth under OAR 690-315-0040. This determination shall consider the applicable requirements of ORS 537.230¹, 537.248², 537.630³ and/or 539.010(5)⁴.

Complete Extension of Time Application [OAR 690-315-0040(1)(a)]

4. On December 4, 2007, the Department received a completed Application for Extension of Time and the fee required by ORS 536.050 from the permit holder.

Start of Construction [OAR 690-315-0040(1)(b) and 690-315-0040(5)]

5. Senate Bill 300 (1999 legislation) eliminates the requirement that holders of new surface water and ground water permits start construction on water projects within one year after the Department issues the permit. Senate Bill 300 applies to any application for a permit filed after October 23, 1999.

Duration of Extension [OAR 690-315-0040(1)(c)]

Under OAR 690-315-0040(1)(c), in order to approve an extension of time for water use permits the Department must find that the time requested is reasonable and the applicant can complete the project within the time requested.

6. As of December 4, 2007, the remaining work to be completed consists of completing construction of the water system and applying water to full beneficial use.

¹ ORS 537.230 applies to surface water permits only.

² ORS 537.248 applies to reservoir permits only.

³ ORS 537.630 applies to ground water permits only.

⁴ ORS 539.010(5) applies to surface water and ground water permits.

7. Given the amount of development left to occur, the Department has determined that the permit holder's request to have until October 1, 2012, to accomplish the application of water to beneficial use under the terms of Permit G-15437 is both reasonable and necessary.

Good Cause [OAR 690-315-0040(1)(d)]

The Department's determination of good cause shall consider the requirements set forth under OAR 690-315-0040(2).

Reasonable Diligence of the Appropriator [OAR 690-315-0040(2)(a)]

The Department's determination of reasonable diligence shall consider the requirements set forth under OAR 690-315-0040(3)(a-d). In accordance with OAR 690-315-0040(3), the Department shall consider, but is not limited to, the following factors when determining whether the applicant has demonstrated reasonable diligence in previous performance under the permit:

Amount of Construction [OAR 690-315-0040(3)(a)]

8. The following construction was completed within the time allowed in the permit or previous extension:
 - a. Prior to October 1, 2007, construction of one well had been completed.
 - b. Work was accomplished (specified in the Application for Extension of Time) during the original development time frame under Permit G-15437.

Beneficial Use of Water [OAR 690-315-0040(3)(b)]

9. The following beneficial use was made of the water during the permit or previous extension time limits:
 - a. Since the issuance of Permit G-15437 on May 16, 2003, a maximum rate of 0.28 cfs has been appropriated from the well for irrigation of 15.0 acres.

Compliance with Conditions [OAR 690-315-0040(3)(c)]

10. The water right permit holder's conformance with the permit or previous extension conditions.
 - a. The Department has considered the permit holder's compliance with conditions, and has identified the following concerns: (1) the record does not show that the gaging station installed and operated near the mouth of Whiskey Run Creek has been running for five years.
 - b. Failure to comply with permit conditions constitutes illegal use of water. The use of water under this permit, therefore, has not yet been demonstrated. In order to legally perfect the use of water under this permit, the permit holder must demonstrate that all conditions of the permit have been satisfied.

Financial Investments [OAR 690-315-0040(3)(d)]

11. Financial investments made toward developing the beneficial water use.
 - a. As of December 4, 2007, the permit holder has invested approximately \$600,000, which is 55 percent of the total projected cost for complete development of this project. The permit holder anticipates an additional \$500,000 investment is needed for the completion of this project.

Cost to Appropriate and Apply Water to a Beneficial Purpose [OAR 690-315-0040(2)(b)]

12. As of December 4, 2007, the permit holder has invested approximately \$600,000 which is 55 percent of the total projected cost for complete development of this project. The permit holder anticipates an additional \$500,000 investment is needed for the completion of this project.

Good Faith of the Appropriator [OAR 690-315-0040(2)(c)]

13. The Department has found good faith of the appropriator under Permit G-15437.

The Market and Present Demands for Water [OAR 690-315-0040(2)(d-e)]

The Department's determinations of market and present demand for water or power to be supplied shall consider the requirements set forth under OAR 690-315-0040(4)(a-f). In accordance with OAR 690-315-0040(4), the Department shall consider, but is not limited to, the following factors when determining the market and the present demand for water or power to be supplied:

14. The amount of water available to satisfy other affected water rights and scenic waterway flows; special water use designations established since permit issuance, including but not limited to state scenic waterways, federal wild and scenic rivers, serious water management problem areas or water quality limited sources established under 33 U.S.C. 1313(d); or the habitat needs of sensitive, threatened or endangered species, in consultation with the Oregon Department of Fish and Wildlife [OAR 690-315-0040(4)(a-c)].
 - a. The amount of water available to satisfy other affected water rights and scenic waterway flows was determined at the time of issuance of Permit G-15437; furthermore, water availability for other affected water rights and scenic waterway flows after the permit was issued is determined at such time that such application for a new water right is submitted. The points of appropriation for Permit G-15437, located within the Whiskey Run Creek Basin, are not located within a limited or critical ground water area. Whiskey Run Creek is not located within or above any state or federal scenic waterway, however it is located within an area ranked "low" for stream flow restoration needs as determined by the Department in consultation with the Oregon Department of Fish and Wildlife, and is located within a Sensitive, Threatened or Endangered Fish Species Area as identified by the Department in consultation with Oregon Department of Fish and

Wildlife. Whiskey Run Creek is not listed by the Department of Environmental Quality as a water quality limited stream.

15. Economic investment in the project to date [OAR 690-315-0040(4)(d)].
 - a. As of December 4, 2007, the permit holder has invested approximately \$600,000.
16. Other economic interests dependent on completion of the project [OAR 690-315-0040(4)(e)].
 - a. None have been identified.
17. Other factors relevant to the determination of the market and present demand for water and power [OAR 690-315-0040(4)(f)].
 - a. None have been identified.

Fair Return Upon Investment [OAR 690-315-0040(2)(f)]

18. Use and income from the permitted water development results in reasonable returns upon the investment made to date.

Other Governmental Requirements [OAR 690-315-0040(2)(g)]

19. Delay in the development of this project was not caused by any other governmental requirements.

Unforeseen Events [OAR 690-315-0040(2)(h)]

20. None have been identified.

CONCLUSIONS OF LAW

1. The applicant is entitled to apply for an extension of time to complete construction and/or completely apply water to the full beneficial use pursuant to ORS 537.630(1).
2. The applicant has submitted a complete extension application form and the fee specified in ORS 536.050, as required by OAR 690-315-0040(1)(a).
3. The applicant complied with begin actual construction timeline requirements pursuant to ORS 537.630 as required by OAR 690-315-0040(1)(b) and OAR 690-315-0040(5).
4. Full application of water to beneficial use can be accomplished by October 1, 2012⁵, as required by OAR 690-315-0040(1)(c).

⁵Pursuant to ORS 537.630(4), upon the completion of beneficial use of water allowed under the permit, the permittee shall hire a certified water rights examiner to survey the appropriation. Within one year after the complete application of water to a beneficial use (or by the date allowed for the complete application of water to a beneficial use), the permittee shall submit a map of the survey and the claim of beneficial use.

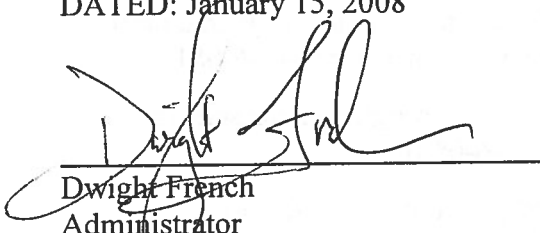
5. The Department has considered the reasonable diligence and good faith of the appropriator, the cost to appropriate and apply water to a beneficial purpose, the market and present demands for water to be supplied, the financial investment made and fair and reasonable return upon the investment, the requirements of other governmental agencies, and unforeseen events over which the permit holder had no control, whether denial of the extension will result in undue hardship to the applicant and whether there are no other reasonable alternatives for meeting water use needs, any other factors relevant to a determination of good cause, and has determined that the applicant has shown that good cause exists for an extension of time to apply water to full beneficial use pursuant to OAR 690-315-0040(1)(d).

Proposed Order

Based upon the foregoing Findings of Fact and Conclusions of Law, the Department proposes to issue an order to:

extend the time to apply water to beneficial use under Permit G-15437 from October 1, 2007 to October 1, 2012.

DATED: January 15, 2008


Dwight French
Administrator
Water Rights & Adjudications Division

*If you have any questions,
please check the information
box on the last page for the
appropriate names and
phone numbers.*

Proposed Final Order Hearing Rights

1. Under the provisions of OAR 690-315-0100(1) and 690-315-0060, the applicant or any other person adversely affected or aggrieved by the proposed final order may submit a written protest to the proposed final order. The written protest must be received by the Water Resources Department no later than **February 29, 2008**, being 45 days from the date of publication of the proposed final order in the Department's weekly notice.
2. A written protest shall include:
 - a. The name, address and telephone number of the petitioner;
 - b. A description of the petitioner's interest in the proposed final order and if the protestant claims to represent the public interest, a precise statement of the public interest represented;
 - c. A detailed description of how the action proposed in the proposed final order would adversely affect or aggrieve the petitioner's interest;

- d. A detailed description of how the proposed final order is in error or deficient and how to correct the alleged error or deficiency;
 - e. Any citation of legal authority supporting the petitioner, if known;
 - f. Proof of service of the protest upon the water right permit holder, if petitioner is other than the water right permit holder; and
 - g. The protest fee required under ORS 536.050, if petitioner is other than the water right permit holder.
3. Within 60 days after the close of the period for requesting a contested case hearing, the Director shall:
- a. Issue a final order on the extension request; or
 - b. Schedule a contested case hearing if a protest has been submitted, and:
 - 1) Upon review of the issues, the Director finds there are significant disputes related to the proposed agency action; or
 - 2) The applicant submits a written request for a contested case hearing within 30 days after the close of the period for submitting protests.

-
- If you have any questions about statements contained in this document, please contact Kim French at 503-986-0813.
 - If you have questions about how to file a protest or if you have previously filed a protest and you want to know the status, please contact Patricia McCarty at 503-986-0819.
 - If you have any questions about the Department or any of its programs, please contact our Water Resources Customer Service Group at 503-986-0801.
 - Address any correspondence to : Water Rights and Adjudications Division
725 Summer St NE, Suite A
Fax: 503-986-0901 Salem, OR 97301-1266
-

Mailing List for Extension PFO Copies

PFO Date: January 15, 2008

Copies Mailed

**Application G-15697
Permit G-15437**

By: CRS
On: 1/15/08

Original mailed to Applicant:

Bally Bandon Sheep Ranch
Attn: Phil Friedmann
875 North Michigan Ave, Ste 3928
Chicago, IL 60611

Copies sent to:

1. WRD - App. File G-15697/ Permit G-15437
2. WRD - Watermaster District 19, Mitch Lewis
3. Ron Blegen, CWRE, Golder Associates, 1430 W. Broadway, Suite 108, Tempe, AZ 85282

Fee paid as specified under ORS 536.050 to receive copy:

4. None

Receiving via e-mail (10 AM Tuesday of signature date)

5. None

CASEWORKER: KRF

FOR 2006

DATE Wed OCT 11 TIME 845 P.M.

FROM JUSTIN WERSON

FIRM _____

PHONE (503) 807 9319

FAX AREA CODE NUMBER EXTENSION

MOBILE GozDer Assoc AREA CODE NUMBER TIME TO CALL

TELEPHONED	<input checked="" type="checkbox"/> PLEASE CALL	
RETURNED YOUR CALL	WILL CALL AGAIN	
CAME TO SEE YOU	RUSH	<u>8 45</u>
WANTS TO SEE YOU	SPECIAL ATTENTION	
WAITING TO SEE YOU	HOLDING LINE	

MESSAGE EARLIER - PM -

SIGNED 503/ 807-9319 **Tops** FORM 4007 MADE IN U.S.A.

MESSAGE

FOR HJM 2006

DATE TUES 10-10 TIME 444 A.M.

FROM RON RUBEN

FIRM _____

PHONE (503) - 607 - 1820

FAX AREA CODE NUMBER EXTENSION

MOBILE TRAVEL AREA CODE NUMBER TIME TO CALL

TELEPHONED	<input checked="" type="checkbox"/> PLEASE CALL	<input checked="" type="checkbox"/>
RETURNED YOUR CALL	WILL CALL AGAIN	
CAME TO SEE YOU	RUSH	<u>COPY =</u>
WANTS TO SEE YOU	SPECIAL ATTENTION	
WAITING TO SEE YOU	HOLDING LINE	

MESSAGE DALLAS - THRU
GozDer Assoc. -

PERMIT G 15697
G 15437

SIGNED 503/ 607-1802 **Tops** FORM 4007 MADE IN U.S.A.

MESSAGE

APP G-15697

USER-ID 29308

2005

Oregon Water Resources Department
October 2005 through September 2006
Annual Water Use - Monthly Quantities Form

2006



Facility ID POD-ID	61398				
October - 2005	1090.400				
November - 2005					
December - 2005					
January - 2006					
February - 2006					
March - 2006					
April - 2006					
May - 2006	880.100 880.100				
June - 2006	827.565				
July - 2006	1,200.100				
August - 2006	1,117.840				
September - 2006	1,716.200				
TOTAL *	9,843.205				

RECEIVED

DEC 11 2006

WATER RESOURCES DEPT.
SALEM, OREGON

* Describe the units of measure in G (gallons), KG (thousand gallons), MG (million gallons), CF (cubic feet), MCF (million cubic feet), or AF (acre-foot)

Describe method of measuring the water used: Flow meter If use is irrigation, total number acres irrigated 10

I certify this information is true and accurate to the best of my knowledge.

[Signature]
Signature

SUPT.
Title

Reporting Entity

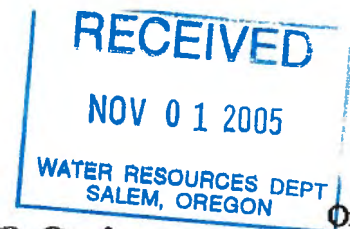
Dec-3-06
Date

Dennis Olson
Name - Please Print

Please complete and mail to: Water Resources Department, Water Use Reporting Program,
725 Summer Street NE, Suite A, Salem, OR 97301-1266

APP G 15697

Nov. 01 2005 04:32PM P1
FAX NO. :5412692358
FROM : Sheep Ranch



USER-ID 29308



2004

Oregon Water Resources Department
October 2004 through September 2005
Annual Water Use - Monthly Quantities Form

2005

Facility <input checked="" type="checkbox"/>	61398				
POD-ID <input type="checkbox"/>					
October - 2004	77436,200				
November - 2004	0				
December - 2004	0				
January - 2005	0				
February - 2005	0				
March - 2005	0				
April - 2005	0				
May - 2005	230,700				
June - 2005	857,200				
July - 2005	986,500				
August - 2005	1,006,700				
September - 2005	710,660				
TOTAL *	3791,760				

* Describe the units of measure as G (gallons), KG (thousand gallons), MG (million gallons), CF (cubic feet), MCF (million cubic feet), or AF (acre-feet)

Describe method of measuring the water used: Inline meter . If use is irrigation, total number acres irrigated 15

I certify this information is true and accurate to the best of my knowledge.

Dennis Olson
Signature

Superintendent
Title

Dennis Olson
Reporting Entity

11-1-05
Date

Dennis Olson
Name - Please Print

Please complete and mail to: Water Resources Department; Water Use Reporting Program;
725 Summer Street NE; Suite A, Salem, OR 97301-1271, or Fax 503-986-0902.

2003

Oregon Water Resources Department
October 2003 through September 2004
Annual Water Use - Monthly Quantities Form

USER-ID 29308

2004

APP 6710691



Facility <input checked="" type="checkbox"/>					
POD-ID <input type="checkbox"/>					
October - 2003	90,040 G				
November - 2003					
December - 2003					
January - 2004					
February - 2004					
March - 2004					
April - 2004					
May - 2004					
June - 2004	414,360 G				
July - 2004	733,500 G				
August - 2004	790,500 G				
September - 2004	443,900 G				
TOTAL *	2,417,230 G				

* Describe the units of measure as G (gallons), KG (thousand gallons), MG (million gallons), CF (cubic feet), MCF (million cubic feet), or AF (acre-feet)

Describe method of measuring the water used: Flow meter. If use is irrigation, total number acres irrigated 15

I certify this information is true and accurate to the best of my knowledge.

Dennis Olson
Signature

GOLF COURSE SUPT.
Title

Reporting Entity

Nov 2-2004
Date

Dennis Olson
Name - Please Print

Please complete and return to:
275 Summer Street

Water Resources Department
Salem, OR 97331
or Fax 503-986-0902

2002

Oregon Water Resources Department
October 2002 through September 2003
Annual Water Use - Monthly Quantities Form

70007 15697
USER-ID 29308

2003



Facility <input type="checkbox"/>					
POD-ID <input type="checkbox"/>					
October - 2002					
November - 2002					
December - 2002					RECEIVED
January - 2003					JAN 21 2004
February - 2003					WATER RESOURCES DEPT SALEM, OREGON
March - 2003	<i>Permit was approved 16 - 0 - 1 - 2003</i>				
April - 2003					
May - 2003	228,240	gal's			
June - 2003	753,600	gal's			
July - 2003	1,865,600	gal's			
August - 2003	806,500	gal's			
September - 2003	750,700	gal's			
TOTAL *					

* Describe the units of measure as G (gallons), KG (thousand gallons), MG (million gallons), CF (cubic feet), MCF (million cubic feet), or AF (acre-feet)

Describe method of measuring the water used: instantaneous & flow meter. If use is irrigation, total number acres irrigated 21

I certify this information is true and accurate to the best of my knowledge.

Dennis Olson
Signature

Golf Course Supt.
Title

Dennis Olson
Reporting Entity

1-5-2004
Date

Dennis Olson
Name - Please Print

Please complete and mail to: Water Resources Department; Water Use Reporting Program;
725 Summer Street NE, Suite A; Salem, OR 97301-1271



OREGON WATER RESOURCES DEPARTMENT SUMMARY OF WATER RIGHTS FOR WATER USE REPORT

Dear Water User: Water year 2003 has ended! All water use reports for October 2002 to September 2003 are requested to be submitted. We are a little late this year due to our efforts to develop a website from which you may submit your data, if you so choose. If you would like to test the new site go to the web address listed below. You will not need to mail in this completed form. This information is important for water management in Oregon. Please, complete the form on the reverse side for the water rights listed below by March 1, 2004. If you have questions, or need more time please, contact me at 503-986-0833. Thank you for your attention to this matter.
Mary Grainey



PHIL FRIEDMANN
BALLY BANDON SHEEP RANCH
PO BOX 1756
BANDON OR 97411

<http://stamp.wrd.state.or.us/apps/wr/wateruse/wateruse.php>

User-ID 29308
Password: 29308

61398	0 G 15437 G 15697	2/4/2002	IR L	27 S 14 W 20	NWSW	0.45 C 0	WELL 1A	WHISKY RUN CR
61399	0 G 15437 G 15697	2/4/2002	IR L	27 S 14 W 20	NWNW	0.45 C 0	WELL 2A	WHISKY RUN CR
61400	0 G 15437 G 15697	2/4/2002	IR L	27 S 14 W 20	NWSW	0.45 C 0	WELL 1B	WHISKY RUN CR
61401	0 G 15437 G 15697	2/4/2002	IR L	27 S 14 W 20	SEW	0.45 C 0	WELL 2B	WHISKY RUN CR
61402	0 G 15437 G 15697	2/4/2002	IR L	27 S 14 W 20	NENW	0.45 C 0	WELL 3B	WHISKY RUN CR
61403	0 G 15437 G 15697	2/4/2002	IR L	27 S 14 W 20	NWNE	0.45 C 0	WELL 4B	WHISKY RUN CR

TO: Water Rights Section APRIL 30, 2002
199
FROM: Groundwater/Hydrology Section D. Woodcock
SUBJECT: Application G- 15697 Reviewer's Name

GROUNDWATER/SURFACE WATER CONSIDERATIONS

1. PER THE _____ Basin rules, one or more of the proposed POA's is/is not within _____ feet/mile of a surface water source (_____) and taps a groundwater source hydraulically connected to the surface water.

2. BASED UPON OAR 690-09 currently in effect, I have determined that the proposed groundwater use
a. will, or _____ have the potential for substantial interference with the nearest
b. will not _____ surface water source, namely WHISKEY RUN; or
c. will if properly conditioned, adequately protect the surface water from interference:
 i. The permit should contain condition #(s) _____;
 ii. The permit should contain special condition(s) as indicated in "Remarks" below;
 iii. The permit should be conditioned as indicated in item 4 below; or
d. will, with well reconstruction, adequately protect the surface from substantial interference.

GROUNDWATER AVAILABILITY CONSIDERATIONS

46961

3. BASED UPON available data, I have determined that groundwater for the proposed use
a. will, or _____ likely be available in the amounts requested without injury to prior rights
b. will not _____ and/or within the capacity of the resource; or
c. will if properly conditioned, avoid injury to existing rights or to the groundwater resource:
 i. The permit should contain condition #(s) 7B;
 ii. The permit should contain special condition(s) as indicated in "Remarks" below;
 iii. The permit should be conditioned as indicated in item 4 below; or

4. a. THE PERMIT should allow groundwater production from no deeper than _____ ft. below land surface;
b. The permit should allow groundwater production from no shallower than _____ ft. below land surface;
c. The permit should allow groundwater production only from the _____ groundwater reservoir between approximately _____ ft and _____ ft. below land surface;
d. Well reconstruction is necessary to accomplish one or more of the above conditions.
e. One or more POA's commingle 2 or more sources of water. The applicant must select one source of water per POA and specify the proportion of water to be produced from each source.

REMARKS: _____

(Well Construction Considerations on Reverse Side)

WELL CONSTRUCTION (If more than one well doesn't meet standards, attach an additional sheet.)

5. THE WELL which is the point of appropriation for this application does not meet current well construction standards based upon:
- a. ___ review of the well log;
 - b. ___ field inspection by _____;
 - c. ___ report of CWRE _____;
 - d. ___ other: (specify) _____
6. THE WELL construction deficiency:
- a. ___ constitutes a health threat under Division 200 rules;
 - b. ___ commingles water from more than one groundwater reservoir;
 - c. ___ permits the loss of artesian head;
 - d. ___ permits the de-watering of one or more groundwater reservoirs;
 - e. ___ other: (specify) _____
7. THE WELL construction deficiency is described as follows: _____
8. THE WELL
- a. ___ was, or constructed according to the standards in effect at the time of
 - b. ___ was not original construction or most recent modification.
 - c. ___ I don't know if it met standards at the time of construction.

RECOMMENDATION:

- A. ___ I recommend including the following condition in the permit:
"No water may be appropriated under terms of this permit until the well(s) has been repaired to conform to current well construction standards and proof of such repair is filed with the Enforcement Section of the Water Resources Department."
- B. ___ I recommend withholding issuance of the permit until evidence of well reconstruction is filed with the Enforcement Section of the Water Resources Department.
- C. ___ REFER this review to Enforcement Section for concurrence.

THIS SECTION TO BE COMPLETED BY ENFORCEMENT PERSONNEL

I concur in G/H's recommendation A or B above relating to conditioning or withholding the permit

_____, 199__
(Signature)

I do not concur in G/H's recommendation A or B above relating to conditioning or withholding the permit for the following reasons: _____

_____, 199__
(Signature)

WATER RESOURCES DEPARTMENT MEMORANDUM

To: Groundwater/Hydrology
 From: Doug Woodcock
 Subject: GW Application G-15697

April 30, 2002

Applicant: Bally Bandon Sheep Ranch
 From: 2 drilled wells in S. Coast Basin
 Proposed Use: Irr of 359.2 ac (golf course)

Seek: 200 gpm

Quad Name: Bullards

Well 1 (coos 52219) 27S/14W-20 NWSW Coos County

2550 ft N and 900 ft E of the SW Cor Sec 20

Well is 1150 ft from unnamed trib to Whisky Run

Well is 1400 ft from Whisky Run

Well elevation is 122.56 ft TOC surveyed (NAVD 1988)

Whisky Run elevation is ~50 ft

Well depth is 110 ft w/ 56 ft swl on 12/20/01

Well 2 (coos 52220) 27S/14W-20 NWNW Coos County

5200 ft N and 850 ft E of the SW Cor Sec 20

Well is 1650 ft from unnamed trib to Whisky Run

Well is 3500 ft from Whisky Run

Well elevation is 121.05 ft TOC surveyed (NAVD 1988)

Whisky Run elevation is ~50 ft

Well depth is 78 ft w/ 30.4 ft swl on 12/21/01

Evaluation Summary

The proposed use is for irrigation of a golf course (which is already constructed). The wells are constructed in elevated marine sands of the Whisky Run terrace and the older Pioneer terrace. The sands are poorly indurated and lie upon wave-cut platforms of rhythmically bedded Eocene siltstones and sandstones. The primary aquifer is the terrace sands, as there is little to no usable water contained in the Eocene rock. Golder Associates found an average hydraulic conductivity of ~100 ft²/d in the terrace sands to the south of Coquille River. Ground water storage values from aquifer tests were 0.01 to 1.4x10⁻⁴ (unconfined to partially confined).

The property is bounded on the west by the Pacific Ocean and by Whisky Run to the south. Other owners control the properties to the east and north. The small-unnamed drainage that flows west and then south to Whisky Run has its origin in the Pioneer terrace and gains water from those sands. Whisky Run also surfaces from the terrace sands but is more deeply incised, flowing on bedrock near the mouth.

The two wells were mislocated on the application map but were properly located by site visit and survey. Well 1 is within ¼ mi of the unnamed creek. Although the heads in the wells appear to be lower than the unnamed creek, this is likely a function of falling head with depth in the flow system. (In the terraces to the south the head in a well will always be deeper than the head in an adjacent sump.) Comparing the water levels in the two wells, the horizontal gradient is towards Whisky Run.

Division 09 assumes the potential for substantial interference when a well taps unconfined ground water and is within ¼ mi of surface water. Accounting for the potential partial confinement, a Jenkins Analysis was run to evaluate surface water depletion. Jenkins is appropriate because Whisky Run fully penetrates the aquifer. Though there is a lateral boundary to the west, Jenkins should underestimate interference because of an assumption of no boundaries. With even the higher storage of 0.01, a distance of 3500 ft had potential to cause substantial interference. With additional information (i.e., aquifer test) it may be possible to develop water outside of 3000 ft or so.

The potential for well-to-well interference is not clearly known as there are domestic ground water users to the north, but the distance to those wells is unknown.

Recommendation:

Potential for substantial interference exists with this application.

References:

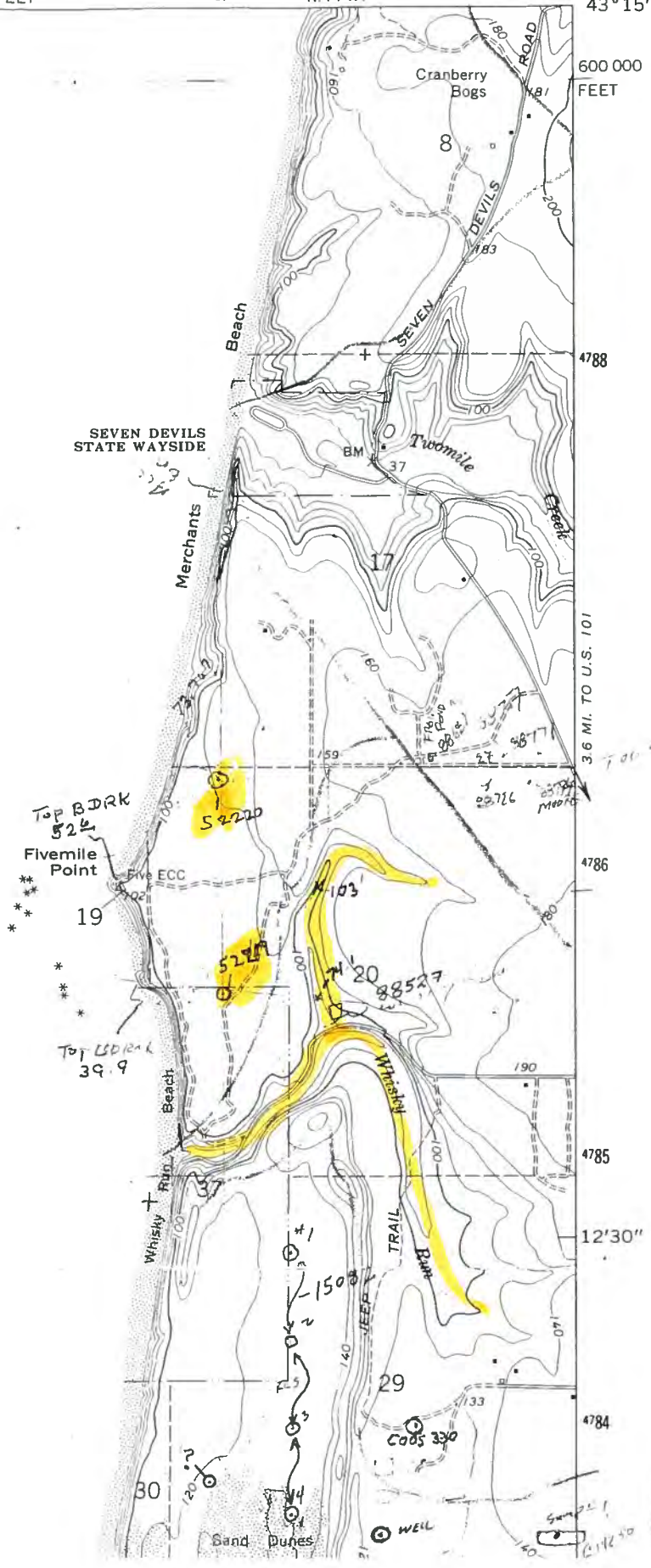
GRID-Web database, OWRD; Phase One Groundwater Report Study Report, Golder Assoc., 1996; Bandon Pump Test Results –Revision 1 – Draft Memorandum, Golder Assoc., 2000; Environmental Geology of Western Coos and Douglas Counties, Oregon, Bulletin 87, DOGAMI, 1975; Unpublished survey data from Bally Bandon Sheep Ranch, Tom Hoshall, Stuntzner Engineering, 2002.

BULLARDS QUADRANGLE
 OREGON - COOS CO.
 7.5 MINUTE SERIES (TOPOGRAPHIC)
 NW/4 BANDON 15' QUADRANGLE

1170 IV SE
 (CHARLESTON)

25' 960 000 FEET 387 R. 14 W. 388 124° 22' 30" 43° 15'

600 000 FEET



○ Well
 ○ Swamp
 □ RDS.

JAN 10 2002

27-14-20

STATE OF OREGON WATER SUPPLY WELL REPORT (as required by ORS 537.765)

WATER RESOURCES DEPT. SALEM, OREGON

WELL I.D. # 51164

START CARD # 123874

Instructions for completing this report are on the last page of this form.

(1) OWNER: Well Number 808 Name Bally Bandon Sheep Ranch Address PO Box 1756 City Bandon State OR Zip 97411

(9) LOCATION OF WELL by legal description: County COOS Latitude Longitude Township 27 N or S Range 14 E or W W.M. Section 400 NW 1/4 SW 1/4 Tax Lot 400 Lot Block Subdivision Street Address of Well (or nearest address) Whiskey Run Rd. Bandon

(2) TYPE OF WORK [X] New Well [] Deepening [] Alteration (repair/recondition) [] Abandonment

(3) DRILL METHOD: [] Rotary Air [X] Rotary Mud [] Cable [] Auger [] Other

(4) PROPOSED

[] Domestic [] Thermal

(5) BORE HOLE

Special Construction Explosives used [] HOLE

Table with columns Diameter, From, To. Rows: 14" 0, 12 1/4" 20, 6" 89

How was seal placed

[X] Other Bents

Backfill placed from

Gravel placed from

(6) CASING/LINER

Table with columns Diameter, Casing, Liner. Rows: 8", 8", 10" (Protect)

Final location of shoe(s)

(7) PERFORATION

[] Perforations [X] Screens

Table with columns From, To, Size. Row: 66' 81' 10"

(8) WELL TESTS: M

Table with columns Yield gal/min, Dra. Row: 73, 100'

Temperature of water 52° Depth Artesian Flow Found Was a water analysis done? [X] Yes By whom BWS Did any strata contain water not suitable for intended use? [] Too little [] Salty [] Muddy [] Odor [] Colored [] Other Depth of strata:

Bandon Well & Septic Co., Inc.

(10) STATIC WATER LEVEL: face. Date 12/20/01 lb. per square inch. Date ES:

Met w/ Jay Kenyon 6-18-01 RE: Bally Bandon

- TEES & GREENS LIKELY ONLY AVERAGE WATERED (~10 AC)

- A FEW HUNDRED GPM NECESSARY +/- 100' ~ 108

- ONLY GOING TO USE WELLS NORTH OF WHISKEY RUN

- EXPLORATION SHOULD BEGIN IN EARLY JULY

- SCRATCH #7 WELL TO EAST OF PROPERTY

- ALL WATER USE (IRR) WILL BE WEST OFF N-S ACCESS ROAD

Pacific Dunes - WHERE IS THE PERMIT AMENDMENT?

Table with columns To, Estimated Flow Rate, SWL. Row: 3, 100, 56

Table with columns From, To, SWL. Rows: 0 2, 2 8, 8 10, 10 25, 25 26, 26 60, 60 64, 64 70, 70 80, 80 82, 82 83, 83 110

Completed 12/20/01 Construction, alteration, or abandonment of supply well construction standards are true to the best of my knowledge

Signed [Signature] WWC Number 1759 Date 11/10/02

(bonded) Water Well Constructor Certification: I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.

Signed [Signature] WWC Number 1493 Date 11/7/02

well 2

STATE OF OREGON
GEOTECHNICAL HOLE REPORT
(as required by OAR 690-240-035)

Coos
52220

(Pg 1)

(1) OWNER/PROJECT: Hole Number 810
Name Bally Bandon Sheep Ranch
Address PO Box 1756
City Bandon State OR Zip 97411

(2) TYPE OF WORK
 New Deepening Alteration (repair/recondition) Abandonment

(3) CONSTRUCTION:
 Rotary Air Hand Auger Hollow Stem Auger
 Rotary Mud Cable Tool Push Probe Other

(4) TYPE OF HOLE:
 Uncased Temporary Cased Permanent
 Uncased Permanent Slope Stability Other

(5) USE OF HOLE: Formation Samples

(6) BORE HOLE CONSTRUCTION:
Special Construction approval Yes No Depth of Completed Hole 78' ft.

HOLE			SEAL			Sacks or pounds
Diameter	From	To	Material	From	To	
6"	0	78	Cement	0	78	25x
			Bentonite	0	35	18.5x

Backfill placed from _____ ft. to _____ ft. Material _____
Filter Pack placed from _____ ft. to _____ ft. Size of pack _____

(7) CASING/SCREEN:
Diameter From To Gauge Steel Plastic Welded Threaded
Casing: 2" +1 35 Scr40
Screen: _____
Slot size _____

(8) WELL TEST:
 Pump Bailer Air Flowing Artesian
Permeability _____ Yield _____ GPM _____
Conductivity _____ PH _____
Temperature of water _____ °F/C Depth artesian flow found _____ ft.
Was water analysis done? Yes No
By whom? _____
Depth of strata analyzed. From _____ ft. to _____ ft.
Remarks: _____

(9) LOCATION OF HOLE by legal description:
County Coos Latitude _____ Longitude _____
Township 27 N or S Range 14 E or W. W.M. _____
Section 20 1/4 1/4 1/4 1/4
Tax Lot 100 Lot _____ Block _____ subdivision _____
Street Address of Well (or nearest address) Whiskey Run Rd Bandon

Map with location identified must be attached

(10) STATIC WATER LEVEL:
30'5" ft. below land surface. Date 12/21/01
Artesian pressure _____ lb. per square inch. Date _____

(11) SUBSURFACE LOG:
Ground Elevation +1-100' 120'

Material Description	From	To	SWL
Topsoil	0	1	
Sand Fine brown	1	3	
Sand Fine Tan	3	12	
Clay brown	12	14	
Sandy Clay Tan	14	15	
Sand Fine Tan	15	18	
Sandy Clay white	18	20	
Sand Fine Tan	20	30	

Continued on Page #2
Date Started 11/29/01 Date Completed 12/21/01

(12) ABANDONMENT LOG:

Material Description	From	To	Sacks or Pounds

Date started _____ Date Completed _____

Professional Certification
(to be signed by a licensed water supply or monitoring well constructor, or Oregon registered geologist or civil engineer).

I accept responsibility for the construction, alteration, or abandonment work performed during the construction dates reported above. All work performed during this time is in compliance with Oregon's geotechnical hole construction standards. This report is true to the best of my knowledge and belief.

License or Registration Number 1493

Signed Jim Mack Sr MGCWC Date 1/7/02

Affiliation Bandon Well & Septic Co inc

THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

ORIGINAL - WATER RESOURCES DEPARTMENT FIRST COPY - CONSTRUCTOR SECOND COPY - CUSTOMER

STATE OF OREGON
GEOTECHNICAL HOLE REPORT
 (as required by OAR 690-240-035)

(Pg 2)

COOS
52220

(1) OWNER/PROJECT: Hole Number 810
 Name Billy Bandon Sheep Ranch
 Address PO Box 1756
 City Bandon State OR Zip 97411

(2) TYPE OF WORK
 New Deepening Alteration (repair/recondition) Abandonment

(3) CONSTRUCTION:
 Rotary Air Hand Auger Hollow Stem Auger
 Rotary Mud Cable Tool Push Probe Other

(4) TYPE OF HOLE:
 Uncased Temporary Cased Permanent
 Uncased Permanent Slope Stability Other

(5) USE OF HOLE:

(6) BORE HOLE CONSTRUCTION:
 Special Construction approval Yes No Depth of Completed Hole _____ ft.

HOLE			SEAL			Sacks or pounds
Diameter	From	To	Material	From	To	

Backfill placed from _____ ft. to _____ ft. Material _____
 Filter Pack placed from _____ ft. to _____ ft. Size of pack _____

(7) CASING/SCREEN:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Screen:					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Slot size	_____							

(8) WELL TEST:
 Pump Bailer Air Flowing Artesian
 Permeability _____ Yield _____ GPM
 Conductivity _____ PH _____
 Temperature of water _____ °F/C Depth artesian flow found _____ ft.
 Was water analysis done? Yes No
 By whom? _____
 Depth of strata analyzed. From _____ ft. to _____ ft.
 Remarks: _____

(9) LOCATION OF HOLE by legal description:
 County Coos Latitude _____ Longitude _____
 Township 27 N or S Range 14 E or W. W.M.
 Section 20 1/4 NW 1/4
 Tax Lot 100 Lot _____ Block _____ Subdivision _____
 Street Address of Well (or nearest address) Whiskey Run Rd. Bandon

Map with location identified must be attached

(10) STATIC WATER LEVEL:
 _____ ft. below land surface. Date _____
 Artesian pressure _____ lb. per square inch. Date _____

(11) SUBSURFACE LOG:
 Ground Elevation _____

Material Description	From	To	SWL
Sand Fine-med Tan	30	37	
Sandy Clay brn w/sand Fine	37	45	
Peat Brown	45	46	
Wood w/sand Fine brown	46	48	
Sand Fine-med tan	48	53	
Gravel med. cks Brn Red w/sand	53	60	
Sand Fine w/gravel Fine cks Gray	60	65	
Sandy Clay Gray	65	66	
Claystone Gray	66	78	

Date Started 11/29/01 Date Completed 12/21/01

(12) ABANDONMENT LOG:

Material Description	From	To	Sacks or Pounds

Date started _____ Date Completed _____

Professional Certification
 (to be signed by a licensed water supply or monitoring well constructor, or Oregon registered geologist or civil engineer).
 I accept responsibility for the construction, alteration, or abandonment work performed during the construction dates reported above. All work performed during this time is in compliance with Oregon's geotechnical hole construction standards. This report is true to the best of my knowledge and belief.
 License or Registration Number 1493
 Signed Jim Meckel MGCW Date 1/7/02
 Affiliation Bandon Well + Septic Co. Inc.

THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

ORIGINAL - WATER RESOURCES DEPARTMENT FIRST COPY - CONSTRUCTOR SECOND COPY - CUSTOMER

Stream Depletion Analysis:

Written by Karl C. Wozniak (OWRD) 7/1/91; last modified 1/18/98.

References: Theis (1941), Jenkins (1968), Jenkins (1970), Walton (1984), and Wilson and Linderfelt (1991).

See bottom of worksheet for detailed references and model assumptions.

y = Coordinate axis perpendicular to stream

x = Coordinate axis parallel to stream

0,0 = Coordinate of Stream at Perpendicular to Well

Model calculates:

1. Transient Stream Depletion (Theis, 1941; Jenkins, 1970)
2. Steady-State induced infiltration (Wilson & Linderfelt, 1991)
3. Head distribution along a line perpendicular to stream at a distance y from well at a specified time

Input Data:

Variable	Name	Minimum	"Best"	Maximum
Well Owner or Well Number	Well		BALLY BANDON	
X Coord. for X-Section (Head Distribution)	x		0	
Perpendicular Distance From Well to Stream	a		3,500	
Net Steady Pumping Rate	Q		100	
Hydraulic Conductivity	K	600	800	1,000
Aquifer Thickness	b	15	15	15
Well Depth	d		110	
Storativity	S		0.01000	
Effective porosity	n		0.25000	
Hydr. Grad. Perpend. to Stream (must be > 0)	i	0.00095	0.00095	0.00095
Time Since Pumping Started	time		30.00	

Output Data:

General Output:				
Transmissivity	T	9,000	12,000	15,000
Hydraulic Conductivity	K	600	800	1,000
		80	107	134
		2.81E-04	3.75E-04	4.69E-04
Average linear velocity	ALV	0.30	0.41	0.51
		110.98	147.97	184.96
Ambient Flux at River per Foot	dQ	0.0059	0.0079	0.0099

Transient Stream Depletion Output:

k	SDTr_k	0.8484	0.6363	0.5091
Transient Stream Depletion (Theis/Jenkins)	SDTr	19%	26%	31%
Transient Induced Infiltration (Theis/Jenkins)	IITr			

Steady-State Stream Depletion:

Dimensionless Pumping Rate ($\beta \geq 1 \implies$ velocity divide has reached stream)	Beta, β	1.54	1.15	0.92
SQRT(Beta-1)		0.73	0.39	0.00
Critical pumping rate	Qc	65	87	108
Dist. fr Well to Velocity Divide at Steady State	r _{vd}	3500	3500	2522
Steady-State Stream Depletion (Wilson & Linderfelt)		100%	100%	100%
Steady-State Induced Infiltration (Wilson & Linderfelt)		10%	2%	0%

Unit
[ft]
[ft]
[gpm]
[gpd/ft*ft]
[ft]
[ft]
[days]

[gpd/ft]
[gpd/ft*ft]
[ft/day]
[m/s]
[ft/day]
[ft/yr]
[gpm/ft]

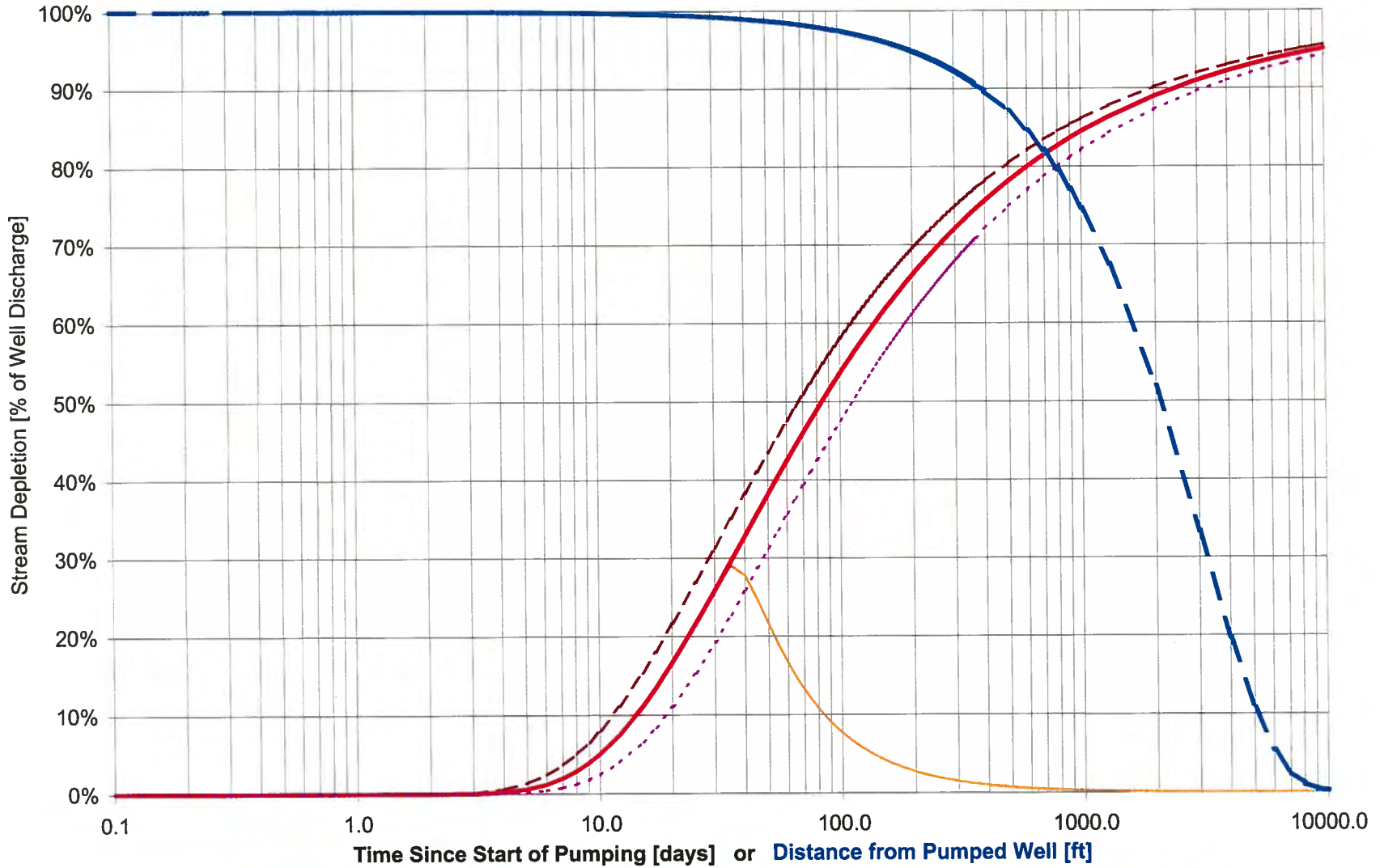
[gpm]
[ft]

Q = 100 gpm K Max = 1,000 gpd/ft*ft
a = 3500 ft K = 800 gpd/ft*ft
S = 0.0100 K Min = 600 gpd/ft*ft
t = 30.00 days

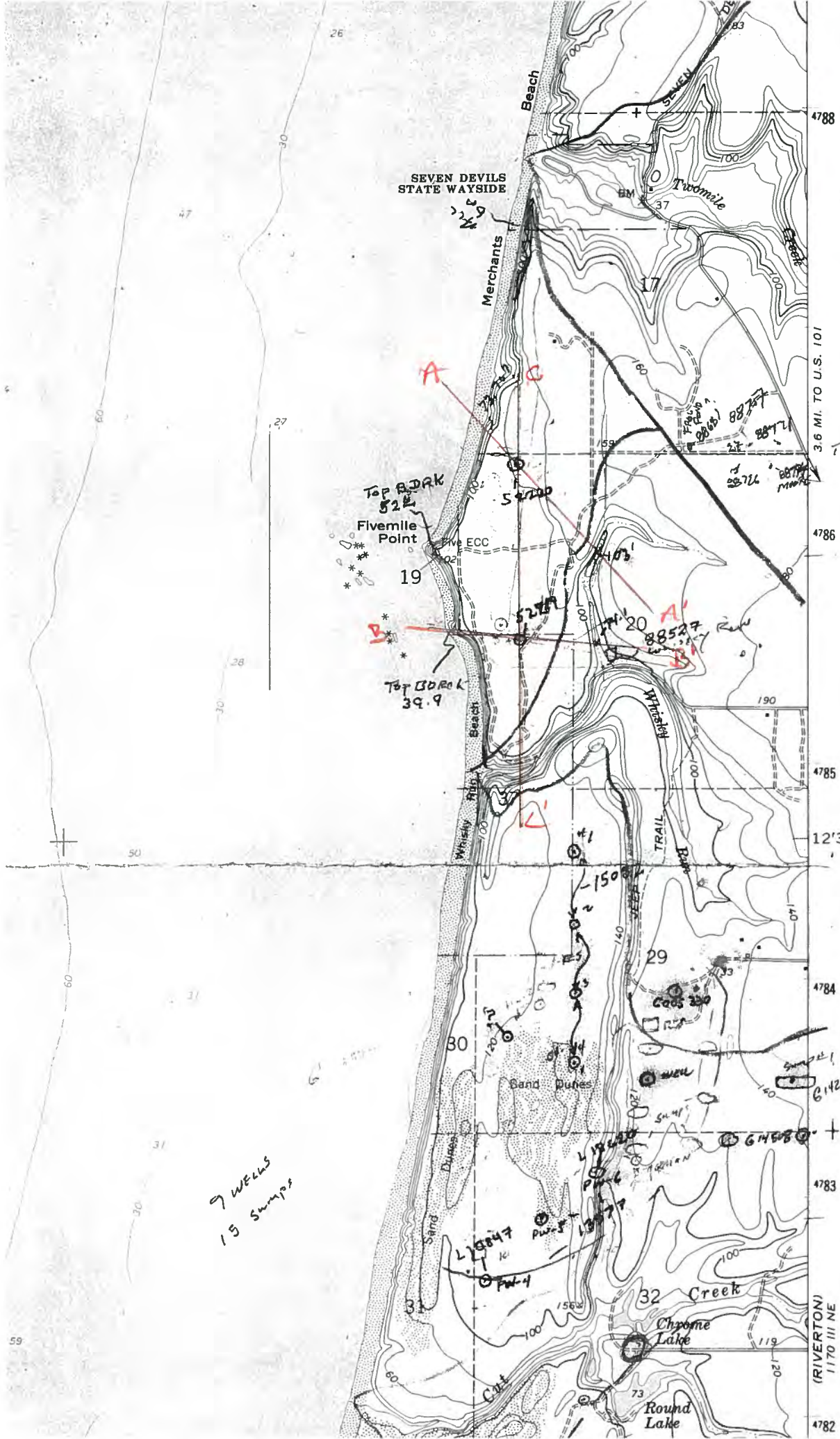
BALLY BANDON

T Max = 15,000 gpd/ft
T = 12,000 gpd/ft
T Min = 9,000 gpd/ft

Transient Stream Depletion = 26% at t = 30.00 days



— Residual SD - - - Max SD — SD ···· Min SD - · - · SD vs a



SEVEN DEVILS STATE WAYSIDE

Merchants Beach

Beach

TOP BARK
52.4

Fivemile Point

TOP BARK
39.9

Whiskey Run Beach

Sand Dunes

32 Creek

Chrome Lake

Round Lake

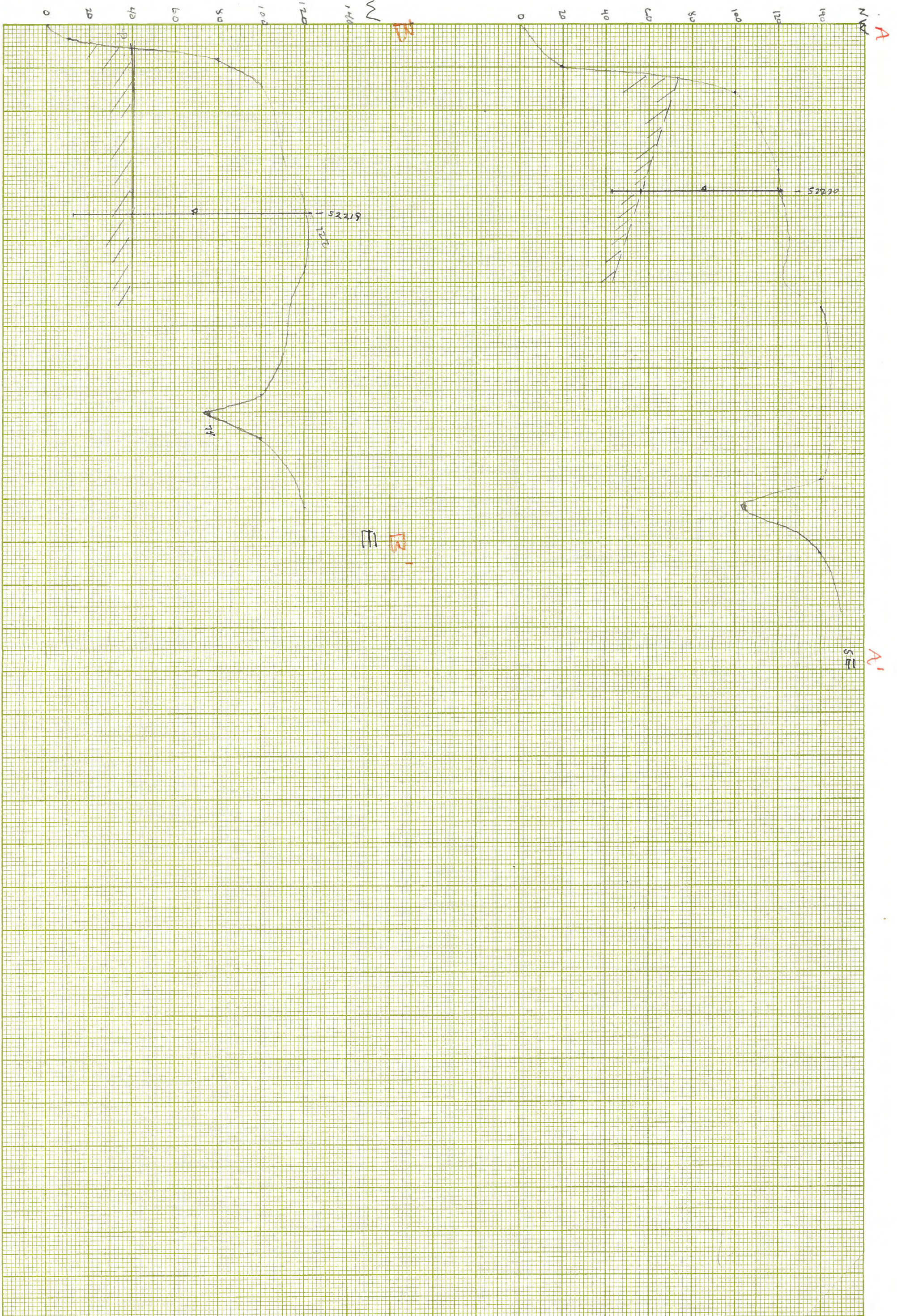
4788
4786
4785
4784
4783
4782

7 WELLS
15 Sumps

○ well
○ sump
□ RES.

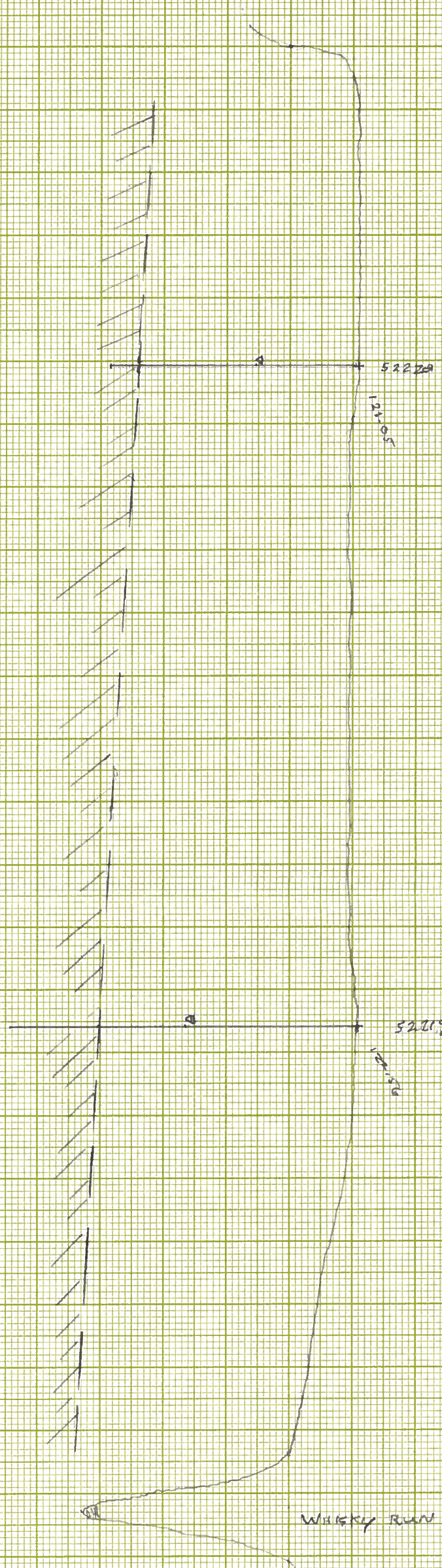
3.6 MI. TO U.S. 101

(RIVERTON)
1170 III NE



0 20 40 60 80 100 120 140

N



S

SEVEN DEVILS
STATE WAYSIDE

Marquette

Five Mile
Point

19

Waisley
Beach

Beach

SEVEN

Five Mile

Five Mile

BM
272

SEVEN

SEVEN

Five Mile
Beach

TRAIL

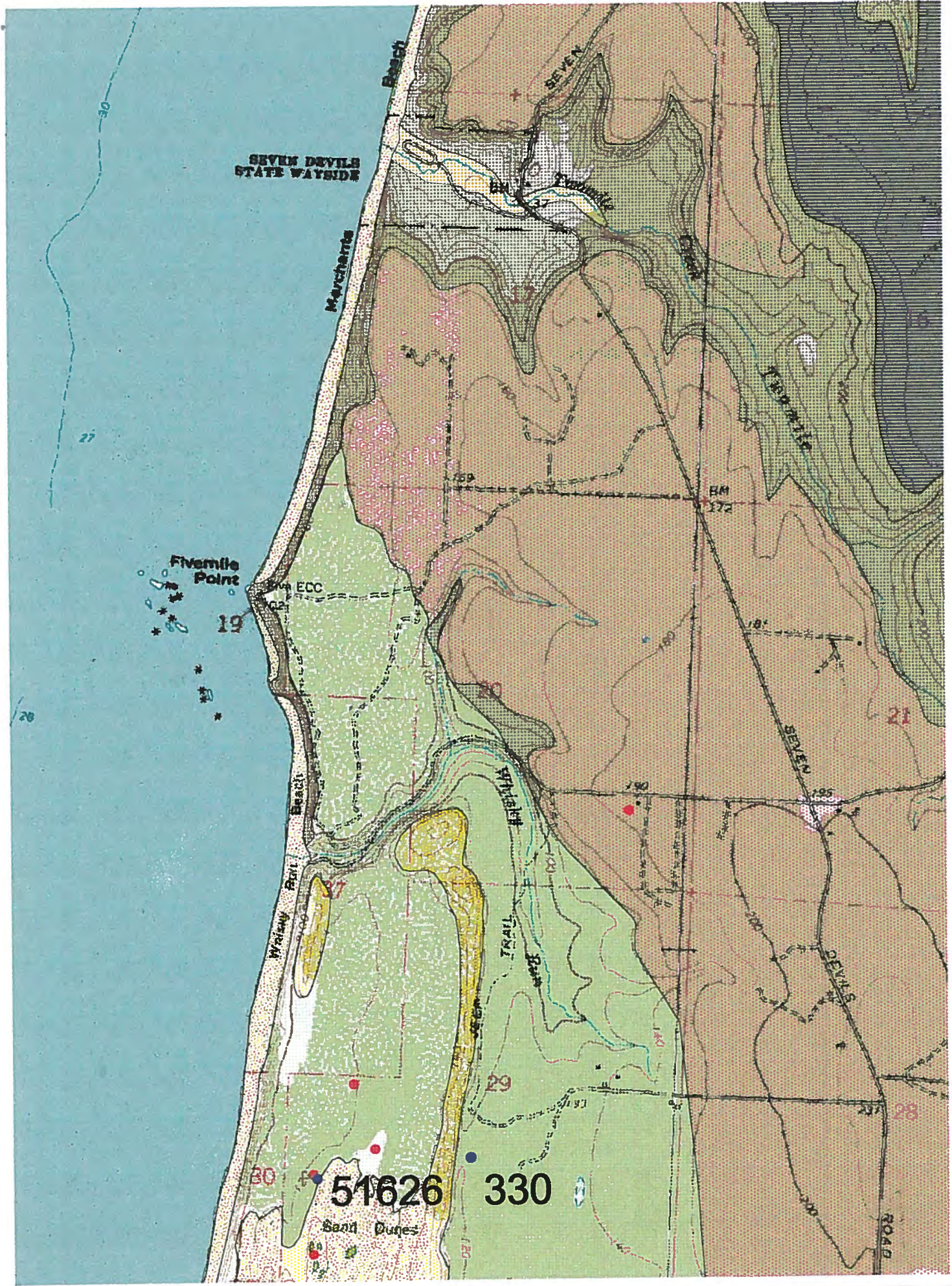
29

ROAD

51626

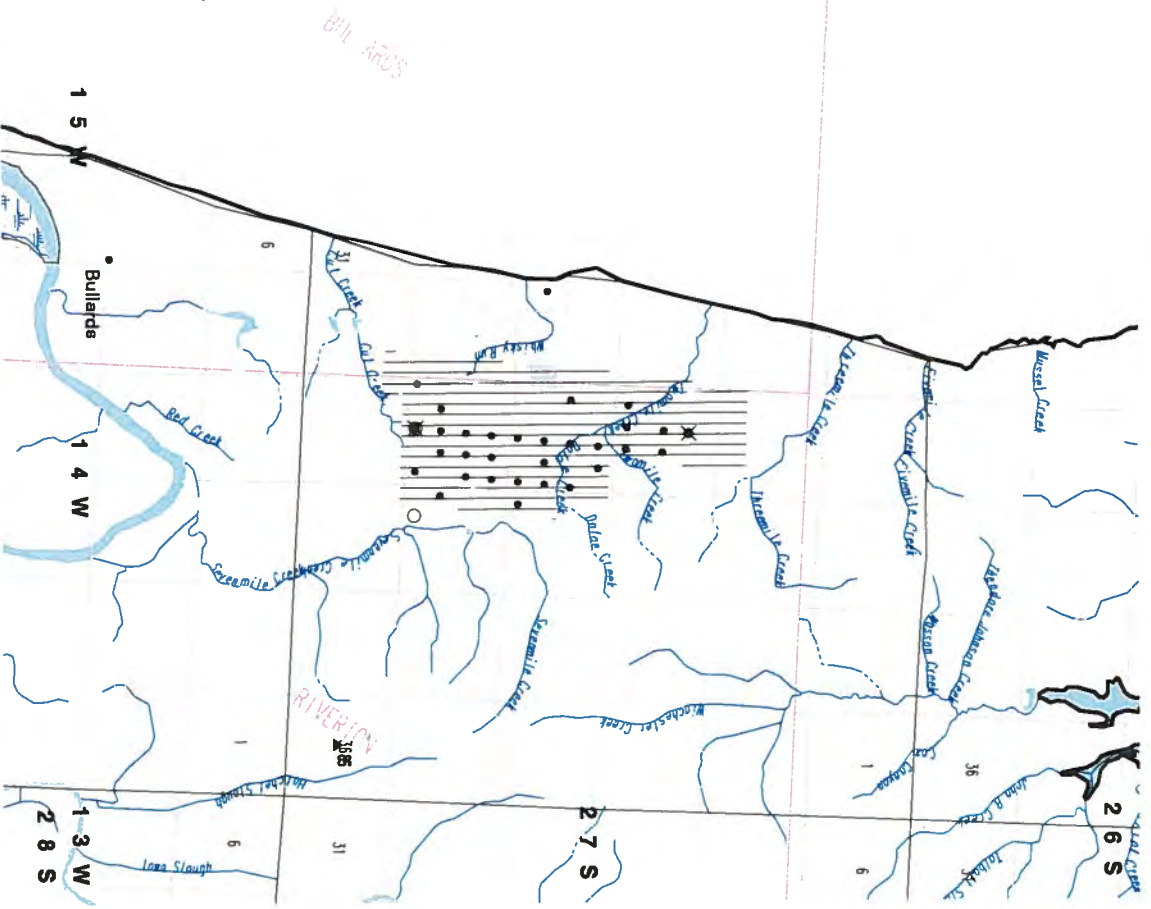
330

Sand Dunes



Wells in the vicinity of application G 15697

- Application well(s) in this 1/4-1/4 section
- Well(s) identified in this section from OWRD's well log database within 1 mi. radius of application well(s)
- Well(s) identified in this 1/4-1/4 section from OWRD's well log database within 1 mi. radius of application well(s)
- Permitted well(s) in this 1/4-1/4 section within 1 mi. radius of application well(s)
- Conditioned, permitted well(s) in this 1/4-1/4 section within 5 mi. radius of application well(s)
- OWRD Observation well and well-id within 5 mi. radius of application well(s)
- Critical GW Area
- Regulated GW Area



WELLS WITHIN 1 MILE OF G 15697
DO 113

PERMITTED WELLS WITHIN 1 MILE OF APPLICATION G 15697

\$RECNO	APPLICATION	PERMIT	LOC-QQ	USE	RATE	DIV-UNITS
1	G	11506	G 10618	27.00S14.00W17SWNE IR	0.0110	C
2	G	14238	G 12806	27.00S14.00W29SESE CR	0.0400	C

CONDITIONED WELLS WITHIN 5 MILES OF APPLICATION G 15697

\$RECNO	APPLICATION	PERMIT	LOC-QQ	CONDITION-CODE
1	G	14238	G 12806	27.00S14.00W29SESE 7BG
1	G	14238	G 12806	27.00S14.00W29SESE 7BR
2	G	14238	G 12806	27.00S14.00W28SESE 7BG
2	G	14238	G 12806	27.00S14.00W28SESE 7BR

APPLICATION G 15697 FALLS WITHIN THESE QUAD(S)

BULLARDS

RIVERTON

**Water Right Conditions
Tracking Slip**

Groundwater/Hydrology Section

FILE #:: G - ~~15679~~ 15697

ROUTED TO: WATER RIGHTS

TOWNSHIP/

RANGE-SECTION: 27S/14W-20

CONDITIONS ATTACHED? []yes []no

REMARKS OR FURTHER INSTRUCTIONS:

Reviewer: D. Woodcock

**STATE OF OREGON
INNER-OFFICE MEMO**

TO: Jonnine Fuss
FROM: ANITA HUFFMAN
DATE: May 16, 2003
SUBJECT: FO and Withdrawal/refund

Jonnine, could you please get the FO for G-15697 mailed/processed and then process a withdrawal order for G-15920.

Application G-15920 is withdrawn per the settlement agreement for application G-15697 signed 5/13/03. Please make sure to make a copy of the settlement agreement for both files.

\$175 from G-15920 is to be transferred to G-15697 and the balance (\$225) is to be refunded to Phil Friedmann. There is no big hurry on the refund/withdrawal, but please mail the settlement agreement/permit ASAP.

If you have any questions at all, please let me know.

Thanks!

cc: FILES

Mailing List for FO Copies

Application #g-15697

Mailing List Print Date: May 15, 2003

Original mailed to(when permit issued, include copy of permit map):

Applicant: BALLY BANDON SHEEP RANCH, PHIL FRIEDMANN, PO BOX 1756, BANDON, OR 97411

Copies Mailed	
By:	<u>[Signature]</u> (SUPPORT STAFF)
on:	<u>5/19/03</u> (DATE)

For FO w/Permit - Copies sent to:

1. WRD - File # G-15697
2. WRD - Ken Stahr

For FO w/ Permit - FO w Permit and Map Copies sent to (Remember to reduce copy margins):

3. WRD - Data Center
4. WRD - Watermaster District #:19
5. WRD - Regional Manager: SWR

For FO w/Draft Permit, w/Permit, or for Denial - Copies to Other Interested Persons (*CWRE, Agent, Well Driller, Commenter, etc.*)

1. _David Banton, Golder & Assoc., 18300 NE Union Hill Rd, STE 200, Redmond, WA 98052-3333
2. _____
3. _____

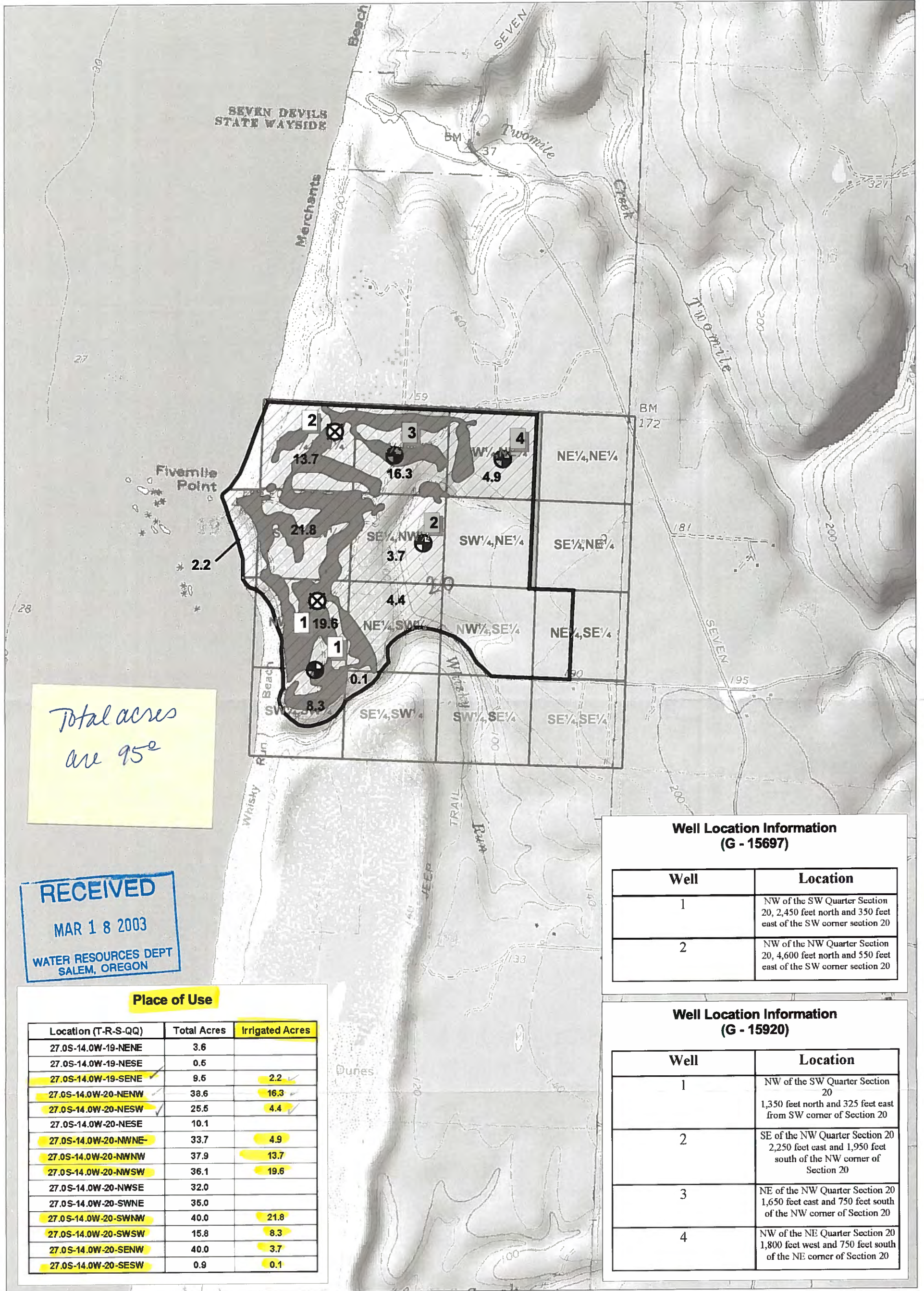
For FO w/Draft Permit or w/Permit - "\$10 LETTER" sent to Interested Persons who have not protested or paid for copies

1. _____
2. _____

CASEWORKER: amh

REMINDER TO CASEWORKER:

If this application has a fish screening requirement, include a copy of the ODFW fish screen requirement sheet at
s:\groups\wr\Resource Center -
permits\forms\general\fishscreencriteria.wpd



Total acres
are 95^e

RECEIVED
MAR 18 2003
WATER RESOURCES DEPT
SALEM, OREGON

Place of Use

Location (T-R-S-QQ)	Total Acres	Irrigated Acres
27.0S-14.0W-19-NENE	3.6	
27.0S-14.0W-19-NESE	0.6	
27.0S-14.0W-19-SENE	9.6	2.2
27.0S-14.0W-20-NENW	38.6	16.3
27.0S-14.0W-20-NESW	25.5	4.4
27.0S-14.0W-20-NESE	10.1	
27.0S-14.0W-20-NWNE	33.7	4.9
27.0S-14.0W-20-NWNW	37.9	13.7
27.0S-14.0W-20-NWSW	36.1	19.6
27.0S-14.0W-20-NWSE	32.0	
27.0S-14.0W-20-SWNE	35.0	
27.0S-14.0W-20-SWNW	40.0	21.8
27.0S-14.0W-20-SWSW	15.8	8.3
27.0S-14.0W-20-SENW	40.0	3.7
27.0S-14.0W-20-SESW	0.9	0.1

Well Location Information (G - 15697)

Well	Location
1	NW of the SW Quarter Section 20, 2,450 feet north and 350 feet east of the SW corner section 20
2	NW of the NW Quarter Section 20, 4,600 feet north and 550 feet east of the SW corner section 20

Well Location Information (G - 15920)

Well	Location
1	NW of the SW Quarter Section 20, 1,350 feet north and 325 feet east from SW corner of Section 20
2	SE of the NW Quarter Section 20, 2,250 feet east and 1,950 feet south of the NW corner of Section 20
3	NE of the NW Quarter Section 20, 1,650 feet east and 750 feet south of the NW corner of Section 20
4	NW of the NE Quarter Section 20, 1,800 feet west and 750 feet south of the NE corner of Section 20

LEGEND

- Place of Use
- PLSS Quarter, Quarter Sections
- Proposed Irrigation Wells (G-15920)
- Proposed Irrigation Wells (G-15697)



0 1320
Scale 1" = 1320 Feet
Map Projection:
Oregon State Plane, NAD 83,
South Zone, Feet
Source: Regional Ecosystem
Organization

Site Map With Proposed Irrigation Areas

BALLY BSR/GROUNDWATER SERVICES/OR

Drawn: ATB	Revision: 4	Date: Mar. 17, 2003	Figure: 1
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app# G-15697 Permit # G-15437



Oregon

Theodore R. Kulongoski, Governor

Water Resources Department

Commerce Building
158 12th Street NE
Salem, OR 97301-4172
503-378-3739
FAX 503-378-8130

May 5, 2003

Phil Friedmann
Bally Bandon Sheep Ranch
PO Box 1756
Bandon, OR 97411

Re: Application G-15697 settlement

Dear Mr. Friedmann:

Please find enclosed a revised settlement agreement and draft permit to resolve your protest to the Proposed Final Order the Oregon Water Resources Department ("Department") issued for Application G-15697. I have made the changes requested by David Banton.

If you are satisfied with the settlement agreement, please sign it and return it to me. The Department will then issue you a permit consistent with the draft permit and settlement agreement.

If you have any questions, please contact me. My telephone number is (503) 378-8455, extension 236.

Sincerely,

Kimberly Grigsby
Agency Representative

enclosure

c: David Banton



BEFORE THE OREGON WATER RESOURCES DEPARTMENT

In the Matter of Water Right Application)
G-15697 in the Name of Bally Bandon)
Sheep Ranch and Phil Friedmann,)
 Applicant and Protestant)

SETTLEMENT
AGREEMENT

The Oregon Water Resources Department (“OWRD”) and Bally Bandon Sheep Ranch/Phil Friedmann (“Applicant”) do hereby stipulate and agree as follows:

Background

- I. On February 4, 2002, Applicant submitted an application to OWRD for 0.44 cubic feet per second (“cfs”) of water from two wells in the Whisky Run Creek Basin, for irrigation of 359.2 acres in Coos County.
- II. On November 12, 2002, OWRD issued a Proposed Final Order (“PFO”) recommending denial of application G-15697. The PFO stated that the proposed groundwater use would have the potential for substantial interference with Whisky Run Creek and that groundwater would not be available in the amounts requested without injury to prior rights and/or within the capacity of the resource. The PFO also found that water was not available at any time of the year.
- III. On December 20, 2002, Applicant submitted a timely protest to the PFO for application G-15697 challenging OWRD’s water availability analysis for Whiskey Run Creek and proposing OWRD issue a permit for the application with a condition requiring a monitoring plan.
- IV. On November 18, 2002, Applicant provided OWRD with a “Report on Pumping Test Bally Bandon Sheep Ranch Irrigation Well” prepared by Golder Associates Inc. After reviewing the report, OWRD concluded that the water availability model significantly underestimates stream flows in Whiskey Run Creek in late summer and early fall and that such flows probably exceed 1.5 cfs during this period at least 80 percent of the time, however, stream flow measurements were needed to verify this conclusion. Consequently, OWRD concluded that if stream flows in summer exceed 1.5 cfs at least 80 percent of the time, then water is available for appropriation for the proposed use as well as the instream water right.
- V. On March 3, 2003, Golder Associates Inc. sent a letter to OWRD on behalf of Applicant, requesting amendment of Application G-15697. The letter requested reduction of the area to be irrigated from 359.2 acres to 95 acres and the addition of four additional points of appropriation under this right to include the four wells identified in Application G-15920. The additional wells appropriate water from the same aquifer as those wells initially included in Application G-15697. Finally, the letter clarified the annual quantity of water requested and stated that

the instantaneous rate of appropriation from all six wells combined would remain at 200 gpm. OWRD also received Applicant's map locating all six wells.

- VI. On March 18, 2003, OWRD received Applicant's map indicating the total acreage to be irrigated under the proposed use to be 95.0 acres.
- VII. OWRD and Applicant agree that the issues raised in Applicant's protest can be resolved solely on the following terms.

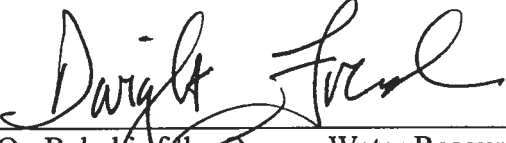
Terms of the Agreement

1. The parties of this Settlement Agreement waive the opportunity to file exceptions to this Final Order Incorporating Settlement Agreement and any right to judicial review of this agreement and final order.
2. In signing this Settlement Agreement, Applicant withdraws its protest against the PFO for application G-15967 and withdraws its request for a contested case hearing.
3. In signing this Settlement Agreement, Applicant withdraws Application G-15920.
4. The Department shall issue a permit consistent with the attached draft permit and including the following conditions:
 - a. Applicant is to pay for the installation and operation of a continuous record gaging station at a suitable location near the mouth of Whiskey Run Creek. The gaging station is to be run for no less than five years, and the data collected to the USGS standard. The record from this gaging station will be used to define the 80-percent exceedance natural streamflow for Whiskey Run Creek. If the Department determines at the end of five years that streamflow is insufficient to meet the demands of the instream water right and the proposed use, the gaging station will be continued in operation at the applicant's expense for the purpose of regulating the use of water in Whiskey Run Creek according to the prior appropriation doctrine. If the Department determines at the end of five years that the streamflow in Whiskey Run Creek is sufficient to meet the demands of the instream water right and the proposed use, the applicant may discontinue operation of the gaging station.
 - b. Prior to use of water under this permit, the permittee shall obtain OWRD approval for a plan to monitor and report the impacts of this use on water levels within the aquifer utilized under this permit. The plan shall include locating two or more dedicated observation wells between the permitted wells and offsite wells to address water level impacts on senior ground water users.

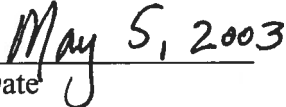
5. The parties agree to entry of the Final Order Incorporating Settlement Agreement and issuance of a permit consistent with the attached draft permit.

Phil Friedmann
Bally Bandon Sheep Ranch

Date



On Behalf of the Oregon Water Resources
Department



Date

DRAFT

This is not a permit!!!
STATE OF OREGON

DRAFT

COUNTY OF COOS

DRAFT PERMIT TO APPROPRIATE THE PUBLIC WATERS

THIS DRAFT PERMIT IS HEREBY ISSUED TO

PHIL FRIEDMANN for BALLY BANDON SHEEP RANCH
PO BOX 1756
BANDON, OREGON 97411

(541) 530-6839

The specific limits and conditions of the use are listed below.

APPLICATION FILE NUMBER: G-15697

SOURCE OF WATER: SIX WELLS IN WHISKY RUN CREEK BASIN

PURPOSE OR USE: IRRIGATION OF 95.0 ACRES

MAXIMUM RATE: 0.45 CUBIC FOOT PER SECOND

PERIOD OF USE: MARCH 1 THROUGH OCTOBER 31

DATE OF PRIORITY: FEBRUARY 4, 2002

WELL LOCATIONS:

WELL #1A NW ¼ SW ¼, SECTION 20, T27S, R14W, W.M.; 2450 FEET
NORTH & 350 FEET EAST FROM SW CORNER, SECTION 20

WELL #2A NW ¼ NW ¼, SECTION 20, T27S, R14W, W.M.; 4600 FEET
NORTH & 550 FEET EAST FROM SW CORNER, SECTION 20

WELL #1B NW ¼ SW ¼, SECTION 20, T27S, R14W, W.M.; 1,350 FEET
NORTH & 325 FEET EAST FROM SW CORNER, SECTION 20

WELL #2B SE ¼ NW ¼, SECTION 20, T27S, R14W, W.M.; 1950 FEET
SOUTH & 2250 FEET EAST FROM NW CORNER, SECTION 20

WELL #3B NE ¼ NW ¼, SECTION 20, T27S, R14W, W.M.; 750 FEET SOUTH
& 1650 FEET EAST FROM NW CORNER, SECTION 20

WELL #4B NW ¼ NE ¼, SECTION 20, T27S, R14W, W.M.; 750 FEET SOUTH
& 1800 FEET WEST FROM NE CORNER, SECTION 20

Application G-15697 Water Resources Department

PERMIT DRAFT

years, and the data collected to the USGS standard. The record from this gaging station will be used to define the 80-percent exceedance natural streamflow for Whiskey Run Creek. If it is determined at the end of five years that streamflow is insufficient to meet the demands of the instream water right and the proposed use, the gaging station will be continued in operation at the applicant's expense for the purpose of regulating the use of water in Whiskey Run Creek according to the prior appropriation doctrine. If it is determined at the end of five years that streamflow is sufficient to meet the demands of the instream water right and the proposed use, the gaging station will be discontinued.

Prior to use of water under this permit, the permittee shall obtain OWRD approval for a plan to monitor and report the impacts of this use on water levels within the aquifer utilized under this permit. The plan shall include locating two or more dedicated observation wells between the permitted wells and offsite wells to address water level impacts on senior ground water users.

STANDARD CONDITIONS

If substantial interference with a senior water right occurs due to withdrawal of water from any well listed on this permit, then use of water from the well(s) shall be discontinued or reduced and/or the schedule of withdrawal shall be regulated until or unless the Department approves or implements an alternative administrative action to mitigate the interference. The Department encourages junior and senior appropriators to jointly develop plans to mitigate interferences.

The wells shall be constructed in accordance with the General Standards for the Construction and Maintenance of Water Wells in Oregon. The works shall be equipped with a usable access port, and may also include an air line and pressure gauge adequate to determine water level elevation in the well at all times.

The use shall conform to such reasonable rotation system as may be ordered by the proper state officer.

Prior to receiving a certificate of water right, the permit holder shall submit the results of a pump test meeting the department's standards, to the Water Resources Department. The Director may require water level or pump test results every ten years thereafter.

accepting an offer to purchase that real estate, also inform the purchaser in writing whether any permit, transfer approval order, or certificate evidencing the water right is available and that the seller will deliver any permit, transfer approval order or certificate to the purchaser at closing, if the permit, transfer approval order or certificate is available.

CULTURAL RESOURCES PROTECTION LAWS: Permittees involved in ground-disturbing activities should be aware of federal and state cultural resources protection laws. ORS 358.920 prohibits the excavation, injury, destruction or alteration of an archeological site or object, or removal of archeological objects from public and private lands without an archeological permit issued by the State Historic Preservation Office. 16 USC 470, Section 106, National Historic Preservation Act of 1966 requires a federal agency, prior to any undertaking to take into account the effect of the undertaking that is included on or eligible for inclusion in the National Register. For further information, contact the State Historic Preservation Office at 503-378-4168, extension 232.

KimG

From: Banton, David [DBanton@golder.com]
Sent: Thursday, April 24, 2003 10:26 AM
To: Kimberly Grigsby (E-mail)
Cc: Philip Friedmann (E-mail)
Subject: Comments on Bally Bandon Settlement Agreement

Kim

Thank you for sending me the draft agreement. As promised, here are some corrections to the document.

1. The spelling of Mr. Friedmann's name is with two n's. Mr. Friedmann's name is spelt correctly on the Draft Permit, but not on the Settlement Agreement.
2. Item IV - Background references application G-15218. This is not an application by Mr. Friedmann for Bally Bandon. Please delete this paragraph.
3. Item V - Background. The correct reference is "Golder Associates Inc." (not Golder and Associates).
4. Item 4. a. (Terms of Agreement) - "Application" is to pay for the installationshould be "Applicant". Suggest the addition of the following at the end of this paragraph - "If it is determined at the end of five years that streamflow is sufficient to meet the demands of the instream water right and the proposed use, the gaging station will be discontinued".
5. Partial paragraph - top of page 3, line 4 on Draft Permit. The word "of" is spelt "fo". Please add the same language in Item 4 above to this paragraph.

I note that the agreement refers to "Whisky Creek Basin" in some paragraphs and "Whisky Run Creek" elsewhere. I want to make sure the Department is using the correct terminology for the creek and the basin. For example, Paragraph I of the Settlement Agreement says that the wells are in the Whisky Creek Basin, but the Draft Permit says that the wells are in the Whisky Run Creek Basin. Can you check and confirm how the basin and creek should be identified.

If you have any questions, please give me a call

Thank you
David

David Banton, L.HG.
Principal Hydrogeologist
Golder Associates Inc.
Tel: (425) 883-0777
Fax: (425) 882-5498
Cell: (425) 503-9331

<<http://www.golder.com/>>

BEFORE THE OREGON WATER RESOURCES DEPARTMENT

In the Matter of Water Right Application)	
G-15697 in the Name of Bally Bandon	)	SETTLEMENT
Sheep Ranch and Phil Friedman	)	AGREEMENT
<i>Applicant and Protestant</i>)	

The Oregon Water Resources Department (“OWRD”) and Bally Bandon Sheep Ranch/Phil Friedman (“Applicant”) do hereby stipulate and agree as follows:

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- III. On December 20, 2002, Applicant submitted a timely protest to the PFO for application G-15697 challenging OWRD’s water availability analysis for Whiskey Run Creek and proposing OWRD issue a permit for the application with a condition requiring a monitoring plan.
- IV. Pursuant to Applicant’s protest, OWRD’s Groundwater/Hydrology section conducted a second assessment of application G-15218 on January 29, 2002. This assessment included consideration of Applicant’s April 20, 2001, request to reduce the application to 60 gpm. The second assessment found that, if properly conditioned, the proposed use would avoid injury to existing rights or the groundwater resource, but continued to find that the groundwater use would have the potential for substantial interference with an unnamed tributary to the Long Tom River.
- V. On November 18, 2002, Applicant provided OWRD with a “Report on Pumping Test Bally Bandon Sheep Ranch Irrigation Well” prepared by Golder and Associates. After reviewing the report, OWRD concluded that the water availability model significantly underestimates stream flows in Whiskey Run Creek in late summer and early fall and that such flows probably exceed 1.5 cfs during this period at least 80 percent of the time, however, stream flow measurements were needed to verify this conclusion. Consequently, OWRD concluded that if stream flows in summer exceed 1.5 cfs at least 80 percent of the

time, then water is available for appropriation for the proposed use as well as the instream water right.

- VI. On March 3, 2003, Golder Associates Inc. sent a letter to OWRD on behalf of Applicant, requesting amendment of Application G-15697. The letter requested reduction of the area to be irrigated from 359.2 acres to 95 acres and the addition of four additional points of appropriation under this right to include the four wells identified in Application G-15920. The additional wells appropriate water from the same aquifer as those wells initially included in Application G-15697. Finally, the letter clarified the annual quantity of water requested and stated that the instantaneous rate of appropriation from all six wells combined would remain at 200 gpm. OWRD also received Applicant's map locating all six wells.
- VII. On March 18, 2003, OWRD received Applicant's map indicating the total acreage to be irrigated under the proposed use to be 95.0 acres.
- VIII. OWRD and Applicant agree that the issues raised in Applicant's protest can be resolved solely on the following terms.

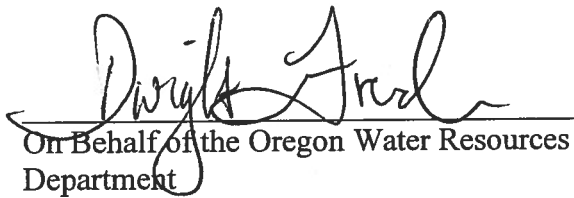
Terms of the Agreement

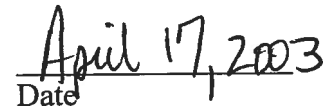
1. The parties of this Settlement Agreement waive the opportunity to file exceptions to this Final Order Incorporating Settlement Agreement and any right to judicial review of this agreement and final order.
2. In signing this Settlement Agreement, Applicant withdraws its protest against the PFO for application G-15967 and withdraws its request for a contested case hearing.
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- b. Prior to use of water under this permit, the permittee shall obtain OWRD approval for a plan to monitor and report the impacts of this use on water levels within the aquifer utilized under this permit. The plan shall include locating two or more dedicated observation wells between the permitted wells and offsite wells to address water level impacts on senior ground water users.
4. The parties agree to entry of the Final Order Incorporating Settlement Agreement and issuance of a permit consistent with the attached draft permit.

Phil Friedman
Bally Bandon Sheep Ranch

Date


On Behalf of the Oregon Water Resources
Department


Date

DRAFT

This is not a permit!!!

DRAFT

STATE OF OREGON

COUNTY OF COOS

DRAFT PERMIT TO APPROPRIATE THE PUBLIC WATERS

THIS DRAFT PERMIT IS HEREBY ISSUED TO

PHIL FRIEDMANN for BALLY BANDON SHEEP RANCH
PO BOX 1756
BANDON, OREGON 97411

(541) 530-6839

The specific limits and conditions of the use are listed below.

APPLICATION FILE NUMBER: G-15697

SOURCE OF WATER: SIX WELLS IN WHISKY RUN CREEK BASIN

PURPOSE OR USE: IRRIGATION OF 95.0 ACRES

MAXIMUM RATE: 0.45 CUBIC FOOT PER SECOND

PERIOD OF USE: MARCH 1 THROUGH OCTOBER 31

DATE OF PRIORITY: FEBRUARY 4, 2002

WELL LOCATIONS:

WELL #1A NW ¼ SW ¼, SECTION 20, T27S, R14W, W.M.; 2450 FEET
NORTH & 350 FEET EAST FROM SW CORNER, SECTION 20

WELL #2A NW ¼ NW ¼, SECTION 20, T27S, R14W, W.M.; 4600 FEET
NORTH & 550 FEET EAST FROM SW CORNER, SECTION 20

WELL #1B NW ¼ SW ¼, SECTION 20, T27S, R14W, W.M.; 1,350 FEET
NORTH & 325 FEET EAST FROM SW CORNER, SECTION 20

WELL #2B SE ¼ NW ¼, SECTION 20, T27S, R14W, W.M.; 1950 FEET
SOUTH & 2250 FEET EAST FROM NW CORNER, SECTION 20

WELL #3B NE ¼ NW ¼, SECTION 20, T27S, R14W, W.M.; 750 FEET SOUTH
& 1650 FEET EAST FROM NW CORNER, SECTION 20

WELL #4B NW ¼ NE ¼, SECTION 20, T27S, R14W, W.M.; 750 FEET SOUTH
& 1800 FEET WEST FROM NE CORNER, SECTION 20

Application G-15697 Water Resources Department

PERMIT DRAFT

The amount of water used for irrigation under this right, together with the amount secured under any other right existing for the same lands, is limited to a diversion of ONE-EIGHTIETH of one cubic foot per second (or its equivalent) and 2.5 acre-feet for each acre irrigated during the irrigation season of each year.

THE PLACE OF USE IS LOCATED AS FOLLOWS:

SE $\frac{1}{4}$ NE $\frac{1}{4}$ 2.2 ACRES

SECTION 19

NW $\frac{1}{4}$ NE $\frac{1}{4}$ 4.9 ACRES

NE $\frac{1}{4}$ NW $\frac{1}{4}$ 16.3 ACRES

NW $\frac{1}{4}$ NW $\frac{1}{4}$ 13.7 ACRES

SW $\frac{1}{4}$ NW $\frac{1}{4}$ 21.8 ACRES

SE $\frac{1}{4}$ NW $\frac{1}{4}$ 3.7 ACRES

NE $\frac{1}{4}$ SW $\frac{1}{4}$ 4.4 ACRES

NW $\frac{1}{4}$ SW $\frac{1}{4}$ 19.6 ACRES

SW $\frac{1}{4}$ SW $\frac{1}{4}$ 8.3 ACRES

SE $\frac{1}{4}$ SW $\frac{1}{4}$ 0.1 ACRES

SECTION 20

TOWNSHIP 27 SOUTH, RANGE 14 WEST, W.M.

Measurement, recording and reporting conditions:

- A. Before water use may begin under this permit, the permittee shall install a meter or other suitable measuring device as approved by the Director. The permittee shall maintain the meter or measuring device in good working order, shall keep a complete record of the amount of water used each month and shall submit a report which includes the recorded water use measurements to the Department annually or more frequently as may be required by the Director. Further, the Director may require the permittee to report general water use information, including the place and nature of use of water under the permit.
- B. The permittee shall allow the watermaster access to the meter or measuring device; provided however, where the meter or measuring device is located within a private structure, the watermaster shall request access upon reasonable notice.

Applicant is to pay for the installation and operation of a continuous record gaging station at a suitable location near the mouth of Whiskey Run Creek. The gaging station is to be run for no less than five

years, and the data collected to the USGS standard. The record from this gaging station will be used to define the 80-percent exceedance natural streamflow for Whiskey Run Creek. If it is determined at the end of five years that streamflow is insufficient to meet the demands of the instream water right and the proposed use, the gaging station will be continued in operation at the applicant's expense for the purpose of regulating the use of water in Whiskey Run Creek according to the prior appropriation doctrine.

Prior to use of water under this permit, the permittee shall obtain OWRD approval for a plan to monitor and report the impacts of this use on water levels within the aquifer utilized under this permit. The plan shall include locating two or more dedicated observation wells between the permitted wells and offsite wells to address water level impacts on senior ground water users.

STANDARD CONDITIONS

If substantial interference with a senior water right occurs due to withdrawal of water from any well listed on this permit, then use of water from the well(s) shall be discontinued or reduced and/or the schedule of withdrawal shall be regulated until or unless the Department approves or implements an alternative administrative action to mitigate the interference. The Department encourages junior and senior appropriators to jointly develop plans to mitigate interferences.

The wells shall be constructed in accordance with the General Standards for the Construction and Maintenance of Water Wells in Oregon. The works shall be equipped with a usable access port, and may also include an air line and pressure gauge adequate to determine water level elevation in the well at all times.

The use shall conform to such reasonable rotation system as may be ordered by the proper state officer.

Prior to receiving a certificate of water right, the permit holder shall submit the results of a pump test meeting the department's standards, to the Water Resources Department. The Director may require water level or pump test results every ten years thereafter.

Failure to comply with any of the provisions of this permit may result in action including, but not limited to, restrictions on the use, civil penalties, or cancellation of the permit.

This permit is for the beneficial use of water without waste. The water user is advised that new regulations may require the use of best practical technologies or conservation practices to achieve this end.

By law, the land use associated with this water use must be in compliance with statewide land-use goals and any local acknowledged land-use plan.

The use of water shall be limited when it interferes with any prior surface or ground water rights.

The Director finds that the proposed use(s) of water described by this permit, as conditioned, will not impair or be detrimental to the public interest.

Complete application of the water to the use shall be made on or before October 1, 2007. If the water is not completely applied before this date, and the permittee wishes to continue development under the permit, the permittee must submit an application for extension of time, which may be approved based upon the merit of the application.

Within one year after complete application of water to the proposed use, the permittee shall submit a claim of beneficial use, which includes a map and report, prepared by a Certified Water Rights Examiner (CWRE).

Issued _____, 2003

DRAFT - THIS IS NOT A PERMIT

Paul R. Cleary, Director
Water Resources Department

REAL ESTATE TRANSACTIONS: Pursuant to ORS 537.330, in any transaction for the conveyance of real estate that includes any portion of the lands described in this permit, the seller of the real estate shall, upon accepting an offer to purchase that real estate, also inform the purchaser in writing whether any permit, transfer approval order, or certificate evidencing the water right is available and that the seller will deliver any permit, transfer approval order or certificate to the

purchaser at closing, if the permit, transfer approval order or certificate is available.

CULTURAL RESOURCES PROTECTION LAWS: Permittees involved in ground-disturbing activities should be aware of federal and state cultural resources protection laws. ORS 358.920 prohibits the excavation, injury, destruction or alteration of an archeological site or object, or removal of archeological objects from public and private lands without an archeological permit issued by the State Historic Preservation Office. 16 USC 470, Section 106, National Historic Preservation Act of 1966 requires a federal agency, prior to any undertaking to take into account the effect of the undertaking that is included on or eligible for inclusion in the National Register. For further information, contact the State Historic Preservation Office at 503-378-4168, extension 232.

KimG

From: Anita M Huffman [Anita.M.HUFFMAN@wrd.state.or.us]
Sent: Wednesday, April 09, 2003 10:57 AM
To: kimberly Grigsby
Subject: Bally Bandon

Kim, I've looked over file G-15697 and I believe we can go forward with a favorable outcome on this file.

I've marked the conditions Doug and Dwight want on any permit we might issue under G-15697. The map provided now meets requirements, and I think we can go ahead now. I'm not sure if we can 'combine' both files, meaning allowing the six wells on one permit. It's pretty gray to me as to how we'd interpret OAR 690-310-240(3) and the question of enlargement. Application G-15920 is adding four additional wells, but not increasing the total Q, only clarifying the total annual yield. I'd suggest talking it over with Dwight as to whether or not to allow the proposed permit under G-15697 to have all six wells or only the two identified on the latest map.

Hope this is clear enough...I think we definitely can go forward now with a conditioned, favorable proposed settlement for G-15697.

I've put both files in your in box.

Golder Associates Inc.

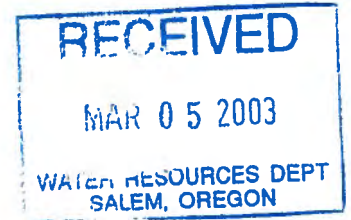
18300 NE Union Hill Road, Suite 200
Redmond, WA USA 98052-3333
Telephone (425) 883-0777
Fax (425) 882-5498
www.golder.com



Our Ref.: 023-1206.003

March 3, 2003

Water Rights Section
Oregon Water Resources Department
158 12th Street, N.E.
Salem, OR 97301



Attention: Doug Woodcock

RE: BALLY BANDON WATER RIGHT APPLICATIONS – NUMBERS G-15697 AND G-15920

Dear Doug:

This letter is in response to your telephone call to me on February 24, 2003. You requested that I clarify Bally Bandon's requested water needs.

1. Irrigated Area and Quantity/Instantaneous Rate

Bally Bandon Sheep Ranch (Applicant) intends to irrigate approximately 95 acres of pasture and turf grass as shown on the attached map. The area to be irrigated is part of the 359.2 acres of land owned by the Applicant that is documented in both water right applications.

Based on a water duty of 2.5AF/acre, the requested annual quantity is 237.5 acre-feet (AF). This is the total water requested from the two applications. The first application (G-15697) incorrectly requested only 37.5 AF of irrigation water.

The Applicant requests a total instantaneous rate from all wells combined of 200 gpm. The Applicant intends to install between four and six wells to provide the required instantaneous rate and annual quantity. The locations of the wells are shown on Figure 1. This figure shows the two wells requested under Application G-15697 and the four wells requested under Application G-15920.

2. Application Amendments

We request that Application G-15697 be amended with the information on irrigated area, pumping rate and annual quantity given in 1), above.

We request that Application G-15920 be placed on Administrative hold pending the outcome with regard to Application G-15697. We reserve the right to re-instate Application G-15920 if Application G-15697 is not issued to meet the Bally Bandon's needs.

If you have any questions, or require additional information, please give me a call.



Sincerely,

GOLDER ASSOCIATES INC.



David Banton
Principal Hydrogeologist



Attachments:

Site Map

Irrigated Area Map

cc: Mr. P. Friedmann, w/attachments

db/db

V:\PROJECTS\2002 PROJECTS\023-1206 BALLY BANDON_BANTON\TASK 003\WRD LETTER WATER RIGHTS CONSOLIDATION 03-03-03.DOC

To: "Anita HUFFMAN \ (E-mail \)" <Anita.M.HUFFMAN@wrd.state.or.us>
Subject: Bally Bandon Condition

Hi Anita-

Here is some language that gets me comfortable with GW use on this terrace.
I'll bring the application down to you.

GW Condition:

Prior to use under this permit, the permittee shall submit a plan to monitor and report the impacts this use will have on water levels within the aquifer that provides water to the permitted wells and adjacent ground water users. The plan shall address both onsite and offsite impacts and shall be subject to approval by the Department.

Doug

Douglas Woodcock
Hydrogeologist
Oregon Water Resources Department
158 12th St NE
Salem, Or 97301

Voicemail: 503-378-8455 x208
FAX: 503-378-2496
Email: woodcode@wrd.state.or.us

Golder Associates
18300 NE Union Hill Road, Suite 200
Redmond, WA 98052-3333
Telephone (425) 883-0777
Fax (425) 882-5498



TRANSMITTAL LETTER

DATE: March 4, 2003

PROJECT NO.: 023-1206.003

TO: WaterRights Section
Oregon Water Resources Department
158 – 12th Street NE
Salem, OR 97301
(503) 378-8455 x208

Attention: Doug Woodcock

Recycled Paper Greetings
3636 N. Broadway Street
Chicago, IL 60613-4488
(773) 348-6410

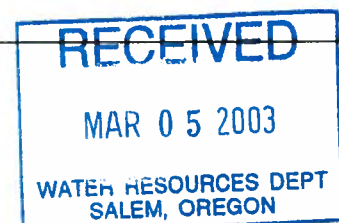
Attention: Mr. Phillip Friedmann

SENT VIA:

- Federal Express
- U.S. Mail
- Courier
- Hand Delivery
- Other: _____

QUANTITY	ITEM	DESCRIPTION
1	Document	BALLY BANDON WATER RIGHTS APPLICATIONS – NUMBERS G-15697 AND G-15920
1	Figure	SITE MAP
1		OVERSIZED DRAWING
REMARKS:		

Per David Banton/tp





Oregon

Theodore R. Kulongoski, Governor

Water Resources Department

Commerce Building
158 12th Street NE
Salem, OR 97301-4172
503-378-3739
FAX 503-378-8130

March 6, 2003

David Banton
Golder Associates Inc.
18300 NE Union Hill Rd. STE 200
Redmond, WA 98052-0777

REFERENCE FILE: G-15697 and G-15920, Bally Bandon Sheep Ranch

Dear Mr. Banton:

The Department has received your letter clarifying information pertaining to application G-15697, as well as the maps you've submitted showing place of use and well locations. At this time, the maps submitted cannot be accepted as they do not meet minimum standards set forth under OAR 690-310-050.

I'm enclosing the map requirements information for your assistance. Most specifically, the map must contain all information on a single map that is no larger than 11"X17". The map must be easily reproducible, colored inks do not photocopy well.

The map must also clearly show the location of the place of use with a notation of acreage proposed to be irrigated per quarter-quarter section. The location of each well must be noted using coordinates or distance and bearing from a government survey corner.

Please submit a map meeting the requirements so we can continue processing your request.

I have noted file G-15920 to be placed on temporary hold while resolving issues surrounding file G-15697. I suggest you request to place file G-15697 on Administrative Hold also. You can send me an e-mail to that effect if you'd like.

If you have any questions about the map, or the application status, please don't hesitate to contact me at (503)378-8455 ext 229, or via e-mail at: Anita.M.HUFFMAN@ wrd.state.or.us.

Sincerely,

Anita Huffman
Senior Water Right Technician

cc: FILES
Phillip Friedmann

enclosure



To: "Anita Huffman (E-mail)" <Anita.M.Huffman@wrд.state.or.us>
Cc: "Philip Friedmann (E-mail)" <p.friedmann@recycled-greetings.com>, "Klisch, Michael" <MKlisch@golder.com>
Subject: Applications G-15697 and G-15920 - Bally Bandon Sheep Ranch

Anita

This email requests that application G-15697 be put on Administrative Hold while we provide additional map information for the Department's review.

On Monday, we will send you an updated map as you requested in your letter dated March 6, 2003.

If you have any questions, please call me

Thank You
David

David Banton, L.HG.
Principal Hydrogeologist
Golder Associates Inc.
Tel: (425) 883-0777
Fax: (425) 882-5498
Cell: (425) 503-9331

<<http://www.golder.com/>>

Memorandum

To: Dwight French
From: Rick Cooper *RMC*
Date: January 6, 2002

Subject: Water right application G-15967

Background

Philip Friedmann, owner of Bally Bandon Sheep Ranch golf course, applied for a water right to use groundwater to irrigate the course. The proposed withdrawal rate is 0.44 cfs. The wells are in hydraulic connection to Whiskey Run Creek and approval of the water right was therefore subject to surface water availability in the creek. A water availability analysis for Whiskey Run Creek showed no water to be available (see attached table).

An in-stream water right is the only water right in the Whiskey Run Creek watershed. The monthly stream flows specified in the certificated water right exceed the estimated 80-percent exceedance stream flow in every month, so no water is available all months of the year. Note that the original in-stream water right application requested more water in every month than was certificated. The monthly amounts were reduced to the estimated 50-percent exceedance stream flow in all months as per OWRD's water allocation policy.

OWRD allows the applicant to submit his own water availability analysis where he believes the Department's analysis to be in error. To that end, Mr. Friedmann retained Golder and Associates to do a site-specific evaluation of the impacts of the wells on stream flow in the creek. Golder's findings were presented in a report to Mr. Friedmann. A copy of the report was given to the Department in November 2002.

Applicant's Water Availability Analysis

I have reviewed Golder's report and have these comments. Golder did a number of analyses, but of interest here are the stream flow measurements made in October 2002. Measured stream flows near the mouth of Whiskey Run Creek were all in excess of 1.5 cfs. Since the summer of 2002 was drier than average, the measured stream flows also are likely to be below average. The water availability model predicts flows on the order of 0.1 cfs.

It appears the stream has significant base or spring flow that keeps flow levels higher during dry periods than would be expected from a more typical stream along the south coast. The prediction equations used to estimate stream flow in Whiskey Run Creek do a poor job of accounting for this type of stream flow behavior.

I requested the field note made at the time of the measurements from David Branton of Golder and Associates and asked Ben Scales to look them over to determine if appropriate procedures and methods had been followed. Ben indicated that it is not possible to determine exactly what was done. For example, the type of measuring device was not recorded. However, he felt that the work was sufficient to support the claim that stream flow in Whiskey Run Creek in late summer and fall is at least an order of magnitude larger than that predicted by the water availability model.

While the information supplied by Golder and Associates is sufficient to call into question the stream flow predicted by the water availability model and suggest that water is available for appropriation for the proposed use, it is insufficient to characterize stream flows for the purpose of making an estimate of the 80-percent exceedance natural stream flow for all twelve months. Generally five or more years of continuous record should be collected to adequately characterize the stream flow.

Conclusions

The water availability model significantly underestimates stream flows in Whiskey Run Creek in late summer and early fall. It is my professional opinion, that stream flows in Whiskey Run Creek near the mouth probably exceed 1.5 cfs in summer and fall at least 80 percent of the time. Stream flow measurements need to be collected to verify this conclusion.

If stream flows in summer months exceed 1.5 cfs at least 80-percent of the time, then there is water available for appropriation in amounts sufficient to meet the proposed use and the requirements of the in-stream water right.

Recommendations

Permit the proposed use with this condition:

Applicant is to pay for the installation and operation of a continuous record gaging station at a suitable location near the mouth of Whiskey Run Creek. The gaging station is to be run for no less than five years, and the data collected to the USGS standard. The record from this gaging station will be used to define the 80-percent exceedance natural streamflow for Whiskey Run Creek. If it is determined at the end of five years, that stream flow is insufficient to meet the demands of the in-stream water right and the proposed use, the gaging station will be continued in operation at the applicant's expense for the purpose of regulating the use of water in Whiskey Run Creek according to the prior appropriations doctrine.

c: Barry Norris, Doug Woodcock, Lloyd Van Gordon

DETAILED REPORT ON THE WATER AVAILABILITY CALCULATION

Water Availability as of 1/ 3/2003 for

WHISKY RUN > PACIFIC OCEAN - AT MOUTH

Watershed ID #: 72964

Basin: SOUTH COAST

Exceedance Level: 80

Time: 07:57

Date: 01/03/2003

Month	Natural Stream Flow	CU + Stor Prior to 1/1/93	CU + Stor After 1/1/93	Expected Stream Flow	Reserved Stream Flow	In-stream Water Rights	Net Water Available
1	2.71	0.00	0.00	2.71	0.00	5.80	-3.09
2	3.71	0.00	0.00	3.71	0.00	6.42	-2.71
3	2.72	0.00	0.00	2.72	0.00	4.63	-1.91
4	1.69	0.00	0.00	1.69	0.00	2.87	-1.18
5	0.79	0.00	0.00	0.79	0.00	1.28	-0.49
6	0.46	0.00	0.00	0.46	0.00	0.75	-0.29
7	0.27	0.00	0.00	0.27	0.00	0.36	-0.09
8	0.15	0.00	0.00	0.15	0.00	0.18	-0.03
9	0.11	0.00	0.00	0.11	0.00	0.13	-0.02
10	0.10	0.00	0.00	0.10	0.00	0.14	-0.04
11	0.41	0.00	0.00	0.41	0.00	1.08	-0.67
12	1.82	0.00	0.00	1.82	0.00	4.62	-2.80
Stor	1720	2	0	1720	0	1690	25

Golder Associates Inc.

18300 NE Union Hill Road, Suite 200
Redmond, WA USA 98052-3333
Telephone (425) 883-0777
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www.golder.com



March 17, 2003

Our Ref.: 023-1206.003

Water Rights Section
Oregon Water Resources Department
158 12th Street NW
Salem, Oregon 97301

Attention: Ms. Anita Huffman, Senior Water Rights Technician

RE: WATER RIGHT APPLICATION G-15920 – BALLY BANDON SHEEP RANCH

Dear Ms. Huffman:

Attached please find a revised map to accompany water right application G-15920. We have prepared this map in response to your letter of March 6, 2003 requesting a map that meets the Department's requirements.

The revised map includes the locations and descriptions of the proposed wells, the place of use, and irrigated acreage information.

Please contact me if you have any questions or need additional information.

Sincerely,

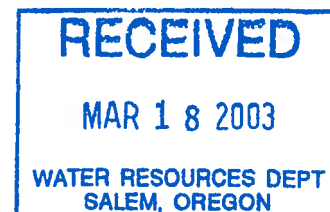
GOLDER ASSOCIATES INC.

A handwritten signature in cursive script that reads 'David Banton'.

David Banton
Principal Hydrogeologist

Attachments: Irrigated Area Map

cc: Mr. Philip Friedmann (w/ Attachment)



V:\PROJECTS\2002 Projects\023-1206 Bally Bandon_Banton\Task 003\WRD Letter 3-17-03 doc



Golder Associates Inc.

18300 NE Union Hill Road, Suite 200
Redmond, WA USA 98052-3333
Telephone (425) 883-0777
Fax (425) 882-5498



January 29, 2003

Our Ref.: 023-1206.003

Water Rights Section
Oregon Water Resources Department
158 12th Street, N.E.
Salem, OR 97301

RECEIVED

FEB 03 2003

WATER RESOURCES DEPT.
SALEM, OREGON

Attention: Doug Woodcock

RE: BALLY BANDON WELL INTERFERENCE

Dear Doug:

This letter is in response to your email to me dated January 13, 2003. In that email you asked Golder to provide information with regard to:

1. The pumping rate from the existing irrigation well; and
2. Whether a second well will be drilled at the site and how much interference this well could have on the Moreland well – the closest domestic well.

We are recommending that the existing irrigation well be pumped at a long-term (seasonal) rate not to exceed 50 gpm. The well can clearly sustain 100 gpm for short periods, probably no more than seven days. Therefore, the maximum instantaneous use from the well will be 100 gpm. The seasonal average pumping rate will be 50 gpm. This average pumping rate results in a maximum water use of 46 acre-feet over a seven-month (210-day) irrigation season.

A second well is proposed at the site. The well is planned to be located at the site of the "BBSR-T1 distant piezometer" referred to in our report dated November 2002 and as shown on the attached map. A log of the piezometer is also attached. The Moreland well is located about 560 feet north of the site proposed for the second well. We have estimated the potential interference in the Moreland well based on the following assumptions:

Aquifer transmissivity	4,300 ft ² /d;
Aquifer storativity	0.06
Pumping rate	50 gpm
Pumping duration	210 days

Based on these assumptions the interference drawdown in the Moreland well would be about one foot. If the second well is pumped for 100 gpm for a short period, the interference drawdown at the end of five days would be about 0.2 feet. Given that the Moreland well is screened from 65 to 70 feet, and the static water level was 54 feet bgs (as measured on October 15, 2002), the interference drawdown of one foot should not affect yield of the Moreland well.

If you have any questions, or require additional information, please give me a call.

Sincerely,

GOLDER ASSOCIATES INC.



David Banton
Principal



Michael Klisch, P.G.
Project Hydrogeologist

Attachments:

Well Location Map

Log of Distant Piezometer – BBSP T1

Moreland Well Log

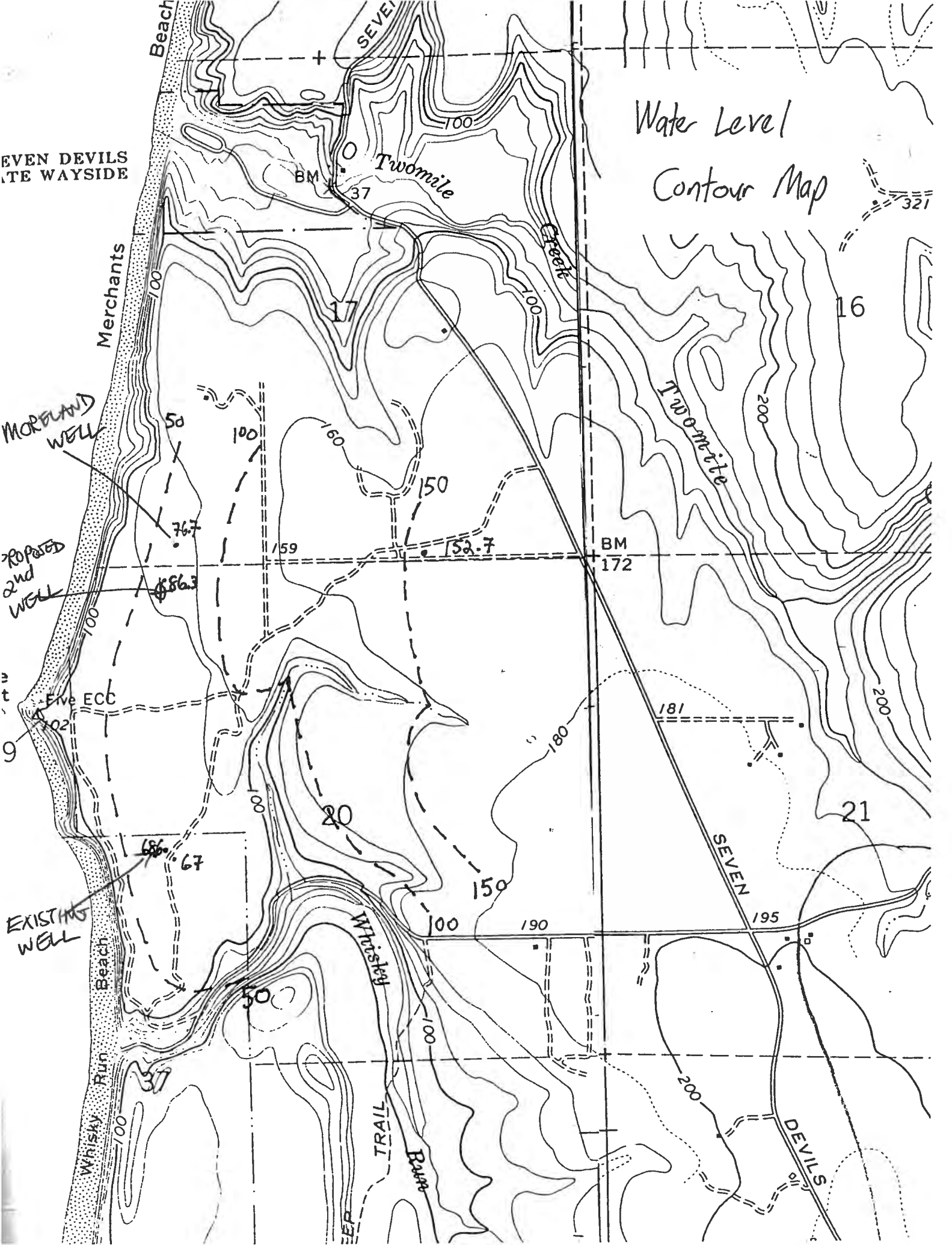
cc: Mr. P. Friedmann, w/attachments

db/db

V:\PROJECTS\2002 PROJECTS\023-1206 BALLY BANDON_BANTON\TASK 003\WRD LETTER 01-29-03.DOC

Water Level Contour Map

EVEN DEVILS
ATE WAYSIDE



STATE OF OREGON
GEOTECHNICAL HOLE REPORT
 (as required by OAR 690-240-035)

BBSR-T1 distant
 piezometer

Coos
 52220

(Pg 1)

(1) OWNER/PROJECT: Hole Number 810
 Name Bally Brandon Sheep Ranch
 Address PO Box 1756
 City Brandon State OR Zip 97411

(2) TYPE OF WORK
 New Deepening Alteration (repair/recondition) Abandonment

(3) CONSTRUCTION:
 Rotary Air Hand Auger Hollow Stem Auger
 Rotary Mud Cable Tool Push Probe Other

(4) TYPE OF HOLE:
 Uncased Temporary Cased Permanent
 Uncased Permanent Slope Stability Other

(5) USE OF HOLE: Formation Samples

(6) BORE HOLE CONSTRUCTION:
 Special Construction approval Yes No Depth of Completed Hole 78' ft.

HOLE			SEAL			Sacks or pounds
Diameter	From	To	Material	From	To	
6"	0	78	Cement	0	78	25x
			Bentonite	0	35	185x

Backfill placed from _____ ft. to _____ ft. Material _____
 Filter Pack placed from _____ ft. to _____ ft. Size of pack _____

(7) CASING/SCREEN:

Casing/Screen	Diameter	From	To	Gauge	Material			
					Steel	Plastic	Welded	Threaded
Casing	2"	+1	35	SC40	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Screen					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Slot size _____

(8) WELL TEST:
 Pump Bailer Air Flowing Artesian
 Permeability _____ Yield _____ GPM _____
 Conductivity _____ PH _____
 Temperature of water _____ °F/C Depth artesian flow found _____ ft.
 Was water analysis done? Yes No
 By whom? _____
 Depth of strata analyzed. From _____ ft. to _____ ft.
 Remarks: _____

(9) LOCATION OF HOLE by legal description:
 County Coos Latitude _____ Longitude _____
 Township 27 N or S Range 14 E or W. W.M.
 Section 20 1/4 1/4 1/4
 Tax Lot 100 Lot _____ Block _____ subdivision _____
 Street Address of Well (or nearest address) Whiskey Run Rd, Brandon
 Map with location identified must be attached

(10) STATIC WATER LEVEL:
30'5" ft. below land surface. Date 12/21/01
 Artesian pressure _____ lb. per square inch. Date _____

(11) SUBSURFACE LOG:
 Ground Elevation +1-100'

Material Description	From	To	SWL
Topsoil	0	1	
Sand Fine brown	1	3	
Sand Fine Tan	3	12	
Clay brown	12	14	
Sandy Clay Tan	14	15	
Sand Fine Tan	15	18	
Sandy Clay white	18	20	
Sand Fine Tan	20	30	

(Continued on Page #2)
 Date Started 11/29/01 Date Completed 12/21/01

(12) ABANDONMENT LOG:

Material Description	From	To	Sacks or Pounds
RECEIVED JAN 10 2002 WATER RESOURCES DEPT. SALEM, OREGON			

Date started _____ Date Completed _____

Professional Certification
 (to be signed by a licensed water supply or monitoring well constructor, or Oregon registered geologist or civil engineer).
 I accept responsibility for the construction, alteration, or abandonment work performed during the construction dates reported above. All work performed during this time is in compliance with Oregon's geotechnical hole construction standards. This report is true to the best of my knowledge and belief.
 License or Registration Number 1493
 Signed Jim Mack Sr mawc Date 1/7/02
 Affiliation Brandon Well & Septic Co inc

THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

ORIGINAL - WATER RESOURCES DEPARTMENT FIRST COPY - CONSTRUCTOR SECOND COPY - CUSTOMER

BBSR-T1 distant piezometer

STATE OF OREGON
GEOTECHNICAL HOLE REPORT
(as required by OAR 690-240-035)

(Pg 2)

COOS
52220

(1) OWNER/PROJECT: Hole Number 810
Name Bally Bandon Sheep Ranch
Address PO Box 1756
City Bandon State OR Zip 97411

(2) TYPE OF WORK
 New Deepening Alteration (repair/recondition) Abandonment

(3) CONSTRUCTION:
 Rotary Air Hand Auger Hollow Stem Auger
 Rotary Mud Cable Tool Push Probe Other

(4) TYPE OF HOLE:
 Uncased Temporary Cased Permanent
 Uncased Permanent Slope Stability Other

(5) USE OF HOLE:

(6) BORE HOLE CONSTRUCTION:
Special Construction approval Yes No Depth of Completed Hole _____ ft.

HOLE			SEAL			Sacks or pounds
Diameter	From	To	Material	From	To	

Backfill placed from _____ ft. to _____ ft. Material _____
Filter Pack placed from _____ ft. to _____ ft. Size of pack _____

(7) CASING/SCREEN:

Diameter	From	To	Gauge	Material			
				Steel	Plastic	Welded	Threaded
Casing:				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Screen:				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Slot size _____

(8) WELL TEST:
 Pump Bailer Air Flowing Artesian
Permeability _____ Yield _____ GPM _____
Conductivity _____ PH _____
Temperature of water _____ °F/C Depth artesian flow found _____ ft.
Was water analysis done? Yes No
By whom? _____
Depth of strata analyzed. From _____ ft. to _____ ft.
Remarks: _____

(9) LOCATION OF HOLE by legal description:
County Coos Latitude _____ Longitude _____
Township 27 N or 14 Range 14 E or W W.M.
Section 20 1/4 1/4 1/4
Tax Lot 100 Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) Whiskey Run Rd
Bandon

Map with location identified must be attached

(10) STATIC WATER LEVEL:
_____ ft. below land surface. Date _____
Artesian pressure _____ lb. per square inch. Date _____

(11) SUBSURFACE LOG:
Ground Elevation _____

Material Description	From	To	SWL
Sand Fine-med tan	30	37	
Sandy Clay brn w/sand Fine	37	45	
Peat brown	45	46	
wood w/sand Fine brown	46	48	
Sand Fine-med tan	48	53	
Gravel med-cks Brn Red w/sand	53	60	
Sand Fine w/gravel Fine-cks Gray	60	65	
Sandy Clay Gray	65	66	
Claystone Gray	66	78	

Date Started 11/29/01 Date Completed 12/21/01

(12) ABANDONMENT LOG:

Material Description	From	To	Sacks or Pounds

Date started _____ Date Completed _____

Professional Certification

(to be signed by a licensed water supply or monitoring well constructor, or Oregon registered geologist or civil engineer).

I accept responsibility for the construction, alteration, or abandonment work performed during the construction dates reported above. All work performed during this time is in compliance with Oregon's geotechnical hole construction standards. This report is true to the best of my knowledge and belief.

License or Registration Number 1493

Signed Jim Mickel MGCWC Date 1/7/02

Affiliation Bandon Well & Septic Co. Inc.

THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

ORIGINAL - WATER RESOURCES DEPARTMENT FIRST COPY - CONSTRUCTOR SECOND COPY - CUSTOMER

**STATE OF OREGON
WATER SUPPLY WELL REPORT**
(as required by ORS 537.765)

WELL I.D. # 39987
START CARD # 130605

Instructions for completing this report are on the last page of this form.

(1) OWNER: Well Number _____
Name Charles Moreland
Address 58448 TOKYO lane
City Bandon State OR Zip 97244

(2) TYPE OF WORK
 New Well Deepening Alteration (repair/recondition) Abandonment

(3) DRILL METHOD:
 Rotary Air Rotary Mud Cable Auger
 Other _____

(4) PROPOSED USE:
 Domestic Community Industrial Irrigation
 Thermal Injection Livestock Other _____

(5) BORE HOLE CONSTRUCTION:
Special Construction approval Yes No Depth of Completed Well 21 ft.
Explosives used Yes No Type _____ Amount _____

HOLE			SEAL		
Diameter	From	To	Material	From	To
10	0	21	Bent	0	25

Sacks or pounds 75

How was seal placed: Method A B C D E
 Other Poured
Backfill placed from _____ ft. to _____ ft. Material _____
Gravel placed from 21 ft. to 25 ft. Size of gravel pee

(6) CASING/LINER:

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing: 5"	42	65	5000	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6"	42	4	258	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[Protective Casing]							
Liner:				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Final location of shoe(s) _____

(7) PERFORATIONS/SCREENS:

From	To	Slot size	Number	Diameter	Tele./pipe size	Casing	Material	Lineer
20	65	1010		5	5	<input type="checkbox"/>	Stainless steel	<input type="checkbox"/>
						<input type="checkbox"/>		<input type="checkbox"/>
						<input type="checkbox"/>		<input type="checkbox"/>

(8) WELL TESTS: Minimum testing time is 1 hour

Yield gal/min	Drawdown	Drill stem at	Flowing Time
5	Total		1 hr.

Temperature of water 52° Depth Artesian Flow Found _____
Was a water analysis done? Yes By whom _____
Did any strata contain water not suitable for intended use? Too little
 Salty Muddy Odor Colored Other _____
Depth of strata: _____

(9) LOCATION OF WELL by legal description:
County COOS Latitude _____ Longitude _____
Township 27 N or S 14 E or W WM.
Section 17 SW 1/4 SW 1/4
Tax Lot 1100 Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) Next to 58448 Tokyo lane

(10) STATIC WATER LEVEL:
56 ft. below land surface. Date 2-01-01
Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:
Depth at which water was first found 56

From	To	Estimated Flow Rate	SWL
56	20	5 gpm	56

(12) WELL LOG:
Ground Elevation _____

Material	From	To	SWL
Black Peat	0	1	
Fine Brown Sand	1	25	
Fine med Brown Sand	25	70	
Blue (big) marine Rock	70	71	56

RECEIVED

MAR 13 2001

WATER RESOURCES DEPT.
SALEM, OREGON

Date started 2-01-01 Completed 2-01-01
(unbonded) Water Well Constructor Certification:

I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

WWC Number _____
Signed _____ Date _____

(bonded) Water Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 1381
Signed Ben Bant Date 2-29-01

From: "Banton, David" <DBanton@golder.com>
To: "Douglas Woodcock" <Douglas.E.WOODCOCK@wrdd.state.or.us>, "Banton, David" <DBanton@golder.com>
Cc: "Anita HUFFMAN (E-mail)" <Anita.M.HUFFMAN@wrdd.state.or.us>, "Klisch, Michael" <MKlisch@golder.com>
Subject: RE: Bally Bandon
Date: Tue, 14 Jan 2003 10:57:09 -0800
X-Mailer: Internet Mail Service (5.5.2656.59)

Doug

The plan at the moment would be to use the existing well at a long-term average rate of about 50 gpm (over an irrigation season), with instantaneous use as high as 100 gpm for short periods.

I talked with Mr. Friedmann about the second well on the application. Apparently according to the drillers the material could be developed for a well. A second well would be drilled at this location. This well would have less effect on Whisky Run because of its location and would intercept a greater proportion of shoreward groundwater discharge. I don't think that yields will be as good at this location as at well 1. However, it would be prudent to assume the short and long-term yields given above. We will make a calculation of the potential interference on the Mooreland well from this second well site.

Mr. Friedmann has also submitted an additional application because the first application was incorrect - his "agent" did not understand the total water required for the irrigated acreage (about 80 to 90 acres) and underestimated annual Q. I told Dwight French this when I talked to him last week. He said that the Dept would review the second application and it would require additional evaluation by the Department. I am assuming that we will talk about this second application when you have had a chance to look at it and determine what is required.

As you requested, we will prepare a letter summarizing the above and the interference calculations.

Thank You
David

-----Original Message-----

From: Douglas Woodcock
To: DBanton@golder.com
Cc: Anita HUFFMAN (E-mail)
Sent: 1/13/03 4:24 PM
Subject: Bally Bandon

David-

Anita Huffman in our Water Rights Section has pointed out that in my application review I checked the box "would not be available within the capacity of the resource or without injury to senior rights." This still needs to be addressed. Calculations in your Pumping Test Report for the Sheep Ranch focus on 44 gpm as a sustainable rate (with X surface water interference after 210 days, etc...). Is 44 gpm the rate you have settled in on? Secondly, do you still propose to use two wells? If you or Mr. Friedmann could send a letter to myself or Anita outlining these two issues it would facilitate the drafting of the draft permit. (If you are still proposing to use two wells, and the second well is the same location as proposed on the application, I would value your thoughts on well interference given the closer proximity to the Mooreland well.)

Please call if you would like some clarification on this issue.

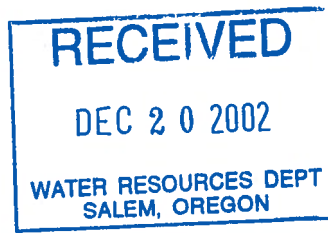
Thanks,
Doug

Douglas Woodcock
 Hydrogeologist
 Oregon Water Resources Department
 158 12th St NE
 Salem, Or 97301

Voicemail: 503-378-8455 x208

FAX: 503-378-2496

Email: woodcode@wr.d.state.or.us



December 19, 2002

Our Ref.: 023-1206

Water Rights Section
Oregon Water Resources Department
158 12th Street, N.E.
Salem, OR 97301

Attention: Dwight French, Water Rights Section Manager

RE: PROTEST OF PROPOSED FINAL ORDER FOR BALLY BANDON SHEEP RANCH WELL – WATER RIGHTS APPLICATION G-15697

Dear Mr. French:

My name is Philip Friedmann. I am the applicant for the above water right. My address is:

Bally Bandon Sheep Ranch,

P.O. Box 1756,

Bandon, Oregon 97411

Telephone No. (541) 530-6839 or (773) 348-6410

The purpose of my water rights application is to put groundwater to beneficial use to irrigate a golf course on private land located partly within the Whisky Run Creek Basin. Water is required for irrigation purposes because precipitation during the growing season is insufficient to meet the evapotranspiration needs of the turf and pasture grasses used for the golf course. Absent irrigation, turf and pasture grasses will wither and will be unsuitable for the proposed recreational activities. Consequently, I will be unable to develop the recreational facilities. Both I and the local community will suffer an economic loss.

I hereby protest the decision of the Department with regard to the Proposed Final Order for the above application. I have retained Golder Associates Inc. to provide technical consulting services with respect to groundwater issues for this water rights application.

The basis for my protest to the Department's Proposed Order is presented in Golder Associates report titled "Pumping Test, Bally Bandon Sheep Ranch Irrigation Well", dated November 2002. This report details that based on measurements in October 2002 that the amount of water in Whisky Run Creek is approximately 10 times greater than the Department's estimate. As a result, the previously allocated water rights and instream flows are only a small portion of the natural discharge rather than comprising the total natural discharge as stated by the Department. There is thus considerably more water available for allocation in the Whisky Run basin than indicated in the Department's Water Rights Data Base/Water Availability Tables. Golder Associates also evaluated the potential effect on instream flows of the proposed water right application. The potential effect on streamflows in the

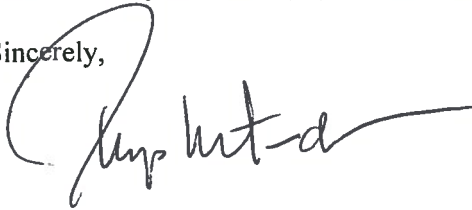
summer and fall was estimated to be 1.5 to 2% of the low flow discharge. This effect is very small and is unlikely to have any significant impact on instream flows necessary for recreation, fish and wildlife.

It is my consultant's opinion that the error in the Department's Water Availability Tables should be corrected by the Department based on actual streamflow measurements in Whisky Run Creek. In view of the much greater natural streamflow (considerably in excess of instream flow requirements), my water right should be granted with an approved Monitoring Plan. The Monitoring Plan would specify the additional streamflow measurements that would be performed to enable the Department to update its Water Availability Tables. I wish to put water to beneficial use per the water right prior to, during, and following the period of streamflow data collection.

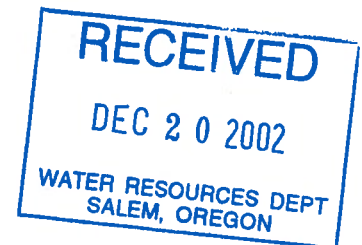
In view of the new information in the Golder report, I request a Contested Case Hearing to resolve the water right application. However, my expectation is that a Settlement Agreement can be reached between myself and the Department prior to the hearing. I have asked Golder Associates to work with the Department to reach a mutually agreeable Settlement Agreement.

I look forward to resolving the water right application. Please contact me or David Banton at Golder Associates if you have any questions regarding the water rights application or the protest.

Sincerely,



c.cc David Banton, Golder Associates Inc.





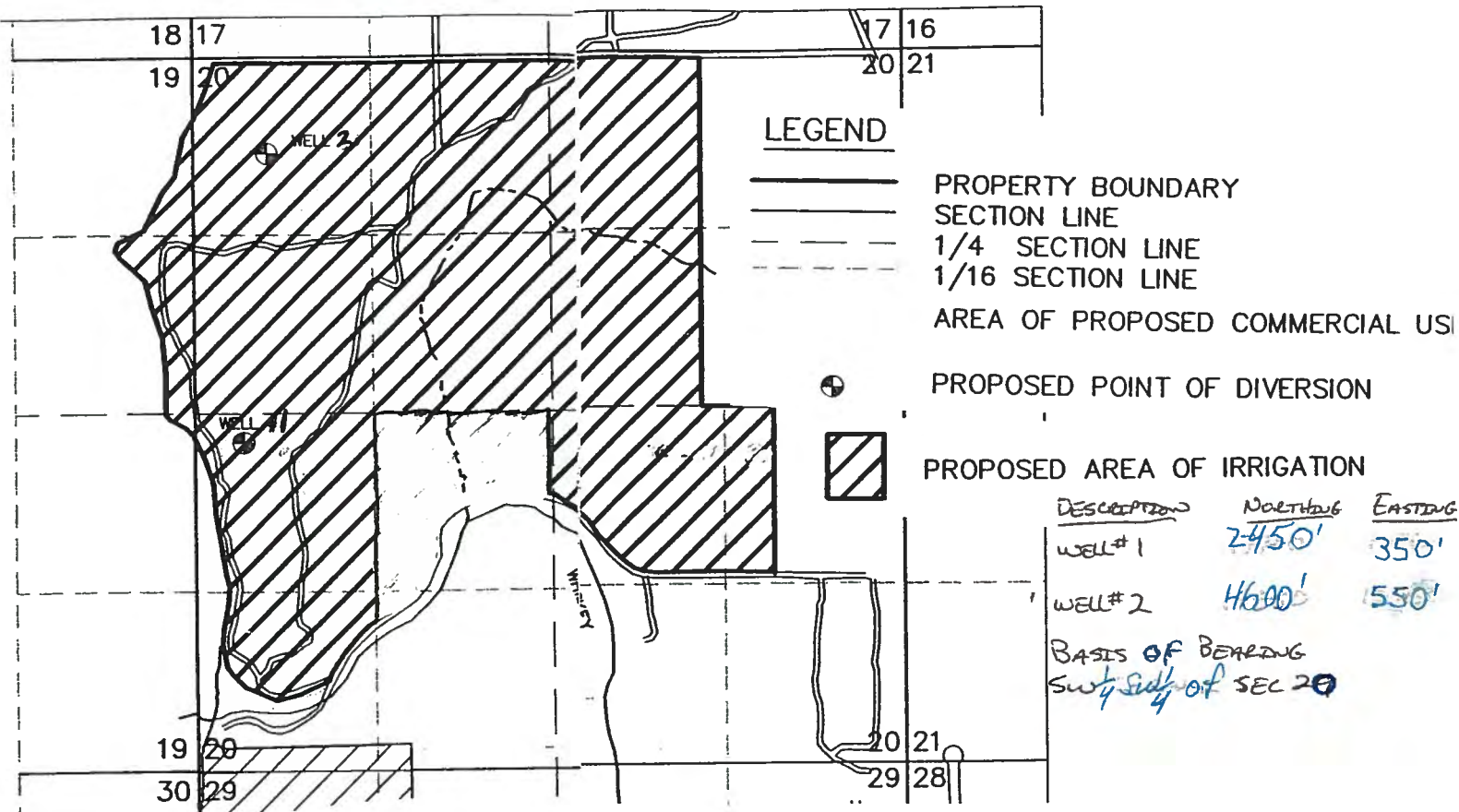
SCALE 1" = 1320'

TOWNSHIP	RANGE	SECTION	0.25	0.25	APPROXIMATE TOTAL ACRES	APPROXIMATE IRRIGATED ACRES
27	14	19	NE	NE	3.6	3.8
27	14	19	SE	NE	9.5	9.5
27	14	19	NE	SE	0.5	0.5
27	14	20	NW	NW	37.9	37.9
27	14	20	NE	NW	38.6	38.6
27	14	20	SE	NW	40.0	40.0
27	14	20	SW	NW	40.0	40.0
27	14	20	NW	NE	33.7	33.7
27	14	20	SW	NE	35.0	35.0
27	14	20	NW	SE	32.0	32.0
27	14	20	NE	SE	10.1	10.1
27	14	20	NW	SW	36.1	36.1
27	14	20	NE	SW	25.5	25.5
27	14	20	SE	SW	0.9	0.9
27	14	20	SW	SW	15.8	15.8
TOTAL APPROXIMATE ACRES					359.2	359.2

Application No. 9-15697
Permit No.

T.L. 100, 400,
SEC. 20, T.27S., R.14W., W.M.
BANDON, COOS COUNTY, OREGON

APPLICATION FOR WATER RIGHTS
AREA OF USE AND POINT OF DIVERSION MAP



**Oregon Water Resources Department
Water Right Services Division**

Application for Extension of Time

In the Matter of the Application for an Extension of Time	)	FINAL
for Permit G-15437, Water Right Application G-15697, in	)	ORDER
the name of Bally Bandon Sheep Ranch)	

Permit Information

Application:	G-15697
Permit:	G-15437
Basin:	17 – South Coast / Watermaster District 19
Date of Priority:	February 4, 2002
Source of Water:	six wells in Whisky Run Creek Basin
Purpose or Use:	Irrigation of 95.0 acres
Maximum Rate:	0.45 cubic foot per second (cfs)

This Extension of Time request is being processed in accordance with Oregon Revised Statute 537.630 and 539.010(5), and Oregon Administrative Rule Chapter 690, Division 315.

Appeal Rights

This is a final order in other than a contested case. This order is subject to judicial review under ORS 183.484. A request for judicial review must be filed within the 60 day time period specified by ORS 183.484(2). Pursuant to ORS 536.075 and OAR 137-004-0080 you may either file for judicial review, or petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the Director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied.

Application History

Permit G-15437 was issued by the Department on May 16, 2003. The permit specified complete application of water to beneficial use by October 1, 2007. The most recent extension authorized complete application of water to beneficial use by October 1, 2017. On July 23, 2018, Phillip Friedman, owner of Bally Bandon Sheep Ranch submitted an Application for Extension of Time for Permit G-15437. In accordance with OAR 690-315-0050(2), on September 4, 2018, the Department issued a Proposed Final Order proposing to extend the time to fully apply water to beneficial use to October 1, 2022. The protest period closed October 19, 2018, in accordance with OAR 690-315-0060(1). No protest was filed.

FINDINGS OF FACT

The Department adopts and incorporates by reference the findings of fact in the Proposed Final Order dated September 4, 2018.

At time of issuance of the Proposed Final Order the Department concluded that, based on the factors demonstrated by the applicant, any comments received, and information within the file, the permit may be extended subject to the following condition:

LIMITATIONS AND CONDITIONS

1. **Last Extension Condition**

This may be the last extension of time granted for Permit G-15437. Any future extensions of time request may be denied, unless the permit holder can provide the Department with evidence that diligence is shown during this extension period. In addition, all normal extension standards and rules will be evaluated. ORS 539.010(5); OAR 690-315-0040.

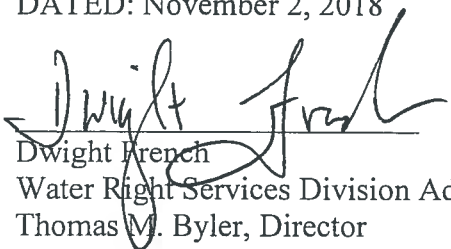
CONCLUSION OF LAW

The applicant has demonstrated good cause for the permit extension pursuant to ORS 537.630, 539.010(5) and OAR 690-315-0040(2).

ORDER

The extension of time for Application G-15697, Permit G-15437, therefore, is approved subject to conditions contained herein. The deadline for applying water to full beneficial use within the terms and conditions of the permit is extended from October 1, 2017, to October 1, 2022.

DATED: November 2, 2018


Dwight French
Water Right Services Division Administrator, for
Thomas M. Byler, Director
Oregon Water Resources Department

-
- If you have any questions about statements contained in this document, please contact the Permit Extension Specialist at 986-0802.
 - If you have other questions about the Department or any of its programs, please contact our Water Resources Customer Service Group at (503) 986-0900
-

Mailing List for Extension PFO Copies

PFO Date: September 4, 2018

Copies Mailed

Application: G-15697
Permit: G-15437

By: TM
On: 8/31/18

Original mailed to Applicant:

Bally Bandon Sheep Ranch
P.O. Box 1756
Bandon, OR 97411

Copies sent to:

1. WRD - App. File G-15697/ Permit G-15437
2. Agent or CWRE representing the Permit Holder

Fee paid as specified under ORS 536.050 to receive copy:

3. None

Receiving via e-mail (10 AM Tuesday of signature date)
(DONE BY EXTENSION SPECIALIST)

4. WRD - Watermaster District 19, Greg Wacker

CASEWORKER: JDP

**Oregon Water Resources Department
Water Right Services Division**

Application for Extension of Time

In the Matter of the Application for an Extension of Time	)	PROPOSED
for Permit G-15437, Water Right Application G-15697, in	)	FINAL
the name of Bally Bandon Sheep Ranch	)	ORDER

Permit Information

Application:	G-15697
Permit:	G-15437
Basin:	17 – South Coast / Watermaster District 19
Date of Priority:	February 4, 2002
Source of Water:	six wells in Whisky Run Creek Basin
Purpose or Use:	Irrigation of 95.0 acres
Maximum Rate:	0.45 cubic foot per second (cfs)

Please read this Proposed Final Order in its entirety as it contains additional conditions not included in the original permit.

In Summary, the Department proposes to:

- Grant an extension of time to apply water to full beneficial use from October 1, 2017, to October 1, 2022¹.
- Make the extension subject to certain conditions set forth below.

This Extension of Time request is being processed in accordance with Oregon Revised Statute 537.630 and 539.010(5), and Oregon Administrative Rule Chapter 690, Division 315.

¹Pursuant to ORS 537.630(5), upon the completion of beneficial use of water allowed under the permit, the permittee shall hire a certified water rights examiner to survey the appropriation. Within one year after the complete application of water to a beneficial use (or by the date allowed for the complete application of water to a beneficial use), the permittee shall submit a map of the survey and a new or revised claim of beneficial use as deemed appropriate by the Department.

ACRONYM QUICK REFERENCE

Application – Application for Extension of Time
Department – Oregon Department of Water Resources
FOF – Finding of Fact
PFO – Proposed Final Order
Well 1A – COOS 52219
Well 2B – COOS 53868
cfs - cubic foot per second

AUTHORITY

Generally, see ORS 537.630 and OAR Chapter 690 Division 315.

ORS 537.630(2) provides in pertinent part that the Oregon Water Resources Department (Department) for good cause shown shall order and allow an extension of time within which irrigation or other works shall be completed or the right perfected. In determining the extension, the Department shall give due weight to the considerations described under ORS 539.010(5) and to whether other governmental requirements relating to the project have significantly delayed completion of construction or perfection of the right.

ORS 539.010(5) instructs the Director to consider: the cost of the appropriation and application of the water to a beneficial purpose; the good faith of the appropriator; the market for water or power to be supplied; the present demands therefor; and the income or use that may be required to provide fair and reasonable returns upon the investment.

OAR 690-315-0040 provides that in order to approve an application for an extension of time to complete construction or apply water to full beneficial use, the Department shall make the findings in OAR 690-315-0040(1) including a finding that there is “good cause” to approve the extension. OAR 690-315-0040(2)-(4) contains the factors that the Department must consider to make findings that support a “good cause” determination.

OAR 690-315-0050(5) states that extension orders may include, but are not limited to, any condition or provision needed to: ensure future diligence; mitigate the effects of the subsequent development on competing demands on the resource; and periodically document the continued need for the permit.

FINDINGS OF FACT

1. On May 16, 2003, Permit G-15437 was issued by the Department, consistent with the terms of a settlement agreement. The permit authorizes the use of up to 0.45 cfs of water from six wells in Whisky Run Creek Basin for irrigation of 95.0 acres. The permit specified complete application of water was to be made on or before October 1, 2007.
2. Two prior permit extensions have been granted for Permit G-15437. The most recent extension request resulted in the completion dates for construction and full application of water being extended from October 1, 2007, to October 1, 2017.

3. On July 23, 2018, Phillip Friedman, owner of Bally Bandon Sheep Ranch, submitted an “Application for Extension of Time” (Application) to the Department, requesting the time to apply water to full beneficial use under the terms and conditions of Permit G-15437 be extended from October 1, 2017, to October 1, 2022.
4. On July 24, 2018, notification of the Application for Permit G-15437 was published in the Department’s Public Notice. No public comments were received regarding the Application.

Review Criteria [OAR 690-315-0040]

In order to approve an Application for an Extension of Time to complete construction and/or apply water to full beneficial use pursuant to ORS 537.230 or 537.630, or to begin construction, pursuant to ORS 537.248, the Department must make the findings in OAR 690-315-0040(1)(a) – (d).

Complete Extension of Time Application [OAR 690-315-0040(1)(a)]

5. On July 23, 2018, the Department received a completed Application and the fee specified in ORS 536.050 from the permit holder.

Start of Construction [OAR 690-315-0040(1)(b) and 690-315-0040(5)]

6. Construction of the well began prior to October 1, 2007, as specified in the permit as being the date to apply water to full beneficial use.
7. According to the well log received by the Department on January 10, 2002, construction of COOS 52219 (Well 1A) began November 21, 2001.

Based on Finding of Fact (FOF) 6 and 7, the Department has determined that the prosecution of the construction of the well began prior to October 1, 2007.

Good Cause [OAR 690-315-0040(1)(d)]

The Department must find that there is “good cause” to approve the extension. In making a “good cause” finding, the Department shall consider the requirements set forth under OAR 690-315-0040(2).

Reasonable Diligence of the Appropriator [OAR 690-315-0040(2)(a)]

In order to make a finding of “good cause” to approve the extension, the Department shall consider whether the applicant has demonstrated “reasonable diligence” in previous performance under the permit. OAR 690-315-0040(2)(a). In determining “reasonable diligence”, the Department shall consider, but is not limited to, the following factors: a) The amount of construction completed within the time allowed in the permit or previous extension; b) The amount of beneficial use made of the water during the permit or previous extension time limits; c) Water right holder conformance with the permit or previous extension conditions; and d) Financial investments made toward developing the beneficial use of water.

Amount of Construction [OAR 690-315-0040(3)(a)]

The amount of construction completed within the time allowed in the permit or previous extension.²

8. During the most recent extension period, being from October 1, 2007, to October 1, 2017, 2,500 feet of irrigation line was extended to five (golf) greens.
9. Since October 1, 2017, the applicant has constructed four additional monitoring wells.

The Application provides evidence of progress of physical work made towards completion of the water system, enough to qualify as the minimum necessary for the Department to find good cause and reasonable diligence towards complete application of water to a beneficial use.

Compliance with Conditions [OAR 690-315-0040(3)(c)]

The water right permit holder's conformance with the permit and previous extension conditions.

10. The Department has considered the permit holder's compliance with conditions, and did not identify any concerns.

Based on FOF 10, the Department has determined that the permit holder has demonstrated compliance with permit conditions as required by Permit G-15437.

Beneficial Use of Water [OAR 690-315-0040(3)(b)]

The amount of beneficial use made of the water during the permit time limits or previous extension.

11. A maximum rate of 0.033 cfs of water has been appropriated from Well 1A for irrigation of 22.4 acres.
12. Delay of full beneficial use of water under Permit G-15437 was due, in part, to insufficient yield of water from Well 1A. The permit holder needs more time in which to install a pump in COOS 53868 (Well 2B), and construct the remaining wells to achieve the authorized rate under the permit.

Based on FOF 10 and 11, the Department has determined that beneficial use of water has been demonstrated under this permit as all permit conditions were satisfied by October 1, 2017.

Financial Investments to Appropriate and Apply Water to a Beneficial Purpose [OAR 690-315-0040(2)(b),(3)(d),(4)(d)]

13. An approximate total of \$1,080,000 has been invested. The costs included items associated planning, design and voluntary monitoring, which are not "actual

² "Actual Construction" is defined in OAR 690-315-0020(3)(d)(A)and(B) as physical work performed toward completion of the water system which demonstrates the water right permit holder's good faith and intention to complete the project with reasonable diligence. Actual construction does not include planning a diversion system, formulating a business plan, securing financing, letting contracts, purchasing but not installing equipment, surveying, clearing land or planting crops.

construction” under this permit and therefore are not counted towards development. After deducting these costs, the approximate total investment for “actual construction” to date is approximately \$730,000 which is about 25 percent of the total projected cost for complete development of this project. An additional \$2,225,000 investment is needed to complete this project, which includes installing the irrigation system, constructing of an irrigation pond (bulge), and installing pumps in the additional wells.

Based on FOF 13, the Department has determined that the permit holder had made an investment, which provides evidence of good cause and reasonable diligence towards the complete application of water to a beneficial use.

Reasonable Diligence of the Appropriator [OAR 690-315-0040(2)(a)]

The Application provides evidence of progress towards completion of the water system; a financial investment has been made; the permit holder has demonstrated compliance with all permit conditions, and; beneficial use has been demonstrated. The Department has determined the applicant has demonstrated the minimum necessary for the Department to find reasonable diligence towards complete application of water to a beneficial use.

The Market and Present Demands for Water [OAR 690-315-0040(4)(a-f)]

The Department’s determinations of market and present demand for water or power to be supplied shall consider the requirements set forth under OAR 690-315-0040(4)(a-f). In accordance with OAR 690-315-0040(4), the Department shall consider, but is not limited to, the following factors when determining the market and the present demand for water or power to be supplied:

- *(a) The amount of water available to satisfy other affected water rights and scenic waterway flows;*
- *(b) Special water use designations established since permit issuance, including but not limited to state scenic waterways, federal wild and scenic rivers, serious water management problem areas or water quality limited sources established under 33 U.S.C. 1313(d);*
- *(c) The habitat needs of sensitive, threatened or endangered species, in consultation with the Oregon Department of Fish and Wildlife;*
- *(d) Economic investment in the project to date;*
- *(e) Other economic interests dependent on completion of the project; and*
- *(f) Other factors relevant to the determination of the market and present demands for water and power.*

OAR 690-315-0040(4)(a)

The amount of water available to satisfy other affected water rights and scenic waterway flows.

14. A review of the amount of water available to satisfy other affected water rights and scenic waterway flows was determined at the time of issuance of Permit G-15437; furthermore, water availability for other affected water rights and scenic waterway flows after the permit was issued is determined when an Application for a new water right is submitted.

OAR 690-315-0040(4)(b)

Special water use designations established since permit issuance, including but not limited to state scenic waterways, federal wild and scenic rivers, serious water management problem areas or water quality limited sources established under 33 U.S.C. 1313(d).

15. The points of appropriation for Permit G-15437, located within the Whisky Run Creek Basin, are not located within a limited or critical groundwater area.
16. Whisky Run Creek is not located within or above any state or federal scenic waterway.
17. The points of appropriation are not in an area listed by the Department of Environmental Quality as a water quality limited stream.

OAR 690-315-0040(4)(c)

The habitat needs of sensitive, threatened or endangered species, in consultation with the Oregon Department of Fish and Wildlife.

18. Whisky Run Creek is located within an area ranked “low” for stream flow restoration needs as determined by the Department in consultation with the Oregon Department of Fish and Wildlife, and is located within a Sensitive, Threatened or Endangered Fish Species Area as identified by the Department in consultation with Oregon Department of Fish and Wildlife.

OAR 690-315-0040(4)(d)

Economic interests dependent on completion of the project.

19. An approximate total of \$730,000 has been invested in the project.

OAR 690-315-0040(4)(e)

Other economic interests dependent on completion of the project.

20. Other economic interests which are dependent on completion of the project include benefit to the local economy by increased tourism the golf course may draw, and additional employment the golf course may provide.

OAR 690-315-0040(4)(f)

Other factors relevant to the determination of the market and present demand for water and power.

21. No other factors relevant to the determination of the market and present demand for water and power have been identified.

Fair Return Upon Investment [OAR 690-315-0040(2)(f)]

22. The use and income from the permitted water development will likely result in reasonable returns upon the investment made to date, in that it will allow for complete

development of the property, increasing both income from the golf course and increasing the value of the property.

Other Governmental Requirements [OAR 690-315-0040(2)(g)]

23. Delay in the development of this project was not caused by any other governmental requirements.

Unforeseen Events [OAR 690-315-0040(2)(h)]

24. No unforeseen events were identified that contributed to the extended the length of time needed to fully develop and perfect Permit G-15437.

Denial of the Extension Will Result in Undue Hardship [OAR 690-315-0040(2)(i)]

25. A denial of the extension would not result in undue hardship.

Good Faith of the Appropriator [OAR 690-315-0040(2)(c)]

26. The Application provides evidence of good faith of the appropriator under Permit G-15437.

Based on FOF 6, through 11, 13, and 19, the Department has determined that the applicant has shown good faith and reasonable diligence.

Duration of Extension [OAR 690-315-0040(1)(c)]

Under OAR 690-315-0040(1)(c), in order to approve an extension of time for water use permits the Department must find that the time requested is reasonable and the applicant can complete the project within the time requested.

27. As of July 23, 2018, the remaining work to be completed consists of completing construction of the water system, which includes constructing additional water supply wells, constructing irrigation pond #2 and modifying irrigation pond #1; and continuing to meet all permit conditions, which include submitting annual water use reports to the Department; and applying water to full beneficial use.

Permit G-15437 does not authorize the storage of water. Storing water in irrigation pond #1 and irrigation pond #2 outside of the period of use defined in Permit G-15437, requires a separate water right.

Given the amount of development left to occur, the Department has determined that the permit holder's request to have until October 1, 2022, to complete construction of the water system and to accomplish the application of water to beneficial use under the terms and conditions of Permit G-15437 is both reasonable and necessary.

Good Cause [OAR 690-315-0040(1)(d)]

The Department must find that there is “good cause” to approve the extension. In making a “good cause” finding, the Department shall consider the requirements set forth under OAR 690-315-0040(2).

The Department has considered the reasonable diligence and good faith of the appropriator, the cost to appropriate and apply water to a beneficial purpose, the market and present demands for water to be supplied, the financial investment made and fair and reasonable return upon the investment, the requirements of other governmental agencies, and unforeseen events over which the permit holder had no control, whether denial of the extension will result in undue hardship to the applicant and whether there are no other reasonable alternatives for meeting water use needs, any other factors relevant to a determination of good cause, and has determined that the applicant has shown that good cause exists for an extension of time to apply water to full beneficial use pursuant to OAR 690-315-0040(1)(d).

LIMITATIONS AND CONDITIONS

1. OAR 690-315-0050(5) provides for extension orders to include, but are not limited to, any condition or provision needed to ensure future diligence, and/or mitigate the effects of the subsequent development on competing demands on the resource. The Department determined the need to place a “Last Extension Condition” on this extension of time in order to ensure diligence is exercised in the development and perfection of the water use permit. This condition, specified under Item 1 of the “Conditions” section of this PFO, was determined to be necessary due this being the third request for an extension of time, which, upon approval, would allow over nineteen years for development of this permit.

CONCLUSIONS OF LAW

1. The applicant has submitted a complete extension application form and the fee specified in ORS 536.050, as required by OAR 690-315-0040(1)(a).
2. The applicant has complied with the construction timeline requirements to begin construction as required by ORS 537.630, OAR 690-315-0040(1)(b) and OAR 690-315-0040(5).
3. Based on Finding of Facts 6 through 26, full application of water to beneficial use can be accomplished by October 1, 2022, as required by OAR 690-315-0040(1)(c).
4. The applicant can complete the project within the time period requested for the extension on the project but the extension is conditioned to ensure future diligence and/or mitigate the effects of the subsequent development on competing demands on the resource and is granted only for the reasonable time necessary to complete water development and apply water to beneficial use. OAR 690-315-0050(5).
5. The applicant has demonstrated good cause for the extension but the extension must be conditioned to ensure this is the last extension granted in order to ensure future diligence; OAR 690-315-0050(5).

PROPOSED ORDER

Based upon the foregoing Findings of Fact and Conclusions of Law, the Department proposes to issue an order to:

Extend the time to apply water to beneficial use under Permit G-15437 from October 1, 2007, to October 1, 2022.

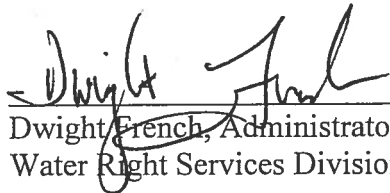
Subject to the following conditions:

LIMITATIONS AND CONDITIONS

1. Last Extension Condition

This may be the last extension of time granted for Permit G-15437. Any future extensions of time request may be denied, unless the permit holder can provide the Department with evidence that diligence is shown during this extension period. In addition, all normal extension standards and rules will be evaluated. ORS 539.010(5); OAR 690-315-0040.

DATED: September 4, 2018


Dwight French, Administrator,
Water Right Services Division

*If you have any questions,
please check the information
box on the last page for the
appropriate names and
phone numbers.*

Proposed Final Order Hearing Rights

1. Under the provisions of OAR 690-315-0100 and 690-315-0060, the applicant or any other person adversely affected or aggrieved by the proposed final order may submit a written protest to the proposed final order. The written protest must be received by the Water Resources Department no later than **October 19, 2018**, being 45 days from the date of publication of the proposed final order in the Department's weekly notice.
2. A written protest shall include:
 - a. The name, address and telephone number of the petitioner;
 - b. A description of the petitioner's interest in the proposed final order and if the protestant claims to represent the public interest, a precise statement of the public interest represented;
 - c. A detailed description of how the action proposed in the proposed final order would adversely affect or aggrieve the petitioner's interest;
 - d. A detailed description of how the proposed final order is in error or deficient and how to correct the alleged error or deficiency;

Mailing List for Extension FO Copies

FO Date: November 2, 2018

Copies Mailed

Application: G-15697

By: TU

Permit: G-15437

On: 11/2/2018

Original mailed to permit holder

Bally Bandon Sheep Ranch
P.O. Box 1756
Bandon, OR 97411

Copies sent to:

1. WRD - App. File G-15697/ Permit G-15437

Fee paid as specified under ORS 536.050 to receive copy:

2. None

Receiving notification via e-mail - FO available in WRIS for review
(DONE BY EXTENSION SPECIALIST)

3. WRD - Watermaster District 19, Greg Wacker

CASEWORKER: JDP



Oregon
Kate Brown, Governor

Water Resources Department
725 Summer St NE, Suite A
Salem, OR 97301
(503) 986-0900
Fax (503) 986-0904

July 24, 2018

REFERENCE: Application for Extension of Time

Dear Extension of Time Applicant:

The Water Right Services Division has received your application for an extension of time for **APPLICATION FILE #: G-15697 (Permit G-15437)**. Your application will be reviewed in the future. Following the review, you will receive a Proposed Final Order either approving or rejecting the extension of time request. A 45-day protest period begins upon issuance of the Proposed Final Order. After the protest period closes, a Final Order is issued.

You may continue the use of water under your water right until the Water Resources Department formally takes action on your extension application. If your permit includes conditions, water use reporting, water level measurement reporting, etc., you are required to comply with the conditions.

Any additional development that occurs after the expired completion date, identified on the permit or an extension order, can only be claimed upon an approved extension application.

If you have questions concerning your extension of time application, please contact Jeffrey Pierceall at (503) 986-0802. For general information about the Water Resources Department, you may contact the Water Resources' Customer Service Group at (503) 986-0801 or you may access the Department's website at: www.wrd.state.or.us.

07/18/2018

Oregon Water Resources Department

Original Amount 670.00

Balance Due 670.00

Payment 670.00
670.00

Date 07/17/2018 Type Bill

Reference

Check Amount

STATE OF OREGON WATER RESOURCES DEPARTMENT

RECEIVED

RECEIPT # 127373

725 Summer St. N.E. Ste. A SALEM, OR 97301-4172 (503) 986-0900 / (503) 986-0904 (fax)

INVOICE #

RECEIVED FROM: Bally Bandon Sheep Ranch

APPLICATION 6-15697

BY:

PERMIT

CASH: CHECK # 4784 OTHER: (IDENTIFY)

TRANSFER

TOTAL REC'D \$ 670.00

670.00

1083 TREASURY 4170 WRD MISC CASH ACCT

0407 COPIES \$
OTHER: (IDENTIFY) \$

0243 I/S Lease 0244 Muni Water Mgmt. Plan 0245 Cons. Water

4270 WRD OPERATING ACCT

MISCELLANEOUS

46111

0407 COPY & TAPE FEES \$
0410 RESEARCH FEES \$
0408 MISC REVENUE: (IDENTIFY) \$
TC162 DEPOSIT LIAB. (IDENTIFY) \$
0240 EXTENSION OF TIME \$ 670.00

WATER RIGHTS:

0201 SURFACE WATER EXAM FEE RECORD FEE
0203 GROUND WATER \$ 0202 \$
0205 TRANSFER \$ 0204 \$

WELL CONSTRUCTION

0218 WELL DRILL CONSTRUCTOR EXAM FEE LICENSE FEE
LANDOWNER'S PERMIT \$ 0219 \$
OTHER (IDENTIFY) 0220 \$

0536 TREASURY 0437 WELL CONST. START FEE

0211 WELL CONST START FEE \$ CARD #
0210 MONITORING WELLS \$ CARD #
OTHER (IDENTIFY)

0607 TREASURY 0467 HYDRO ACTIVITY LIC NUMBER

0233 POWER LICENSE FEE (FWWRD) \$
0231 HYDRO LICENSE FEE (FWWRD) \$
HYDRO APPLICATION \$

TREASURY OTHER / RDX

FUND TITLE
OBJ. CODE VENDOR #
DESCRIPTION \$

RECEIPT: 127373

DATED: 7/23/18 BY: [Signature]

Extension PFO Checklist for Other than Muni or Quasi-Municipal

Water Use Permits

(OAR 690-315-0010 through OAR 690-315-0060)

Application: G-15697 Permit: G-15437 Permit Amendment? No Yes T- pending approved

Permit Holder's Name: Billy Bandon Sheep Ranch

Permit Holder's Mailing Address: PO Box 1756 Bandon OR 97411

email Pfriedmann1@gmail.com

Phone Number: 541-530-6839

Agent/CWRE Goldor and Associates, Ronald Blegen

Drainage Basin: 17 County: Coos Watermaster District: 19 Watermaster: Greg Wacker
South Coast SWP

Date Permit was issued: May 16, 2003 Priority Date: Feb 4, 2002 Date of PN: _____

Source: six wells in Whiskey Run Creek Basin

Use: Irrigation of 95.0 acres

"Q": 0.45 cfs

Orig "A" Date: _____ Orig "B" Date: _____ Orig "C" Date: Oct 1, 2007

Extension request received: July 23, 2010 Last Authorized Date: _____ "C" Date: 6-1-2017

Request Number (1, 2, 3...): 3 Proposed "B" Date: _____ Proposed C Date: 2012

Conditions of Permit:

Condition Met?	Condition Not Met?	Permit Condition
✓		Begin construction: <u>Nov 1, 2001</u>
✓		<u>meter</u>
✓		<u>cont. rec. station</u> | | <u>operation of station</u>
✓		<u>monitor plan approved</u>

Factors to consider in determining "Reasonable Diligence" [OAR 690-315-0040(3)]:

Yes No

- Work was accomplished within the time allowed in the permit or previous extension
- Water right permit holder conformed with the permit or previous extension conditions
- Beneficial use made of the water during the permit or previous extension time limits

- Permit holder has beneficially used 125 cfs (gpm) of the total permitted quantity of water on 22.4 acres

- Financial investments were made toward developing the beneficial water use.

- Amount Invested to date: \$ 730,000 Estimated Remaining Cost: \$ 2,225,000

GW REVIEW: Y N _____

MITIGATION REVIEW: Y N _____

Has the applicant pursued perfection of the right in good faith and with reasonable diligence? Yes No

Determination of the market and the present demand for water or power to be supplied:

Identify the closest surface water or localized water basin. _____

Ground Water Permits: Is the POA located...

Surface Water Permits: Is the POD located...

Yes No

- above a state scenic waterway? Source: OWRD "Areas Above State Scenic Waterways" Map
- within a stream segment designated as a federal wild and scenic river? Source: www.rivers.gov/wildriverslist.html
- within a critical or limited Ground Water Area? Name of area _____
- within a sensitive, threatened or endangered species area source: "/>

Based on the written record, can the Department make a finding of "Good Cause" to approve the extension request?

Yes... "Good Cause" can be found. Approval of Extension Request

No ... "Good Cause" cannot be found. Denial of Extension Request

Conditions to be included in Extension PFO (if applicable)? Yes No

(NOTE: Check the file record for documentation to add a condition(s) at the extension stage.)

5-year Progress Report Checkpoints (Years: _____)

Other: last extension

Footnote regarding Claim of Beneficial Use. Choose the appropriate language below and insert as a footnote in the PFO:

- COBU Requirement - Surface/Ground Water - on or prior to July 9, 1987**
"For permits applied for or received on or before July 9, 1987, upon complete development of the permit, you must notify the Department that the work has been completed and either: (1) Hire a water right examiner certified under ORS 537.798 to conduct a survey, the original to be submitted as required by the Water Resources Department, for issuance of a water right certificate; or (2) Continue to appropriate water under the water right permit until the Water Resources Department conducts a survey and issues a water right certificate under ORS 537.250 or 537.625."
- COBU Requirement - Surface Water - post July 9, 1987**
"Pursuant to ORS 537.230(4), upon the completion of beneficial use of water allowed under the permit, the permit holder shall hire a certified water rights examiner to survey the appropriation. Within one year after the complete application of water to a beneficial use (or by the date allowed for the complete application of water to a beneficial use), the permit holder shall submit a map of the survey and the claim of beneficial use."
- COBU Requirement - Ground Water - post July 9, 1987**
"Pursuant to ORS 537.630(4), upon the completion of beneficial use of water allowed under the permit, the permit holder shall hire a certified water rights examiner to survey the appropriation. Within one year after the complete application of water to a beneficial use (or by the date allowed for the complete application of water to a beneficial use), the permit holder shall submit a map of the survey and the claim of beneficial use."

NOTES:

May need map to demonstrate acres developed.
Costs to design, plan and Monitor (\$350,000) not actual construction

Extension "PFO" Dates

Mailing / Issuance Date: _____ Protest Deadline Date: _____ FO Issuance Date: _____

Reviewer's Name: _____ Date: 7-26-18

Well Logs:	Logs for WM27.00S14.00W20 Logs for WM27.00S14.00W20 Logs for WM27.00S14.00W20 Logs for WM27.00S14.00W20 Logs for WM27.00S14.00W20 Logs for WM27.00S14.00W20 Logs for WM27.00S14.00W20 Logs for WM27.00S14.00W20 Logs for WM27.00S14.00W20
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Rules:

Withdrawn Authority:	-
Groundwater Restricted:	-
GW Restricted Subunit:	-
GW ODEQ Management Area:	-
GW Umatilla Muni Wells (5mile):	-
Rule 4D:	Rules apply
Division 33 (Area, Watershed, species):	STATEWIDE , <i>Coos Bay-Frontal Pacific Ocean</i> , Pacific Lamprey, Coho Salmon, Western Brook Lamprey, Steelhead
Irrigation Season of Use:	(unajudicated, west side) Adj. Status: Unadjudicated Subarea: undefined Irr. Season: Mar 1 to Oct 31 Duty: 2.5 Rate: 1/80

Water Quality Limited Pollutant 2012:	-
Fish Habitat 2014:	-
Is in Deschutes Study Area:	-
Deschutes Zone Impact:	-
Deschutes Zone Overlay:	-
Scenic Water Way:	-

Hydrography:

OWRD Streamcode:	171490 - Whisky Run
Waterbody Name:	-
HUC 10:	1710030403
HUC Watershed:	Coos Bay-Frontal Pacific Ocean

WAB Wshed Order:	1
WAB Analysis:	<u>WHISKY RUN > PACIFIC OCEAN - AT MOUTH</u>
Streamflow:	OWRD Opportunities: Poor ODFW Needs: Poor Combined Priority: Not a priority
Gaging Station Data:	-

Sources:

General

Oregon Public Land Survey Quarter-quarters. Bureau of Land Management, Oregon Water Resources Department.. n.d. 1:24,000.

Donated Land Claims. Oregon Water Resources Department. January 1, 1995. 1:100,000.

Elevation. DEM 10m. - -

Elevation. Lidar Elevation. DOGAMI Bare Earth 1:3.

OWRD Administrative Basins. Oregon Water Resources Department. January 1, 1995.

Oregon Counties. Bureau of Land Management (BLM), Oregon State Office.. January 1, 2008.

OWRD Watermaster Districts. Oregon Water Resources Department. March 31, 2014.

OWRD Regions. Oregon Water Resources Department. January 1, 1995.

ODFW Districts and Regions. Oregon Department of Fish and Wildlife. August 28, 2012.

Water Organizations Oregon Water Resources Department. April 1, 2013. 1:24,000.

Large Dams Inventory. Oregon Water Resources Department. August 12, 2014. 1:24,000.

Rules

Withdrawn Authority Areas. Oregon Water Resources Commission. January 1, 2007.

OWRD Groundwater Restricted Areas. Oregon Water Resources Department. October 5, 2016.

OWRD Groundwater Restricted Areas - Subunits. Oregon Water Resources Department. April 1, 2009.

ODEQ Groundwater Management Areas (GWMAs). Oregon Department of Environmental Quality. April 21, 2008.

Groundwater Umatilla Municipal Wells 5-mile buffer. Oregon Water Resources Department. June 28, 2012.

National Marine Fisheries Service (NMFS) 4(d) Rule. National Marine Fisheries Service. January 1,

2007.

OAR Chapter 690, Division 33 - HUC 10. Oregon Department of Fish & Wildlife. April 20, 2010.

Irrigation Season of Use. Oregon Water Resources Department, 2017.. March 24, 2017.

Oregon Water Quality Assessment 2012. This data set was assembled by the Oregon Department of Environmental Quality, Water Quality Division, Standards and Assessments Section.. December 4, 2014. 1:2,500,000.

Oregon Fish Habitat 2014. Oregon Department of Fish and Wildlife. Numerous fisheries biologists from ODFW as well as other natural resource agencies and tribes have contributed toward the development of these data. Data originator names are attributed at the feature level.. n.d. 1:24,000.

Deschutes USGS Groundwater Study Area. Water Resources Commission, U.S. Geological Survey (USGS) Water Resources Division (Portland, OR), Oregon Water Resources Department.. January 1, 2001. 1:100,000.

Deschutes Zones of Impact. Oregon Water Resources Department.. October 25, 2007.

Deschutes Zones Overlay. Oregon Water Resources Department. October 25, 2007.

Oregon State Scenic Waterway areas. Oregon Water Resources Department, Oregon Parks and Recreation Department.. January 1, 2007.

Hydrography

Routed OWRD Streamcodes (conflated to the NHD). Oregon Water Resources Dept.. August 11, 2014.

OWRD Lake Streamcodes (conflated to the NHD). Oregon Water Resources Dept.. August 7, 2015.

Watershed Boundary Dataset (WBD), 10-digit (watershed). Pacific Northwest Hydrography Framework, U.S. Geological Survey (USGS), National Resources Conservation Service (NRCS).. June 11, 2014. 1:24,000.

Water Availability Basins. Oregon Water Resources Department.. n.d. 1:100,000.

Priority Watersheds for Streamflow Restoration. Oregon Water Resources Dept. and the Oregon Dept. of Fish & Wildlife.. January 15, 2004.

Stream Gage Stations. Oregon Water Resources Department and US Geological Survey. n.d.

[close](#)

[Print Report](#)

Application: G-15697 Permit: G-15437
Public Notice Route Slip ... New Application Extension of Time
per Division 315 Rules... (Extensions received on July 1, 2001 or after)

Applicant/Permit
Holder(s)

Bally Bandon Sheep Ranch ✓
Phillip Friedman
P.O. Box 1750
Bandon, OR 97411

- WRIG...Money Received on: 7-23-18
- Extension Specialist ...
- Added to tracking spreadsheet

After fee is receipted and app is added to spreadsheet, route to...

- Stacy Phillips...
- N/A Recent Assignment (Check WRIS for Update)
 - Publish on Public Notice (initial 30-day comment): Date of notice 7-24-18
 - Update WRIS Database
 - In the "PNotice Date" field... Enter the date the Extension Application was published on the Public Notice.
 - In the "Ext Filed" field... Enter the date the Extension Application was received.

Yes or No: Return file to Extension Specialist after PN JP

NOTES:

**Water Right Conditions
Tracking Slip**

Groundwater/Hydrology Section

FILE #:: G - ~~15679~~ ~~15769~~ 15697

ROUTED TO: WATER RIGHTS

TOWNSHIP/

RANGE-SECTION: 27S/14W-20

CONDITIONS ATTACHED? []yes []no

REMARKS OR FURTHER INSTRUCTIONS:

Reviewer: D. Woodcock

IR CHECKLIST

Application #: 615697

County COOS Basin: _____ WAB: 17-72964

Township 27B Range 14W Section 20 1/4 1/4 NWSW
POA _____ SEC 20

- 10. Groundwater Review A B C D River/Stream Name Whiskey Run
 a. Groundwater Availability A B C
 b. Is the well located in a GWLA or CGWA or T1N R3E? (If applicable, include map with POD) Y N
 Name: _____
- 20. Use IRR 359²-A2 Priority Date(s) 2/4/02
- 30. Allowed under Basin Program Y N Limitations? Y N 690-517-001(8)
- 40. Withdrawn? Y N season allowed _____
- 45. Basin Maps have been checked. Y N River Mile _____
- 50. SWW Y N (if Y notify state parks)
- 60. Surface water Availability (80% live flow / 50% storage) NA NOT AT ANY TIME - ISWR
- 70. Divis 33: Y N / NA Above Bonn Y N If Y not allowed April 15 - September 30
 Below Bonn Y N If Y add PISPC
 Statewide Y N
- 80. Rate 1/80
 Duty 2'12 Rate: Max 359²/80 = 4.49 cfs Req 200 GPM / 0.45 cfs
 Season: Normal 3/1-10/31 Req 3/1-10/31
- 90. B.O.R. or Doug Co. project Y N contract # _____
- 100. Small (≤ 0.1 cfs, ≤ 9.2 AF) Medium (> 0.1 or < 1.5 cfs, > 9.2 or < 100 AF) or Large (≥ 1.5 cfs, ≥ 100 AF) condition 7I and municipal require the Large conditions _____
- 110. Land use approval OK'd needs approval county notified NA
- 120. Watermaster Dist: (1 2 16 18 20 - NWR) (3 4 5 21 - NCR) (6 8 9 10 - ER) (11 12 17 - SCR) (13 14 15 19 - SWR)
- 130. per interactive mapping DOA 1010 Y N Adopted _____ In Progress 303D Y N / NA CTUIR Y N
- 140. within Oregon Streamflow Restoration Area Y N / NA
- 150. Letter format == Good == Limited == Bad == Bad w/ IRshort == Bad w/ HC Opportunity
- 160. CWRE, representative, etc. to notify? Y N

NO CONFLICTS

Name: [Signature] Date: 8/23/02

The purpose of this checklist is to be used as a working document by Department staff to aid in the production of the related Initial Review, Proposed Final Order, or Final Order. It is not intended to be a complete record of all factors which were considered to produce the document, nor is it intended to serve any purpose other than that stated above. The related Initial Review, Proposed Final Order, or Final Order is intended to stand alone as the record of factors considered in its production.

__10. IR Date _____ Public Notice Date _____ Comment Rec'd _____

__20. Filed after 10/23/99? Y / N (if N A date should be included)

Changes from IR determinations: _____

Agencies and Additional People to Notify: _____

__30. Shortcomings preventing PFO, FO, or permit? Y / N Should process continue Y / N

__40. Is second groundwater review necessary? Y / N complete? Y / N

__50. IR identifies as on DEQ 303d List? Y / N / NA Comments received? Y / N

Initials: _____ Date: _____

OREGON WATER RESOURCES DEPARTMENT
ADMINISTRATIVE RULES
CHAPTER 690
DIVISION 517
SOUTH COAST BASIN PROGRAM

Classifications

690-517-001

- (1) Ground water resources in sections or the portions of Sections 13, 14, 22, 23, 26, 27, 32, 33 and 34 of Township 23 South, Range 13 West; 2, 3, 4, 9, 10, 11, 14, 15, 16, 17, 20, 21, 22, 27, 28, 29, 31, 32, 33 and 34 of Township 24 South, Range 13 West; and 3, 4, 5 and 6 of Township 25 South, Range 13 West, bounded on the north by Tenmile Creek, on the west by the Pacific Ocean, on the south by Coos Bay and on the east by Highway 101 are hereby classified for single or group domestic, livestock, irrigation of lawns and noncommercial gardens not exceeding one-half acre in area and any single industrial or commercial use not exceeding 5,000 gallons per day.
- (2) The waters of the following lakes are classified only for domestic, livestock, municipal, irrigation of lawns and noncommercial gardens not exceeding one-half acre in area and in-lake use for recreation, fish life and wildlife. The Director of the Water Resources Department may place specific limits on municipal appropriations from the lakes or require outlet control structures to protect recreation, fish life and wildlife uses:
 - (a) Bradley Lake
 - (b) Eel Lake
 - (c) Garrison Lake
- (3) All other natural lakes are classified only for domestic and livestock uses, irrigation of lawns and noncommercial gardens not exceeding one-half acre in area and in-lake use for recreation, fish life and wildlife.
- (4) Waters of the following streams and all tributaries are classified only for domestic and livestock uses, irrigation of lawns and noncommercial gardens not exceeding one-half acre in area, fire control and instream use for recreation, fish life and wildlife.
 - (a) Glenn Creek (tributary to the East Fork Millicoma River)
 - (b) Brush Creek
- (5) The waters of the Middle Fork of the Coquille River and tributaries upstream from the confluence with Holmes Creek are classified only for domestic, livestock and irrigation of lawns and noncommercial gardens not exceeding one-half acre in area and instream use for recreation, fish life and wildlife during the period from July 1 to September 30 of every year. Water stored between October 1 and June 30 may be used at any time for purposes specified in section (8).
- (6) The waters of the West Fork Millicoma River and tributaries above Stall Falls are classified for municipal, domestic and livestock uses, irrigation of lawns and noncommercial gardens not exceeding one-half acre in area and instream use for recreation, fish life and wildlife.

(7) The waters of Pony Creek above lower Pony Creek Dam and Ferry and Geiger Creeks above the Ferry Creek - Geiger Creek confluence are classified for municipal use.

(8) All other surface and ground water resources are hereby classified for domestic, livestock, municipal, industrial, fire control, irrigation, agricultural use, mining, power development, recreation, wildlife and fish life uses.

(9) Applications for the use of water for any purposes contrary to classifications specified in the basin program shall not be accepted or granted except as provided by law. The Director shall notify the Board and other interested individuals or agencies of the intent to accept an application for use in conflict with the adopted program in accordance with ORS 536.380 if the proposed use will not have a significant impact on any other water use as provided in sections (1) through (8) of OAR 690-517-001 and in 690-517-002 through 690-517-003.

(10) The planning, construction and operation of any structures or works for the utilization of water in accordance with the aforementioned classifications are to conform with the applicable provisions of ORS 536.310, including but not restricted to the recommendation of the multiple-purpose concept.

Reservations

690-517-002

Water in the amounts specified is reserved in the following streams for municipal use:

- (1) Chetco River - three cfs, downstream from the confluence with the North Fork Chetco River
- (2) Winchuck River - one cfs, downstream from the confluence with Bear Creek

Minimum Perennial Streamflows

690-517-003

(1) For the purpose of maintaining a minimum perennial streamflow sufficient to support aquatic life, no appropriations of water except for domestic or livestock uses and irrigation of noncommercial gardens not exceeding one-half acre in area shall be allowed for the waters of the streams and tributaries listed in Table 1 when flows are below the specified levels.

(2) The Water Policy Review Board requests the opportunity to review applications for an allowed beneficial use that has traditionally been identified as nonconsumptive or take-and-put, such as fish hatcheries, hydroelectric facilities, municipal or water process industries that could potentially impact, in an adverse way, the Board's minimum flow regime or the public interest. The Water Policy Review Board intends to continue to protect, in its entirety, that portion of the stream system on which any minimum streamflow has been established. Permitting procedures and water use regulation should reflect that objective as far as possible under the law. The Board solicits the advice or complaints of any party who is aware that the objectives are not being met.

(3) Minimum flows established in the Water Resource Program for the South Coast Basin dated May 22, 1964 (Table 3), shall remain in full force and effect except as follows:

- (a) The minimum perennial streamflow for the Elk River above U.S. Highway 101 crossing (45 cfs) is rescinded.

- (b) The minimum perennial streamflow for the Coquille River Middle Fork above Bear Creek (4 cfs) is rescinded.
 - (c) The minimum perennial streamflow for the Sixes River above the U.S. Highway 101 crossing is reduced to 25 cfs during the period from August 1 to September 30.
 - (d) The minimum perennial streamflow for the South Fork Coquille River near Powers is reduced to 15 cfs during the period from June 16 to September 30.
- (4) For purposes of distributing water, minimum flows established in 1964 shall be considered part of and not in addition to revised minimum flow regimes.
- (5) To support aquatic life and minimize pollution, in accordance with Section 3, Chapter 796, Oregon Laws 1983, no appropriations of water shall be made or granted by any state agency or public corporation of the state for the waters of the Coquille River and tributaries when flows are below the specified levels in Table 2. This limitation shall not apply to:
- (a) Domestic and livestock uses and irrigation of non-commercial gardens not exceeding 1/2 acre in area.
 - (b) Water legally released from storage.

Storage

690-517-004

- (1) All applications for appropriation of water for storage in structures impounding more than 3,000,000 gallons of water shall be reviewed by the Water Policy Review Board prior to approval. During the review the Water Policy Review Board may establish additional minimum flows on the natural flow of the stream to support aquatic life or minimize pollution.
- (2) The following reservoir sites should be protected through the comprehensive planning process for possible future development or until alternative methods of meeting water needs have been developed:
- (a) West Fork of the Millicoma River, site 223.
 - (b) South Fork of Coquille River at Eden Ridge, site 430.
 - (c) North Fork Coquille River, site 146A.
 - (d) Rock Creek at Rasler Creek, site 201.
 - (e) Catching Creek, site 101.
 - (f) Fourmile Creek, site 158.
 - (g) North Fork Floras Creek at Okietown, site 435.
 - (h) North Fork Chetco River, site 239.
 - (i) Wheeler Creek, site 241.
 - (j) East Fork Winchuck River, site 243.

(k) Joe Ney Slough.

Out-of-Basin Appropriations

690-517-005

No out-of-basin diversion of South Coast Basin water shall be made or granted by any state agency or public corporation of the state without the prior approval of, and following a public hearing by, the Water Policy Review Board.

Existing Rights

690-517-006

Water rights and permits issued prior to the effective date of this program shall not be affected except as provided in OAR 690-517-003 and section (1) of OAR 690-517-004.

NOTE: The South Coast Basin is delineated on Water Resources Department Map, File 17.6, available from the Water Resources Department.

TO: Water Rights Section APRIL 30, 2002
FROM: Groundwater/Hydrology Section D. Woodcock
SUBJECT: Application G- 15697 ~~15677~~ Reviewer's Name

GROUNDWATER/SURFACE WATER CONSIDERATIONS

1. PER THE Basin rules, one or more of the proposed POA's is/is not within feet/mile of a surface water source () and taps a groundwater source hydraulically connected to the surface water.

2. BASED UPON OAR 690-09 currently in effect, I have determined that the proposed groundwater use
 - a. will, or have the potential for substantial interference with the nearest
 - b. will not surface water source, namely Whiskey Run; or
 - c. will if properly conditioned, adequately protect the surface water from interference:
 - i. The permit should contain condition #(s) ;
 - ii. The permit should contain special condition(s) as indicated in "Remarks" below;
 - iii. The permit should be conditioned as indicated in item 4 below; or
 - d. will, with well reconstruction, adequately protect the surface from substantial interference.

GROUNDWATER AVAILABILITY CONSIDERATIONS

3. BASED UPON available data, I have determined that groundwater for the proposed use
 - a. will, or likely be available in the amounts requested without injury to prior rights
 - b. will not and/or within the capacity of the resource; or
 - c. will if properly conditioned, avoid injury to existing rights or to the groundwater resource:
 - i. The permit should contain condition #(s) ;
 - ii. The permit should contain special condition(s) as indicated in "Remarks" below;
 - iii. The permit should be conditioned as indicated in item 4 below; or

4.
 - a. THE PERMIT should allow groundwater production from no deeper than ft. below land surface;
 - b. The permit should allow groundwater production from no shallower than ft. below land surface;
 - c. The permit should allow groundwater production only from the groundwater reservoir between approximately ft. and ft. below land surface;
 - d. Well reconstruction is necessary to accomplish one or more of the above conditions.
 - e. One or more POA's commingle 2 or more sources of water. The applicant must select one source of water per POA and specify the proportion of water to be produced from each source.

REMARKS: _____

(Well Construction Considerations on Reverse Side)

WELL CONSTRUCTION (If more than one well doesn't meet standards, attach an additional sheet.)

5. THE WELL which is the point of appropriation for this application does not meet current well construction standards based upon:
- a. ___ review of the well log;
 - b. ___ field inspection by _____;
 - c. ___ report of CWRE _____;
 - d. ___ other: (specify) _____
6. THE WELL construction deficiency:
- a. ___ constitutes a health threat under Division 200 rules;
 - b. ___ commingles water from more than one groundwater reservoir;
 - c. ___ permits the loss of artesian head;
 - d. ___ permits the de-watering of one or more groundwater reservoirs;
 - e. ___ other: (specify) _____
7. THE WELL construction deficiency is described as follows: _____
8. THE WELL a. ___ was, or constructed according to the standards in effect at the time of
b. ___ was not original construction or most recent modification.
c. ___ I don't know if it met standards at the time of construction.

RECOMMENDATION:

- A. ___ I recommend including the following condition in the permit:
"No water may be appropriated under terms of this permit until the well(s) has been repaired to conform to current well construction standards and proof of such repair is filed with the Enforcement Section of the Water Resources Department."
- B. ___ I recommend withholding issuance of the permit until evidence of well reconstruction is filed with the Enforcement Section of the Water Resources Department.
- C. ___ REFER this review to Enforcement Section for concurrence.

THIS SECTION TO BE COMPLETED BY ENFORCEMENT PERSONNEL

I concur in G/H's recommendation A or B above relating to conditioning or withholding the permit
_____, 199__
(Signature)

I do not concur in G/H's recommendation A or B above relating to conditioning or withholding the permit for the following reasons:

_____, 199__
(Signature)

Analysis for Application: G15697

Location: 27.00 S-14.00 W-19-nese

Uses: IR 0.500 (P)

Basins

BASIN_NUM	BASIN_NAME
17	South Coast

Records Found: 1

WaterMaster Districts

WATERDIST	REGION	ACRES	SQ_MILES	WMASTER	ADDRESS	CITY	ZIP	PHONE	EXT	FAX
19	SW	2225055	3476	Lloyd VanGordon	Coos County Annex, 290 N Central St	Coquille	97423	541-396-3121	254	541-396-6233

Records Found: 1

WAB Records Found: 0

County

COUNTY	FIPS
Coos	41011

Records Found: 1

Groundwater Restricted Records Found: 0

Divison 33 Area

DIV33
In a Div33 area

Records Found: 1

Rule 4D

RULE4D
In a Rule4D Area

Records Found: 1

303D Streams Records Found: 0

303D Lakes Records Found: 0

Location: 27.00 S-14.00 W-19-sene

Uses: IR 9.500 (P)

Basins

BASIN_NUM	BASIN_NAME
17	South Coast

Records Found: 1

WaterMaster Districts

WATERDIST	REGION	ACRES	SQ_MILES	WMASTER	ADDRESS	CITY	ZIP	PHONE	EXT	FAX
19	SW	2225055	3476	Lloyd VanGordon	Coos County Annex, 290 N Central St	Coquille	97423	541-396-3121	254	541-396-6233

Records Found: 1

WAB Records Found: 0

County

COUNTY	FIPS
Coos	41011

Records Found: 1

Groundwater Restricted Records Found: 0

Divison 33 Area

DIV33
In a Div33 area

Records Found: 1

Rule 4D

RULE4D
In a Rule4D Area

Records Found: 1

303D Streams Records Found: 0

303D Lakes Records Found: 0

Location: 27.00 S-14.00 W-19-nene

Uses: IR 3.600 (P)

Basins

BASIN_NUM	BASIN_NAME
17	South Coast

Records Found: 1

WaterMaster Districts

WATERDIST	REGION	ACRES	SQ_MILES	WMASTER	ADDRESS	CITY	ZIP	PHONE	EXT	FAX
19	SW	2225055	3476	Lloyd VanGordon	Coos County Annex, 290 N Central St	Coquille	97423	541-396-3121	254	541-396-6233

Records Found: 1

WAB Records Found: 0

County

COUNTY	FIPS
Coos	41011

Records Found: 1

Groundwater Restricted Records Found: 0

Divison 33 Area

DIV33
In a Div33 area

Records Found: 1

Rule 4D

RULE4D
In a Rule4D Area

Records Found: 1

303D Streams Records Found: 0

303D Lakes Records Found: 0

Location: 27.00 S-14.00 W-20-sws

Uses: IR 15.800 (P)

Basins

BASIN_NUM	BASIN_NAME
17	South Coast

Records Found: 1

WaterMaster Districts

WATERDIST	REGION	ACRES	SQ_MILES	WMASTER	ADDRESS	CITY	ZIP	PHONE	EXT	FAX
19	SW	2225055	3476	Lloyd VanGordon	Coos County Annex, 290 N Central St	Coquille	97423	541-396-3121	254	541-396-6233

Records Found: 1

WAB

BASIN	WID	LINK1	LINK2
17	72964	Water Availability: 50% 80%	Flood Frequency Analysis

Records Found: 1

County

COUNTY	FIPS
Coos	41011

Records Found: 1

Groundwater Restricted Records Found: 0

Divison 33 Area

DIV33
In a Div33 area

Records Found: 1

Rule 4D

RULE4D
In a Rule4D Area

Records Found: 1

303D Streams Records Found: 0

303D Lakes Records Found: 0

Location: 27.00 S-14.00 W-20-sesw

Uses: IR 0.900 (P)

Basins

BASIN_NUM	BASIN_NAME
17	South Coast

Records Found: 1

WaterMaster Districts

WATERDIST	REGION	ACRES	SQ_MILES	WMASTER	ADDRESS	CITY	ZIP	PHONE	EXT	FAX
19	SW	2225055	3476	Lloyd VanGordon	Coos County Annex, 290 N Central St	Coquille	97423	541-396-3121	254	541-396-6233

Records Found: 1

WAB

BASIN	WID	LINK1	LINK2
17	72964	Water Availability: 50% 80%	Flood Frequency Analysis

Records Found: 1

County

COUNTY	FIPS
Coos	41011

Records Found: 1

Groundwater Restricted Records Found: 0

Divison 33 Area

DIV33
In a Div33 area

Records Found: 1

Rule 4D

RULE4D
In a Rule4D Area

Records Found: 1

303D Streams Records Found: 0

303D Lakes Records Found: 0

Location: 27.00 S-14.00 W-20-nwsW

Uses: IR 36.100 (P)

Basins

BASIN_NUM	BASIN_NAME
17	South Coast

Records Found: 1

WaterMaster Districts

WATERDIST	REGION	ACRES	SQ_MILES	WMASTER	ADDRESS	CITY	ZIP	PHONE	EXT	FAX
19	SW	2225055	3476	Lloyd VanGordon	Coos County Annex, 290 N Central St	Coquille	97423	541-396-3121	254	541-396-6233

Records Found: 1

WAB

BASIN	WID	LINK1	LINK2
17	72964	Water Availability: 50% 80%	Flood Frequency Analysis

Records Found: 1

County

COUNTY	FIPS
Coos	41011

Records Found: 1

Groundwater Restricted Records Found: 0

Divison 33 Area

DIV33
In a Div33 area

Records Found: 1

Rule 4D

RULE4D
In a Rule4D Area

Records Found: 1

303D Streams Records Found: 0

303D Lakes Records Found: 0

Location: 27.00 S-14.00 W-20-nesw

Uses: IR 25.500 (P)

Basins

BASIN_NUM	BASIN_NAME
17	South Coast

Records Found: 1

WaterMaster Districts

WATERDIST	REGION	ACRES	SQ_MILES	WMASTER	ADDRESS	CITY	ZIP	PHONE	EXT	FAX
19	SW	2225055	3476	Lloyd VanGordon	Coos County Annex, 290 N Central St	Coquille	97423	541-396-3121	254	541-396-6233

Records Found: 1

WAB

BASIN	WID	LINK1	LINK2
17	72964	Water Availability: 50% 80%	Flood Frequency Analysis

Records Found: 1

County

COUNTY	FIPS
Coos	41011

Records Found: 1

Groundwater Restricted Records Found: 0

Divison 33 Area

DIV33
In a Div33 area

Records Found: 1

Rule 4D

RULE4D
In a Rule4D Area

Records Found: 1

303D Streams Records Found: 0

303D Lakes Records Found: 0

Location: 27.00 S-14.00 W-20-swnw

Uses: IR 40.000 (P)

Basins

BASIN_NUM	BASIN_NAME
17	South Coast

Records Found: 1

WaterMaster Districts

WATERDIST	REGION	ACRES	SQ_MILES	WMASTER	ADDRESS	CITY	ZIP	PHONE	EXT	FAX
19	SW	2225055	3476	Lloyd VanGordon	Coos County Annex, 290 N Central St	Coquille	97423	541-396-3121	254	541-396-6233

Records Found: 1

WAB Records Found: 0

County

COUNTY	FIPS
Coos	41011

Records Found: 1

Groundwater Restricted Records Found: 0

Divison 33 Area

DIV33
In a Div33 area

Records Found: 1

Rule 4D

RULE4D
In a Rule4D Area

Records Found: 1

303D Streams Records Found: 0

303D Lakes Records Found: 0

Location: 27.00 S-14.00 W-20-senw

Uses: IR 40.000 (P)

Basins

BASIN_NUM	BASIN_NAME
17	South Coast

Records Found: 1

WaterMaster Districts

WATERDIST	REGION	ACRES	SQ_MILES	WMASTER	ADDRESS	CITY	ZIP	PHONE	EXT	FAX
19	SW	2225055	3476	Lloyd VanGordon	Coos County Annex, 290 N Central St	Coquille	97423	541-396-3121	254	541-396-6233

Records Found: 1

WAB

BASIN	WID	LINK1	LINK2
17	72964	Water Availability: 50% 80%	Flood Frequency Analysis

Records Found: 1

County

COUNTY	FIPS
Coos	41011

Records Found: 1

Groundwater Restricted Records Found: 0**Divison 33 Area**

DIV33
In a Div33 area

Records Found: 1

Rule 4D

RULE4D
In a Rule4D Area

Records Found: 1

303D Streams Records Found: 0**303D Lakes Records Found: 0****Location: 27.00 S-14.00 W-20-nwnw**

Uses: IR 37.900 (P)

Basins

BASIN_NUM	BASIN_NAME
17	South Coast

Records Found: 1

WaterMaster Districts

WATERDIST	REGION	ACRES	SQ_MILES	WMASTER	ADDRESS	CITY	ZIP	PHONE	EXT	FAX
19	SW	2225055	3476	Lloyd VanGordon	Coos County Annex, 290 N Central St	Coquille	97423	541-396-3121	254	541-396-6233

Records Found: 1

WAB Records Found: 0

County

COUNTY	FIPS
Coos	41011

Records Found: 1

Groundwater Restricted Records Found: 0

Divison 33 Area

DIV33
In a Div33 area

Records Found: 1

Rule 4D

RULE4D
In a Rule4D Area

Records Found: 1

303D Streams Records Found: 0

303D Lakes Records Found: 0

Location: 27.00 S-14.00 W-20-nenw

Uses: IR 38.600 (P)

Basins

BASIN_NUM	BASIN_NAME
17	South Coast

Records Found: 1

WaterMaster Districts

WATERDIST	REGION	ACRES	SQ_MILES	WMASTER	ADDRESS	CITY	ZIP	PHONE	EXT	FAX
19	SW	2225055	3476	Lloyd VanGordon	Coos County Annex, 290 N Central St	Coquille	97423	541-396-3121	254	541-396-6233

Records Found: 1

WAB

BASIN	WID	LINK1	LINK2
17	72964	Water Availability: 50% 80%	Flood Frequency Analysis

Records Found: 1

County

COUNTY	FIPS
Coos	41011

Records Found: 1

Groundwater Restricted Records Found: 0

Divison 33 Area

DIV33
In a Div33 area

Records Found: 1

Rule 4D

RULE4D
In a Rule4D Area

Records Found: 1

303D Streams Records Found: 0

303D Lakes Records Found: 0

Location: 27.00 S-14.00 W-20-nwse

Uses: IR 32.000 (P)

Basins

BASIN_NUM	BASIN_NAME
17	South Coast

Records Found: 1

WaterMaster Districts

WATERDIST	REGION	ACRES	SQ_MILES	WMASTER	ADDRESS	CITY	ZIP	PHONE	EXT	FAX
19	SW	2225055	3476	Lloyd VanGordon	Coos County Annex, 290 N Central St	Coquille	97423	541-396-3121	254	541-396-6233

Records Found: 1

WAB

BASIN	WID	LINK1	LINK2
17	72964	Water Availability: 50% 80%	Flood Frequency Analysis

Records Found: 1

County

COUNTY	FIPS
Coos	41011

Records Found: 1

Groundwater Restricted Records Found: 0

Divison 33 Area

DIV33
In a Div33 area

Records Found: 1

Rule 4D

RULE4D
In a Rule4D Area

Records Found: 1

303D Streams Records Found: 0

303D Lakes Records Found: 0

Location: 27.00 S-14.00 W-20-nese

Uses: IR 10.100 (P)

Basins

BASIN_NUM	BASIN_NAME
17	South Coast

Records Found: 1

WaterMaster Districts

WATERDIST	REGION	ACRES	SQ_MILES	WMASTER	ADDRESS	CITY	ZIP	PHONE	EXT	FAX
19	SW	2225055	3476	Lloyd VanGordon	Coos County Annex, 290 N Central St	Coquille	97423	541-396-3121	254	541-396-6233

Records Found: 1

WAB

BASIN	WID	LINK1	LINK2
17	72804	Water Availability: 50% 80%	Flood Frequency Analysis
17	72964	Water Availability: 50% 80%	Flood Frequency Analysis

Records Found: 2

County

COUNTY	FIPS
Coos	41011

Records Found: 1

Groundwater Restricted Records Found: 0

Divison 33 Area

DIV33
In a Div33 area

Records Found: 1

Rule 4D

RULE4D
In a Rule4D Area

Records Found: 1

303D Streams Records Found: 0

303D Lakes Records Found: 0

Location: 27.00 S-14.00 W-20-swne

Uses: IR 35.000 (P)

Basins

BASIN_NUM	BASIN_NAME
17	South Coast

Records Found: 1

WaterMaster Districts

WATERDIST	REGION	ACRES	SQ_MILES	WMASTER	ADDRESS	CITY	ZIP	PHONE	EXT	FAX
19	SW	2225055	3476	Lloyd VanGordon	Coos County Annex, 290 N Central St	Coquille	97423	541-396-3121	254	541-396-6233

Records Found: 1

WAB

BASIN	WID	LINK1	LINK2
17	72964	Water Availability: 50% 80%	Flood Frequency Analysis

Records Found: 1

County

COUNTY	FIPS
Coos	41011

Records Found: 1

Groundwater Restricted Records Found: 0

Divison 33 Area

DIV33
In a Div33 area

Records Found: 1

Rule 4D

RULE4D
In a Rule4D Area

Records Found: 1

303D Streams Records Found: 0

303D Lakes Records Found: 0

Location: 27.00 S-14.00 W-20-nwne

Uses: IR 33.700 (P)

Basins

BASIN_NUM	BASIN_NAME
17	South Coast

Records Found: 1

WaterMaster Districts

WATERDIST	REGION	ACRES	SQ_MILES	WMASTER	ADDRESS	CITY	ZIP	PHONE	EXT	FAX
19	SW	2225055	3476	Lloyd VanGordon	Coos County Annex, 290 N Central St	Coquille	97423	541-396-3121	254	541-396-6233

Records Found: 1

WAB

BASIN	WID	LINK1	LINK2
17	72804	Water Availability: 50% 80%	Flood Frequency Analysis
17	72964	Water Availability: 50% 80%	Flood Frequency Analysis

Records Found: 2

County

COUNTY	FIPS
Coos	41011

Records Found: 1

Groundwater Restricted Records Found: 0

Divison 33 Area

DIV33
In a Div33 area

Records Found: 1

Rule 4D

RULE4D
In a Rule4D Area

Records Found: 1

303D Streams Records Found: 0

303D Lakes Records Found: 0

LIMITING WATERSHEDS
 Water Availability as of 8/20/2002 for
 WHISKY RUN > PACIFIC OCEAN - AT MOUTH

Watershed ID #: 72964 Basin: SOUTH COAST Exceedance Level: 80
 Time: 13:54 Date: 08/20/2002

Mnth	Limiting Watershed	Stream Name	Water Avail?	Net Water Available
1	72964	WHISKY RUN > PACIFIC OCEAN - AT MOUTH	NO	-3.1
2	72964	WHISKY RUN > PACIFIC OCEAN - AT MOUTH	NO	-2.7
3	72964	WHISKY RUN > PACIFIC OCEAN - AT MOUTH	NO	-1.9
4	72964	WHISKY RUN > PACIFIC OCEAN - AT MOUTH	NO	-1.2
5	72964	WHISKY RUN > PACIFIC OCEAN - AT MOUTH	NO	-0.5
6	72964	WHISKY RUN > PACIFIC OCEAN - AT MOUTH	NO	-0.3
7	72964	WHISKY RUN > PACIFIC OCEAN - AT MOUTH	NO	-0.1
8	72964	WHISKY RUN > PACIFIC OCEAN - AT MOUTH	NO	0.0
9	72964	WHISKY RUN > PACIFIC OCEAN - AT MOUTH	NO	0.0
10	72964	WHISKY RUN > PACIFIC OCEAN - AT MOUTH	NO	0.0
11	72964	WHISKY RUN > PACIFIC OCEAN - AT MOUTH	NO	-0.7
12	72964	WHISKY RUN > PACIFIC OCEAN - AT MOUTH	NO	-2.8
Stor	72964	WHISKY RUN > PACIFIC OCEAN - AT MOUTH	YES	24.8

DETAILED REPORT ON THE WATER AVAILABILITY CALCULATION

Water Availability as of 8/20/2002 for
 WHISKY RUN > PACIFIC OCEAN - AT MOUTH

Watershed ID #: 72964 Basin: SOUTH COAST Exceedance Level: 80
 Time: 13:54 Date: 08/20/2002

Month	Natural Stream Flow	CU + Stor Prior to 1/1/93	CU + Stor After 1/1/93	Expected Stream Flow	Reserved Stream Flow	Instream Water Rights	Net Water Available
1	2.71	0.00	0.00	2.71	0.00	5.80	-3.09
2	3.71	0.00	0.00	3.71	0.00	6.42	-2.71
3	2.72	0.00	0.00	2.72	0.00	4.63	-1.91
4	1.69	0.00	0.00	1.69	0.00	2.87	-1.18
5	0.79	0.00	0.00	0.79	0.00	1.28	-0.49
6	0.46	0.00	0.00	0.46	0.00	0.75	-0.29
7	0.27	0.00	0.00	0.27	0.00	0.36	-0.09
8	0.15	0.00	0.00	0.15	0.00	0.18	-0.03
9	0.11	0.00	0.00	0.11	0.00	0.13	-0.02
10	0.10	0.00	0.00	0.10	0.00	0.14	-0.04
11	0.41	0.00	0.00	0.41	0.00	1.08	-0.67
12	1.82	0.00	0.00	1.82	0.00	4.62	-2.80
Stor	1720	2	0	1720	0	1690	25

WATER AVAILABILITY TABLE

Water Availability as of 8/20/2002 for
WHISKY RUN > PACIFIC OCEAN - AT MOUTH

Watershed ID #: 72964 Basin: SOUTH COAST Exceedance Level: 80
Time: 13:37 Date: 08/20/2002

Item #	Watershed ID #	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Sto
1	72964	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES

STREAM NAMES

Water Availability as of 8/20/2002 for
WHISKY RUN > PACIFIC OCEAN - AT MOUTH

Watershed ID #: 72964 Basin: SOUTH COAST Exceedance Level: 80

Item	Watershed ID	Stream Name
1	72964	WHISKY RUN > PACIFIC OCEAN - AT MOUTH

LIMITING WATERSHEDS

Water Availability as of 8/20/2002 for
WHISKY RUN > PACIFIC OCEAN - AT MOUTH

Watershed ID #: 72964 Basin: SOUTH COAST Exceedance Level: 80
Time: 13:54 Date: 08/20/2002

Mnth	Limiting Watershed	Stream Name	Water Avail?	Net Water Available
1	72964	WHISKY RUN > PACIFIC OCEAN - AT MOUTH	NO	-3.1
2	72964	WHISKY RUN > PACIFIC OCEAN - AT MOUTH	NO	-2.7
3	72964	WHISKY RUN > PACIFIC OCEAN - AT MOUTH	NO	-1.9
4	72964	WHISKY RUN > PACIFIC OCEAN - AT MOUTH	NO	-1.2
5	72964	WHISKY RUN > PACIFIC OCEAN - AT MOUTH	NO	-0.5
6	72964	WHISKY RUN > PACIFIC OCEAN - AT MOUTH	NO	-0.3
7	72964	WHISKY RUN > PACIFIC OCEAN - AT MOUTH	NO	-0.1
8	72964	WHISKY RUN > PACIFIC OCEAN - AT MOUTH	NO	0.0
9	72964	WHISKY RUN > PACIFIC OCEAN - AT MOUTH	NO	0.0
10	72964	WHISKY RUN > PACIFIC OCEAN - AT MOUTH	NO	0.0
11	72964	WHISKY RUN > PACIFIC OCEAN - AT MOUTH	NO	-0.7
12	72964	WHISKY RUN > PACIFIC OCEAN - AT MOUTH	NO	-2.8
Stor	72964	WHISKY RUN > PACIFIC OCEAN - AT MOUTH	YES	24.8

Plat Card Report for: *Township: 27S, Range: 14W Section: 19*

Application	Permit	Certificate	Status lot/dlc	NE				NW				SW				SE				Gov't Lot
				NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
G 15697 2/4/2002				3.600 IR			9.500 IR									0.500 IR				

Sub

Go to 27S, 14W, 19 page: 1

Go to Section: 19 20

Return to Plat Card Sear

NOTE: Please read the disclaimer before using this information.

Frequently asked questions and the abbreviations (water use codes) noted above are discussed in our Plat Card FAQ.

Plat Card Report for: *Township: 27S, Range: 14W Section: 20*

Application	Permit	Certificate	Status lot/dlc	NE				NW				SW				SE				Gov't Lot
				NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
GM 5697 2/4/2002					33.700 IR	35.000 IR		38.600 IR	37.900 IR	40.000 IR	40.000 IR	25.500 IR	36.100 IR	15.800 IR	0.900 IR	10.100 IR	32.000 IR			

Sub 3

Go to 27S, 14W, 20 page: 1

Go to Section: 19 20

Return to Plat Card Sear

NOTE: Please read the disclaimer before using this information.

Frequently asked questions and the abbreviations (water use codes) noted above are discussed in our Plat Card FAQ.

Water Rights Division

Water Rights Application
Number G-15697

Proposed Final Order

Summary of Recommendation: The Department recommends that the application be **denied**.

Application History

On FEBRUARY 4, 2002, PHIL FRIEDMAN for BALLY BANDON SHEEP RANCH submitted an application to the Department for the following water use permit:

- Amount of Water: 0.44 CUBIC FEET PER SECOND, BEING 0.22 CFS FROM EACH WELL
- Use of Water: IRRIGATION OF 359.2 ACRES
- Source of Water: TWO WELLS IN WHISKY RUN CREEK BASIN
- Area of Proposed Use: COOS County within SECTIONS 19 and 20, TOWNSHIP 27 SOUTH, RANGE 14 WEST, W.M.

On September 6, 2002, the Department mailed the applicant notice of its Initial Review, determining that "the use of 0.44 CUBIC FOOT PER SECOND, BEING 0.22 CFS FORM EACH WELL from TWO WELLS IN WHISKEY RUN CREEK BASIN for IRRIGATION OF 359.2 ACRES is not allowable, and it appears unlikely that you will be issued a permit." The applicant did not notify the Department to stop processing the application within 14 days of that date.

On September 24, 2002, the Department gave public notice of the application in its weekly notice. The public notice included a request for comments, and information for interested persons about both obtaining future notices and a copy of the proposed final order.

No written comments were received within 30 days.

In reviewing applications, the Department may consider any relevant sources of information, including the following:

- comments by or consultation with another state agency
- any applicable basin program

- any applicable comprehensive plan or zoning ordinance
- the amount of water available
- the rate and duty for the proposed use
- pending senior applications and existing water rights of record
- designations of any critical groundwater areas
- the Scenic Waterway requirements of ORS 390.835
- applicable statutes, administrative rules, and case law
- any general basin-wide standard for flow rate and duty of water allowed
- the need for a flow rate and duty higher than the general standard
- any comments received

Findings of Fact

The South Coast Basin Program allows IRRIGATION.

TWO WELLS IN WHISKY RUN CREEK BASIN are not within or above a State Scenic Waterway.

The Groundwater Section finds, per OAR 390.835(9), there is not a preponderance of evidence that the proposed use of groundwater will not measurably reduce the surface water flows necessary to maintain the free-flowing character of a scenic waterway in quantities necessary for recreation, fish and wildlife.

The Department determined, based upon OAR 690-09, that the proposed groundwater use will have the potential for substantial interference with the nearest surface water source, namely Whiskey Run Creek.

In accordance with OAR 690-33-330, an interagency team reviewed this proposed use for potential adverse impacts on sensitive, threatened and endangered fish populations. This team consisted of representatives from the Oregon Departments of Water Resources (WRD), Environmental Quality, Fish and Wildlife (DFW), and Agriculture. WRD and DFW representatives included both technical and field staff. The interagency team recommended that additional limitations or conditions of use be imposed on this application as follows:

Use of water shall be limited if it reduces water flow from Whiskey Run Creek.

An assessment of groundwater availability has been completed by the Department's Groundwater/Hydrology section. A copy of this assessment is in the file. The proposed use of groundwater will not likely be available in the amounts requested without injury to prior groundwater rights and/or within the capacity of the groundwater resource.

Because the proposed use of water would have the potential with substantial interference with surface water, an assessment of surface water availability has been completed. This assessment compared a calculation of natural streamflow minus the consumption portion of all relevant rights of record. A copy of this assessment is in the file. This assessment determined that water is not available for further appropriation (at an 80 percent exceedance probability) at any time of the year.

The proposed well is not within a designated critical ground water area.

Conclusions of Law

Under the provisions of ORS 537.621, the Department must presume that a proposed use will ensure the preservation of the public welfare, safety and health if the proposed use is allowed in the applicable basin program established pursuant to ORS 536.300 and 536.340 or given a preference under ORS 536.310(12), if water is available, if the proposed use will not injure other water rights and if the proposed use complies with rules of the Water Resources Commission.

The South Coast Basin Program allows the proposed use.

No preference for this use is granted under the provisions of ORS 536.310(12).

Water **is not** available for the proposed use.

The proposed use **will not** injure other water rights.

The proposed use **does not comply** with other rules of the Water Resources Commission not otherwise described above.

The proposed use is compatible with applicable land use plans.

No proposed flow rate and duty of water higher than the general basin-wide standard is needed.

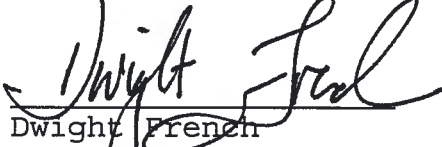
For these reasons, the required presumption **has not** been established.

The Department therefore concludes that water **is not** available in the amount of water necessary for the proposed use; and the proposed use would not ensure the preservation of the public welfare, safety and health as described in ORS 537.525.

Recommendation

The Department recommends that the application be denied.

DATED November 12, 2002


Dwight French
Water Rights Section Manager

*If you have any questions,
please check the information
box on the last page for the
appropriate names and
phone numbers.*

Protest Rights and Standing

Under the provisions of 537.621(7), you have the right to protest this proposed final order. Your protest must be in writing, and must include the following:

- Your name, address, and telephone number;
- A description of your interest in the proposed final order, and, if you claim to represent the public interest, a precise statement of the public interest represented;
- A detailed description of how the action proposed in this proposed final order would impair or be detrimental to your interest;
- A detailed description of how the proposed final order is in error or deficient, and how to correct the alleged error or deficiency;
- Any citation of legal authority to support your protest, if known; and
- If you are not the applicant, the \$200 protest fee required by ORS 536.050 and proof of service of the protest upon the applicant.
- If you are the applicant, a statement of whether or not you are requesting a contested case hearing. If you do not request a hearing, the Department will presume that you do not wish to contest the findings of the proposed final order.
- If you do not protest this Proposed Final Order and if no substantive changes are made in the final order, you will not have an opportunity for judicial review, protest or appeal of the final order when it is issued.
- *Persons other than the applicant who support the proposed final order may request standing for the purposes of participating in any contested case proceeding on the proposed final order or for judicial review of a final order.*
- *Requests for standing shall meet the requirements described in*

OAR 690-310-160 and shall be accompanied by the \$50.00 standing fee established under ORS 536.050.

Your protest or request for standing must be received in the Water Resources Department no later than **December 27, 2002**.

After the protest period has ended, the Director will either issue a final order or schedule a contested case hearing. The contested case hearing will be scheduled only if a protest has been submitted and if

- upon review of the issues, the director finds that there are significant disputes related to the proposed use of water, or
- the applicant requests a contested case hearing within 30 days after the close of the protest period.

This document was prepared by Anita Huffman. If you have any questions about any of the statements contained in this document I am most likely the best person to answer your questions. You can reach me at 1-503-378-8455 extension 229.

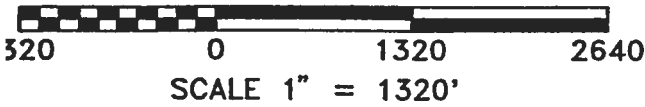
If you have questions about how to file a protest or if you have previously filed a protest and want to know the status, please contact Renee Moulun. Her extension number is 239.

If you have other questions about the Department or any of its programs please contact our Water Rights Information Group at extension 201.

Address all other correspondence to:

Water Rights Section, Oregon Water Resources Department, 158 12th ST. NE Salem, OR 97301

Fax: (503)378-6203

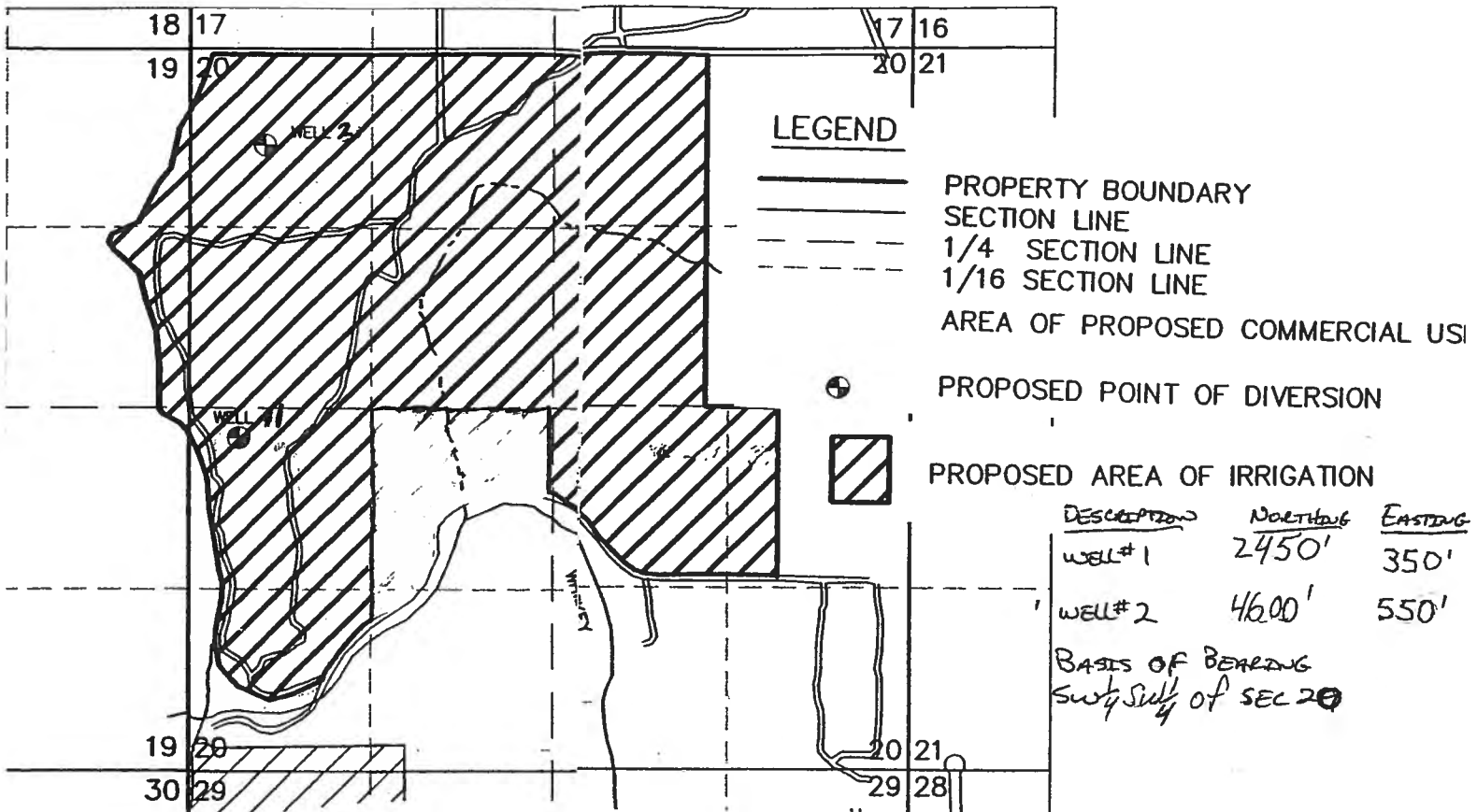


TOWNSHIP	RANGE	SECTION	0.25		APPROXIMATE	APPROXIMATE
			0.25	0.25	TOTAL	IRRIGATED
					ACRES	ACRES
27	14	19	NE	NE	3.8	3.8
27	14	19	SE	NE	9.5	9.5
27	14	19	NE	SE	0.5	0.5
27	14	20	NW	NW	37.9	37.9
27	14	20	NE	NW	38.6	38.6
27	14	20	SE	NW	40.0	40.0
27	14	20	SW	NW	40.0	40.0
27	14	20	NW	NE	33.7	33.7
27	14	20	SW	NE	35.0	35.0
27	14	20	NW	SE	32.0	32.0
27	14	20	NE	SE	10.1	10.1
27	14	20	NW	SW	38.1	38.1
27	14	20	NE	SW	25.5	25.5
27	14	20	SE	SW	0.9	0.9
27	14	20	SW	SW	15.8	15.8
TOTAL APPROXIMATE ACRES					359.2	359.2

Application No. 9-15697
Permit No.

T.L. 100, 400,
SEC. 20, T.27S., R.14W., W.M.
BANDON, COOS COUNTY, OREGON

APPLICATION FOR WATER RIGHTS AREA OF USE AND POINT OF DIVERSION MAP



Recycled Paper Greetings®

100% recycled paper since 1971

To: Dwight French Fax Number: 503/378-6203

Water Rights Section Mgr.

From: Philip Friedmann

Date: 12/19/02 Number of pages to follow: 2

December 19, 2002

Our Ref.: 023-1206

Water Rights Section
Oregon Water Resources Department
158 12th Street, N.E.
Salem, OR 97301

Attention: Dwight French, Water Rights Section Manager

**RE: PROTEST OF PROPOSED FINAL ORDER FOR BALLY BANDON SHEEP RANCH
WELL – WATER RIGHTS APPLICATION G-15697**

Dear Mr. French:

My name is Philip Friedmann. I am the applicant for the above water right. My address is:

Bally Bandon Sheep Ranch,

P.O. Box 1756,

Bandon, Oregon 97411

Telephone No. (541) 530-6839 or (773) 348-6410

The purpose of my water rights application is to put groundwater to beneficial use to irrigate a golf course on private land located partly within the Whisky Run Creek Basin. Water is required for irrigation purposes because precipitation during the growing season is insufficient to meet the evapotranspiration needs of the turf and pasture grasses used for the golf course. Absent irrigation, turf and pasture grasses will wither and will be unsuitable for the proposed recreational activities. Consequently, I will be unable to develop the recreational facilities. Both I and the local community will suffer an economic loss.

I hereby protest the decision of the Department with regard to the Proposed Final Order for the above application. I have retained Golder Associates Inc. to provide technical consulting services with respect to groundwater issues for this water rights application.

The basis for my protest to the Department's Proposed Order is presented in Golder Associates report titled "Pumping Test, Bally Bandon Sheep Ranch Irrigation Well", dated November 2002. This report details that based on measurements in October 2002 that the amount of water in Whisky Run Creek is approximately 10 times greater than the Department's estimate. As a result, the previously allocated water rights and instream flows are only a small portion of the natural discharge rather than comprising the total natural discharge as stated by the Department. There is thus considerably more water available for allocation in the Whisky Run basin than indicated in the Department's Water Rights Data Base/Water Availability Tables. Golder Associates also evaluated the potential effect on instream flows of the proposed water right application. The potential effect on streamflows in the

Dwight French
OWRD

-2-

December 19, 2002
023-1206.002

summer and fall was estimated to be 1.5 to 2% of the low flow discharge. This effect is very small and is unlikely to have any significant impact on instream flows necessary for recreation, fish and wildlife.

It is my consultant's opinion that the error in the Department's Water Availability Tables should be corrected by the Department based on actual streamflow measurements in Whisky Run Creek. In view of the much greater natural streamflow (considerably in excess of instream flow requirements), my water right should be granted with an approved Monitoring Plan. The Monitoring Plan would specify the additional streamflow measurements that would be performed to enable the Department to update its Water Availability Tables. I wish to put water to beneficial use per the water right prior to, during, and following the period of streamflow data collection.

In view of the new information in the Golder report, I request a Contested Case Hearing to resolve the water right application. However, my expectation is that a Settlement Agreement can be reached between myself and the Department prior to the hearing. I have asked Golder Associates to work with the Department to reach a mutually agreeable Settlement Agreement.

I look forward to resolving the water right application. Please contact me or David Banton at Golder Associates if you have any questions regarding the water rights application or the protest.




Sincerely,



c.cc David Banton, Golder Associates Inc.



LEGEND

-  Proposed Irrigation Wells (G-15920)
-  Proposed Irrigation Wells (G-15697)
-  PLSS Quarter Sections

0 1320
 Scale 1" = 1320 Feet
 Map Projection:
 Oregon State Plane, NAD 83,
 South Zone, Feet
 Source: Regional Ecosystem
 Organization

RECEIVED
 MAR 05 2003
 WATER RESOURCES DEPT
 SALEM, OREGON

Site Map			
BALLY BSR/GROUNDWATER SERVICES/OR			
Drawn: GKL	Revision: 1	Date: Mar 03, 2003	Figure: 1

PFO CHECKLIST

Application #: G 15697

Basin: SO. COAST WID: _____

County COOS Township 27S Range 14W Section 20 1/4 1/4 mech

- 1. Is the file complete by the Minimum Requirements Checklist? Y/N
- 2. Shortcomings (items needed before a permit and/or FO can be issued) Y/N
Check file for indicators that the process **should not** continue until a later date (ie - protest, letter to file indicating hold, or other)
- 3. Groundwater Review A B C D River/Stream Name _____ Conditions _____
 - a. Groundwater Availability A B C
 - b. Is second groundwater review necessary? (comments) Y/N
 - c. Is HB 1033 review complete? Y/N
 - d. Is the well located in a GWLA or CA? (if applicable, include map with POD) Y/N
- 4. Is use from a B.O.R. or Douglas County project? Y/N Contract in file? Y/N Contract # _____
- 5. Is the use allowed by the Basin Program? Y/N Limited? Y/N
- 6. Water Availability Data OK/REDONE/NA (50% before July 17, 1992; 80% live flow & 50% storage after July 17, 1992)
- 7. Is the source withdrawn or limited by statute or Department withdrawal order? Y/N
- 8. Is the Proposed Use located in or above a Scenic Waterway? Y/N
- 9. Division 33: Above Bonn (after July 17, 1992) Y/N/NA
Below Bonn (after April 8, 1994; June 3, 1994) Y/N/NA
Statewide - (in shaded areas on T, E, and S Map - after June 3, 1994) Y/N/NA
- 10. Per the IR, is the Proposed Source on the DEQ 303d List? Y/N If so, any comments received? Y/N
Is the Proposed Use in an existing or draft Dept of Ag. Water Quality Management Plan Area? Y/SE
- 11. Have conflicts been addressed? Y/N no conflicts
- 12. Rate N/A Deny Duty _____ Irrigation Season _____
- 13. Period of Allowed Use none - no w/a @ anytime of the year
- 14. Allowed Rate of Use _____
- 15. N/A Is the use **Small** (≤ 0.1 cfs, ≤ 9.2 AF), **Medium** (> 0.1 or < 1.5 cfs, > 9.2 or < 100 AF) or **Large** (≥ 1.5 cfs, ≥ 100 AF)?
If the use is Municipal and ≤ 0.1 CFS, use **Large** condition.
- 16. Conditions none - Deny
Is the proposed use within the New River Basin? Y/N If yes, include New River Agreement Conditions.
- 17. IR Public Notice Date 9/24/02 Comments Received? Y/N
- 18. Was the application filed on or after October 23, 1999? Y/N If yes, then no A date.
- 19. Final Report Checklist
 - Documents used in determination are attached to this checklist and highlighted
 - Fill out PFO CC List (don't forget to check for other property owners)
 - a. Re-notify Water Availability? (Rate, Duty and Period of Allowed Use changes) Y/N
 - b. **Check Watermaster Dist. on the CC list and draft permit.**
 - Spell Check and Accuracy Check
 - Final PFO report hard copy check (format, margins, etc.)
 - Final PFO has been saved to m:\groups\wr\pfo\done\week#\application #

Name: _____ Date: _____

FO CHECKLIST

FILE # 615697
PFO WEEK # _____
FO WEEK # _____

PFO TO FO CONVERSION

REVIEW DATE: / /
INITIALS: _____
WM District: _____
Region Mgr: _____
ODFW Bio: _____

Y / N Has applicant name and/or address changed; or has the file been assigned?

If new: _____

In preparing to create the FO, you should check the following:

1. Y / N Were comments received? If so, from whom and when? _____
Respond to significant comments, issues, or disputes related to the proposed use of water (see notes, if any, listed above)

2. _____ On the PFO CC list, verify names and mailing addresses of ALL commentors (regardless of comment date, affected landowners, and those who paid the \$10 fee.

3. Y / N / NA Have affected land owners been notified? If not, refer to #8.

4. Y / N / NA Has ODFW asked for self certification of screening condition? If yes, include fish screening form.

5. _____ Correct PFO errors (such as POD or POU location (verify from map)

6. _____ Are requested GW conditions included in permit? If no, add condition(s): _____

7. _____ Verify Payment of recording fees (circle the appropriate option)

(1) Issue FO w/permit if fees are paid — Prepare refund request for excess fees, including standing fees if no protest is filed and no modifications are being made to the PFO.

(2) Issue FO w/o permit if fees are lacking.

1st CFS/AF _____
Addnl. _____
TOTAL Q _____

Exam Fee Paid _____
Q fee _____
Subtotal _____
Recording Fee _____
Total _____
Amount Paid _____
Amount due/refund _____

8. Y / N Is further processing possible? If not state reason: _____

FO Type: (circle types) DENIAL

FO w/o PERMIT (REASON: Lacks Fees Lacks Easement Lacks Approved Dam Plans and Specifications)

FO & PERMIT (Permit # _____)

Once FO document is completed:

9. _____ Save WordPerfect document in S:\GROUPS\WR\FO\WEEK_____.

10. _____ Print final draft of document and submit for peer review. Peer Reviewer: _____

11. Complete routing list

The purpose of this checklist is to be used as a working document by Department staff to aid in the production of the related Initial Review, Proposed Final Order, or Final Order. It is not intended to be a complete record of all factors which were considered to produce the document, nor is it intended to serve any purpose other than that stated above.

The related Initial Review, Proposed Final Order, or Final Order is intended to stand alone as the record of factors considered in its production

FAX TRANSMITTAL



Oregon Department of Fish and Wildlife

Umpqua Watershed District/Charleston Field Office
 63538 Boat Basin Dr.
 PO Box 5430
 Charleston, OR 97420

TO: _____

FAX NUMBER: _____

From: _____

Phone Number: 541-888-5515

Date: _____ Time: _____

Fax Number: 541-888-6860

Pages To Follow: _____

PLEASE NOTE: *The document(s) accompanying this fax transmission may contain confidential, legally privileged information belonging to the sender. The information is intended only for the use of the individual(s) or entities listed above. If you are not the intended-recipient, you are hereby notified that any disclosure, copying, distribution, or taking of action in reliance on the contents of this information is without consent. If you receive this transmission in error, please notify us immediately so that we may arrange for the return of the document(s).*

Comments/Instructions:

Anita,

Please replace w/ previous

(I changed the status of steelhead)

<input type="checkbox"/>	Please circulate	<input type="checkbox"/>	Take necessary action	<input type="checkbox"/>	Prepare reply
<input type="checkbox"/>	For your information	<input type="checkbox"/>	Please investigate	<input type="checkbox"/>	As you requested
<input type="checkbox"/>	For your signature	<input type="checkbox"/>	For your comments	<input type="checkbox"/>	Initial and return
<input type="checkbox"/>	Edit and return	<input type="checkbox"/>	Call me	<input type="checkbox"/>	Originals to follow

ODFW DIVISION 33 APPLICATION REVIEW SHEET

Craft

Recommendations for Water Right Applications that may affect the Habitat of Sensitive, Threatened or Endangered Fish Species, OAR 690-33-310 through 340.

Date: ~~9/16/02~~ 9/16/02 21 day Deadline Date: 9/27/02 Application # 615697

Applicant's Name: Bally Bandon Sheep Ranch

1) Will the proposed use occur in an area that may affect the essential habitat of sensitive, threatened, or endangered fish species? [690-33-330(1)]

NO / (YES) Species: Steelhead ^(state candidate for listing) Status: Sensitive, Threatened, Endangered *steel*

IF ANSWER TO QUESTION (1) IS YES, CONTINUE ON THIS PAGE TO QUESTION (2),

IF ANSWER IS NO, FILL OUT PUBLIC INTEREST REVIEW SHEET (PAGE 2)

What stage or value is at risk (circle all that apply): Spawning, Incubation, Rearing, Passage, Habitat Value

2) Will the proposed use result in a LOSS in the essential habitat of THREATENED OR ENDANGERED SPECIES or a NET LOSS in the habitat of a SENSITIVE SPECIES?

NO / (YES)

- A) Standard of NET LOSS applies to sensitive species statewide. [690-33-330(2)(a)]
- B) Standard of LOSS applies to T or E species outside the Columbia Basin. [690-33-330(2)(b)]

3) Can conditions be applied to mitigate the impact to the essential habitat of a S, T or E species?

NO / YES [690-33-330(3)]

Which conditions are recommended? Very limited water flow (B51a)

Yes - Use of water shall be limited if it reduces water flow from Whiskey Run Creek Basin

(Try to select conditions from the Menu of Conditions)

4) If conditions cannot be identified to offset impacts to the essential habitat of S, T or E species, would the proposed use harm the species?

NO / (YES) [690-33-330(4)]

If YES, please explain: Low water conditions may decrease spawning, rearing + passage habitat for cutthroat + possibly steelhead.

ODFW RECOMMENDATION:

Approval with fishery conditions.

Approval without fishery conditions.

Denial

ODFW Representative: Name: Nadine Craft Date: 9-26-02

WRD Contact: Caseworker: Anita Huffman, Water Rights Division

503-378-8455 ext. 229 / Fax: 503-378-6203 / e-mail: Anita.M.HUFFMAN@rd.or.state.us

ODFW DIVISION 33 APPLICATION REVIEW SHEET

Craft

Recommendations for Water Right Applications that may affect the Habitat of Sensitive, Threatened or Endangered Fish Species, OAR 690-33-310 through 340.

Date: ~~9/22/02~~ 9/6/02 21 day Deadline Date: 9/27/02 Application # 615697

Applicant's Name: Bally Bandon Sheep Ranch

1) Will the proposed use occur in an area that may affect the essential habitat of sensitive, threatened, or endangered fish species? [690-33-330(1)]

NO / **YES** Species: Steelhead ^{Federal candidate for listing} Status: Sensitive, Threatened, Endangered

IF ANSWER TO QUESTION (1) IS YES, CONTINUE ON THIS PAGE TO QUESTION (2),
IF ANSWER IS NO, FILL OUT PUBLIC INTEREST REVIEW SHEET (PAGE 2)

What stage or value is at risk (circle all that apply): Spawning, Incubation, Rearing, Passage, Habitat Value

2) Will the proposed use result in a LOSS in the essential habitat of THREATENED OR ENDANGERED SPECIES or a NET LOSS in the habitat of a SENSITIVE SPECIES?

NO / **YES**
A) Standard of NET LOSS applies to sensitive species statewide. [690-33-330(2)(a)]
B) Standard of LOSS applies to T or E species outside the Columbia Basin. [690-33-330(2)(b)]

3) Can conditions be applied to mitigate the impact to the essential habitat of a S, T or E species?
NO / YES [690-33-330(3)]

Which conditions are recommended? ^{Very} Limited water flow (B51a)
4a - Use of water shall be limited if it reduces water flow from Whiskey Run Creek Basin
(Try to select conditions from the Menu of Conditions)

4) If conditions cannot be identified to offset impacts to the essential habitat of S, T or E species, would the proposed use harm the species?

NO / **YES** [690-33-330(4)]
If YES, please explain: Low water conditions may decrease spawning, rearing + passage habitat for in habitat + possibly steelhead

ODFW RECOMMENDATION:

Approval with fishery conditions.

Approval without fishery conditions.

Denial:

ODFW Representative: Name: Nadine Craft Date: 9-26-02

WRD Contact Caseworker: Anita Huffman, Water Rights Division

503-378-8455 ext. 229 / Fax: 503-378-6203 / e-mail: Anita.M.HUFFMAN@rd.or.state.us

Standard Application "Completeness" Checklist

Minimum Requirements (OAR 690-310-040)

Application # - <u>G-15697</u>	County: <u>COOS</u>
Priority Date: _____	Township: <u>27 S</u>
Use(s): <u>IRRIG</u> <u>TURF & PASTURE</u>	Range: <u>14 W</u>
Rate: <u>0.4456 CFS</u> <u>200 gpm</u>	Section: <u>19 & 20</u>
	POD ¼ ¼: _____
	POU ¼ ¼: _____

- Applicant/Organization Name, Mailing Address and Telephone Number. If applicant is other than a private landowner, Organizations _____
- Source and tributary listed? _____
- Property ownership indicated? If name and mailing address listed? (source is locatedor..... any Land works.) **NOTE:** An easement or a be required before a permit will _____
- If a groundwater application...is _____
- Proposed Use of the water.... Is _____
- Has the appropriate "Suppleme
Form I (Irrigation)
____ Form R (Mining)
____ Spring Description Shee
- Amount of water from each _____
0.4
- Acreage being proposed, if _____

ANITA,
Per Julie Forsgren, the well-location coordinates are not right.
R.W
2-5-02
P.S. Can we use them?
Yes! per our Reg. Unit
this is a just track!

Season being requested by applicant. _____

The water management section has been completed? If system has not been designed, the applicant may estimate this information. _____

Resource protection system completed on Surface Water application? _____

Are the dates of construction indicated? _____
If system already completed, applicant should indicate existing.

Is the application signed in ink by the applicant? If the application is in the name of an organization or corporation, the authorized agent must sign the application.

Is a copy of the deed, land sales contract or title insurance policy included? We cannot accept a copy of the tax bill. *MAILING TO ANITA*

A completed Land-Use Form or receipt signed by the appropriate planning department officials enclosed? Does the use on land-use form match the proposed use on the application?

Does the map meet map requirements of OAR 690-310-050? _____

- | | | |
|---|--|--|
| <input type="checkbox"/> Town, Range, Sec, ¼¼ and Tax Lot # | <input type="checkbox"/> Scale of the Map | <input type="checkbox"/> Reference corner on map |
| <input type="checkbox"/> North Directional Symbol | <input type="checkbox"/> ¼¼'s clearly identified | <input type="checkbox"/> POD clearly identified |
| <input type="checkbox"/> POU clearly identified | <input type="checkbox"/> Location Coordinates for each POD | |
| <input type="checkbox"/> Location of House, if Domestic | <input type="checkbox"/> Number of acres per ¼¼, if Irrigation | |
| <input type="checkbox"/> Location of Bldg, if Comm/Indus | <input type="checkbox"/> Location of Stock Tanks, if Livestock | |
| <input type="checkbox"/> Muni/Quasi-Muni Service Boundaries | <input type="checkbox"/> Other _____ | |

Correct fees enclosed? Refer to worksheet to calculate fees.

Total Paid \$ _____	Base Fee \$ _____
	plus _____
Total Amount of Water Requested: _____	plus _____
	Total Exam Fee \$ _____

Total Exam Fee \$ <u>400</u>	Recording Fee \$ _____
------------------------------	------------------------

Completeness Check by: ANITA & DWIGHT Date: MON FEB 4 2002

Standard Application "Completeness" Checklist

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	POD ¼ ¼: _____
	POU ¼ ¼: _____

Applicant/Organization Name, Mailing Address and Telephone Number. If applicant is other than a private landowner, Organizations section must be completed.

Source and tributary listed? _____

Property ownership indicated? If applicant does not own all the land, is the affected landowner's name and mailing address listed? (Including: Lands, not owned by applicant, upon which the source is locatedor..... any Lands, not owned by applicant, which are crossed by the diversion works.) **NOTE: An easement or agreement DOES NOT need to be submitted at this time, but will be required before a permit will be issued.**

If a groundwater application...is the groundwater development section completed? WELL LOGS

Proposed Use of the water.... Is each proposed use identified? _____

Has the appropriate "Supplemental Form" for each proposed use been completed?

Form I (Irrigation) ___ Form M (Municipal or Quasi-Municipal)

___ Form R (Mining) ___ Form Q (Commercial or Industrial)

___ Spring Description Sheet (if source is a Spring)

Amount of water from each source listed in GPM, CFS or AF? 200 gpm
0.4456 CFS

Acreage being proposed, if applicable. 359.2 ACRES

Season being requested by applicant. _____

The water management section has been completed? If system has not been designed, the applicant may estimate this information. _____

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- Town, Range, Sec, ¼¼ and Tax Lot # Scale of the Map Reference corner on map
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- POU clearly identified Location Coordinates for each POD
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- Location of Bldg, if Comm/Indus Location of Stock Tanks, if Livestock
- Muni/Quasi-Muni Service Boundaries Other _____

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Total Paid \$ _____ Base Fee \$ _____
 plus _____
 Total Amount of Water Requested: _____ plus _____
 Total Exam Fee \$ _____

Total Exam Fee \$ <u>400</u> Recording Fee \$ _____

Completeness Check by: *ANITA & DWIGHT* Date: *MON FEB 4 2002*

#19

WATERMASTER DIVISION 33 APPLICATION WORK SHEET

Recommendations for Water Right Applications that may affect the Habitat of Sensitive, Threatened or Endangered Fish Species, OAR 690-33-310 through 340.

Date: 9-6-02 21 day Deadline Date: 9-27-02 Application # G-15697

Applicant's Name: Phil Friedman for Bally Bandon Sheep Ranch

SOURCE OF WATER: GROUNDWATER SURFACE WATER STORAGE

DESCRIPTION OF THE SOURCE: Well
(A spring, well, sump, exempt pond, unnamed stream, etc.)

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SALEM, OREGON

1) If from surface water, does the water at the proposed diversion location flow into another water body?

YES NO SOMETIMES

If sometimes, describe the time period, Between: _____ and _____

2) Does the source ever go dry in the area of the proposed diversion? unknown

YES NO

3) To your knowledge, has the requested source of water been regulated because of insufficient flow to satisfy existing water rights including instream water rights?

YES NO

If YES, please explain: _____

4) Is there sufficient flow at the proposed point of ^{appropriation} diversion to satisfy all existing water rights and provide the quantity of water requested under this application? unknown

YES NO

5) Did you meet with staff from another agency to discuss this application?

YES NO

Who: _____ Agency: _____ Date: _____

6) Is mitigation an option? don't know

YES NO

If YES, please explain: _____

Comments: This well ^{#1} was posted to prohibit uses other than those that are exempt. They were irrigating the golf course without a permit at the time of the posting.

Name: [Signature] Date: 10-11-02 Title: Watermaster

WRD Contact: Anita Huffman, Senior Water Rights Technicia, Water Rights Division
(503)378-8455 ext: 229 / Fax: 503-378-6203 / e-mail: Anita.M.HUFFMAN@ wrd.or.state.us



Oregon

John A. Kitzhaber, M.D., Governor

Water Resources Department

Commerce Building
158 12th Street NE
Salem, OR 97301-4172
(503) 378-3739
FAX (503) 378-8130
www.wrd.state.or.us

September 6, 2002

PHIL FRIEDMANN for BALLY BANDON SHEEP RANCH
PO BOX 1756
BANDON, OREGON 97411

(541) 530-6839

Reference: File G-15697

Dear Applicant:

**THIS IS NOT A PERMIT AND IS
SUBJECT TO CHANGE AT THE NEXT PHASE OF PROCESSING.**

This letter is to inform you of the preliminary analysis of your water use permit application and to describe your options. In determining whether a water use permit application may be approved, the Department must consider the factors listed below, all of which must be favorable to the proposed use if it is to be allowed. Based on the information you have supplied, the Water Resources Department has made the following preliminary determinations:

Initial Review Determinations:

1. The proposed use is not prohibited by law or rule.
2. The use of water from TWO WELLS IN WHISKEY RUN CREEK BASIN for IRRIGATION OF 359.2 ACRES is a **classified use** under OAR 690-517-001(8), the South Coast Basin Program.
3. The Department has determined, based upon OAR 690-09, that the proposed groundwater use will have the potential for substantial interference with the nearest surface water source, namely Whiskey Run. Therefore limitations to the surface water source must be applied to this application also.
4. Water in the amount of 0.44 CUBIC FEET PER SECOND, BEING 0.22 CFS FROM EACH WELL for IRRIGATION OF 359.2 ACRES is **not available** at any time of the year due to senior in-stream water rights.
5. The Department has also determined that groundwater for the proposed use will not likely be available in the amounts requested without injury to prior rights and/or within the capacity of the resource.

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6. Because water is not available for a full season, IRRIGATION OF 359.2 ACRES cannot be allowed.

Summary of Allowable Water Use

Because item #4 and #5 above are unfavorable, the use of 0.44 CUBIC FEET PER SECOND, BEING 0.22 CFS FROM EACH WELL of water from TWO WELLS IN WHISKY RUN CREEK BASIN for IRRIGATION OF 359.2 ACRES is not allowable, and it appears unlikely that you will be issued a permit. At this time, you must decide whether to proceed or to withdraw your application as described below.

Please reference the application number when sending any correspondence regarding the conclusions of this initial review. Comments received within the comment period will be evaluated at the next phase of the process.

Withdrawal Refunds:

If you choose not to proceed, you may withdraw your application and receive a refund (minus a \$50 processing charge per application.) To accomplish this you must notify the Department in writing by **Friday, September 20, 2002**. For your convenience you may use the enclosed "STOP PROCESSING" form.

To Proceed With Your Application:

If you choose to proceed with your application, you do not have to notify the Department. Your application will automatically be placed on the Department's Public Notice to allow others the opportunity to comment. After the comment period the Department will complete a public interest review and issue a proposed final order.

If A Permit Is Issued It Will Likely Include The Following Conditions:

1. Measurement, recording and reporting conditions:
 - A. Before water use may begin under this permit, the permittee shall install a meter or other suitable measuring device as approved by the Director. The permittee shall maintain the meter or measuring device in good working order, shall keep a complete record of the amount of water used each month and shall submit a report which includes the recorded water use measurements to the Department annually or more frequently as may be required by the Director. Further, the Director may require the permittee to report general water use information, including the place and nature of use of water under the permit.
 - B. The permittee shall allow the watermaster access to the meter or measuring device; provided however, where the meter or measuring device is located within a private structure, the watermaster shall request access upon reasonable notice.

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SALEM, OREGON

2. The tentative priority date for this application is FEBRUARY 4, 2002.

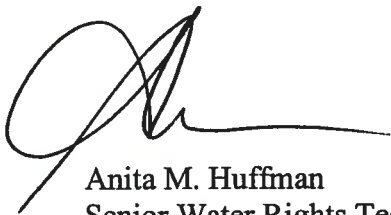
WARNING: This initial review does not attempt to address various public interest issues such as sensitive, threatened, or endangered fish species. These issues will be addressed as the Department reviews public comments and prepares a proposed final order. You should be aware that, if significant public interest issues are found to exist, such a finding could have an impact on the eventual outcome of your application.

The water source identified in your application is in an area in which an Agricultural Water Quality Management Area Plan is being developed. These plans are developed by the Oregon Department of Agriculture (ODA) with the cooperation of local landowners and other interested stakeholders. These plans help make sure that current and new appropriations of water are done in a way that does not adversely harm the environment. You are encouraged to contact Paul Measeles, (503) 986-4778 at the ODA to learn more about the plan and how it may affect your proposed water use.

If you have any questions:

Questions about the status of your application, processing timelines, or your upcoming Proposed Final Order should be directed to our Water Right Information Group at 503-378-8455 extension 201. Feel free to call me at 503-378-8455 extension 229 if you have any questions regarding the contents of this letter. Please have your application number available if you call. Address all other correspondence to: Water Rights Section, Oregon Water Resources Department, 158 12th ST. NE Salem, OR 97301-4172, Fax: 503-378-6203.

Sincerely,



Anita M. Huffman
Senior Water Rights Technician

enclosures: Flow Chart of Water Right Process
Stop Processing Form

G-15697
wab 17- 72964
pou 17- 72964
gw A'

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SALEM, OREGON

APPLICATION FACT SHEET

Mail to: *Applicant, Watermaster, District Biologist (ODFW)*
If necessary, also mail to : *Regional Water quality manager (DEQ), and DOA*

Application File Number: G-15697

Applicant: BALLY BANDON SHEEP RANCH; FRIEDMANN, PHIL

County: COOS

Watermaster: DISTRICT #19

Priority Date: FEBRUARY 4, 2002

Source: TWO WELLS IN WHISKY RUN CREE K BASIN

Use: IRRIGATION OF 359.2 ACRES

Quantity: 0.44 CUBIC FEET PER SECOND, BEING 0.22 CFS FROM EACH WELL

Basin Name & Number: South Coast, #17

Stream Index Reference: Volume 3 BASIN 17 MISC

Well Locations:

WELL #1 NWSW, SECTION 20, T27S, R14W, W.M.; 2450 FEET NORTH & 350 FEET EAST FROM SW CORNER, SECTION 20

WELL #2 NWNW, SECTION 20, T27S, R14W, W.M.; 4600 FEET NORTH & 550 FEET EAST FROM SW CORNER, SECTION 20

Place of Use: NENE 3.6 ACRES SENE 9.5 ACRES NESE 0.5 ACRES, SECTION 19 NWNE 33.7 ACRES SWNE 35.0 ACRES NENW 38.6 ACRES NWNW 37.9 ACRES SWNW 40.0 ACRES SENW 40.0 ACRES NESW 25.5 ACRES NWSW 36.1 ACRES SWSW 15.8 ACRES SESW 0.9 ACRES NESE 10.1 ACRES NWSE 32.0 ACRES, SECTION 20, TOWNSHIP 27 SOUTH, RANGE 14 WEST, W.M.

14 DAY STOP PROCESSING DEADLINE DATE: Friday, September 20, 2002

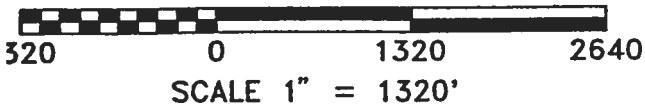
PUBLIC NOTICE DATE: Tuesday, September 24, 2002

30 DAY COMMENT DEADLINE DATE: Thursday, October 24, 2002

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WATER RESOURCES DEPT.
SALEM, OREGON



TOWNSHIP	RANGE	SECTION	0.25	0.25	APPROXIMATE TOTAL ACRES	APPROXIMATE IRRIGATED ACRES
27	14	19	NE	NE	3.6	3.6
27	14	19	SE	NE	9.5	9.5
27	14	19	NE	SE	0.5	0.5
27	14	20	NW	NW	37.9	37.9
27	14	20	NE	NW	38.6	38.6
27	14	20	SE	NW	40.0	40.0
27	14	20	SW	NW	40.0	40.0
27	14	20	NW	NE	33.7	33.7
27	14	20	SW	NE	35.0	35.0
27	14	20	NW	SE	32.0	32.0
27	14	20	NE	SE	10.1	10.1
27	14	20	NW	SW	36.1	36.1
27	14	20	NE	SW	25.5	25.5
27	14	20	SE	SW	0.9	0.9
27	14	20	SW	SW	15.8	15.8
TOTAL APPROXIMATE ACRES					359.2	359.2

Application No. 9-15697
Permit No.

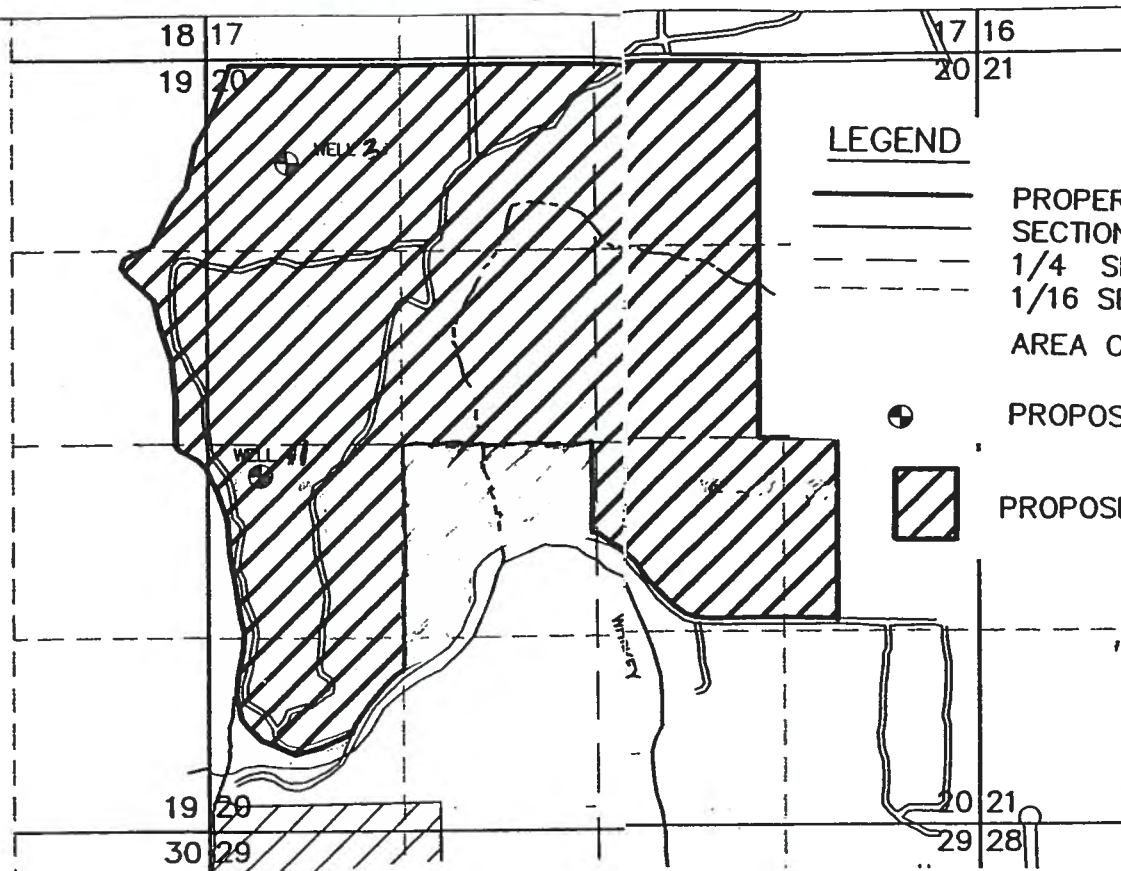
T.L. 100, 400,
SEC. 20, T.27S., R.14W., W.M.
BANDON, COOS COUNTY, OREGON

APPLICATION FOR WATER RIGHTS
AREA OF USE AND POINT OF DIVERSION MAP

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SALEM, OREGON



LEGEND

- PROPERTY BOUNDARY
- SECTION LINE
- - - 1/4 SECTION LINE
- - - 1/16 SECTION LINE
- ▨ AREA OF PROPOSED COMMERCIAL USE
- ⊕ PROPOSED POINT OF DIVERSION
- ▨ PROPOSED AREA OF IRRIGATION

DESCRIPTION	NORTHING	EASTING
WELL #1	2450'	350'
WELL #2	4600'	550'

BASIS OF BEARING
SW 1/4 of SEC 20



Oregon

John A. Kitzhaber, M.D., Governor

Water Resources Department

Commerce Building
158 12th Street NE
Salem, OR 97301-4172
(503) 378-3739
FAX (503) 378-8130
www.wrd.state.or.us

September 6, 2002

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PO BOX 1756
BANDON, OREGON 97411

(541) 530-6839

Reference: File G-15697

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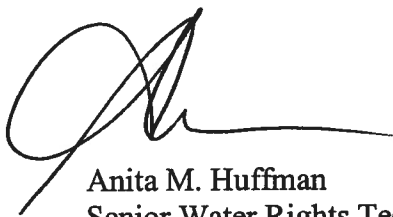
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Anita M. Huffman
Senior Water Rights Technician

enclosures: Flow Chart of Water Right Process
Stop Processing Form

G-15697
wab 17- 72964
pou 17- 72964
gw A

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14 DAY STOP PROCESSING DEADLINE DATE: Friday, September 20, 2002

PUBLIC NOTICE DATE: Tuesday, September 24, 2002

30 DAY COMMENT DEADLINE DATE: Thursday, October 24, 2002

Anita -
If you have any
Questions or need
Additional Information,
Please call
Phil Friedmann
at
773/348-6410.
Thanks.



Water Resource Dept -

Need copy of deed

St. of O
Water Resources Dept
158 12th St. N.E.
Salem, Or 97310-
0210

Att: Anita HUFFMAN

Application file # 615697

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APR 22 2002

WATER RESOURCES DEPT.
SALEM, OREGON

Need deed to complete the application process.

After recording return to Key-Bandon
PHILIP M. FRIEDMANN AND
MICHAEL L. KRISER
1676 N. BROADWAY
CHICAGO, IL 60613

TITLE ORDER NO: 24-68459
KEY ESCROW NO: 24-2477/r1

RETURN TO KEY TITLE & ESCROW

Until a change is requested tax statements
shall be sent to the following address:
SAME AS ABOVE

WARRANTY DEED -- STATUTORY FORM
(INDIVIDUAL OR CORPORATION)

JAMES MAST and MIKE MAST, Grantor,

conveys and warrants to:

PHILIP M. FRIEDMANN AND MICHAEL L. KRISER, each as to an undivided 50% interest,
Grantee,

the following described real property free of encumbrances except as
specifically set forth herein:
SEE EXHIBIT A WHICH IS MADE A PART HEREOF BY THIS REFERENCE

THIS INSTRUMENT WILL NOT ALLOW USE OF THE PROPERTY DESCRIBED IN THIS INSTRUMENT
IN VIOLATION OF APPLICABLE LAND USE LAWS AND REGULATIONS. BEFORE SIGNING OR
ACCEPTING THIS INSTRUMENT, THE PERSON ACQUIRING FEE TITLE TO THE PROPERTY
SHOULD CHECK WITH THE APPROPRIATE CITY OR COUNTY PLANNING DEPARTMENT TO VERIFY
APPROVED USES AND TO DETERMINE ANY LIMITS ON LAWSUITS AGAINST FARMING OR FOREST
PRACTICES AS DEFINED IN ORS 30.330.

The true consideration for this conveyance is \$2,550,000.00 (which is paid from and
on an accommodation as part of an IRC 1031 exchange). However, if the
actual consideration consists of or includes other property or other value
given or promised, such other property or value was part of the/this
whole of the kind(s) which consideration. If the grantor is a corporation,
this has been done by authority of the Board of Directors.

Dated this 4th day of December, 1998.

GRANTOR(S):
JAMES MAST
MIKE MAST

STATE OF OREGON, County of Coos

This instrument was acknowledged before me on December 4, 1998,
by JAMES MAST and MIKE MAST

Notary Public for Oregon My commission expires:



RECEIVED

APR 2 2002

WATER RESOURCES DEPT.
SALEM, OREGON

PAGE #: 0001 OF 0002
INST#: 1998 60458
12/04/1998 02:38 REC FEE: 138.00
COOS COUNTY, OR, DOROTHY TAYLOR - COUNTY CLERK

27 14 20
1 WPEV

EXHIBIT "A"

ALL OF THE FOLLOWING DESCRIBED PROPERTY LYING NORTHWEST OF WHISKEY RUN ROAD:

1: The W 1/2 of the NE 1/4 of the NE 1/4 of the NW 1/4 of Section 20, Township 27 South, Range 14 West of the Willamette Meridian, Coos County, Oregon. Excepting therefrom the West 10 feet and the North 10 feet of said premises for the purpose of a roadway. Excepting therefrom mineral and mineral oil rights reserved in instrument recorded October 30, 1945 in Book 158, Page 333, Deed Records of Coos County, Oregon.

2: Government Lot 2, Section 20, Township 27 South, Range 14 West of the Willamette Meridian, Coos County, Oregon.

3: The S 1/2 of the NW 1/4 of the NE 1/4 of the NW 1/4 of Section 20, Township 27 South, Range 14 West of the Willamette Meridian, Coos County, Oregon. Excepting therefrom mineral and mineral oils rights reserved in instrument recorded October 30, 1945 in Book 158, Page 333, Deed Records of Coos County, Oregon. Together with a non-exclusive easement for the purpose of ingress and egress to the Seven Devils Road as set forth in instrument recorded April 17, 1962 in Microfilm Reel Number 69-4-17847, Records of Coos County, Oregon.

4: The E 1/2 of the NW 1/4 and the NW 1/4 of the NE 1/4 of Section 20, Township 27 South, Range 14 West of the Willamette Meridian, Coos County, Oregon. Excepting therefrom mineral and mineral oil rights as reserved in instrument recorded October 30, 1945 in Book 158, Page 333, Deed Records of Coos County, Oregon.

EXCEPTING the S 1/2 of the NW 1/4 of the NE 1/4 of the NW 1/4 of Section 20, and the W 1/2 of the NE 1/4 of the NE 1/4 of the NW 1/4 of Section 20, and the W 1/2 of the NW 1/4 of the NW 1/4 of the NE 1/4 of Section 20.

ALSO EXCEPTING for the purpose of a roadway a non-exclusive easement 60 feet wide, beginning at the East-West centerline of the NE 1/4 of the NW 1/4 of Section 20 and continuing along the North-South centerline of said NE 1/4 of Section 20 to the common line between Section 20 and Section 17, Township 27 South, Range 14 West of the Willamette Meridian, Coos County, Oregon.

5: The W 1/2 of the NW 1/4 of the SE 1/4 lying North of Whiskey Run Road and the S 1/2 of the NW 1/4 of the SE 1/4 of Section 20, Township 27 South, Range 14 West of the Willamette Meridian, Coos County, Oregon. Except any portion conveyed to Coos County for road purposes.

6: That portion of the W 1/2 of the NW 1/4 of the SE 1/4 of Section 20, Township 27 South, Range 14 West of the Willamette Meridian, Coos County, Oregon, lying North of the present Whiskey Run Road.

7: The George Smith Donation Land Claim No. 37, embraced in portions of Sections 19, 20, 29 and 30, in Township 27 South, Range 14 West of the Willamette Meridian, Coos County, Oregon.

8: Government Lot 3 of Section 20 and that portion of Government Lot 1, Section 19, lying North of the North line of the SW 1/4 of the NW 1/4 of Section 20, extended Westward, all in Township 27 South, Range 14 West of the Willamette Meridian, Coos County, Oregon.

9: The SW 1/4 of the NW 1/4 of Section 20 and that portion of Government Lot 1 of Section 19 lying South of the North line of the SW 1/4 of the NW 1/4 of Section 20, extended Westward, all in Township 27 South, Range 14 West of the Willamette Meridian, Coos County, Oregon.

10: The W 1/2 of the NW 1/4 of the NW 1/4 of the NE 1/4 of Section 20, Township 27 South, Range 14 West of the Willamette Meridian, Coos County, Oregon.

11: The SW 1/4 of the NE 1/4 of Section 20, Township 27 South, Range 14 West of the Willamette Meridian, Coos County, Oregon.

PAGE #: 0002 OF 0002
INSTR: 1998 60458

12/08/1998 02:38 REC FEE: \$38.00
COOS COUNTY, OR, DOROTHY TAYLOR - COUNTY CLERK

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APR 22 2002

WATER RESOURCES DEPT.
SALEM, OREGON



Oregon

John A. Kitzhaber, M.D., Governor

Water Resources Department

290 N Central Street
Coquille, OR 97423
(541) 396-3121 Ext. 254
FAX (541) 396-6233

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JUN 06 2002

WATER RESOURCES DEPT.
SALEM, OREGON

June 4, 2002

Phil Friedmann
Bally Bandon Sheep Ranch
PO Box 1756
Bandon, OR 97411

RE: Applications G15082 and G15697

Dear Mr. Friedmann:

Under Oregon law, all water is publicly owned. With some exceptions, users must obtain a permit or water right from the Water Resources Department to use water from any source—the ground, lakes or streams.

Our office has received notification you submitted the above applications to use ground water for irrigation. The applications proposed to use the water beginning June 2002.

As of this date, a permit has not been issued allowing your use of ground water. Please be advised that until you have received a permit, the ground water can only be used for exempt uses. I am enclosing the pamphlet A Consumer's Guide to Water Well Construction, Maintenance, and Abandonment that explains what uses are exempt.

Please call should you have further questions.

Sincerely,

Lloyd C. VanGordon, Watermaster

CC Bruce Sund, Assistant Regional Manager
Dwight French, OWRD file

Application No. 915697
Permit No.

Stuntzner

Engineering
& Forestry, LLC



TELEPHONE (541) 267-2872
FAX (541) 267-0588

705 SO. 4TH, P.O. BOX 118
COOS BAY, OREGON 97420

COOS BAY • BROOKINGS • WILSONVILLE

MEMORANDUM

TO: DOUG WOODCOCK

DATE: 4/22/2002

FROM: TOM HOSNALL

RE: BALLY BANDON WELLS

ENCLOSED YOU'LL FIND XYZ UNITS FOR FEATURE TIES MADE AT THE BANDON SWEEPANCHA GOLF COURSE. THE SURVEY WAS MADE USING RTK GPS BASED ON NAD83-NAVD88 STATE PLANE.

THE EXISTING CREEK TIES WERE MADE IN FLOWLINE BED - NO ACTUAL BEDROCK WAS FOUND.

THE BEDROCK ALONG OCEAN BLUFF WAS HIGHEST EXPOSED BEDROCK.

IF YOU NEED ADDITIONAL OR HAVE ANY QUESTIONS PLEASE CALL

Sincerely, TOM HOSNALL RESCURE

CC: JAY KENYON / DENNY OLSON

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WATER RESOURCES DEPT
SALEM, OREGON

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 APR 26 2002
 WATER RESOURCES DEPT
 SALEM, OREGON

Application No. 915697
 Permit No.

Point	Northing	Eastng	Elevation	Note
3	588411.647	3885360.379	74.107	CMPTOP
5	588648.439	3885288.887	74.116	CRKCL
6	588819.437	3884115.244	122.562	WELLHEAD
7	589556.940	3885193.865	110.245	CLCRK CLRD
8	590056.373	3885272.961	102.959	CLCRK
9	590317.656	3884986.282	156.495	SPK
10	591552.383	3884046.532	121.051	GEOPT
12	590293.154	3882958.072	105.866	IRCAPPED
14	590342.398	3882820.356	52.608	BEDROCK
15	589139.228	3883302.804	104.556	2-2 W SPK
16	589190.129	3883102.476	39.902	BEDROCK5MIPT

10^x

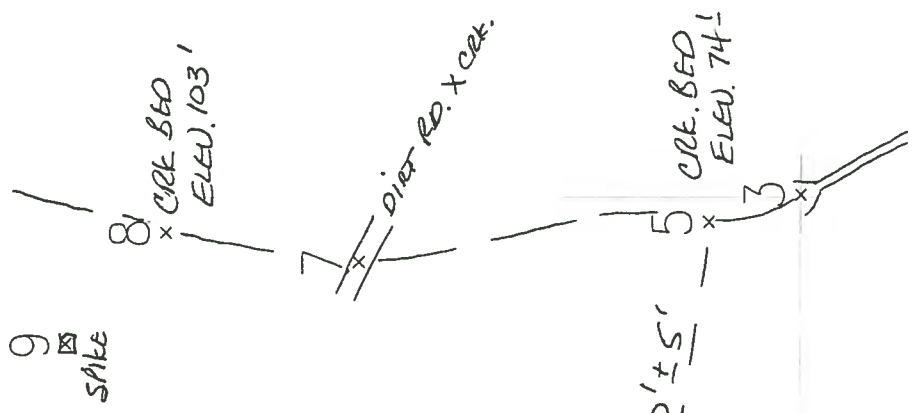
1 4 = BEDROCK ELEV. 52.6

* I. ROD

12



BEDROCK ELEV. 39.9 * 16 15
 H 3/4 N



STUNTNER ENGINEERING
 AND FORESTRY
 705 S. 4th / P. O. BOX 118
 COOS BAY, OREGON 97420

Points

Project name sheep
 Coordinate Units International feet
 Distance Units International feet
 Height Units International feet
 Date printed 4/8/02 2:37:06 PM
 Coordinate System US State Plane 1983
 Datum NAD 1983 (Conus)

Zone Oregon South 3602
 Geoid model GEOID99 (Conus)

Application No. 915697
 Permit No.

ordinate units: International feet
 levation units: International feet

oint listing

Name	Northing	Easting	Elevation	Feature Code
1	578863.736	3884355.844	96.850	SEF25 <i>TEXT</i>
2	587752.713	3886579.059	171.045	PREMK
3	588411.647	3885360.379	74.107	CMPTOP
4	588648.455	3885288.882	74.047	CMPTOP
5	588648.439	3885288.887	74.116	CRKCL
6	588819.437	3884115.244	122.562	WELLHEAD
7	589556.940	3885193.865	110.245	CLCRK CLRD
8	590056.373	3885272.961	102.959	CLCRK
9	590317.656	3884986.282	156.495	SPK
10	591552.383	3884046.532	121.051	GEOPT
11	590293.157	3882958.062	105.864	GEOPT
12	590293.154	3882958.072	105.866	IRCAPPED
13	590342.417	3882820.365	52.616	IRCAPPED
14	590342.398	3882820.356	52.608	BEDROCK
15	589139.228	3883302.804	104.556	2-2 W SPK
16	589190.129	3883102.476	39.902	BEDROCK5MIPT
17	588819.421	3884115.285	122.505	WELLHEAD CK #6
18	590317.615	3884986.310	156.482	SPK.CHK #9
19	591552.308	3884046.533	121.033	GEOPT.CHK #10
20	590293.141	3882958.044	105.818	IR CHK #12
21	589139.210	3883302.776	104.591	2-2 w spk chk #15
22	587752.731	3886579.072	171.040	premk chk #2
SEF25	578880.990	3884582.520	152.430	IR

ack to top

JAN 10 2002

27-14-20

STATE OF OREGON WATER SUPPLY WELL REPORT (as required by ORS 537.765)

WATER RESOURCES DEPT. SALEM, OREGON

WELL I.D. # 51164 START CARD # 123874

Instructions for completing this report are on the last page of this form.

(1) OWNER: Well Number 808 Name Bally Bandon Sheep Ranch Address PO Box 1756 City Bandon State OR Zip 97411

(2) TYPE OF WORK: [X] New Well [] Deepening [] Alteration (repair/recondition) [] Abandonment

(3) DRILL METHOD: [] Rotary Air [X] Rotary Mud [] Cable [] Auger [] Other

(4) PROPOSED USE: [] Domestic [] Community [] Industrial [X] Irrigation [] Thermal [] Injection [] Livestock [] Other

(5) BORE HOLE CONSTRUCTION: Special Construction approval [] Yes [X] No Depth of Completed Well 89 ft. Explosives used [] Yes [X] No Type Amount

Table with columns: HOLE Diameter, From, To, Material, SEAL From, To, Sacks or pounds. Rows include 14" diameter with Bentonite and 6" diameter with Cement.

How was seal placed: Method [] A [] B [X] C [] D [] E [X] Other Bentonite poured from surface cement Backfill placed from 35 ft. to 89 ft. Material Gravel placed from 35 ft. to 89 ft. Size of gravel 6/9

(6) CASING/LINER: Table with columns: Diameter, From, To, Gauge, Steel, Plastic, Welded, Threaded. Rows for 8" and 10" casing.

Final location of shoe(s)

(7) PERFORATIONS/SCREENS: Table with columns: From, To, Slot size, Number, Diameter, Tele/pipe size, Casing, Liner. Includes note: Attached to casing Johnson wire material SS.

(8) WELL TESTS: Minimum testing time is 1 hour. Table with columns: Yield gal/min, Drawdown, Drill stem at, Time. Values: 73, 9', 89, 1 hr; 100', 14', 89, 2 hrs.

Temperature of water 52° Depth Artesian Flow Found Was a water analysis done? [X] Yes By whom BWS Did any strata contain water not suitable for intended use? [] Too little [] Salty [] Muddy [] Odor [] Colored [] Other Depth of strata:

Bandon Well & Septic Co., Inc.

(9) LOCATION OF WELL by legal description: County COOS Latitude Longitude Township 27 N or S Range 14 E or W W.M. Section 14 SW 1/4 Tax Lot 400 Lot Block Subdivision Street Address of Well (or nearest address) Whiskey Run Rd. Bandon

(10) STATIC WATER LEVEL: 56' ft. below land surface. Date 12/20/01 Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES: Depth at which water was first found 56'

Table with columns: From, To, Estimated Flow Rate, SWL. Row: 56, 83, 100, 56. Note: Specific cap 0.1 gal/ft of DP.

(12) WELL LOG: Ground Elevation +/- 100' ~ 108

Table with columns: Material, From, To, SWL. Rows: Tapsoil, Sandy Clay brown, Sandy Clay tan, Sand Fine brown, Sandy Clay tan white, Sand Fine-med brown, Sand Fine-Ces w/ gravel, Fine gray brown (Loss circulation), Gravel Ces-Fine w/sand, Gravel med-Fine w/sand, Ces-Fine Gray brown, Sandy Clay Gray, Wood, Claystone Gray.

Date started 11/21/01 Completed 12/20/01

(unbonded) Water Well Constructor Certification: I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief. Signed Cheri Keenan WWC Number 1759 Date 1/4/02

(bonded) Water Well Constructor Certification: I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief. Signed Jim Mackle MGC WWC Number 1493 Date 1/7/02

STATE OF OREGON
GEOTECHNICAL HOLE REPORT
(as required by OAR 690-240-035)

(Pg 2)

(1) OWNER/PROJECT: Hole Number 810
Name Bally Barden Sheep Ranch
Address PO Box 1756
City Bandon State OR Zip 97411

(2) TYPE OF WORK
 New Deepening Alteration (repair/recondition) Abandonment

(3) CONSTRUCTION:
 Rotary Air Hand Auger Hollow Stem Auger
 Rotary Mud Cable Tool Push Probe Other

(4) TYPE OF HOLE:
 Uncased Temporary Cased Permanent
 Uncased Permanent Slope Stability Other

(5) USE OF HOLE:

(6) BORE HOLE CONSTRUCTION:
Special Construction approval Yes No Depth of Completed Hole _____ ft.

HOLE			SEAL			Sacks or pounds
Diameter	From	To	Material	From	To	

Backfill placed from _____ ft. to _____ ft. Material _____
Filter Pack placed from _____ ft. to _____ ft. Size of pack _____

(7) CASING/SCREEN:

Diameter	From	To	Gauge	Material			
				Steel	Plastic	Welded	Threaded
Casing:				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Screen:				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Slot size _____

(8) WELL TEST:
 Pump Bailer Air Flowing Artesian
Permeability _____ Yield _____ GPM _____
Conductivity _____ PH _____
Temperature of water _____ °F/C Depth artesian flow found _____ ft.
Was water analysis done? Yes No
By whom? _____
Depth of strata analyzed. From _____ ft. to _____ ft.
Remarks: _____

(9) LOCATION OF HOLE by legal description:
County Coos Latitude _____ Longitude _____
Township 27 N or S Range 14 E or W W.M.
Section 20 00 1/4 00 1/4
Tax Lot 100 Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) Whiskey Run Rd
Bandon

Map with location identified must be attached

(10) STATIC WATER LEVEL:
_____ ft. below land surface. Date _____
Artesian pressure _____ lb. per square inch. Date _____

(11) SUBSURFACE LOG:
Ground Elevation _____

Material Description	From	To	SWL
Sand Fine-med Tan	30	37	
Sandy Clay brn w/sand Fine	37	45	
Peat Brown	45	46	
Wood w/sand Fine brown	46	48	
Sand Fine-med tan	48	53	
Gravel med-cls Brn Red w/sand	53	60	
Sand Fine w/Gravel Fine-cls Gray	60	65	
Sandy Clay Gray	65	66	
Claystone Gray	66	78	

Date Started 11/29/01 Date Completed 12/21/01

(12) ABANDONMENT LOG:
Material Description From To Sacks or Pounds

Material Description	From	To	Sacks or Pounds

Date started _____ Date Completed _____

Professional Certification
(to be signed by a licensed water supply or monitoring well constructor, or Oregon registered geologist or civil engineer).
I accept responsibility for the construction, alteration, or abandonment work performed during the construction dates reported above. All work performed during this time is in compliance with Oregon's geotechnical hole construction standards. This report is true to the best of my knowledge and belief.
License or Registration Number 1493
Signed Jim Muehl MGCW Date 1/7/02
Affiliation Bandon Well & Septic Co. Inc.

THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

ORIGINAL - WATER RESOURCES DEPARTMENT FIRST COPY - CONSTRUCTOR SECOND COPY - CUSTOMER

STATE OF OREGON
GEOTECHNICAL HOLE REPORT
(as required by OAR 690-240-035)

(Pg 1)

Coos
52220

(1) OWNER/PROJECT: Hole Number 010
Name Bally Brandon Sheep Ranch
Address PO BOX 1756
City Bandon State OR Zip 97411

(2) TYPE OF WORK
 New Deepening Alteration (repair/recondition) Abandonment

(3) CONSTRUCTION:
 Rotary Air Hand Auger Hollow Stem Auger
 Rotary Mud Cable Tool Push Probe Other

(4) TYPE OF HOLE:
 Uncased Temporary Cased Permanent
 Uncased Permanent Slope Stability Other

(5) USE OF HOLE: Formation Samples

(6) BORE HOLE CONSTRUCTION:
Special Construction approval Yes No Depth of Completed Hole 78' ft.

HOLE			SEAL			Sacks or pounds
Diameter	From	To	Material	From	To	
6"	0	78	Cement	0	78	25x
			Bentonite	0	35	18.5x

Backfill placed from _____ ft. to _____ ft. Material _____
Filter Pack placed from _____ ft. to _____ ft. Size of pack _____

(7) CASING/SCREEN:
Diameter From To Gauge Steel Plastic Welded Threaded
Casing: 2" +1 35 5x40
Screen:
Slot size _____

(8) WELL TEST:
 Pump Bailer Air Flowing Artesian
Permeability _____ Yield _____ GPM _____
Conductivity _____ PH _____
Temperature of water _____ °F/C Depth artesian flow found _____ ft.
Was water analysis done? Yes No
By whom? _____
Depth of strata analyzed. From _____ ft. to _____ ft.
Remarks: _____

(9) LOCATION OF HOLE by legal description:
County Coos Latitude _____ Longitude _____
Township 27 N or S Range 14 E or W. W.M. W
Section 20 1/4 1/4 1/4
Tax Lot 100 Lot _____ Block _____ subdivision _____
Street Address of Well (or nearest address) Whiskey Run Rd
Bandon

Map with location identified must be attached

(10) STATIC WATER LEVEL:
30'5" ft. below land surface. Date 12/21/01
Artesian pressure _____ lb. per square inch. Date _____

(11) SUBSURFACE LOG:
Ground Elevation +1-100' 120'

Material Description	From	To	SWL
Topsoil	0	1	
Sand Fine brown	1	3	
Sand Fine Tan	3	12	
Clay brown	12	14	
Sandy Clay Tan	14	15	
Sand Fine Tan	15	18	
Sandy Clay white	18	20	
Sand Fine Tan	20	30	

Continued on Page #2
Date Started 11/29/01 Date Completed 12/21/01

(12) ABANDONMENT LOG:

Material Description	From	To	Sacks or Pounds
RECEIVED			
JAN 10 2002			
WATER RESOURCES DEPT. SALEM, OREGON			

Date started _____ Date Completed _____

Professional Certification
(to be signed by a licensed water supply or monitoring well constructor, or Oregon registered geologist or civil engineer).
I accept responsibility for the construction, alteration, or abandonment work performed during the construction dates reported above. All work performed during this time is in compliance with Oregon's geotechnical hole construction standards. This report is true to the best of my knowledge and belief.
License or Registration Number 1493
Signed Jim Mack Sr mawc Date 1/7/02
Affiliation Bandon Well & Septic Co Inc

THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

ORIGINAL - WATER RESOURCES DEPARTMENT FIRST COPY - CONSTRUCTOR SECOND COPY - CUSTOMER



Oregon Water Resources Department

915697

FORM I
FOR IRRIGATION WATER USE

Application No.
Permit No.

1. Please indicate whether you are requesting a primary or supplemental irrigation water right.

Primary Supplemental

If supplemental, please indicate the number of acres that will be irrigated for each type of use.

Primary: _____ Acres

Secondary: _____ Acres

List the permit or certificate number of the primary water right: No. _____

2. Please list the anticipated crops you will grow and whether you will be irrigating them for a full or partial season:

- 1. TURF & PASTURE Full season Partial season (from: 3/1 to 10/31)
- 2. _____ Full season Partial season (from: _____ to _____)
- 3. _____ Full season Partial season (from: _____ to _____)
- 4. _____ Full season Partial season (from: _____ to _____)

3. Indicate the maximum total number of acre-feet you expect to use in an irrigation season:

37 acre-feet

(1 acre-foot equals 12 inches of water spread over 1 acre, or 43,560 cubic feet, or 325,851 gallons.)

4. How will you schedule your applications of water? Will you be applying water in the evenings, twice a week, daily?

- Daily during daytime hours Daily during nighttime hours
- Two or three times weekly during daytime Two or three times weekly during nighttime
- Weekly, during daytime hours Weekly, during nighttime hours
- Other, explain: _____



State of Oregon
Water Resources Department
 158 12th Street NE, Salem, OR 97310
 (503)378-8455
 www.wrd.state.or.us

Application for a Permit to Use Ground Water

Application No. 915697
 Permit No.

Please type or print in dark ink. If your application is found to be incomplete or inaccurate, we will return it to you. If any requested information does not apply to your application, insert "n/a." Please read and refer to the instructions when completing your application. Thank you.

1. APPLICANT INFORMATION

A. Individuals

Applicant: _____
First Last

Co-applicant: _____
First Last

Mailing address: _____

City State Zip

Phone: _____
Home Work Other

*Fax: _____ *E-Mail address: _____

B. Organizations

(Corporations, associations, firms, partnerships, joint stock companies, cooperatives, public and municipal corporations)

Name of organization: BALLY BANDAW SHEEP RANCH

Name and title of person applying: PHIL FRIEDMANN - OWNER

Mailing address of organization: P.O. Box 1756
BANDAW OR 97411
City State Zip

Phone: 541-530-6839 SAME
Day Evening

*Fax: _____ *E-Mail address: _____

*Optional information

For Department Use		
App. No. <u>G 15697</u>	Permit No. _____	Date <u>2/4/02</u>

2. PROPERTY OWNERSHIP

Do you own all the land where you propose to divert, transport, and use water?

- Yes (Skip to section 3 "Ground water Development.")
- No Please check the appropriate box below.
- I have a recorded easement or written authorization permitting access.
 - I do not currently have written authorization or easement permitting access.

List the names and mailing addresses of all affected landowners.*

*If more than 25 landowners are involved, a list is not required. See instructions.

3. GROUND WATER DEVELOPMENT

- A. Number of well(s): TWO B. Name of nearest surface water body: UNNAMED SEASONAL TRIBUTARY TO WHISKEY RUN CREEK
- C. Distance from well(s) to nearest stream or lake: 1) WELL #1 1320 FEET WEST
2) WELL #2 1530 FEET NW 3) _____ 4) _____
- D. If distance from surface water is less than one mile, indicate elevation difference between nearest surface water and well head. 1) WELL #1 20 FEET
2) WELL #2 10 FEET 3) _____ 4) _____

E. Well Characteristics

Wells must be constructed according to standards set by the Department for the construction and maintenance of water wells. If the well is already constructed, please enclose a copy of the well constructor's log and the well ID number, if available, for each well with this application. Identify each well with a number corresponding to the wells designated on the map and proceed to question F in this section of the form. If the well has not been constructed, or if you do not have a well log, please complete the following:

Well(s) will be constructed by: _____

Address: _____

Completion date: _____

2. Please provide a description of your well development. (Attach additional sheets if needed.)

Application No. 915697
Permit No.

Well No.	Diameter	Type and size of casing	No. of feet of casing	Intervals casing is perforated (in feet)	Seal depth	Est. depth to water	Est. depth to water bearing stratum	Type of access port or measuring device	Total well depth

F. Artesian Flows

If your water well is flowing artesian, describe your water control and conservation works:

4. WATER USE

Please read the instruction booklet for more details on "type of use" definitions, how to express how much water you need and how to identify the water source you propose to use. You must fill out a supplemental form for some uses as they require specific information for that type of use.

A. Type(s) of Use(s)

See list of beneficial uses provided in the instructions.

- If your proposed use is **domestic**, indicate the number of households to be supplied with water: _____
- If your proposed use is **irrigation**, please attach Form I
- If your proposed use is **mining**, attach Form R
- If your proposed use is **municipal or quasi-municipal**, attach Form M
- If your proposed use is **commercial/industrial**, attach Form Q

B. Amount of Water

Provide the production rate in gallons per minute (gpm) and the total annual amount of water you need from each well, from each source or aquifer, for each use. You do not need to provide source information if you are submitting a well log with your application.

Well No.	Source or aquifer	Type of use	Total rate of water requested (in gpm)	Total annual quantity (in gallons)	Production rate of well (in gpm)
1	SEE WELL LOG #1		100	17.5 AF	100
2	SEE WELL LOG #2		100	17.5 AF	UNKNOWN

C. Maximum Rate of Use Requested

What is the maximum, instantaneous rate of water that will be used? 200 GPM
 (The fees for your application will be based on this amount.)

D. Period of Use

Indicate the time of year you propose to use the water: MARCH 1 - OCTOBER 31
 (For seasonal uses like irrigation give dates when water use would begin and end, e.g. March 1–October 31.)

E. Acreage

If you will be applying water to land, please give the total number of acres where water will be applied or used: 359.2 ACRES
 (This number should be consistent with you application map.)

5. WATER MANAGEMENT

A. Diversion

What equipment will you use to pump water from your well(s)?

- Pump (give horsepower and pump type) 7.5 HORSEPOWER SUBMERSIBLE
- Other means (describe) _____

B. Transport

How will you transport water to your place of use?

- Ditch or canal (give average width and depth)
 Width _____ Depth _____
 Is the ditch or canal to be lined? Yes No
- Pipe (give diameter and total length)
 Diameter 4 INCH Length 1800 FEET
- Other (describe) _____

C. Application/Distribution Method

What equipment will you use to apply water to your place of use? _____

Irrigation or land application method (check all that apply):

- Flood
- High-pressure sprinkler
- Low pressure sprinkler
- Drip
- Water cannons
- Center pivot system
- Hand lines
- Wheel lines
- Siphon tubes or gated pipe with furrows
- Other, describe _____

Distribution method

- Direct pipe from source
- In-line storage (tank or pond)
- Open canal

D. Conservation

What methods will you use to conserve water? Why did you choose this distribution or application method? For example, if you are using sprinkler irrigation rather than drip irrigation, explain. If you need additional space, attach a separate sheet.

WATER WILL BE PUMPED FROM SOURCE TO A LINED IRRIGATION POND AND THEN DISTRIBUTED THRU A STATE OF THE ART IRRIGATION SYSTEM AS NEEDED FOR TURF HEALTH

6. PROJECT SCHEDULE

Indicate the anticipated dates that the following construction tasks should begin. If construction has already begun, or is completed, please indicate that date.

Proposed date construction will begin JAN. 2, 2001

Proposed date construction will be completed CONSTRUCTION WAS COMPLETE IN JUNE OF 2001

Proposed date beneficial water use will begin JUNE, 2002

7. REMARKS

If you would like to clarify any information you have provided in the application, please do so here and reference the specific application question you are addressing.

8. MAP REQUIREMENTS

The Department cannot process your application without accurate information showing the source of water and location of water use. You must include a map with this application form that clearly indicates the township, range, section, and quarter/quarter section of the proposed well location and place of use. The map must provide tax lot numbers. See the map guidelines sheet for detailed map specifications.

9. SIGNATURE

By my signature below I confirm that I understand:

- I am asking to use water specifically as described in this application.
- Evaluation of this application will be based on information provided in the application packet.
- I cannot legally use water until the Water Resources Department issues a permit to me.
- If I get a permit, I must not waste water.
- If development of the water use is not according to the terms of the permit, the permit can be canceled.
- The water use must be compatible with local comprehensive land use plans.
- Even if the Department issues a permit to me, I may have to stop using water to allow senior water right holders to get water they are entitled to, and

I swear that all information provided in this application is true and correct to the best of my knowledge:

Signature of Applicant

Date

Signature of Co-applicant

Date

Before you submit your application be sure you have:

- Answered each question completely.
- Attached a legible map which includes township, range, section, quarter/quarter and tax lot number.
- Included a Land Use Information Form or receipt stub signed by a local official.
- Included the legal description of all the property involved with this application. You may supply a copy of the deed, land sales contract, or title insurance policy, to meet this requirement.
- Included a check payable to the Oregon Water Resources Department for the appropriate amount.

STATE OF OREGON WATER SUPPLY WELL REPORT (as required by ORS 537.765)

WELL #1

WELL I.D. # L51164 START CARD # 123884

Instructions for completing this report are on the last page of this form.

(1) OWNER: Well Number 808

Name Billy Rander, Sheri Rander Address PO Box 1111 City Portland State OR Zip 97411

(2) TYPE OF WORK

New Well Deepening Alteration (repair/recondition) Abandonment

(3) DRILL METHOD:

Rotary Air Rotary Mud Cable Auger Other

(4) PROPOSED USE:

Domestic Community Industrial Irrigation Thermal Injection Livestock Other

(5) BORE HOLE CONSTRUCTION:

Special Construction approval Yes No Depth of Completed Well 89 ft. Explosives used Yes No Type Amount

Table with columns: HOLE Diameter, From, To, Material, SEAL From, To, Sacks or pounds. Includes entries for Bentonite and Cement.

How was seal placed: Method A B C D E Other Bentonite placed from surface cement Backfill placed from 35 ft. to 89 ft. Material Gravel placed from 35 ft. to 89 ft. Size of gravel 6/9

(6) CASING/LINER:

Table with columns: Diameter, From, To, Gauge, Steel, Plastic, Welded, Threaded. Includes entries for 6 inch, 8 inch, and 10 inch casing.

Final location of shoe(s)

(7) PERFORATIONS/SCREENS:

Table with columns: From, To, Slot size, Number, Diameter, Tele/pipe size, Casing, Liner. Includes entry for 66' to 81' with 0.70 slot size.

(8) WELL TESTS: Minimum testing time is 1 hour

Table with columns: Pump/Bailer/Air/Flowing Artesian, Yield gal/min, Drawdown, Drill stem at, Time. Includes test results at 73 and 100' drawdown.

Temperature of water 52 degrees Depth Artesian Flow Found Was a water analysis done? Yes By whom BWS Did any strata contain water not suitable for intended use? Too little

(9) LOCATION OF WELL by legal description:

County Mults Latitude Longitude Township 27 N or S Range 14 E or W. WM. Section 11/20 NW/4 1/4 SW/4 1/4 Tax Lot 400 Lot Block Subdivision Street Address of Well (or nearest address) White Pine Rd. Portland

(10) STATIC WATER LEVEL:

56 ft. below land surface. Date 12/20/01 Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES:

Depth at which water was first found 56'

Table with columns: From, To, Estimated Flow Rate, SWL. Includes entry for 56 to 63 with flow rate 100 and SWL 56.

(12) WELL LOG:

Ground Elevation +/- 100'

Table with columns: Material, From, To, SWL. Lists soil layers from Topsoil to Claystone Gray with depths from 0 to 110 feet.

Date started 11/21/01 Completed 12/20/01

(unbonded) Water Well Constructor Certification:

I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards.

Signed Chris Kasper WWC Number 1759 Date 11/2/02

(bonded) Water Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above.

Signed Dan Mack of Mowc WWC Number 1493 Date 11/7/02

STATE OF OREGON
GEOTECHNICAL HOLE REPORT
(as required by OAR 690-240-035)

(Pg 2)

(1) OWNER/PROJECT: Hole Number 810
Name Billy Rendon Sheep Ranch
Address PO Box 1756
City Bandon State OR Zip 97411

(2) TYPE OF WORK
 New Deepening Alteration (repair/recondition) Abandonment

(3) CONSTRUCTION:
 Rotary Air Hand Auger Hollow Stem Auger
 Rotary Mud Cable Tool Push Probe Other

(4) TYPE OF HOLE:
 Uncased Temporary Cased Permanent
 Uncased Permanent Slope Stability Other

(5) USE OF HOLE:

(6) BORE HOLE CONSTRUCTION:
Special Construction approval Yes No Depth of Completed Hole _____ ft.

HOLE			SEAL			Sacks or pounds
Diameter	From	To	Material	From	To	

Backfill placed from _____ ft. to _____ ft. Material _____
Filter Pack placed from _____ ft. to _____ ft. Size of pack _____

(7) CASING/SCREEN:

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Screen:				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Slot size _____

(8) WELL TEST:
 Pump Bailer Air Flowing Artesian
Permeability _____ Yield _____ GPM _____
Conductivity _____ PH _____
Temperature of water _____ °F/C Depth artesian flow found _____ ft.
Was water analysis done? Yes No
By whom? _____
Depth of strata analyzed. From _____ ft. to _____ ft.
Remarks: _____

(9) LOCATION OF HOLE by legal description:
County CLATSOP Latitude _____ Longitude _____
Township 27 N or S Range 14 E or W. W.M.
Section 20 NW 1/4 NE 1/4 SW 1/4
Tax Lot 100 Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) Whiskey Run Rd
Bandon

Map with location identified must be attached

(10) STATIC WATER LEVEL:
_____ ft. below land surface. Date _____
Artesian pressure _____ lb. per square inch. Date _____

(11) SUBSURFACE LOG:
Ground Elevation _____

Material Description	From	To	SWL
Sand Fine-med Tan	30	37	
Sandy Clay brn w/sand Fine	37	45	
Peat brown	45	46	
Wood w/sand Fine brown	46	48	
Sand Fine-med tan	48	53	
Gravel med-GRS Brn Red w/sand	53	60	
Sand Fine w/Gravel Fine GRS	60	65	
Sandy Clay Gray	65	66	
Claystone Gray	66	78	

Date Started 11/29/01 Date Completed 12/21/01

(12) ABANDONMENT LOG:

Material Description	From	To	Sacks or Pounds

Date started _____ Date Completed _____

Professional Certification
(to be signed by a licensed water supply or monitoring well constructor, or Oregon registered geologist or civil engineer).
I accept responsibility for the construction, alteration, or abandonment work performed during the construction dates reported above. All work performed during this time is in compliance with Oregon's geotechnical hole construction standards. This report is true to the best of my knowledge and belief.
License or Registration Number 1493
Signed Jim Mack Sr. MGCWC Date 1/7/02
Affiliation Bandon Well & Septic Co. Inc.

THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

STATE OF OREGON
GEOTECHNICAL HOLE REPORT
 (as required by OAR 690-240-035)

Well #2
 (Pg 1)

Application No. 915697
 Permit No. SC# 123874

(1) OWNER/PROJECT: Hole Number E102
 Name Bully Bandon Sheep Ranch
 Address 16 Box 1756
 City Bandon State OR Zip 97411

(2) TYPE OF WORK
 New Deepening Alteration (repair/recondition) Abandonment

(3) CONSTRUCTION:
 Rotary Air Hand Auger Hollow Stem Auger
 Rotary Mud Cable Tool Push Probe Other

(4) TYPE OF HOLE:
 Uncased Temporary Cased Permanent
 Uncased Permanent Slope Stability Other

(5) USE OF HOLE: Formation Samples

(6) BORE HOLE CONSTRUCTION:
 Special Construction approval Yes No Depth of Completed Hole 78' ft.

HOLE			SEAL			Sacks or pounds
Diameter	From	To	Material	From	To	
6"	0	78	Cement	0	78	25x
			Bentonite	0	35	18.5x

Backfill placed from _____ ft. to _____ ft. Material _____
 Filter Pack placed from _____ ft. to _____ ft. Size of pack _____

(7) CASING/SCREEN:

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing: 2"	+1	35	3/4	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Screen:				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

 Slot size _____

(8) WELL TEST:
 Pump Bailer Air Flowing Artesian
 Permeability _____ Yield _____ GPM _____
 Conductivity _____ PH _____
 Temperature of water _____ °F/C Depth artesian flow found _____ ft.
 Was water analysis done? Yes No
 By whom? _____
 Depth of strata analyzed. From _____ ft. to _____ ft.
 Remarks: _____

(9) LOCATION OF HOLE by legal description:
 County WAS Latitude _____ Longitude _____
 Township 27 N or S Range 14 E or W. WM.
 Section 20 NE/4 1/4 NE/4 1/4
 Tax Lot 100 Lot _____ Block _____ Subdivision _____
 Street Address of Well (or nearest address) WHEATY LANE PT Bandon

Map with location identified must be attached

(10) STATIC WATER LEVEL:
30'5" ft. below land surface. Date 12/21/01
 Artesian pressure _____ lb. per square inch. Date _____

(11) SUBSURFACE LOG:
 Ground Elevation +1-100'

Material Description	From	To	SWL
Topsoil	0	1	
Sand Fine brown	1	3	
Sand Fine Tan	3	12	
Clay brown	12	14	
Sandy Clay Tan	14	15	
Sand Fine Tan	15	16	
Sandy Clay white	16	20	
Sand Fine Tan	20	30	

Continued on Page #2
 Date Started 11/29/01 Date Completed 12/21/01

(12) ABANDONMENT LOG:

Material Description	From	To	Sacks or Pounds

Date started _____ Date Completed _____

Professional Certification
 (to be signed by a licensed water supply or monitoring well constructor, or Oregon registered geologist or civil engineer).
 I accept responsibility for the construction, alteration, or abandonment work performed during the construction dates reported above. All work performed during this time is in compliance with Oregon's geotechnical hole construction standards. This report is true to the best of my knowledge and belief.

License or Registration Number 14193
 Signed Jim Mack Sr MCWC Date 1/7/02
 Affiliation Bandon Well & Septic Co inc

THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK



Golder Associates Inc.

18300 NE Union Hill Road, Suite 200
Redmond, WA USA 98052-3333
Telephone (425) 883-0777
Fax (425) 882-5498
www.golder.com



January 20, 2009

Our Ref.: 023-1206.004

Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, OR 97301-1271

Attention: Douglas Woodcock

**RE: ANNUAL MONITORING REPORT FOR WATER YEAR 2008, BALLY BANDON
SHEEP RANCH, GROUNDWATER PERMIT G-15437**

Dear Doug:

Groundwater permit G-15437 was issued to the Bally Bandon Sheep Ranch (Sheep Ranch) on May 16, 2004. The permit allows the Sheep Ranch to irrigate 95 acres from up to six wells, at a combined maximum pumping rate of 0.45 cfs (202 gallons per minute) from March 1 through October 31. As part of the terms of the settlement agreement for the permit, installation of a continuous record streamflow gaging station on Whisky Run Creek, collection of irrigation well pumping quantities, and collection of groundwater level data from the irrigation well(s) and two or more observation wells were required over a five year period. Collection of the data is described in the monitoring plan submitted to OWRD on September 3, 2003¹. Groundwater levels, pumping quantities, and streamflow data are collected by Sheep Ranch personnel. At this time, one irrigation well has been developed and is being used.

This letter describes groundwater and surface water data collected from October 1, 2007 through September 30, 2008. This is the fifth of five annual reports required by the permit. Data collected over the previous years was reported in the Water Year 2004, Water Year 2005, Water Year 2006, and Water Year 2007 reports^{2, 3, 4, 5}.

¹ Golder Associates Inc., 2003, Monitoring Plan, Bally Bandon Sheep Ranch, Water Right Permit G-15437, September 3, 2003.

² Golder Associates Inc., 2004, Annual Monitoring Report for Water Year 2004, Bally Bandon Sheep Ranch, Groundwater Permit G-15437, November 17, 2004.

³ Golder Associates Inc., 2005, Annual Monitoring Report for Water Year 2005, Bally Bandon Sheep Ranch, Groundwater Permit G-15437, November 23, 2005.

⁴ Golder Associates Inc., 2007, Annual Monitoring Report for Water Year 2006, Bally Bandon Sheep Ranch, Groundwater Permit G-15437, January 15, 2007.

⁵ Golder Associates Inc., 2007, Annual Monitoring Report for Water Year 2007, Bally Bandon Sheep Ranch, Groundwater Permit G-15437, December 19, 2007.

GROUNDWATER LEVELS

Groundwater levels were measured manually in the irrigation well and observation wells using an electric water level tape. Groundwater levels were collected on a monthly to weekly basis in the following wells:

- Bally Bandon Sheep Ranch irrigation well (Coos 52219);
- Bally Bandon Sheep Ranch northern piezometer (Coos 52220);
- Bally Bandon Sheep Ranch piezometer adjacent to irrigation well (Coos 52549); and
- Tokyo Lane well (Coos 717).

The Sheep Ranch installed 4 new piezometers in exploratory borings completed at the golf course in September 2006 (P-1 through P-4, inclusive)⁶. In addition to these piezometers, the Sheep Ranch installed three piezometers in exploratory borings completed at the golf course in January 2007 (P-5 through P-7, inclusive). Two new irrigation wells were installed at the Sheep Ranch in March 2007 (Wells 5 and 6). The well and piezometer locations are shown on Figure 1, and the well logs for all of the wells and piezometers are included in Attachment A. Groundwater levels were measured weekly when the irrigation well was being used, and monthly during the remainder of the year. Well construction information for these wells is summarized on Table 1.

A 2008 Water Year hydrograph for the monitored wells is shown on Figure 2. The annual water level fluctuation in the non-pumping wells was between about three and five feet. Based on the data collected to date, pumping from the irrigation well has not affected the water level in the offsite well (Tokyo Lane Well) or in the northern piezometer (Coos 52220). The groundwater level data collected since 2003 does not indicate any long-term water level decline.

GROUNDWATER PUMPING

The irrigation well was used in from May 2008 through September 2008. In Water Year 2008, 3.49 million gallons (10.7 acre-feet) was pumped from the irrigation well. The monthly pumping totals are summarized on Table 2. Monthly average pumping rates ranged between about 6 and 19 gallons per minute (0.012 to 0.043 cfs). Monthly pumping for Water Year 2008 is shown on Figure 3. In comparison, pumping in Water Years 2004, 2005, 2006, and 2007 was 8.1 acre-feet, 12.8 acre-feet, 15.2 acre-feet, and 13.7 acre-feet, respectively (Table 2).

WHISKY RUN CREEK STREAMFLOW

Streamflow on Whisky Run Creek is measured using a Swoffer current meter. A continuous record gaging station was established using a pressure transducer to measure stream stage height. A rating curve was developed based on the Swoffer current meter readings and the transducer stage to estimate streamflows. Precipitation in Water Year 2008 was about 51.94 inches, or about 7.7 inches less than the long-term annual average precipitation of about 59.62 inches⁷.

The streamflow data are shown on Figure 4, along with monthly precipitation data collected at Bandon. As shown on Figure 4, streamflow tends to increase in Whisky Run Creek after

⁶ Golder Associates Inc., 2007, Annual Monitoring Report for Water Year 2006, Bally Bandon Sheep Ranch, Groundwater Permit G-15437, January 15, 2007.

⁷ <http://www.wrcc.dri.edu/cgi-bin/cliMAIN.pl?orband>

precipitation events, but otherwise remains relatively constant. Over the course of Water Year 2008, streamflows ranged from about 4 cfs in late November 2007 to 2 cfs in early November 2007. The constant streamflow over most of the year indicates that flows in Whisky Run Creek are sustained by relatively constant groundwater discharge over the year, rather than surface runoff.

OWRD established minimum instream flows (MISF) on Whisky Run Creek (certificate 72875). The instream flows are shown on Figure 4 (red dashed line). As shown on Figure 4, the gaged flows exceed the MISF after about April 15, 2008. Withdrawals from the irrigation well started in May 2008, when gaged streamflow was about 3 cfs, compared to the MISF for May of 1.28 cfs. The flow in Whisky Run Creek was always above the MISF when the irrigation well was pumped. Also shown on Figure 4 is the OWRD estimated natural streamflow for Whisky Run Creek based on 80% exceedance⁸ (blue dashed line). The MISF exceeds the estimated natural streamflow over the entire year. As shown on Figure 4, the measured streamflow was higher than the OWRD natural streamflow over the entire irrigation season (May through September).

CLOSURE

Per the permit requirements, streamflow and groundwater levels have been measured and reported for the five Water Years (Water Years 2003 to 2008, inclusive) to provide the information needed to define the 80% exceedance natural streamflow in Whisky Run Creek and groundwater level impacts on senior groundwater users. Please contact us if you have any questions or need additional information.

Sincerely,

GOLDER ASSOCIATES INC.



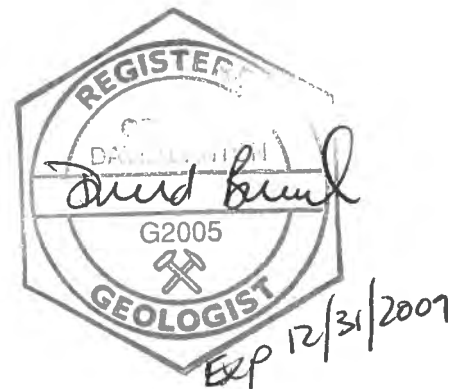
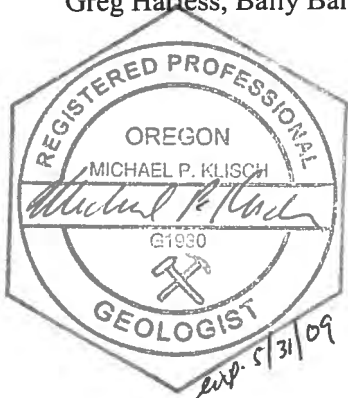
Michael Klisch, R.G.
Senior Project Hydrogeologist



David Banton, R.G.
Principal Hydrogeologist

MK/DB/jbk

cc: Phil Friedmann
Greg Harless, Bally Bandon Sheep Ranch



⁸ telnet://wars.wrd.state.or.us/

List of Tables

Table 1	Irrigation and Observation Well Information
Table 2	Water Year 2008 Pumping Data Bally Bandon Sheep Ranch Well No. 1

List of Figures

Figure 1	Site Map with Measurement Locations
Figure 2	Well Hydrographs Water Year 2008
Figure 3	Irrigation Well Water Production Water Year 2008
Figure 4	Whisky Run Creek Streamflow and Bandon Precipitation Water Year 2008

List of Appendices

Appendix A	Well Logs for Site Wells and Piezometers
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TABLES

Irrigation and Observation Well Information

Well Name	Depth Drilled (feet bgs)	Depth of Completed Well (feet bgs)	Open or Screened Interval (feet bgs)	TRS Location	Distance from Irrigation Well (feet)	Ground Surface Elevation (ft amsl)	Depth to Water (ft bgs)	Groundwater Elevation (ft amsl)	Date
Irrigation Well (Coos 52219)	110	83	66-81	T27S/R14W-20 NW/SW	0	123	58.2	64.8	9/27/2007
Northern Piezometer (Coos 52220)	78	35	34.5-35	T27S/R14W-20 NW/NW	2,700	119	33.5	85.5	9/27/2007
Irrigation Well Piezometer (Coos 52546)	75	75	60-75	T27S/R14W-20 NW/SW	81	124	57.67	66.3	9/27/2007
Tokyo Lane Well (Coos 717)	47	47	27-47	T27S/R14W-17 SW/NE	4,500	170	16.8	153.2	9/27/2007
Piezometer P-1 (Coos 53702)	65	65	36-46	T27S/R14W-20 NE/NW	3,300	141	39.65	101.4	10/17/2006
Piezometer P-2 (Coos 53699)	55	55	40-45	T27S/R14W-20 NE/NW	4,400	161	18.54	142.5	10/17/2006
Piezometer P-3 (Coos 53700)	65	53	43-53	T27S/R14W-20 SE/NW	3,700	157	33.76	123.2	10/17/2006
Piezometer P-4 (Coos 53703)	73	72.6	54-64	T27S/R14W-20 NW/SW	1,100	91	53.65	37.4	10/17/2006
Piezometer P-5 (Coos 53827)	75	75	65-75	T27S/R14W-20 SW/SW	950	103	46.8	56.2	4/13/2007
Piezometer P-6 (Coos 53828)	71	62.58	52.58-62.58	T27S/R14W-20 SE/NW	1,650	114	38.18	75.8	1/1/2007
Piezometer P-7 (Coos 53826)	55	49.66	39.66-49.66	T27S/R14W-20 NW/SE	2,600	170	31.3	138.7	1/17/2007
Irrigation Well 5 (Coos 53863)	76	75	62.5-72.5	T27S/R14W-20 SW/SW	950	103	59.5	43.5	3/26/2007
Irrigation Well 6 (Coos 53868)	70	65	52.5-62.6	T27S/R14W-20 SE/NW	1,650	114	34.0	80.0	3/30/2007

Notes

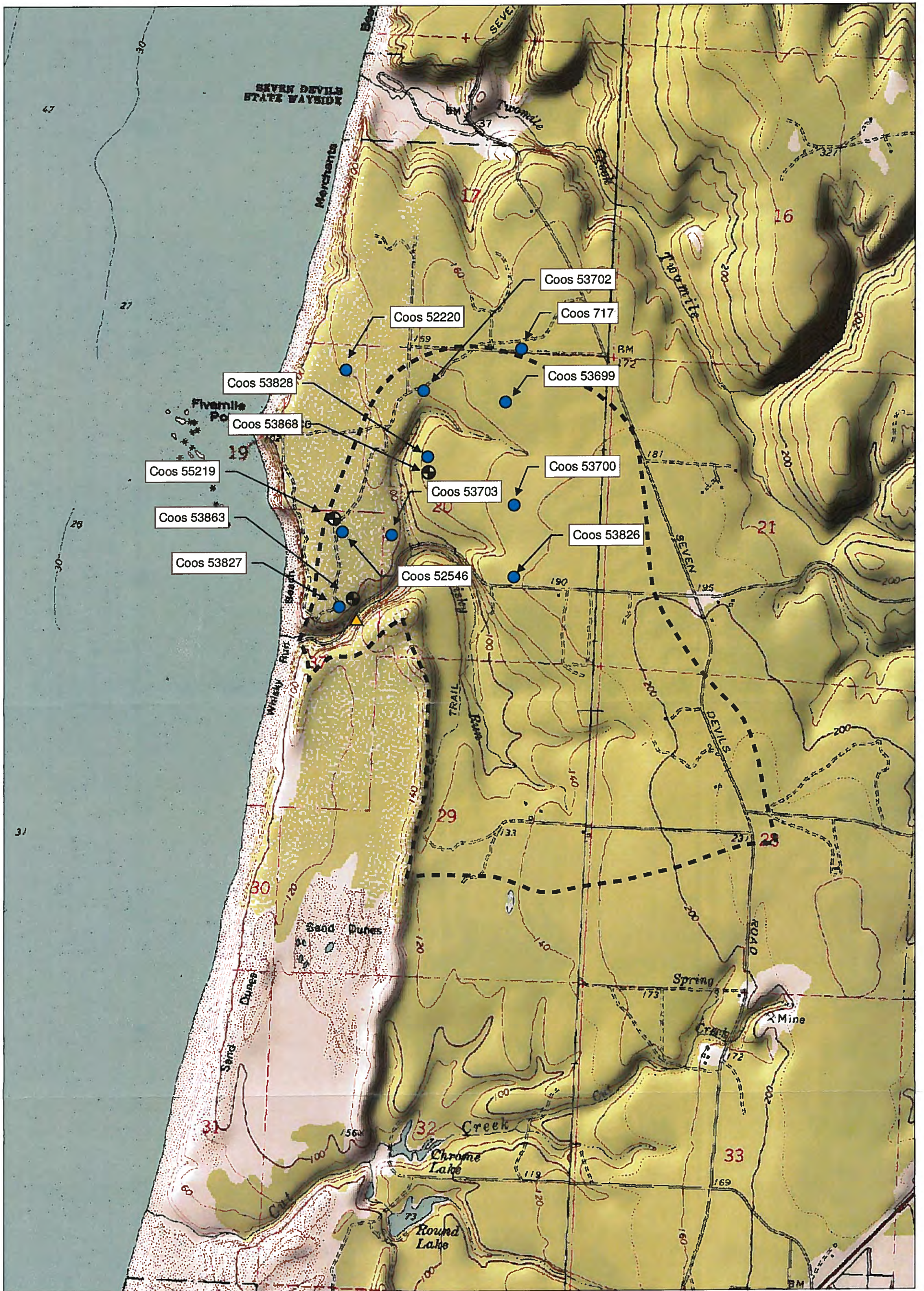
Elevations for Sheep Ranch irrigation well and piezometers estimated from GIS site map.

Elevations for Tokyo Lane well and piezometers estimated from 7.5 Minute USGS Topographic Quadrangle





Water Year 2008 Pumping Data Bally Bandon Sheep Ranch Well No. 1

Month	Gallons Pumped	Acre-Feet	Average Pumping Rate (gpm)
October 2007	0	0.00	0.0
May 2008	241,100	0.74	5.6
June 2008	848,900	2.61	19.0
July 2008	857,100	2.63	19.2
August 2008	865,200	2.66	19.4
September 2008	676,000	2.07	15.6
Total for Water Year 2008	3,488,300	10.70	15.5
Total for Water Year 2007	4,448,900	13.65	19.8
Total for Water Year 2006	4,945,205	15.18	22.0
Total for Water Year 2005	4,178,410	12.82	18.6
Total for Water Year 2004	2,651,400	8.14	15.2

FIGURES



LEGEND

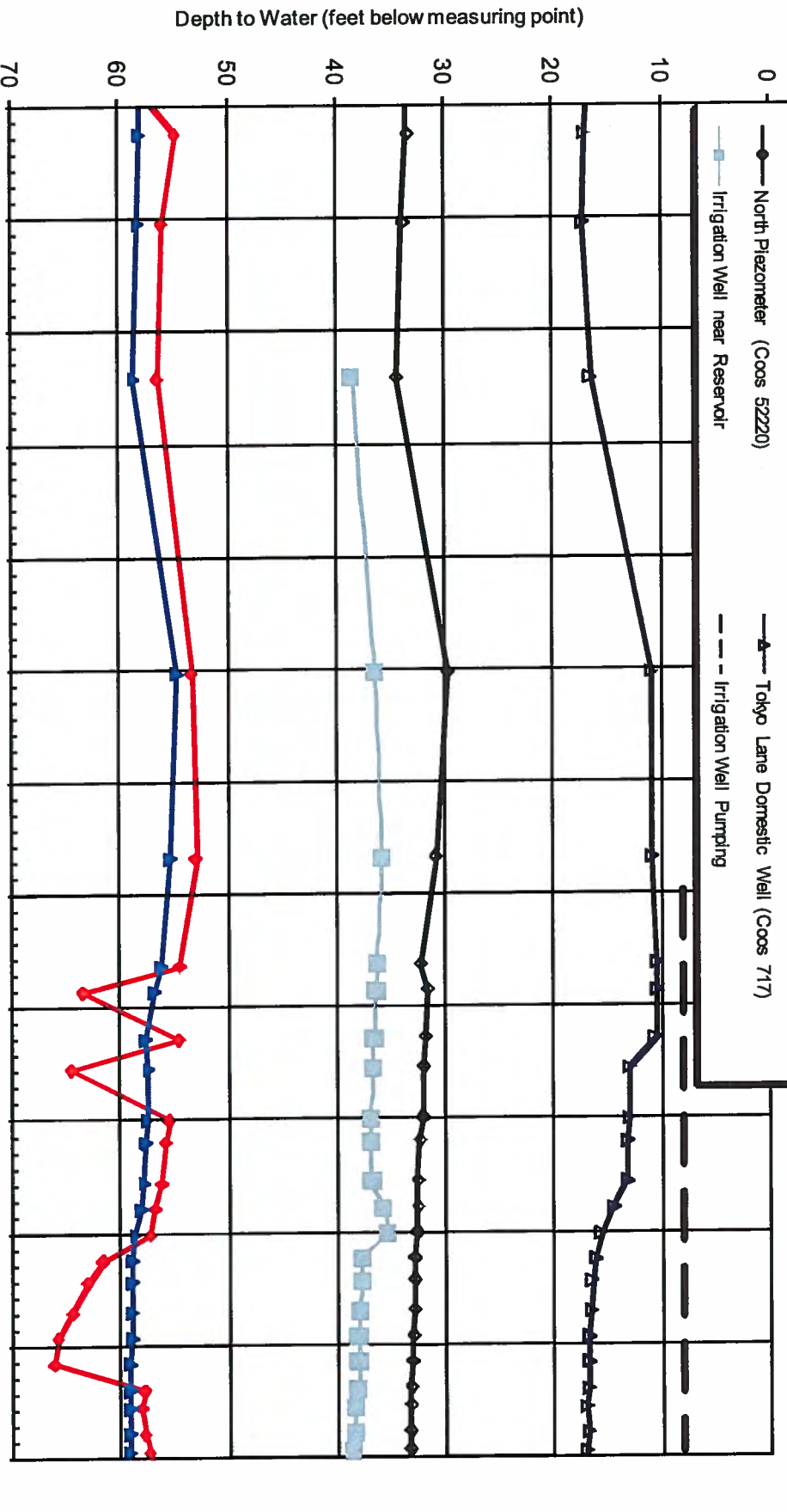
-  Watershed Boundary
-  Stream Gaging Station
-  Private/Domestic Well or Piezometer
-  Irrigation Well

(See Appendix A for well logs)

0 1500

Scale 1" = 1500 Feet
 Map Projection:
 Oregon State Plane, NAD 83,
 South Zone, Feet
 Source: Regional Ecosystem
 Organization

Site Map With Measurement Locations			
BALLY BSR/GROUNDWATER SERVICES/OR			
Drawn: SJG	Revision: 5	Dec. 03, 2007	Figure: 1



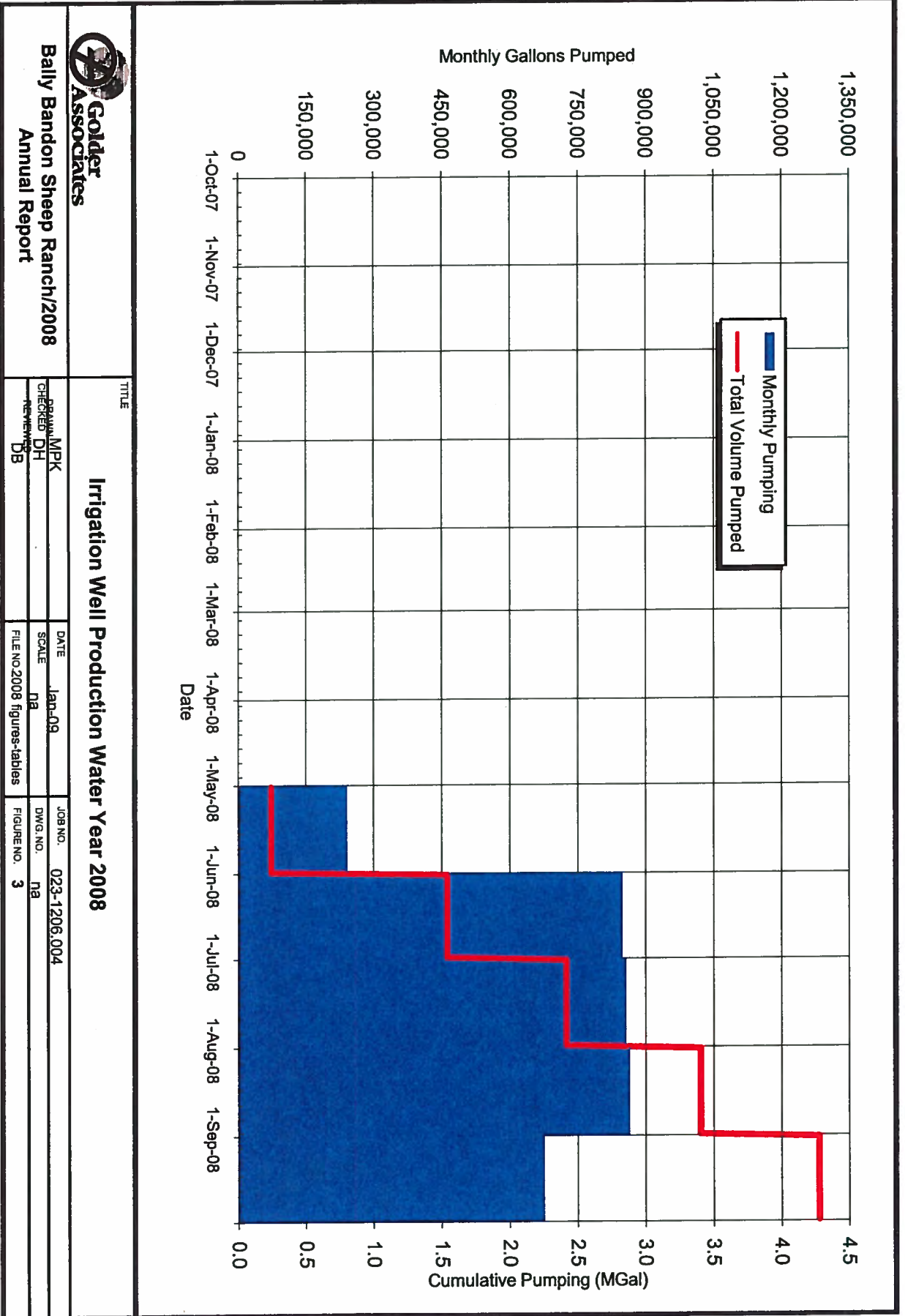
Date



Well Hydrographs Water Year 2008

**Bally Bandon Sheep Ranch/2008
Annual Report**

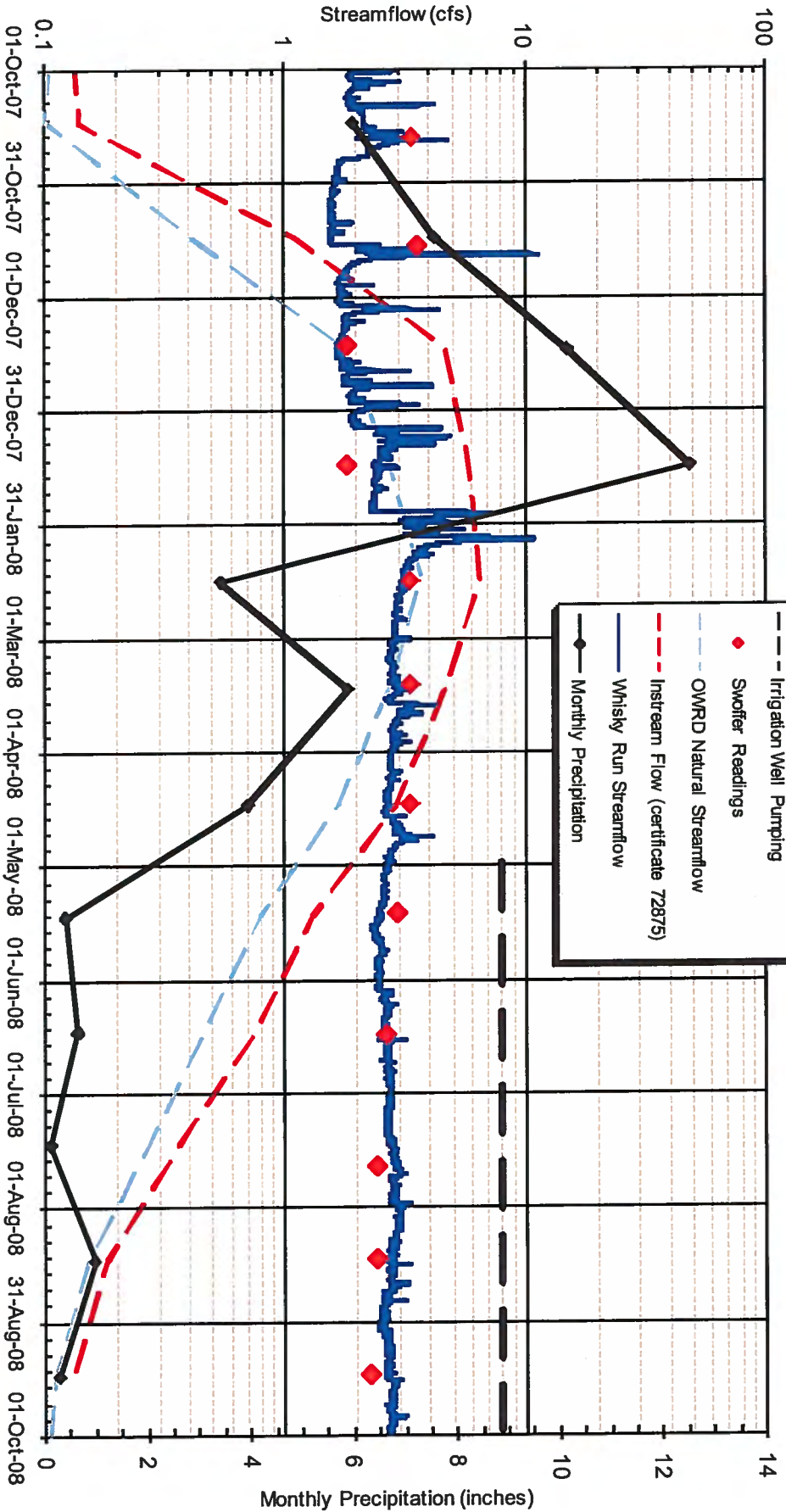
DRAWN		DATE	JOB NO.
MPK	MPK	Jan-09	023-1206,004
CHECKED		SCALE	DWG. NO.
DH	DH	NA	NA
REVIEWED		FILE NO.	FIGURE NO.
DB	DB	2008 figures-tables	2



Goldner Associates
 Bally Bandon Sheep Ranch/2008
 Annual Report

Irrigation Well Production Water Year 2008

TITLE		JOB NO.	
DRAWN: M/PK		023-1206.004	
CHECKED: DH	DATE: Jan-09	DWG. NO.:	na
REVIEWED: DB	SCALE: na	FIGURE NO.:	3
FILE NO. 2008 figures-tables			



Bally Bandon Sheep Ranch/2008
Annual Report

Whiskey Run Creek Streamflow and Bandon Precipitation Water Year 2008

Note:
Precipitation data taken from USBR gage
(www.ocs.oregonstate.edu/index.html)

DRAWN	MPK	DATE	JAN-09	JOBNO.	023-1206.004
CHECKED	DH	SCALE	NA	DWG. NO.	NA
REVIEWED	DB	FILENO.	2008 figures-tables	FIGURENO.	4

APPENDIX A
WELL LOGS FOR SITE WELLS AND PIEZOMETERS

STATE OF OREGON
WATER WELL REPORT
 (as required by ORS 537.765)

MAY 10 1993

WATER RESOURCES DEPT.

(START CARD) # 48138

CTS/14W/170

6007
717

(1) OWNER: SALEM, OREGON
 Well Number _____

Name Linda Roth
 Address P.O. Box 1619
 City Bandon State OR Zip 97411

(2) TYPE OF WORK:
 New Well Deepen Recondition Abandon

(3) DRILL METHOD:
 Rotary Air Rotary Mud Cable
 Other _____

(4) PROPOSED USE:
 Domestic Community Industrial Irrigation
 Thermal Injection Other _____

(5) BORE HOLE CONSTRUCTION:
 Special Construction approval Yes No Depth of Completed Well 47 ft.
 Explosives used Yes No Type _____ Amount _____

HOLE			SEAL			Amount sacks or pounds
Diameter	From	To	Material	From	To	
9	0	20	Cement	20	0	6
7	20	47				

How was seal placed: Method A B C D E
 Other _____

Backfill placed from _____ ft. to _____ ft. Material _____
 Gravel placed from 20 ft. to 47 ft. Size of gravel per gravel

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	<u>4 1/2</u>	<u>42</u>	<u>27</u>	<u>SM28</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liner:					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Final location of shoe(s) _____

(7) PERFORATIONS/SCREENS:
 Perforations Method _____
 Screens Type Hydrophillic Material plastic

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
<u>27</u>	<u>47</u>	<u>10/10</u>		<u>4 1/2</u>	<u>4 1/2</u>	<input type="checkbox"/>	<input type="checkbox"/>

(8) WELL TESTS: Minimum testing time is 1 hour

Yield gal/min	Drawdown	Drill stem at	Time
<u>15</u>		<u>47</u>	<u>1 hr.</u>

Temperature of Water 52.0 Depth Artesian Flow Found _____
 Was a water analysis done? Yes By whom _____
 Did any strata contain water not suitable for intended use? Too little
 Salty Muddy Odor Colored Other _____
 Depth of strata: _____

(9) LOCATION OF WELL by legal description:
 County COOS Latitude _____ Longitude _____
 Township 27 N or S Range 14 E or W WM.
 Section 17 SW NE
 Tax Lot 1500 Lot _____ Block _____ Subdivision _____
 Street Address of Well (or nearest address) Rd 2303 Toluy

(10) STATIC WATER LEVEL:
21 ft. below land surface. Date 4/9/93
 Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:

Depth at which water was first found 12'

From	To	Estimated Flow Rate	SWI
<u>24</u>	<u>47</u>	<u>15 gpm</u>	<u>21</u>

(12) WELL LOG:
 Ground elevation _____

Material	From	To	SWI
<u>Brown sandy clay</u>	<u>0</u>	<u>24</u>	
<u>Brown sand</u>	<u>24</u>	<u>47</u>	

Date started 4-7-93 Completed 4/9/93
 (unbonded) Water Well Constructor Certification:

I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Material used and information reported above are true to my best knowledge and belief.

WWC Number _____
 Signed _____ Date _____

(bonded) Water Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 130
 Signed _____ Date 5/5/93

JAN 10 2002

27-14-20

STATE OF OREGON WATER SUPPLY WELL REPORT (as required by ORS 537.765)

WATER RESOURCES DEPT. SALEM, OREGON

WELL I.D. # L 51164 START CARD # 123874

Instructions for completing this report are on the last page of this form.

(1) OWNER: Well Number 808 Name Bally Bandon Sheep Ranch Address PO Box 1756 City Bandon State OR Zip 97411

(2) TYPE OF WORK: [X] New Well [] Deepening [] Alteration (repair/recondition) [] Abandonment

(3) DRILL METHOD: [] Rotary Air [X] Rotary Mud [] Cable [] Auger [] Other

(4) PROPOSED USE: [] Domestic [] Community [] Industrial [X] Irrigation [] Thermal [] Injection [] Livestock [] Other

(5) BORE HOLE CONSTRUCTION: Special Construction approval [] Yes [X] No Depth of Completed Well 89 ft. Explosives used [] Yes [X] No Type Amount

Table with columns: HOLE Diameter, From, To, Material, SEAL From, To, Sacks or pounds. Rows include Bentonite and Cement seals.

How was seal placed: Method [] A [] B [X] C [] D [] E [X] Other Bentonite powder from surface cement Backfill placed from 35 ft. to 89 ft. Material Gravel placed from 35 ft. to 89 ft. Size of gravel 6/9

(6) CASING/LINER: Table with columns: Diameter, From, To, Gauge, Steel, Plastic, Welded, Threaded. Rows for 8" and 10" casing.

Final location of shoe(s)

(7) PERFORATIONS/SCREENS: Table with columns: From, To, Slot size, Number, Diameter, Tele/pipe size, Casing, Liner. Includes Johnson wire material.

(8) WELL TESTS: Minimum testing time is 1 hour

Table for well tests with columns: Yield gal/min, Drawdown, Drill stem at, Time. Shows 7.3 yield at 9' drawdown.

Temperature of water 52° Depth Artesian Flow Found Was a water analysis done? [X] Yes By whom BWS Did any strata contain water not suitable for intended use? [] Too little [] Salty [] Muddy [] Odor [] Colored [] Other

Bandon Well & Septic Co., Inc.

(9) LOCATION OF WELL by legal description: County COOS Latitude Longitude Township 27 N or S Range 14 E or W WM. Section 20 NW 14 SW 1/4 Tax Lot 400 Lot Block subdivision Street Address of Well (or nearest address) Whiskey Run Rd. Bandon

(10) STATIC WATER LEVEL: 56' ft. below land surface. Date 12/20/01 Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES: Depth at which water was first found 56'

Table with columns: From, To, Estimated Flow Rate, SWL. Shows flow rate of 100 gpm at 56' depth.

(12) WELL LOG: Ground Elevation +/- 100'

Table for well log with columns: Material, From, To, SWL. Lists soil layers from Topsoil to Claystone Gray.

Date started 11/21/01 Completed 12/20/01

(unbonded) Water Well Constructor Certification: I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Signed Chad Keeney WWC Number 1759 Date 1/4/02

(bonded) Water Well Constructor Certification: I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. Signed Jim Mackle MGC WWC Number 1493 Date 1/7/02

STATE OF OREGON
GEOTECHNICAL HOLE REPORT
 (as required by OAR 690-240-035)

Coos
 52220

(Pg 1)

(1) OWNER/PROJECT: Bally Bandon Sheep Ranch Hole Number 810
 Name Bally Bandon Sheep Ranch
 Address PO Box 1756
 City Bandon State OR Zip 97411

(2) TYPE OF WORK
 New Deepening Alteration (repair/recondition) Abandonment

(3) CONSTRUCTION:
 Rotary Air Hand Auger Hollow Stem Auger
 Rotary Mud Cable Tool Push Probe Other

(4) TYPE OF HOLE:
 Uncased Temporary Cased Permanent
 Uncased Permanent Slope Stability Other

(5) USE OF HOLE: Formation Samples

(6) BORE HOLE CONSTRUCTION:
 Special Construction approval Yes No Depth of Completed Hole 78' ft.

HOLE			SEAL			Sacks or pounds
Diameter	From	To	Material	From	To	
6"	0	78	Cement	0	78	25x
			Bentonite	0	35	185x

Backfill placed from _____ ft. to _____ ft. Material _____
 Filter Pack placed from _____ ft. to _____ ft. Size of pack _____

(7) CASING/SCREEN:

Diameter	From	To	Gauge	Steel				Plastic	Welded	Threaded
				Steel	Plastic	Welded	Threaded			
Casing: 2"	+1	35	5x40	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Screen:				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Slot size _____

(8) WELL TEST:
 Pump Bailer Air Flowing Artesian
 Permeability _____ Yield _____ GPM _____
 Conductivity _____ PH _____
 Temperature of water _____ °F/C Depth artesian flow found _____ ft.
 Was water analysis done? Yes No
 By whom? _____
 Depth of strata analyzed. From _____ ft. to _____ ft.
 Remarks: _____

(9) LOCATION OF HOLE by legal description:
 County Coos Latitude _____ Longitude _____
 Township 27 N or S Range 14 E or W. W.M.
 Section 20 1/4 1/4 1/4
 Tax Lot 100 Lot _____ Block _____ Subdivision _____
 Street Address of Well (or nearest address) Whiskey Run Rd, Bandon

Map with location identified must be attached

(10) STATIC WATER LEVEL:
30'5" ft. below land surface. Date 12/21/01
 Artesian pressure _____ lb. per square inch. Date _____

(11) SUBSURFACE LOG:
 Ground Elevation +1-100'

Material Description	From	To	SWL
Topsoil	0	1	
Sand Fine brown	1	3	
Sand Fine Tan	3	12	
Clay brown	12	14	
Sandy Clay Tan	14	15	
Sand Fine Tan	15	18	
Sandy Clay white	18	20	
Sand Fine Tan	20	30	

Continued on Page #2
 Date Started 11/29/01 Date Completed 12/21/01

(12) ABANDONMENT LOG:

Material Description	From	To	Sacks or Pounds
RECEIVED JAN 10 2002 WATER RESOURCES DEPT. SALEM, OREGON			

Date started _____ Date Completed _____

Professional Certification
 (to be signed by a licensed water supply or monitoring well constructor, or Oregon registered geologist or civil engineer).
 I accept responsibility for the construction, alteration, or abandonment work performed during the construction dates reported above. All work performed during this time is in compliance with Oregon's geotechnical hole construction standards. This report is true to the best of my knowledge and belief.
 License or Registration Number 1493
 Signed Jim Mack SA MWC Date 1/7/02
 Affiliation Bandon Well & Septic Co Inc

THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

STATE OF OREGON
GEOTECHNICAL HOLE REPORT
(as required by OAR 690-240-035)

(Pg 2)

COOS
52220

(1) OWNER/PROJECT: Hole Number 810
Name Billy Borden Sheep Ranch
Address PO Box 1756
City Bandon State OR Zip 97411

(9) LOCATION OF HOLE by legal description:
County Coos Latitude _____ Longitude _____
Township d7 N or (S) Range 14 E or (W) WM.
Section 20 NW 1/4 NW 1/4
Tax Lot 100 Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) Whiskey Run Rd Bandon

(2) TYPE OF WORK
 New Deepening Alteration (repair/recondition) Abandonment

(3) CONSTRUCTION:
 Rotary Air Hand Auger Hollow Stem Auger
 Rotary Mud Cable Tool Push Probe Other _____

(4) TYPE OF HOLE:
 Uncased Temporary Cased Permanent
 Uncased Permanent Slope Stability Other _____

(5) USE OF HOLE:

Map with location identified must be attached
(10) STATIC WATER LEVEL:
_____ ft. below land surface. Date _____
Artesian pressure _____ lb. per square inch. Date _____

(11) SUBSURFACE LOG:
Ground Elevation _____

Material Description	From	To	SWL
Sand Fine-med Tan	30	37	
Sandy Clay brn w/sand Fine	37	45	
Peat brown	45	46	
wood w/sand Fine brown	46	48	
Sand Fine-med tan	48	53	
Gravel med CRS Brn Red w/sand	53	60	
Sand Fine w/Gravel Fine CRS Grp	60	65	
Sandy Clay Gray	65	66	
Claystone Gray	66	78	

Date Started 11/29/01 Date Completed 12/21/01

(6) BORE HOLE CONSTRUCTION:
Special Construction approval Yes No Depth of Completed Hole _____ ft.

HOLE			SEAL			Sacks or pounds
Diameter	From	To	Material	From	To	

Backfill placed from _____ ft. to _____ ft. Material _____
Filter Pack placed from _____ ft. to _____ ft. Size of pack _____

(12) ABANDONMENT LOG:

Material Description	From	To	Sacks or Pounds

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WATER RESOURCES DEPT.
SALEM, OREGON

Date started _____ Date Completed _____

(7) CASING/SCREEN:
Diameter From To Gauge Steel Plastic Welded Threaded
Casing: _____
Screen: _____
Slot size _____

(8) WELL TEST:
 Pump Bailer Air Flowing Artesian
Permeability _____ Yield _____ GPM _____
Conductivity _____ PH _____
Temperature of water _____ °F/C Depth artesian flow found _____ ft.
Was water analysis done? Yes No
By whom? _____
Depth of strata analyzed. From _____ ft. to _____ ft.
Remarks: _____

Professional Certification
(to be signed by a licensed water supply or monitoring well constructor, or Oreg registered geologist or civil engineer).
I accept responsibility for the construction, alteration, or abandonment work performed during the construction dates reported above. All work performed during this time is in compliance with Oregon's geotechnical hole construction standards. This report is true to the best of my knowledge and belief.
License or Registration Number 1493
Signed Jim Muckler MGCW Date 1/7/02
Affiliation Bandon Well & Septic Co. Inc.

THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

271420
COPY

REDUCED COPY
NOT TO SCALE

CHANGES UPDATED AS OF MAR 16 1995

THIS MAP WAS PREPARED FOR
ASSESSMENT PURPOSE ONLY.

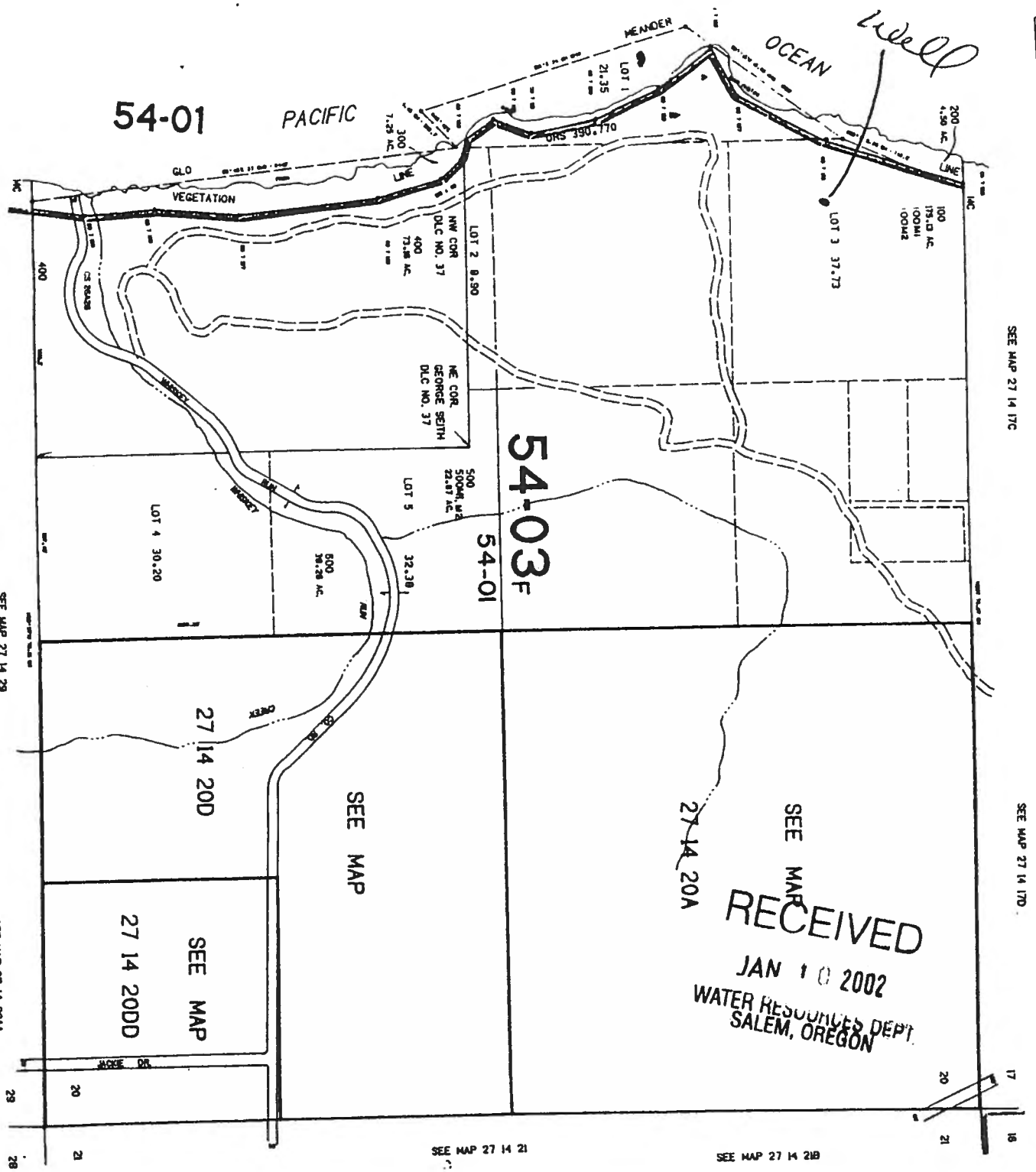
COOS COUNTY

1-400'

SEE MAP 27 14 17C

SEE MAP 27 14 17D

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JAN 10 2002
WATER RESOURCES DEPT.
SALEM, OREGON



LAYOUT TRACED CHECKED

27 14 20
& INDEX

Q INVEN

STATE OF OREGON
 GEOTECHNICAL HOLE REPORT
 (as required by OAR 690-240-035)
 WATER RESOURCES DEPT.
 SALEM, OREGON

OCT 11 2002

27-14-20 NW SW

(1) OWNER/PROJECT: Billy Bandon Sheep Ranch Hole Number 856

Name Billy Bandon Sheep Ranch
 Address PO Box 1756
 City Bandon State OR Zip 97411

(2) TYPE OF WORK
 New Deepening Alteration (repair/recondition) Abandonment

(3) CONSTRUCTION:
 Rotary Air Hand Auger Hollow Stem Auger
 Rotary Mud Cable Tool Push Probe Other

(4) TYPE OF HOLE:
 Uncased Temporary Cased Permanent
 Uncased Permanent Slope Stability Other

(5) USE OF HOLE: Piezometer

(6) BORE HOLE CONSTRUCTION:
 Special Construction approval Yes No Depth of Completed Hole 76'8" TOC

HOLE			SEAL			Sacks or pounds
Diameter	From	To	Material	From	To	
6"	0	75	Bentonite	0	40	13

Backfill placed from _____ ft. to _____ ft. Material _____
 Filter Pack placed from 40 ft. to 75 ft. Size of pack 10/20

(7) CASING/SCREEN:

Casing/Screen	Diameter	From		To		Gauge	Steel	Plastic	Welded	Threaded
		ft.	ft.	ft.	ft.					
Casing:	2"	+1	60	75	54	40	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Screen:	2"	60	75	54	40		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Slot size .020

(8) WELL TEST:

Pump Bailer Air Flowing Artesian
 Permeability _____ Yield _____ GPM 56 GPM
 Conductivity _____ PH _____
 Temperature of water 53° °F/C Depth artesian flow found _____ ft.
 Was water analysis done? Yes No
 By whom? _____
 Depth of strata analyzed. From _____ ft. to _____ ft.
 Remarks: _____

(9) LOCATION OF HOLE by legal description:
 County Was Latitude _____ Longitude _____
 Township 27 N or S Range 14 E or W. WM.
 Section 20 NW 1/4 SW 1/4
 Tax Lot 400 Lot _____ Block _____ Subdivision _____
 Street Address of Well (or nearest address) Whiskey Run Rd Bandon

Map with location identified must be attached

(10) STATIC WATER LEVEL:
58'4" ft. below land surface. Date 10/8/02
 Artesian pressure _____ lb. per square inch. Date _____

(11) SUBSURFACE LOG:
 Ground Elevation +1-300'

Material Description	From	To	SWL
Sandy Topsoil	0	1	
Cemental Sand Brown	1	2	
Sand brown Fine	2	9	
Sandy tan Clay	9	11	
Cemental sand tan	11	15	
Sandy Clay white	15	16	
Sand Fine tan	16	19	
Sandy Clay Orange	19	20	
Sand tan Fine-med	20	29	

Date Started 10/07/02 Date Completed 10/08/02

(12) SUBSURFACE LOG: Cont.

Material Description	From	To	SWL
Sandy Clay White + Orange	29	30	
Gravel Fine w/ Sand Brn	30	36	
Sand Fine-med Tan	36	40	
Sand Fine-Crs w/ Fine Gravel	40	61	58'4"
Sand Fine-Crs w/ Gravel Med-Fine	61	65	
Gravel Fine-Crs w/ sand	65	74	
Crs-Fine Gray brn	74	75	
Clay Gray			

Date started 10/07/02 Date Completed 10/08/02

Professional Certification
 (to be signed by a licensed water supply or monitoring well constructor, or Oregon registered geologist or civil engineer).

I accept responsibility for the construction, alteration, or abandonment work performed during the construction dates reported above. All work performed during this time is in compliance with Oregon's geotechnical hole construction standards. This report is true to the best of my knowledge and belief.

License or Registration Number 1493
 Signed Jim Mack of M6wc Date 10/09/02
 Affiliation Bandon Well + Septic Co Inc.

THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

STATE OF OREGON
MONITORING WELL REPORT

(as required by ORS 537.765 & OAR 690-240-0395)

WELL LABEL # L 80259

START CARD # 182715

(1) LAND OWNER Owner Well I.D. 1152

First Name Dennis Last Name Olson
Company BANDON BALLY SHEEP RANCH
Address PO Box 1756
City Bandon State OR Zip 97411

(2) TYPE OF WORK New Deepening Conversion
 Alteration (repair/recondition) Abandonment

(3) DRILL METHOD
 Rotary Air Rotary Mud Cable Hollow Stem Auger Cable Mud
 Reverse Rotary Other

(4) CONSTRUCTION Piezometer Well Special Standard

Depth of Completed Well 55 ft.



MONUMENT/VAULT Above Ground
From 1.3 To 4

BORE HOLE
Diameter 6 From 0 To 55

CASING
Dia. 2 From 1 To 40
Gauge Sch40 Wld Thrd
Material Steel Plastic

LINER
Dia. From To
Gauge Wld Thrd
Material Steel Plastic

SEAL
From 0 To 29
Material Bentonite
Amount 11 S Grout weight

SCREEN
Casing/Liner Casing Material PVC
Diameter 2 From 40 To 45
Slot Size .020

FILTER
From 29 To 46 Material Sand Size of pack 10/20

(5) WELL TESTS

Pump Bailer Air Flowing Artesian

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)
4		50	1

Temperature 53 °F Lab analysis Yes By

Supervising Geologist/Engineer

Water quality concerns? Yes (describe below)

From	To	Description	Amount	Units

(6) LOCATION OF WELL (legal description)

County COOS Twp 27 S N/S Range 14 W E/W WM
Sec 20 NE 1/4 of the NW 1/4 Tax Lot 100
Tax Map Number Lot
Lat ° 0 ' " or DMS or DD
Long ° 0 ' " or DMS or DD
 Street address of well Nearest address

no#(vacant) off Whiskey Run, Bandon

(7) STATIC WATER LEVEL

Existing Well / Predeepening	Date	SWL(psi)	+ SWL(ft)
Completed Well	09-18-2006		16.6

Flowing Artesian? Dry Hole?

WATER BEARING ZONES Depth water was first found

SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(ft)
09-18-2006	18	45	4		16.6

(8) WELL LOG

Ground Elevation 300

Material	From	To
Sandy clay brown	0	1
Cemented sand brown	1	2
Sand tan fine	2	5
Wood & sand fine tan	5	6
Sand fine tan	6	7
Sand fine-coarse tan	7	8
Sand fine-coarse w/gravel fine brown	8	13
Gravel fine w/sandy clay orange brown	13	17
Peat	17	18
Sand fine-coarse brown	18	23
Sandy clay tan w/peat	23	30
Sand fine-coarse tan	30	34
Sandy clay tan orange w/peat	34	39
Sand fine-coarse w/gravel fine tan	39	40
Sand fine-coarse w/gravel fine-medium tan	40	45
Sandy clay tan orange	45	45.5
Sandy clay white	45.5	46
Clay gray	46	48
Continued on page 2	46	48

Date Started 09-15-2006 Completed 09-18-2006

(unbonded) Monitor Well Constructor Certification

I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon monitoring well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

License Number Date
Password : (if filing electronically)
Signed

(bonded) Monitor Well Constructor Certification

I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon monitoring well construction standards. This report is true to the best of my knowledge and belief.

License Number 1493 Date 9/19/06
Password : (if filing electronically)
Signed
Contact Info (optional) BANDON WELL & PUMP COMPANY (541) 347-7867

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SEP 21 2006

(4) CONSTRUCTION

BORE HOLE			FILTER PACK			
Dia	From	To	From	To	Material	Size

SEAL						
Material	From	To	Amt	sacks/ lbs	grout weight	
Cement	46	55	1.5	S		

(7) STATIC WATER LEVEL

Water Bearing Zones						
SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(ft)	

CASING/LINER

Casing Liner	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd
	2		45	55	Sch40	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

SCREENS

Perf/ Screen	Casing/ Liner	Screen Dia	From	To	Scrn size/ slot width	Slot length	# of slots	Tele/ pipe size

(5) WELL TESTS

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)

Water Quality Concerns

From	To	Description	Amount	Units

(8) WELL LOG

Material	From	To
Claystone gray	48	52
Sandstone gray	52	53
Claystone gray	53	55

Comments/Remarks

Well drilled by Bandon Well & Pump Co.
(541) 347-7867

RECEIVED

SEP 21 2006

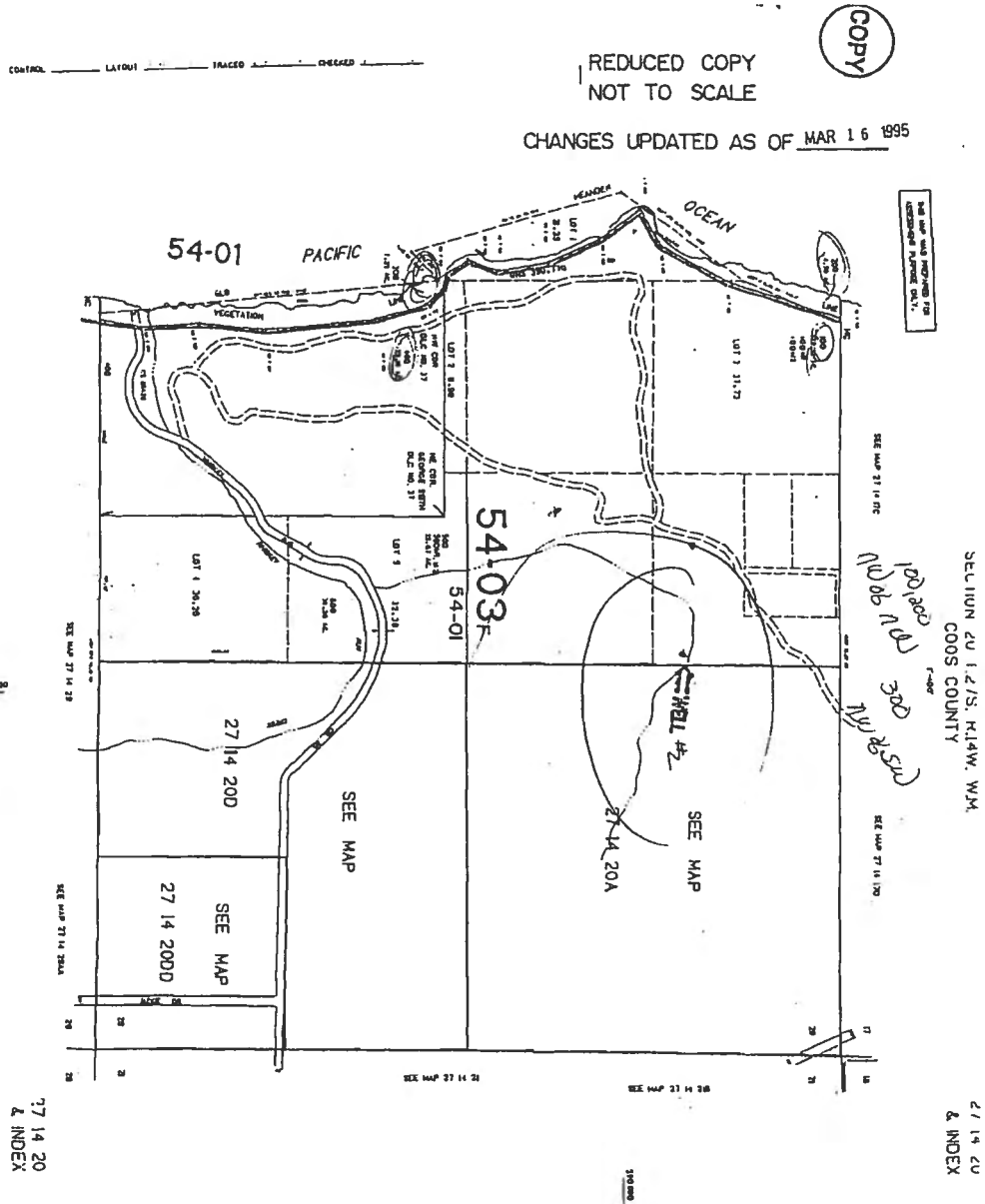
MONITORING WELL REPORT -

Map with location identified must be attached and shall include an approximate scale and north arrow

WELL I.D. # L 80259

START CARD # 182715

Map of well



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SEP 21 2006

WATER RESOURCES DEPT
SALEM, OREGON

STATE OF OREGON
MONITORING WELL REPORT

(as required by ORS 537.765 & OAR 690-240-0395)

WELL LABEL # L 80266

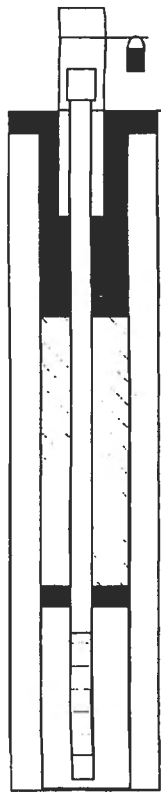
START CARD # 182716

(1) LAND OWNER Owner Well I.D. 1153
 First Name Dennis Last Name Olson
 Company BALLY BANDON SHEEP RANCH
 Address PO Box 1756
 City Bandon State OR Zip 97411

(2) TYPE OF WORK New Deepening Conversion
 Alteration (repair/recondition) Abandonment

(3) DRILL METHOD
 Rotary Air Rotary Mud Cable Hollow Stem Auger Cable Mud
 Reverse Rotary Other

(4) CONSTRUCTION Piezometer Well
 Depth of Completed Well 63.08 ft. Special Standard



MONUMENT/VAULT Above Ground
 From 1.3 To 4

BORE HOLE
 Diameter 6 From 0 To 65

CASING
 Dia. 2 From 1 To 43
 Gauge Sch40 Wid Thrd
 Material Steel Plastic

LINER
 Dia. From To
 Gauge Wid Thrd
 Material Steel Plastic

SEAL
 From 0 To 30
 Material Bentonite
 Amount 12 S Grout weight

SCREEN
 Casing/Liner Casing Material PVC
 Diameter 2 From 43 To 53
 Slot Size .020

FILTER
 From 30 To 54 Material Sand Size of pack 10/20

(5) WELL TESTS

Pump Bailor Air Flowing Artesian

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)
3		60	

Temperature 53 °F Lab analysis Yes By

Supervising Geologist/Engineer

Water quality concerns? Yes (describe below)

From	To	Depth	Amount	Units

(6) LOCATION OF WELL (legal description)
 County COOS Twp 27 S N/S Range 14 W E/W WM
 Sec 20 SE 1/4 of the NW 1/4 Tax Lot 100
 Tax Map Number Lot
 Lat ° 0 ' " or DMS or DD
 Long ° 0 ' " or DMS or DD
 Street address of well Nearest address

no#(vacant)Whiskey Run, Bandon

(7) STATIC WATER LEVEL

Date	SWL(psi)	+ SWL(ft)
Existing Well / Predeepcning		
Completed Well	09-19-2006	32.6

WATER BEARING ZONES Flowing Artesian? Dry Hole?
 Depth water was first found 32.6

SWL Date	From	To	Est Flow	SWL (psi)	+ SWL (ft)
09-19-2006	32.6	53.5	3		32.6

(8) WELL LOG Ground Elevation 300

Material	From	To
Cemented sand w/sand fine tan	0	4
Sand fine tan	4	9
Sandy clay tan w/gravel fine	9	10
Sand fine-coarse tan	10	16
Sand fine-coarse w/gravel fine tan	16	17
Sandy clay tan	17	18
Sand fine-coarse w/gravel fine tan	18	21
Sandy clay tan/orange w/peat	21	25
Sand fine-coarse w/gravel fine brown	25	38
Sandy clay tan/orange w/peat	38	41
Sand fine-coarse w/gravel f-m & cemented sand balls	41	45
Sand fine-coarse w/gravel fine tan	45	53
Gravel fine-medium w/sand fine-coarse tan	53	53.5
Sandy clay tan/orange	53.5	54
Clay tan & orange	54	56
Clay gray	56	57
Claystone gray	57	65

Date Started 09-18-2006 Completed 09-19-2006

(unbonded) Monitor Well Constructor Certification
 I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon monitoring well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.
 License Number _____ Date _____
 Password : (if filing electronically) _____
 Signed _____

(bonded) Monitor Well Constructor Certification
 I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon monitoring well construction standards. This report is true to the best of my knowledge and belief.
 License Number 1493 Date 9/20/06
 Password : (if filing electronically) _____
 Signed *John Meckel M6we*
 Contact Info (optional) BANDON WELL & PUMP COMPANY (541) 347-7867

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 SEP 21 2006

COOS 53700

MONITORING WELL REPORT -
continuation page

WELL I.D. # L 80266

START CARD # 182716

(4) CONSTRUCTION

BORE HOLE

Dia	From	To

FILTER PACK

From	To	Material	Size

SEAL

Material	From	To	Amt	sacks/ grout lbs weight
Cement	54	65	1.5	S

CASING/LINER

Casing Liner	Dia	+	From	To	Gauge	Stl	Plstc	Wid	Thrd
<input checked="" type="checkbox"/> <input type="checkbox"/>	2	<input type="checkbox"/>	53	63	Sch40	<input type="checkbox"/> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SCREENS

Perf/ Screen	Casing/ Liner	Screen Dia	From	To	Scrn size/ slot width	Slot length	# of slots	Tele/ pipe size

(5) WELL TESTS

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)

Water Quality Concerns

From	To	Description	Amount	Units
RECEIVED				
SEP 21 2006				

(7) STATIC WATER LEVEL

Water Bearing Zones

SWL Date	From	To	Est Flow	SWL(psi)	+	SWL(ft)
					<input type="checkbox"/>	
					<input type="checkbox"/>	
					<input type="checkbox"/>	
					<input type="checkbox"/>	
					<input type="checkbox"/>	
					<input type="checkbox"/>	
					<input type="checkbox"/>	
					<input type="checkbox"/>	

(8) WELL LOG

Material	From	To

Comments/Remarks

Well Drilled By
Bandon Well & Pump Co.
(541) 347-7867

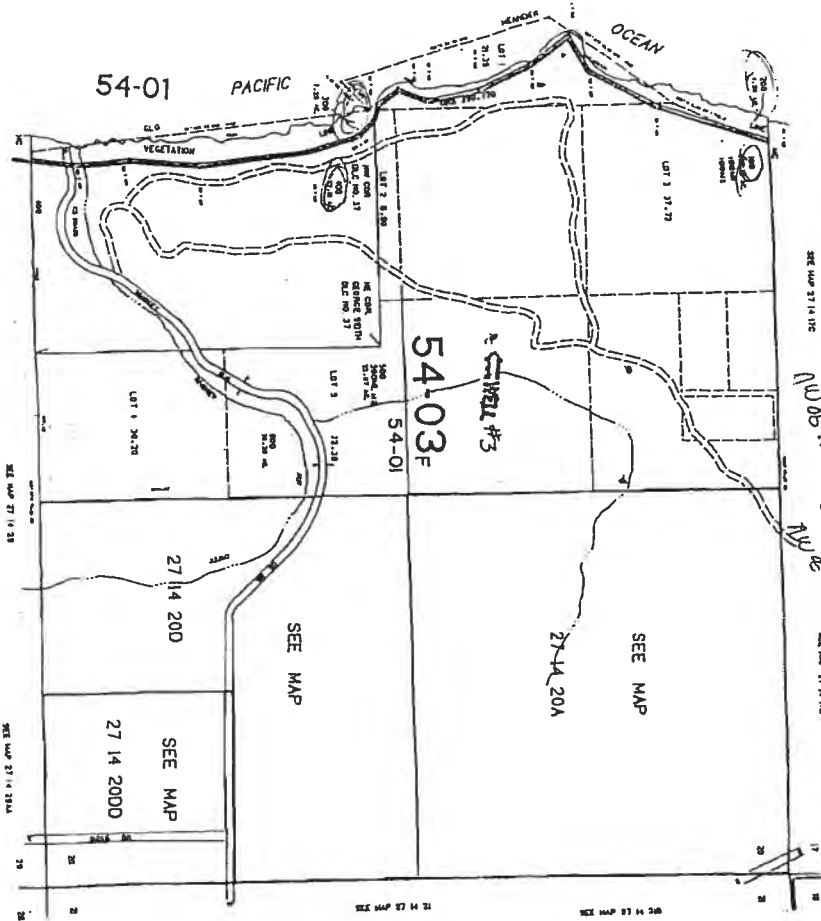
Map of well

CONTROL LAYOUT TRACED CHECKED

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NOT TO SCALE

COPY

CHANGES UPDATED AS OF MAR 16 1995



SEE MAP 27-14-190
SEE MAP 27-14-190
SEE MAP 27-14-190

SELLIUM 20 1/2 S. K14W. W.M.
COOS COUNTY
100' 000' 100' 000' 100' 000'
100' 000' 100' 000' 100' 000'

27-14-20
& INDEX

27-14-20
& INDEX

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WATER RESOURCES DEPT
SALEM, OREGON

STATE OF OREGON
MONITORING WELL REPORT

(as required by ORS 537.765 & OAR 690-240-0395)

WELL LABEL # L 80268

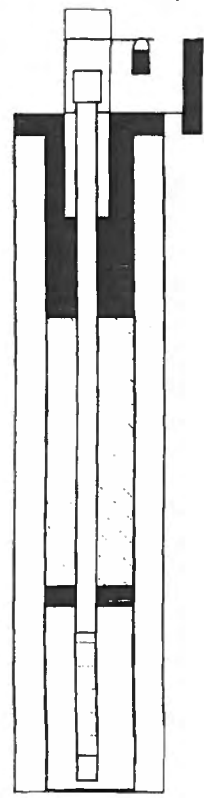
START CARD # 182714

(1) LAND OWNER Owner Well I.D. 1151
First Name Dennis Last Name Olson
Company BANDON BALLY SHEEP RANCH
Address PO Box 1756
City Bandon State OR Zip 97411

(2) TYPE OF WORK New Deepening Conversion
 Alteration (repair/recondition) Abandonment

(3) DRILL METHOD
 Rotary Air Rotary Mud Cable Hollow Stem Auger Cable Mud
 Reverse Rotary Other

(4) CONSTRUCTION Piezometer Well
Depth of Completed Well 65 ft. Special Standard



MONUMENT/VAULT Above Ground
From 1.25 To 4

BORE HOLE
Diameter 6 From 0 To 65

CASING
Dia. 2 From 1.25 To 36
Gauge Sch. 40 Wld Thrd
Material Steel Plastic

LINER
Dia. 2 From 46 To 65
Gauge Sch. 40 Wld Thrd
Material Steel Plastic

SEAL
From 0 1.37 To 26 1.46
Material Bentonite / cement
Amount 1 S GROUT weight
5x cement

SCREEN
Casing/Liner Casing Material PVC
Diameter 2 From 36 To 46
Slot Size .02

FILTER
From 26 To 37 Material Sand Size of pack 10/20

(5) WELL TESTS

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)
2		50	1

Temperature 53 °F Lab analysis Yes By

Supervising Geologist/Engineer

Water quality concerns? Yes (describe below)

From	To	Description	Amount	Units

(6) LOCATION OF WELL (legal description)
County COOS Twp 27 S N/S Range 14 W E/W WM
Sec 20 NE 1/4 of the NW 1/4 Tax Lot 100
Tax Map Number Lot
Lat ° 0 ' " or DMS or DD
Long ° 0 ' " or DMS or DD
 Street address of well Nearest address

no#(vacant) off Whiskey Run

(7) STATIC WATER LEVEL

Existing Well / Predeepening	Date	SWL(psi)	+ SWL(ft)
Completed Well	09-15-2006		38.3

WATER BEARING ZONES

SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(ft)
09-15-2006	38.3	46	2		38.3

(8) WELL LOG Ground Elevation 300

Material	From	To
Cemented sand brown	0	1
Sandy clay brown	1	3
Cemented sand brown	3	7
Sandy clay white	7	8
Cemented sand orange & brown	8	11
Sand fine - coarse w/ gravel fine brown	11	14
Cemented sand orange & brown	14	15
Sand fine-coarse w/gravel fine brown	15	24
Cemented sand brown	24	27
Sandy clay tan w/peat & sand coarse-fine	27	31
Gravel fine w/sand coarse-fine gray	31	38
Peat	38	43
Sand fine-coarse w/gravel fine gray brown	43	46
Peat	46	47
Sandy clay white w/gravel fine-medium gray	47	56
Clay gray	56	60
Claystone gray	60	65

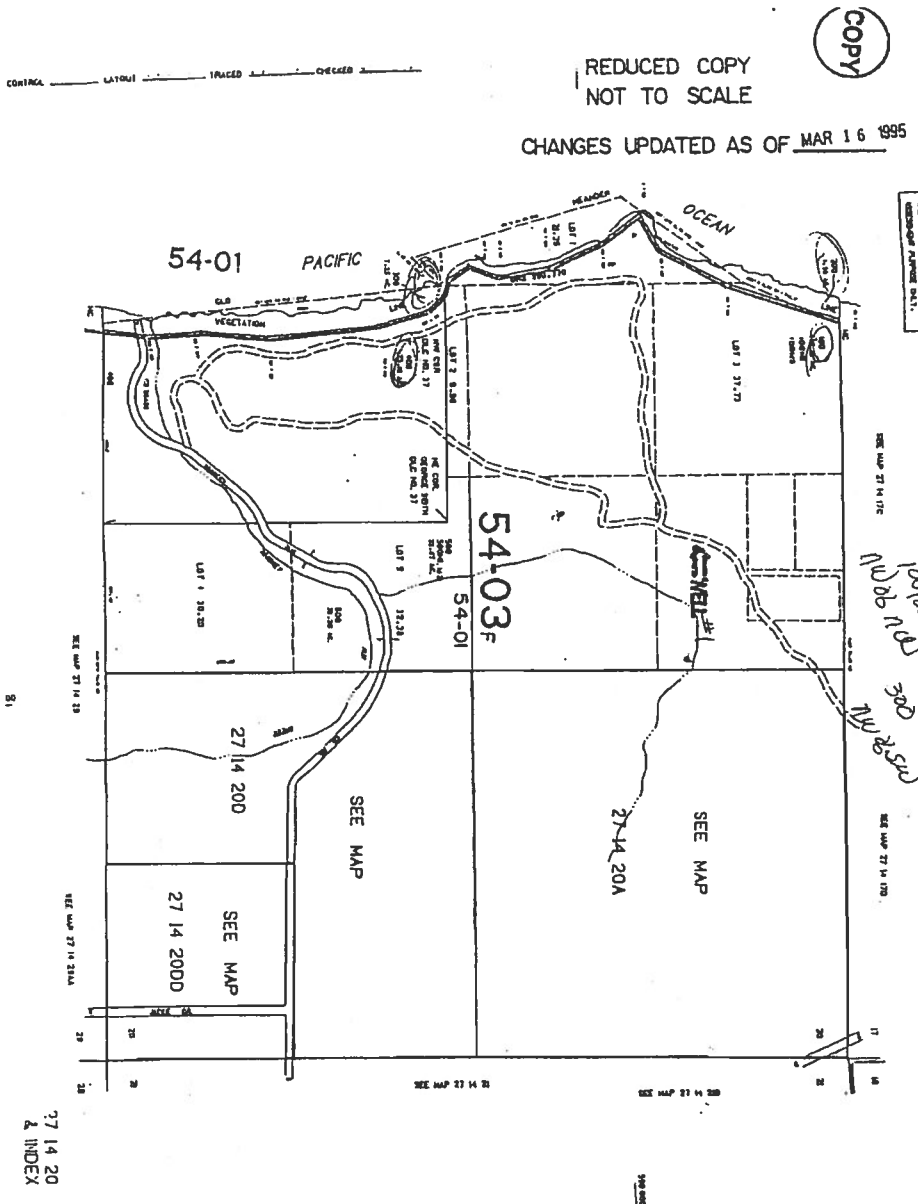
Date Started 09-13-2006 Completed 09-15-2006

(unbonded) Monitor Well Constructor Certification
I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon monitoring well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.
License Number _____ Date _____
Password: (if filing electronically) _____
Signed _____

(bonded) Monitor Well Constructor Certification
I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon monitoring well construction standards. This report is true to the best of my knowledge and belief.
License Number 1493 Date 9/18/06
Password: (if filing electronically) _____
Signed Jim Meeks Sr.
Contact Info (optional) BANDON WELL & P[UMP COMPANY (541) 347-7867

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SEP 21 2006

Map of well



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CHANGES UPDATED AS OF MAR 16 1995

SECTION 20 14 20
COOS COUNTY
W.M.

100' x 200' Parcel

27 14 20
& INDEX

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WATER RESOURCES DEPT
SALEM, OREGON

STATE OF OREGON
MONITORING WELL REPORT

(as required by ORS 537.765 & OAR 690-240-0395)

WELL LABEL # L 80265

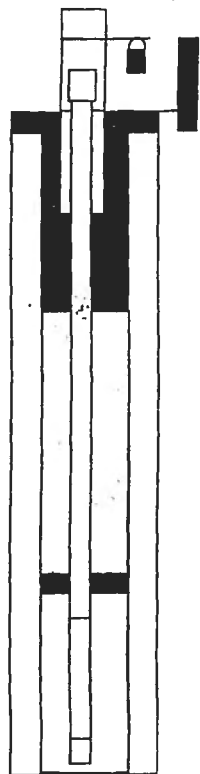
START CARD # 182719

(1) LAND OWNER Owner Well I.D. 1154
 First Name Dennis Last Name Olson
 Company BALLY BANDON SHEEP RANCH
 Address PO Box 1756
 City Bandon State OR Zip 97411

(2) TYPE OF WORK New Deepening Conversion
 Alteration (repair/recondition) Abandonment

(3) DRILL METHOD
 Rotary Air Rotary Mud Cable Hollow Stem Auger Cable Mud
 Reverse Rotary Other

(4) CONSTRUCTION Piezometer Well
 Depth of Completed Well 72.6 ft. Special Standard



MONUMENT/VAULT Above Ground
 From 1.3 To 4

BORE HOLE
 Diameter 6 From 0 To 73

CASING
 Dia. 2 From 1 To 54.4
 Gauge Sch40 Wld Thrd
 Material Steel Plastic

LINER
 Dia. _____ From _____ To _____
 Gauge _____ Wld Thrd
 Material Steel Plastic

SEAL
 From 0 To 41
 Material Bentonite
 Amount 15 S Grout weight _____

SCREEN
 Casing/Liner Casing Material PVC
 Diameter 2 From 54.4 To 64
 Slot Size .02

FILTER
 From 41 To 65 Material Sand Size of pack 10/20

(5) WELL TESTS

Pump Bailor Air Flowing Artesian

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)
		72	1

Temperature 53 °F Lab analysis Yes By _____

Supervising Geologist/Engineer _____

Water quality concerns? Yes (describe below)

From	To	Description	Amount	Units

(6) LOCATION OF WELL (legal description)
 County COOS Twp 27 S N/S Range 14 W E/W WM
 Sec 20 NW 1/4 of the SW 1/4 Tax Lot 400
 Tax Map Number _____ Lot _____
 Lat _____ ° 0' _____ " or _____ DMS or DD
 Long _____ ° 0' _____ " or _____ DMS or DD
 Street address of well Nearest address

off Whiskey Run Road no#vacant

(7) STATIC WATER LEVEL

Existing Well / Predeepening	Date	SWL (psi)	+ SWL (ft)
Completed Well	09-21-2006		51.4

Flowing Artesian? Dry Hole?
 WATER BEARING ZONES Depth water was first found 51.4

SWL Date	From	To	Est Flow	SWL (psi)	+ SWL (ft)
09-21-2006	51.4	68	20		51.4

(8) WELL LOG Ground Elevation 200

Material	From	To
Sandy clay brown	0	1
Cemented sand brown	1	7
Sandy clay tan	7	7.5
Cemented sand brown	7.5	9
Sand tan fine	9	11
Sandy clay white	11	12
Sandy clay tan/orange	12	13
Sand fine tan	13	21
Sandy clay white	21	22
Sand fine-coarse brown	22	29
Sandy clay tan/orange	29	30
Sand fine-coarse w/gravel fine brown	30	35
Sandy clay orange	35	36
Sand fine-coarse w/gravel fine brown	36	43
Sandy clay tan	43	44
Sand fine-coarse w/gravel fine brown	44	46
Cemented sand red	46	48
Sand fine-coarse w/gravel fine brown	48	53
Continued on page 2	48	53

Date Started 09-20-2006 Completed 09-21-2006

(unbonded) Monitor Well Constructor Certification
 I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon monitoring well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

License Number _____ Date _____
 Password : (if filing electronically) _____
 Signed _____

(bonded) Monitor Well Constructor Certification
 I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon monitoring well construction standards. This report is true to the best of my knowledge and belief.

License Number 1493 Date 9/22/06
 Password : (if filing electronically) _____
 Signed Jim Meeth for M6we
 Contact Info (optional) BANDON WELL & PUMP COMPANY (541) 347-7867

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ORIGINAL - WATER RESOURCES DEPARTMENT
 THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

SEP 27 2006

Form Version: 0.31

MONITORING WELL REPORT -
continuation page

WELL I.D. # L 80265
START CARD # 182719

(4) CONSTRUCTION

BORE HOLE

Dia	From	To

FILTER PACK

From	To	Material	Size

SEAL

Material	From	To	Amt	sacks/ grout weight	
				lbs	weight
Cement	66	73	1	S	

(7) STATIC WATER LEVEL

Water Bearing Zones

SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(ft)

CASING/LINER

Casing	Liner	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	<input type="checkbox"/>	65	72.6	Sch40	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

(8) WELL LOG

Material	From	To
Gravel fine-medium w/sand fine-coarse multi-colored	53	64
Clay brown	64	64.5
Sandy clay gray	64.5	66
Wood w/gravel & sandy clay gray (Loss circulation)	66	68
Sandstone gray	68	71
Claystone gray	71	73

SCREENS

Perf/ Screen	Casing/ Liner	Screen Dia	From	To	Scrn size/ slot width	Slot length	# of slots	Tele/ pipe size

(5) WELL TESTS

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)

Water Quality Concerns

From	To	Description	Amount	Units

Comments/Remarks

Well drilled by:
BANDON WELL & PUMP COMPANY
(541) 347-7867

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SEP 27 2006
WATER RESOURCES DEPT
SALEM, OREGON

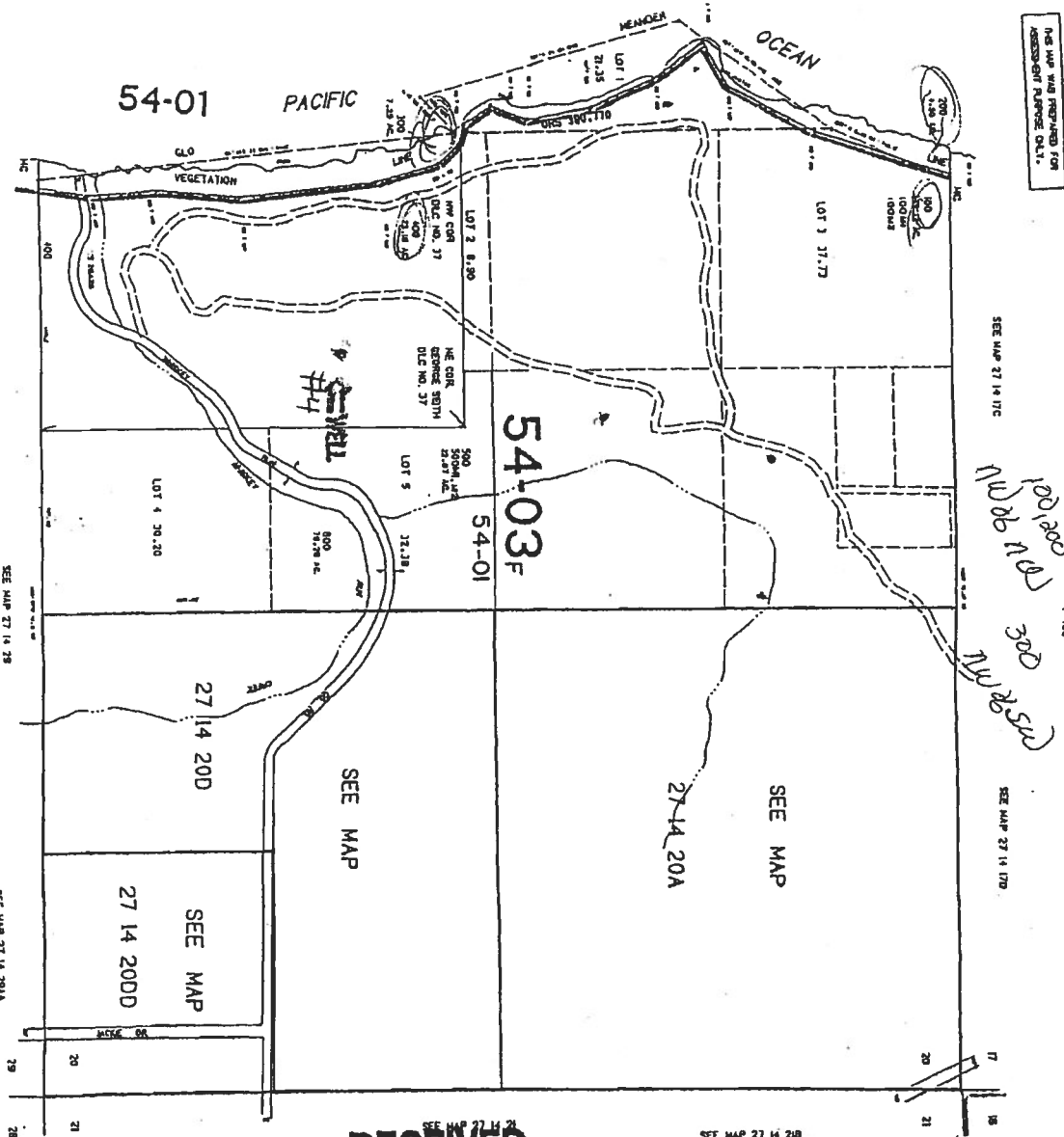
Map of well

CONTROL LAYOUT TRACED CHECKED

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27-14-20
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CHANGES UPDATED AS OF MAR 16 1995



THIS MAP WAS PREPARED FOR ASSESSMENT PURPOSES ONLY.

SECTION 20 1/2 S. R14W. W.M.
COOS COUNTY

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SALEM OREGON

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& INDEX

27 14 20
& INDEX

STATE OF OREGON
MONITORING WELL REPORT

(as required by ORS 537.765 & OAR 690-240-0395)

WELL LABEL # L 81702

START CARD # 1000457

(1) LAND OWNER Owner Well I.D. 1179-6

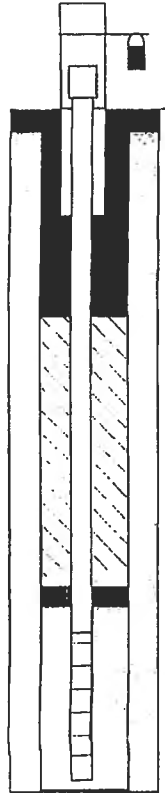
First Name Dennis Last Name Olson
Company BALLY BANDON SHEEP RANCH
Address PO Box 1756
City Bandon State OR Zip 97411

(2) TYPE OF WORK New Deepening Conversion
 Alteration (repair/recondition) Abandonment

(3) DRILL METHOD
 Rotary Air Rotary Mud Cable Hollow Stem Auger Cable Mud
 Reverse Rotary Other

(4) CONSTRUCTION Piezometer Well

Depth of Completed Well 70.58 ft. Special Standard



MONUMENT/VAULT Above Ground
From 1.5 To 4

BORE HOLE
Diameter 10 From 0 To 4

CASING
Dia 2 From 1 To 52.58
Gauge Sch40 Wld Thrd
Material Steel Plastic

LINER
Dia _____ From _____ To _____
Gauge _____ Wld Thrd
Material Steel Plastic

SEAL
From 0 To 50
Material Bentonite Chips
Amount 10 S Grout weight _____

SCREEN
Casing/Liner Casing Material PVC
Diameter 2 From 52.58 To 62.58
Slot Size .011

FILTER
From 50 To 71 Material Sand Size of pack 10/20

(5) WELL TESTS

Pump Bailer Air Flowing Artesian
Yield gal/min Drawdown Drill stem/Pump depth Duration (hr)
10 _____ 65 1

Temperature 54 °F Lab analysis Yes By _____

Supervising Geologist/Engineer _____

Water quality concerns? Yes (describe below)
From To Description Amount Units
RECEIVED
IAN 19 2007

(6) LOCATION OF WELL (legal description)

County COOS Twp 27 S N/S Range 14 W E/W WM
Sec 20 SE 1/4 of the NW 1/4 Tax Lot 100
Tax Map Number _____ Lot _____
Lat _____ " or _____ DMS or DD
Long _____ " or _____ DMS or DD
 Street address of well Nearest address

no# vacant off Whiskey Run Road, Bandon

(7) STATIC WATER LEVEL

Existing Well / Predeepening	Date	SWL(psi)	+ SWL(ft)
Completed Well	01-09-2007		36

Flowing Artesian? Dry Hole?
WATER BEARING ZONES Depth water was first found 36

SWL Date	From	To	Est Flow	SWL (psi)	+ SWL (ft)
01-09-2007	36	62	10		36

(8) WELL LOG

Ground Elevation 200

Material	From	To
Sandy topsoil	0	2
Cemented sand orange brown	2	3
Peat w/wood	3	4
Cemented sand orange brown	4	5
Sand fine-medium brown	5	16
Sandy clay white & orange	16	18
Sand fine-medium orange brown	18	20
Sandy clay orange	20	21
Sand fine-coarse brown	21	30
Sandy clay tan	30	31
Sand fine-coarse gray brown	31	38
Sandy clay tan	38	40
Sand fine-coarse gray brown w/sandy clay tan	40	48
Gravel fine w/sand coarse-fine orange brown	48	53
Gravel fine-medium w/sand coarse-fine gray brown	53	58
Gravel fine-medium w sand c-f & sandy clay orange	58	60
Gravel fine-medium w/sand coarse-fine gray brown	60	62
Claystone blue gray	62	64
Claystone lt brown	64	71

Date Started 01-09-2007 Completed 01-09-2007

(unbonded) Monitor Well Constructor Certification

I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon monitoring well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

License Number _____ Date _____
Password : (if filing electronically) _____
Signed _____

(bonded) Monitor Well Constructor Certification

I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon monitoring well construction standards. This report is true to the best of my knowledge and belief.

License Number 1493 Date 11/10/07
Password : (if filing electronically) _____
Signed *[Signature]*
Contact Info (optional) BANDON WELL & PUMP COMPANY (541) 347-7867

COPY

REDUCED COPY
NOT TO SCALE

CHANGES UPDATED AS OF MAR 16 1995

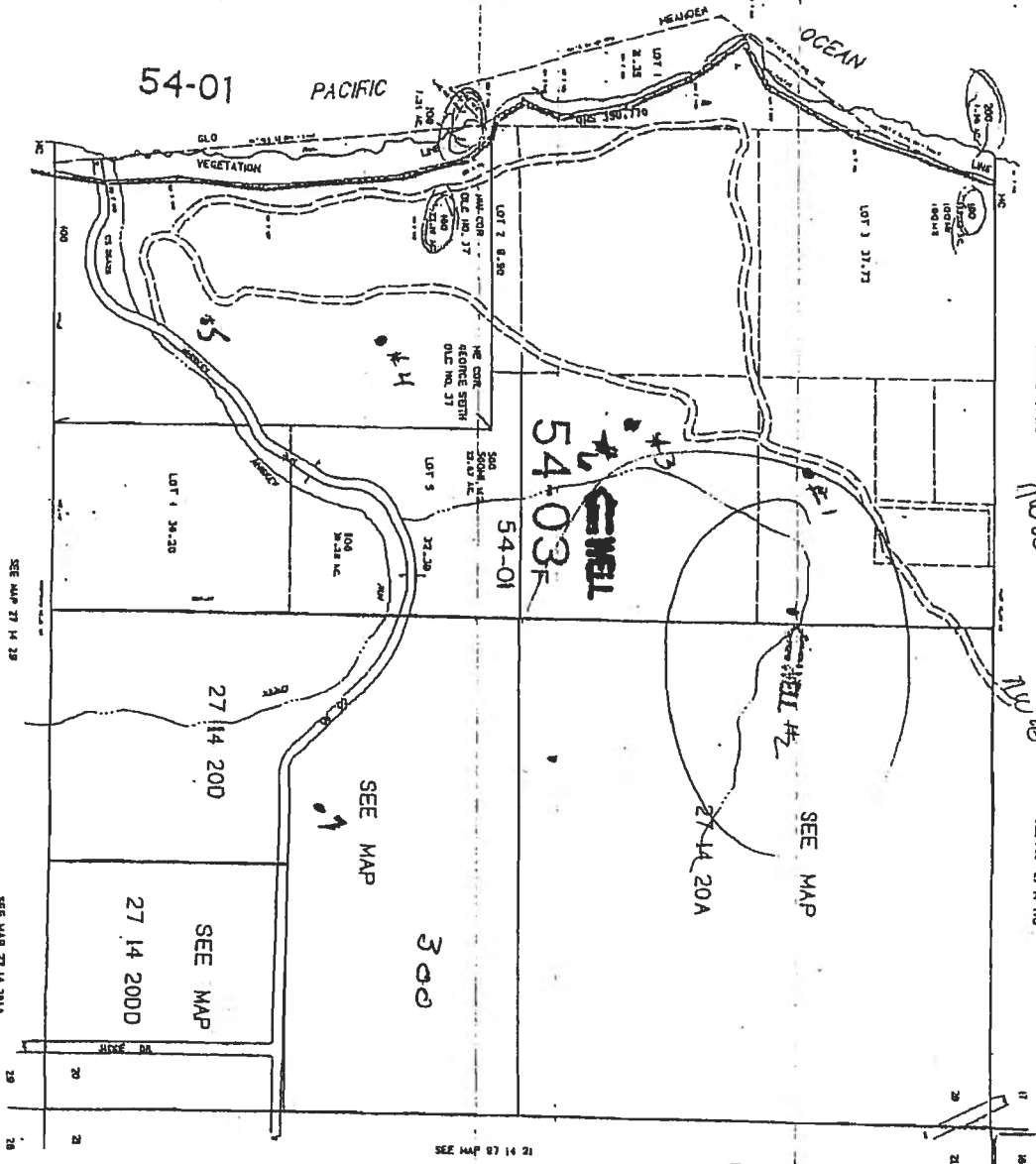
COOS 53828

WATER RESOURCES DEPT
SALEM, OREGON

APR 04 2007

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THIS MAP WAS PREPARED FOR
LAWSON'S REPORT ONLY.



SEE MAP 27 14 170

SEE MAP 27 14 170

SECTION 20 1, 2, 3, K14W, W.M.
COOS COUNTY

Handwritten notes:
100' 300'
100' 300'
100' 300'

27 14 20
& INDEX

27 14 20
& INDEX

Golder Associates Inc.

18300 NE Union Hill Road, Suite 200
Redmond, WA USA 98052-3333
Telephone (425) 883-0777
Fax (425) 882-5498



TRANSMITTAL LETTER

DATE: November 15, 2002

PROJECT NO.: 023-1206.002

TO: Oregon Water Resources Department
158 – 12th Street N.E.
Salem, Oregon 97310

Attention: Mr. Douglas Woodcock

SENT VIA: Federal Express

QUANTITY	ITEM	DESCRIPTION
2	Bound Document	REPORT ON PUMPING TEST BALLY BANDON SHEEP RANCH IRRIGATION WELL DATED: NOVEMBER 15, 2002
REMARKS:		

Per Banton/Klisch/White/km

Golder Associates Inc.

18300 NE Union Hill Road, Suite 200
Redmond, WA USA 98052-3333
Telephone (425) 883-0777
Fax (425) 882-5498



REPORT ON
PUMPING TEST
BALLY BANDON SHEEP RANCH IRRIGATION WELL

Submitted to:

Mr. Philip Friedmann
Recycled Paper Greetings, Chicago, Illinois

Submitted by:

Golder Associates Inc.
18300 NE Union Hill Road, Suite 200
Redmond, Washington 98052
USA

David Banton
Principal Hydrogeologist

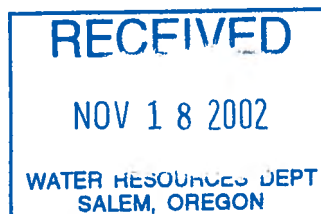
Michael Klisch, R.G
Hydrogeologist

Tim White
Hydrogeologist

Distribution:

- 2 Copies - Philip Friedmann
- 2 Copies - Golder Associates Inc.

November 2002



Job No. 023-1206.002

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Table 4	Bucket Flow Measurements on Tributary Stream
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----------	----------

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Appendix B	Geological/Hydrogeological Information
Appendix C	Well Logs
Appendix D	Streamflow Data
Appendix E	Pumping Test Analysis and Stream Depletion Calculation

1.0 INTRODUCTION

This report presents the results of a groundwater evaluation conducted in October 2002 at the Bally Bandon Sheep Ranch golf course (BBSR). The site is located approximately six miles north of Bandon, Oregon (Figure 1). The course owner (Mr. Philip Friedmann) has submitted a request for a water right for two wells to irrigate portions of the golf course. Mr. Friedmann submitted a water right application (G-15967) to the Oregon Water Resources Department (OWRD) on February 4, 2002. One of the wells has been drilled and completed. The completed well is located in an unconfined aquifer within ¼ mile of Whisky Run Creek.

In response to the water right application, OWRD issued a memorandum dated September 6, 2002 listing the Initial Review Determinations that currently prevent the further processing of the water right application (Appendix A). These conditions include a determination that water is not available due to senior instream water rights and that there may be injury to prior rights and/or water may not be available within the capacity of the resource. OWRD has established minimum instream flows for Whisky Run Creek (Table 1) and water availability tables to determine the amount of water in the stream available for use. The water availability tables currently indicate that no water is available above the established minimum instream flows. As OWRD considers groundwater within ¼-mile of a surface water body to be in direct hydraulic connection, limitations or closures for surface water are also applicable to groundwater.

In order to satisfy the concerns of OWRD, Golder Associates Inc. (Golder) was retained to evaluate the following elements required to characterize the nature of groundwater and surface water resources in the area:

1. Characterization of geologic and hydrogeologic properties and conditions at and surrounding the well site;
2. Characterization of aquifer hydraulic properties (transmissivity, storativity, and vertical and horizontal gradients) and aquifer boundaries by performing a pumping test of the irrigation well;
3. Determining the groundwater flow directions and areas of groundwater recharge and discharge in the vicinity of the well; and
4. Evaluation of the effect of long term pumping of the well on surface water (Whisky Run Creek and its tributary stream) and other users in the area.

The work presented in this report was performed by Golder to support water right application G-15967 (Appendix A), submitted February 4, 2002. The water right application is for 0.44 cubic feet

per second (cfs) or approximately 100 gallons per minute (gpm) from two wells. The annual discharge (Q_a) stated on the application is 37 acre-feet/year (AF/yr), to be used on an area of approximately 360 acres from March 1 to October 31. Thirty-seven acre-feet is equivalent to an average pumping rate of 39 gpm over the proposed period of use. Information obtained from OWRD (<http://www.wrd.state.or.us/>) indicates three existing surface water rights in the Whisky Run Creek watershed (Appendix A). There are also a number of domestic wells located within about ½-mile of the well.

1.1 Scope of Work

Golder presented Mr. Friedmann with a proposal dated August 25, 2002 that included detailed documentation of the scope of work. The project was then separated into four sequential tasks that include a review of data available about the site, a site visit and testing of an irrigation well at the site. A memorandum dated September 18, 2002 was presented to Mr. Friedman after the site visit, outlining findings from the visit and recommendations of how to proceed toward approval from OWRD. This report presents the work completed in Task 2, Pump Test, which is described on page 6 of the proposal.

Task 2 consisted of collecting and analysis of additional data to support the water right application, including conducting a pumping test in the existing irrigation well (BBSR-P) at a constant rate for three days. In order to determine the effects of pumping, a piezometer (BBSR-T2) was installed approximately 80 feet to the east of the irrigation well. Water levels were also measured in several existing wells located between 2,700 and 4,500 feet away from the irrigation well. Several gaging stations were constructed to measure streamflow in Whisky Run Creek and one tributary during the test in order to determine the effects of pumping on streamflow (Figure 1).

2.0 SETTING

The region north of Bandon is comprised of low, gently rolling hills. In the east, small hills rise to heights of between 500 and 600 feet above mean sea level (amsl). The vegetation is mainly coniferous forest in the east, giving way to low shrubs, including gorse, along the coastline. Sand dunes and sandy beaches occur along the coastline. Major land uses in the area are logging, agriculture, and recreation, such as golf. Several small, westward flowing streams, fed by runoff and groundwater discharge drain the area. The Bally Bandon Sheep Ranch is located within the Whisky Run Creek watershed. The watershed covers approximately 970 acres and has one perennial unnamed tributary. Whisky Run Creek discharges to the Pacific Ocean at Whisky Run Beach. The region receives approximately 58 inches of rain per year. About 27% of the annual precipitation falls during the irrigation season (April to October). This equates to about 16 inches. The months of June, July and August are the driest, receiving a total of about 2.7 inches in an average year (Appendix B). The average monthly temperature in January is 45°F, and in August is 58°F (Western Regional Climate Center Website 2002).

The first seven months (January to July, inclusive) of 2002 were drier than normal for the area around Bandon. The long-term (1948-2001) record indicates that an average of 34.5 inches of precipitation falls from January 1 through July 31. In 2002, only 29.7 inches of precipitation fell during the same period (Western Regional Climate Center Website 2002).

2.1 Regional Geologic Setting

The area north of Bandon is characterized by gently seaward sloping marine terraces. The marine terraces were formed as the Pacific Ocean eroded benches in the bedrock during periods of higher sea level. Fine to coarse-grained sand, silt and gravel from the erosion of the bedrock were deposited on the wave cut platforms, or terraces. The two terraces in the vicinity of the golf course are the Whisky Run and Pioneer Terraces (McInelly and Kelsey 1990). The bedrock materials underlie the unconsolidated formations and outcrop in the foothills east of the project area. Appendix B contains a map of the region from Beaulieu and Hughes (1975).

There are two bedrock formations mapped in the region. These include the Tertiary Coaledo Formation, which is underlain by the Tertiary Roseburg formation. Both formations contain interbedded sandstones and siltstones. The age of these rocks range from 38 to 54 million years

(Beaulieu and Hughes 1975). Most groundwater development in the region occurs in the saturated portion of the unconsolidated alluvial and marine sediments. The underlying low-permeability bedrock formations have little potential for groundwater development.

2.2 Site Geology and Hydrogeology

The geology of the project area includes unconsolidated materials deposited on top of bedrock. The unconsolidated materials are separated into three units that can be mapped in the region. These units include: 1) recent beach and dune sands, limited to the coastal areas; 2) alluvial deposits that accumulated immediately adjacent to and in the streams and rivers; and 3) marine terrace deposits that form the majority of the unconsolidated materials in the project area between the coast and the foothills. The unconsolidated formations range in age from about 2 million years to recent (Beaulieu and Hughes 1975).

Geological cross-sections show the geology in a vertical plane through the land surface at desired locations. One cross-section was prepared along a north-south line through the BBSR and one cross-section was prepared along an east-west line. The locations and designations for the two cross-sections are shown on Figure 1; the cross-sections are included in Appendix B. The well logs used to construct the cross-sections are included in Appendix C. The marine terrace deposits range in thickness from 0 to 75 feet. The terrace deposits are bounded on the east by the exposed bedrock formations and are truncated on the west by sea cliffs overlooking the Pacific Ocean (Appendix B).

Groundwater occurs in the marine terrace and dune sands at the site. Groundwater in the terrace deposits occurs under unconfined conditions. The depth to water in wells in the vicinity of the golf course ranges from about 20 to 55 feet below ground surface (bgs), based on water levels collected in October 2002 and information presented on well logs. The water table is also shown on the geologic cross-sections and water table map (Appendix B). Groundwater in the area is recharged by infiltration of precipitation in the upland areas of the marine terraces and dunes. Groundwater discharges to the area drainages such as Whisky Run Creek and its tributary and to springs/diffusive seepage along the base of the bluffs below the golf course. Discharge from two springs below the cliffs was visually estimated to be between 10 and 20 gpm in October 2002. Discharge from diffuse seepage is unknown.

The Bally Bandon Sheep Ranch irrigation well is located about 1,300 feet north of Whisky Run Creek and about 500 feet east of the shoreline. Based on water level measurements, the well appears to be located near the groundwater divide between Whisky Run Creek and shoreward discharge. There is a steeper hydraulic gradient toward the shore line than toward Whisky Run Creek.

Groundwater in the vicinity of the golf course is used for domestic purposes and irrigation. Most of the domestic wells are completed in fine marine terrace deposits and typically yield about 5 to 10 gpm.

The golf course area is drained by Whisky Run Creek and a small unnamed tributary. The streams are fed by runoff and groundwater discharge, and flow westward where they discharge to the Pacific Ocean. Flow in the summer and early fall is predominately groundwater discharge.

Flows in the mainstem of Whisky Run Creek, just above its mouth, were measured at between 1.6 and 2.0 cubic feet per second (cfs) in October 2002. These measured flows are about 15 to 20 times greater than the natural stream flow determined by OWRD for Whisky Run Creek in October (Table 1). The flows in the tributary to Whisky Run Creek, approximately 100 feet above its confluence with the main stem, were measured to be approximately 0.25 cfs in October 2002. These measured flows reflect baseflow conditions (i.e. the stream flow consists of groundwater discharge only).

2.3 Water Balance Analysis

A preliminary water balance was used to estimate the amount of water available for groundwater recharge in the Whisky Run Creek watershed (Figure 1). An average of approximately 58 inches of precipitation falls in the Bandon area annually. Of that amount, about 17 inches was estimated to be lost to evapotranspiration (Golder 1996). Therefore, about 41 inches is available for surface water runoff and groundwater recharge. Since no long-term stream gaging information is available for Whisky Run Creek, the relationship between runoff and groundwater infiltration is not known. However, in a nearby watershed located about 9 miles south of Whisky Run (Crooked Creek hydrologic unit), Schmidt (2001) estimated that 42% of precipitation became groundwater recharge and 16% became surface water runoff. If this relationship is applied to the Whisky Run Creek watershed, approximately 24 inches of water is available for groundwater recharge and 9.5 inches runs off to surface water. Therefore, over the Whisky Run Creek watershed of 970 acres, groundwater recharge is equivalent to about 1,200 gpm (2.7 cfs) on an annual average basis.

3.0 PUMPING TEST

A 72-hour constant rate pumping test was performed using the existing irrigation well to determine:

1. The hydraulic properties of the aquifer in the vicinity of the well;
2. The interference effects on other wells; and
3. The impacts to surface water from pumping the irrigation well.

3.1 Test Procedure

The constant rate pumping test commenced on October 10, 2002 and was run for 72 hours (3 days). In order to measure the discharge rate during the test, a 3-inch totalizing flowmeter was installed on the discharge line. A 1-inch PVC sounding tube was installed to a depth of 80 feet in the well, allowing for measurement of water level changes with a pressure transducer. Discharge water was directed through lay-flat hose and contained in a lined reservoir for the duration of the test. Power for the pump was supplied from a temporary electric generator.

The pumping rate was approximately 119 gpm. The pump was operated at the maximum discharge rate. The water level recovery was monitored for a 9-day period following the end of pumping. The test used the existing pump, with the pump intake set at 73.25 feet bgs (below ground surface). The static water level before pumping was 54.42 feet bgs. Maximum available drawdown in the well (when the pump breaks suction with the water level in the well) is 18.8 feet. The well is screened between 66 and 81 feet bgs. A well log is included in Appendix C.

The pumping test was not affected by precipitation either prior to or during the test. There was 0.3 inches of rain on October 3, 2002 and 0.04 inches on October 4, 2002 (as measured at the Bandon Ocean Spray facility). There was then no measurable rain for six days prior to the start of the pumping test. There was no measurable rain during the three day pumping period and during the nine day recovery period.

3.2 Monitoring Program

Water levels were measured in existing domestic wells and a test well (BBSR-T1) drilled for the golf course. In addition, water levels were measured in a piezometer (BBSR-T2) installed about 80 feet

east of the irrigation well (Figure 1). The BBSR-T2 borehole was drilled to a depth of 75 feet and a 2-inch diameter PVC piezometer was installed. The piezometer is screened between 60 and 75 feet bgs in a sandy gravel, similar to the material encountered during drilling of the pumping well. The geologic log and well completion details for BBSR-T2 appear in Appendix C.

Water levels were also measured throughout the test in the domestic well on the Friedmann property on Tokyo Lane, and in a domestic well owned by Mr. Charles Moreland, located north of the course. Figure 1 shows all water level monitoring locations. Water level measurements could not be collected in one nearby domestic well, the Gassner well, because the wellhead completion precluded access for the water level sounder. Table 2 provides completion information for all water level monitoring locations.

In order to determine the potential impact of pumping on Whisky Run Creek and its tributary, three approaches were employed:

1. Stream flow gaging was performed at three locations on Whisky Run Creek using an impeller meter;
2. Stream discharge was estimated using a 5-gallon bucket and stopwatch on the tributary to Whisky Run Creek; and
3. Mini "push-type" piezometers were installed adjacent to Whisky Run Creek and the tributary at four locations to measure changes in groundwater levels.

The locations of the streamflow monitoring points are shown on Figure 1. Stream gaging locations were chosen where the stream was confined to a single channel. Three locations were chosen:

- Station A. On Whisky Run Creek, approximately 250 feet upstream from where the creek discharges onto the beach;
- Station B. On Whisky Run Creek, approximately 500 feet upstream from the confluence with the tributary; and
- Station C. On the tributary Creek, approximately 25 feet downstream from the discharge of the culvert under the reservoir road on the BBSR property.

At each station, the stream cross-section was divided into between 10 and 16 sections, where depth of the water was measured. Using the depth and the width of each section, a resulting area was calculated. The velocity of the stream was measured using a Swoffer Model 3000 streamflow meter. The measured stream velocity was multiplied by the section area to calculate a discharge. The discharges for the individual sections were then summed in order to calculate the total discharge of the stream at each station. Two trials were performed for each streamflow measurement. Temporary

staff gages were also installed at the stream flow measurement locations in order to monitor water level changes in the streams. Table 3 summarizes streamflow measurements results. Streamflow hydrographs are included in Appendix D.

Flow measurements were conducted on the tributary to Whisky Run Creek using a plastic 5-gallon bucket and stopwatch at a location approximately 100 feet upstream of the confluence with Whisky Run Creek (Figure 1). The bucket was placed under the outlet of the culvert running under Whisky Run Road and was filled to the 3-gallon line. Three gallons was chosen because this was the largest volume that could accurately be measured before the bucket began overflowing due to its alignment under the culvert. Ten trials were chosen for each measurement from approximately twenty performed in order to best represent the correct 3-gallon volume. Bucket flow measurements are summarized in Table 4. A graph of bucket flows is included in Appendix D.

Four mini-piezometers were constructed from 5-foot lengths of $\frac{3}{4}$ -inch diameter, schedule 80 PVC pipe. The PVC was slotted across the lower 6 inches using a hacksaw. Slots were spaced approximately $\frac{3}{4}$ inch apart. End caps were cemented onto the bottoms of the piezometers. The piezometers were installed into a 1-inch diameter hole bored using a hand auger. The piezometers were installed to between 2 and 3.5 feet depth at four locations (Figure 1) within 6 feet of the stream channel. The soil around the mini-piezometers was compacted after installation to ensure an adequate seal around the screen. Slug tests were performed on the mini-piezometers to estimate the permeability of the surrounding soil material. Results of mini-piezometer measurements are summarized on Table 3. Water level hydrographs in the mini-piezometers are included in Appendix D.

3.3 Results of Pumping Test

The irrigation well was pumped continuously for 72-hours. The maximum drawdown in the pumping well during the 72-hour test was 17.5 feet (Figure E-1). The specific capacity (discharge divided by drawdown) at the end of the test was seven gpm/ft. Water levels in BBSR-T2, located about 80 feet from the pumping well declined approximately three feet during the test. The pumping test data are summarized in Appendix E. After approximately nine days of recovery, there was 0.5 feet of unrecovered head in the pumping well and 0.4 feet of unrecovered head in the BSR-T2 piezometer (Figures E-1 and E-4).

The aquifer transmissivity and storativity were calculated using the Cooper-Jacob analysis (Kruseman and deRidder 1994). The aquifer transmissivity is estimated at about 4,300 ft²/day based on early-time (less than 500 minutes pumping) data collected in BBSR-T2 and the pumping well. After about 500 minutes of pumping, the semi-log drawdown plot for the piezometer (Figure E-5) shows a doubling of the slope. This is consistent with an interpretation that the aquifer may be bounded in one direction probably by bedrock.

The storativity was estimated to be 0.06 based on data from BSR-T2. This storativity value is typical of unconfined aquifers. The aquifer parameters are summarized on Table 5.

The water level in the irrigation well was drawn below the top of the screen after approximately 220 minutes of pumping. After this time, the slope of the semi-log drawdown curve continued to steepen as pumping continued. The increase in the rate of logarithmic drawdown is likely due to a combination of dewatering of the well screen and the effects of a lower-permeability aquifer boundary.

The theoretical radius of influence calculated for three days of pumping at 119 gpm using the aquifer parameters from Table 5 is approximately 700 feet. There was no drawdown observed in any of the observation wells located between 2,700 and 4,500 feet away from the pumping well (Figures E-6 through E-7). Additionally, there did not appear to be any impact from pumping on the streamflow in Whisky Run Creek or its tributary at gaging stations located between 1,200 and 1,800 feet away from the pumping well (Figures D-1 through D-5).

Using the slope of the drawdown in BSR-P shortly before pump was shut off and the pump depth setting in the well of 73.25 feet bgs, the drawdown was extrapolated into future time for a pumping rate of 119 gpm (Figure E-3). The maximum drawdown of approximately 18.8 feet (distance from pre-pumping water level to the pump intake) will be reached after about four days of pumping at 119 gpm. This estimate was made assuming that no recharge or other impermeable boundaries are encountered during this time period and that the pumping rate remains constant.

4.0 CONCLUSIONS

The Bally Bandon Sheep Ranch irrigation well is located near the groundwater divide separating groundwater flow toward the ocean and to Whisky Run Creek. Pumping the well intercepts groundwater that discharges towards the ocean and towards the mouth of Whisky Run Creek. The results of the pumping test analysis indicate that the irrigation well is completed within a relatively permeable unconfined aquifer that is bounded by a low-permeability zone. A low-permeability aquifer boundary was encountered after about 550 minutes of pumping. This boundary could be located approximately 250 feet away from the pumping well and may represent the bedrock edge of a buried alluvial channel.

The pumping test indicates that the well can be pumped at 119 gpm for approximately 4 days (Figure E-3). At this time, the water level will be drawn down to the pump intake and the pump will break suction. The long-term capacity of the well is likely about 40 to 50 gpm on a continuous basis. Additional capacity could be achieved with a second well provided that there is not substantial interference with the existing irrigation well.

The observed flows in Whisky Run Creek in October 2002 were 15 to 20 times higher than the instream flows established by OWRD for that time of year (Table 1). The observed flows represent baseflow conditions, given the antecedent conditions. The summer of 2002 was particularly dry with less than half the normal amount of precipitation falling from May through July (Western Regional Climate Center Website 2002). Therefore, it is possible that the flow in Whisky Run Creek could be higher during years of normal precipitation. It is therefore clear that the OWRD estimates of streamflow for Whisky Run Creek are in error and significant water is available in the watershed for new water rights particularly during the summer months.

An analytical stream depletion model (Hunt 1999) was used to make an estimate of the effect of pumping the irrigation well on flows in Whisky Run Creek. The analytical model assumes that the water table is flat and estimates the amount of surface water captured/intercepted by a pumping well located in an unconfined aquifer in proximity to a stream. The model is a simplification of the hydrogeological conditions since several of the underlying assumptions used in the model are not met. In particular, the fact that the irrigation well is located such that it intercepts groundwater that may naturally discharge to the ocean means that the analytical model likely overpredicts impacts. In

light of the limitations of the model, the results are presented to give an indication of potential worst-case impacts rather than actual impacts.

Figure E-8 presents the theoretical rate of stream depletion using the hydraulic properties from the pumping test (transmissivity of 4,300 ft²/day and storativity of 0.06), and assuming that the well pumps continuously for 210 days (April 1 to October 30) at a rate of 44 gpm. In addition, it was assumed that:

- The streambed leakance value was 10 feet/day streambed representative of a silty sand to clean sand (Freeze and Cherry 1979); and
- 90% of the water pumped was consumed on site; (10% returned to the aquifer from irrigation).

The figure shows that the rate of depletion increases as pumping duration increases with the maximum impact occurring at the end of the pumping period. At this time (210 days of pumping), it is estimated that pumping 44 gpm (0.1 cfs) would result in the loss of 31 gpm (0.07 cfs) of streamflow. Assuming that streamflow in October in future years is similar to that measured in 2002 (1.6 to 2.0 cfs), then a decrease in streamflow of 0.07 cfs would not significantly affect flows and would not result in flows dropping below the instream reserved water rights established by OWRD of 0.14 cfs for that month.

Earlier in the year the effects of pumping will be less than in the late summer and fall. Natural streamflows will also be higher earlier in the year (May and June) because of higher groundwater levels and greater precipitation. It is possible that flows during May and June could be in the range of 2.0 to 2.5 cfs. Under these conditions, pumping 44 gpm (0.1 cfs) would not significantly affect streamflow and would not result in flows dropping below the instream reserved water rights established by OWRD of 1.28 for the month of May or 0.75 for the month of June.

Finally, it is noted that there are several springs at the foot of the cliffs that were observed to discharge about 10 to 20 gpm at the time of the field investigation. In addition, there is diffuse groundwater seepage to the ocean as a result of the overall sea-ward hydraulic gradient. If it is assumed that the irrigation well captures all of the spring discharge as well as some of the diffuse seepage, then the actual impacts on Whisky Run Creek will be much less than those presented above. Assuming the irrigation well captures 20 gpm spring discharge and about 10 gpm diffuse seepage,

then the impact of pumping 44 gpm for 210 days continuously on Whisky Run Creek would be about 14 gpm or 0.03 cfs. This represents about 1.5 to 2% of the low flow discharge of Whisky Run Creek. This impact is very small and is unlikely to have any significant impact on instream flows necessary for recreation, fish and wildlife.

The theoretical radius of influence of the irrigation well after 210 days of pumping is approximately 5,400 feet. This calculation uses the transmissivity value of $4,300 \text{ ft}^2/\text{d}$ from early time analysis of the pumping test and assumes a homogeneous and isotropic aquifer. The actual radius of influence cannot be determined due to aquifer boundaries. Using the Jacob distance drawdown equation (Kruseman and de Ridder 1994) the drawdown at domestic wells in the vicinity of BBSR-P can be estimated to provide an indication of potential impairment. The Jacob equation utilizes the aquifer properties determined in the pumping test and assumes that no aquifer boundaries are encountered during pumping. The estimated drawdown in the closest domestic well (Gassner's located 1,275 feet away), after 210 days of pumping the irrigation well at 44 gpm is about 0.5 feet. Estimated drawdown in domestic wells along Tokyo Road such as the Moreland and Lunt wells (located about 4,000 feet away) is less than 0.2 feet. Given the variation in hydrogeologic condition, it is our opinion that interference drawdown in the neighboring wells will be less than one foot. This amount of drawdown in the domestic wells will not impair their ability to produce water.

5.0 RECOMMENDATIONS

We recommend the following in order to facilitate the processing of the water right application.

This report should be submitted to OWRD and a meeting scheduled to discuss the results of the pumping test and stream gauging, and in particular, the apparent discrepancies in regard to the water availability tables used for Whisky Run Creek.

The golf course should purchase a water level probe and measure the depth to groundwater weekly in the irrigation well and piezometers and the Friedmann domestic well to develop a record of seasonal and long-term groundwater levels.

6.0 REFERENCES

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TABLES

TABLE 1.**OWRD Instream Flows - Whisky Run Creek**

Month	Reserved Water Rights (cfs)	Natural Stream Flow (cfs)**	Water Availability (80% Exceedance)
January	5.80	2.71	-3.09
February	6.42	3.71	-2.71
March	4.63	2.72	-1.91
April	2.87	1.69	-1.18
May	1.28	0.79	-0.49
June	0.75	0.46	-0.29
July	0.36	0.27	-0.09
August	0.18	0.15	-0.03
September	0.13	0.11	-0.02
October	0.14	0.10	-0.04
November	1.08	0.41	-0.67
December	4.62	1.82	-2.80

Location: Mouth of Whisky Run Creek, Stream Code: 171490, Certificate # 72875, Application: IS 72964
Reference: <http://www.wrd.state.or.us/>

**Calculated by OWRD from gaged flows on Tenmile Creek, located approximately 28 miles north of the mouth of Whisky Run Creek

TABLE 2.

Well Completion Summary - Water Level Observation Locations

Well Name	Distance from Pumping Well (feet)	Depth Drilled/Inserted (feet)	Casing Diameter (feet)	Casing Depth (feet)	Open or Screened Interval (feet)	Ground Surface Elevation** (ft amsl)	Water Level (ft bgs)	Water Level Elevation (ft amsl)	Date
BBSR-P - Pumping Well	0	110	0.67	83	66-81	123	56	67.0	12/20/2001
BBSR-T1 - Distant Piezometer	2700	78	0.17	35	34.5-35	119	30.5	88.5	12/21/2001
BBSR-T2 - Near Piezometer	81	75	0.17	75	60-75	124	58.3	65.7	10/8/2002
Tokyo Lane - Friedmann Property	4500	47	0.38	47	27-47	170	21	149.0	4/8/1993
Moreland Well	3200	71	0.42	70	65-70	130	56	74.0	2/3/2001
Mini-Piezometer-1	1850	2.1	0.06	2.1	1.6-2.1	30	3.66	26.3	10/9/2002
Mini-Piezometer-2	1250	2.9	0.06	2.9	2.4-2.9	90	4.45	85.6	10/9/2002
Mini-Piezometer-3	1200	3.4	0.06	3.4	2.9-3.4	80	2.88	77.1	10/10/2002
Mini-Piezometer-4	1175	3.3	0.06	3.3	2.8-3.3	80	2.98	77.0	10/10/2002

**Elevations for BSR-P, BSR-T1/T2 estimated from GIS site map.

Other elevations estimated from 7.5 Minute USGS Topographic Quadrangle

TABLE 3.**Measured Steamflows - Whisky Run Creek Tributary Stream**

Station A					Station B				Station C				
		Trial A	Trial B	Staff Gage		Trial A	Trial B	Staff Gage		Trial A	Trial B	Staff Gage	
Date	Time	Flow Rate (cfs)	Flow Rate (cfs)	(ft)	Time	Flow Rate (cfs)	Flow Rate (cfs)	(ft)	Time	Flow Rate (cfs)	Flow Rate (cfs)	(ft)	Comments
10/9/2002	9:37	1.64	1.67	0.39	11:37	0.92	0.92	0.27	9:37	0.26	0.28	0.18	Before Pumping Test
10/10/2002	13:40	1.48	1.50	0.39	14:30	0.82	0.73	0.25	15:40	0.27	0.28	0.18	During Pumping Test
10/11/2002	8:15	1.74	1.67	0.38	9:45	0.81	0.86	0.26	7:33	0.27	0.29	0.18	During Pumping Test
10/11/2002	15:08	1.71	1.62	0.35	15:55	0.84	0.91	0.26	17:30	0.35	0.29	0.18	During Pumping Test
10/12/2002	8:57	1.67	1.75	0.39	9:55	0.78	0.85	0.28	8:18	0.25	0.26	0.18	During Pumping Test
10/12/2002	15:50	1.67	1.76	0.38	16:30	0.77	0.87	0.28	17:40	0.34	0.26	0.18	During Pumping Test
10/13/2002	8:52	1.75	1.78	0.44	9:42	0.87	0.79	0.28	8:15	0.26	0.26	0.18	During Pumping Test
10/14/2002	16:38	1.96	1.77	0.30	17:11	0.85	0.91	0.27	16:15	0.20	0.20	0.18	After Pumping Test

Station A: On Whisky Run Creek approximately 250 feet upstream from where the stream discharges onto the beach

Station B: On Whisky Run Creek, approximately 500 feet upstream from the confluence with the tributary

Station C: On tributary stream, approximately 25 feet downstream from the discharge of the culvert under the reservoir road on the BSR property

Note: Two trials for each flow measurement in order to verify reproducibility of results

TABLE 4.

Bucket Flow Measurements on Tributary Stream

Date & Time	Flow Rate (cfs)
10/9/02 10:30	0.24
10/11/02 9:20	0.23
10/11/02 15:30	0.24
10/12/02 9:40	0.25
10/12/02 16:15	0.25
10/13/02 9:20	0.25
10/14/02 17:00	0.25

Location: Approximately 100 feet upstream from confluence of tributary and Whisky Run Creek.

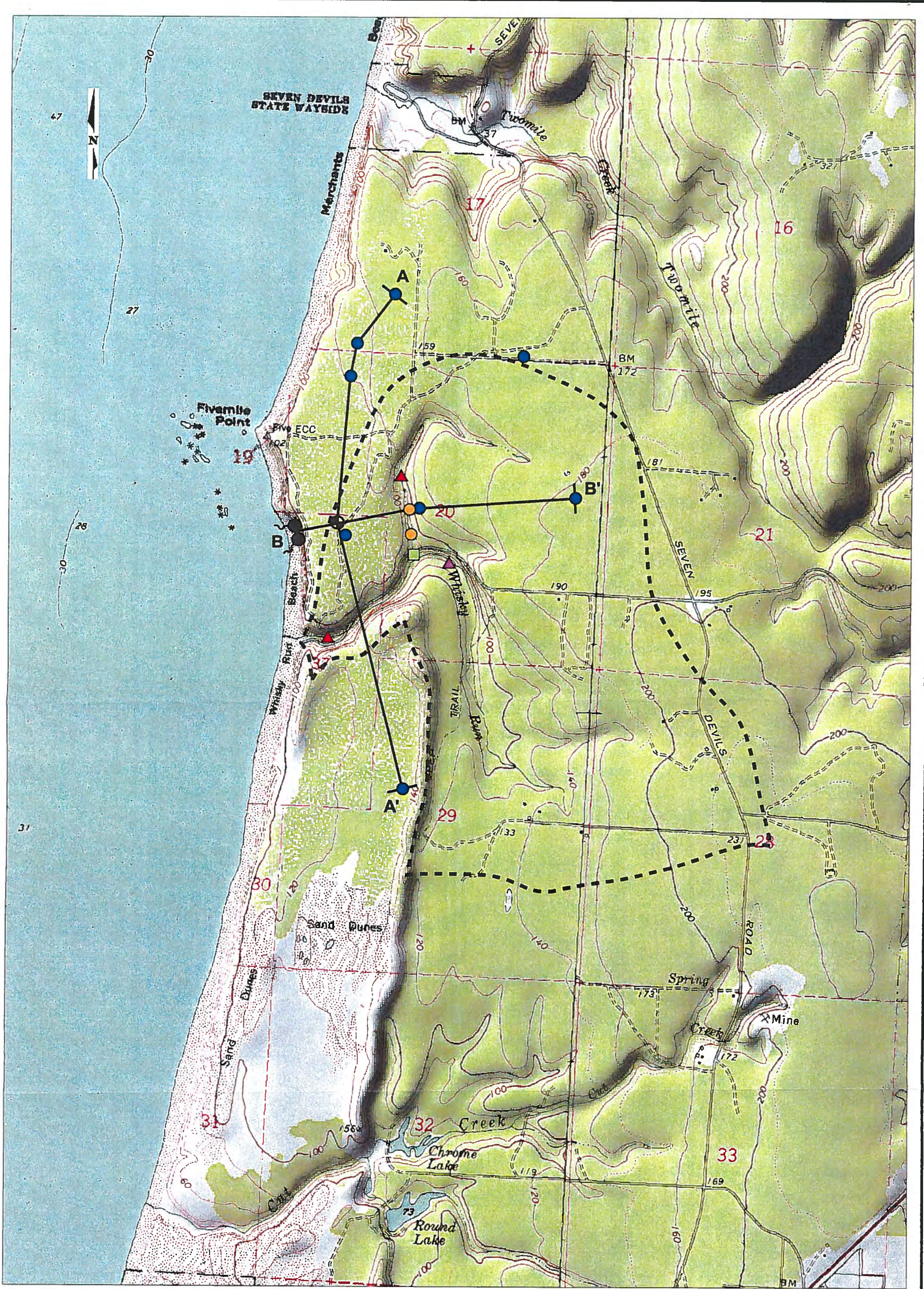
TABLE 5.

Pumping Test Aquifer Hydraulic Property Summary

Pumped Well	Observation Well	Transmissivity (ft²/day)	Storativity	Analysis Method
BBSR-P Pumping Well	BSR-P Pumping Well	4,350	N/A	Cooper-Jacob
BBSR-P Pumping Well	BSR-P Pumping Well	4,200	N/A	Theis Recovery
BBSR-P Pumping Well	BSR-T2 Piezometer	4,300	0.06	Cooper-Jacob
BBSR-P Pumping Well	BSR-T2 Piezometer	4,300	N/A	Theis Recovery

N/A – Method does not determine parameter

FIGURES



LEGEND

- Watershed Boundary
- Monitored Groundwater Seep
- Stream Gaging Location w/o Mini Piezometer
- Stream Gaging Location w/ Mini Piezometer
- Bucket Flow Measurement Location
- Mini Piezometer Locations
- Pumping Wells
- Private/Domestic Well or Piezometer
- Cross-Section Locations (See Appendix B)

0 1500
 Scale 1" = 1500 Feet
 Map Projection:
 Oregon State Plane, NAD 83,
 South Zone, Feet
 Source: Regional Ecosystem
 Organization

Site Map With Measurement Locations			
BALLY BSR/GROUNDWATER SERVICES/OR			
Drawn: ATB	Revision: 2	Date: Oct. 31, 2002	Figure: 1

APPENDIX A

OWRD WATER RIGHTS INFORMATION



Oregon

John A. Kitzhaber, M.D., Governor

Water Resources Department

Commerce Building
158 12th Street NE
Salem, OR 97301-4172
(503) 378-3739
FAX (503) 378-8130
www.wrd.state.or.us

September 6, 2002

PHIL FRIEDMANN for BALLY BANDON SHEEP RANCH
PO BOX 1756
BANDON, OREGON 97411

(541) 530-6839

Reference: File G-15697

Dear Applicant:

**THIS IS NOT A PERMIT AND IS
SUBJECT TO CHANGE AT THE NEXT PHASE OF PROCESSING.**

This letter is to inform you of the preliminary analysis of your water use permit application and to describe your options. In determining whether a water use permit application may be approved, the Department must consider the factors listed below, all of which must be favorable to the proposed use if it is to be allowed. Based on the information you have supplied, the Water Resources Department has made the following preliminary determinations:

Initial Review Determinations:

1. The proposed use is not prohibited by law or rule.
2. The use of water from TWO WELLS IN WHISKY RUN CREEK BASIN for IRRIGATION OF 359.2 ACRES is a **classified use** under OAR 690-517-001(8), the South Coast Basin Program.
3. The Department has determined, based upon OAR 690-09, that the proposed groundwater use will have the potential for substantial interference with the nearest surface water source, namely Whiskey Run. Therefore limitations to the surface water source must be applied to this application also.
4. Water in the amount of 0.44 CUBIC FEET PER SECOND, BEING 0.22 CFS FROM EACH WELL for IRRIGATION OF 359.2 ACRES is **not available** at any time of the year due to senior in-stream water rights.
5. The Department has also determined that groundwater for the proposed use will not likely be available in the amounts requested without injury to prior rights and/or within the capacity of the resource.

6. Because water is not available for a full season, IRRIGATION OF 359.2 ACRES cannot be allowed.

Summary of Allowable Water Use

Because item #4 and #5 above are unfavorable, the use of 0.44 CUBIC FEET PER SECOND, BEING 0.22 CFS FROM EACH WELL of water from TWO WELLS IN WHISKY RUN CREEK BASIN for IRRIGATION OF 359.2 ACRES is not allowable, and it appears unlikely that you will be issued a permit. At this time, you must decide whether to proceed or to withdraw your application as described below.

Please reference the application number when sending any correspondence regarding the conclusions of this initial review. Comments received within the comment period will be evaluated at the next phase of the process.

Withdrawal Refunds:

If you choose not to proceed, you may withdraw your application and receive a refund (minus a \$50 processing charge per application.) To accomplish this you must notify the Department in writing by **Friday, September 20, 2002**. For your convenience you may use the enclosed "STOP PROCESSING" form.

To Proceed With Your Application:

If you choose to proceed with your application, you do not have to notify the Department. Your application will automatically be placed on the Department's Public Notice to allow others the opportunity to comment. After the comment period the Department will complete a public interest review and issue a proposed final order.

If A Permit Is Issued It Will Likely Include The Following Conditions:

1. Measurement, recording and reporting conditions:
 - A. Before water use may begin under this permit, the permittee shall install a meter or other suitable measuring device as approved by the Director. The permittee shall maintain the meter or measuring device in good working order, shall keep a complete record of the amount of water used each month and shall submit a report which includes the recorded water use measurements to the Department annually or more frequently as may be required by the Director. Further, the Director may require the permittee to report general water use information, including the place and nature of use of water under the permit.
 - B. The permittee shall allow the watermaster access to the meter or measuring device; provided however, where the meter or measuring device is located within a private structure, the watermaster shall request access upon reasonable notice.

2. The tentative priority date for this application is FEBRUARY 4, 2002.

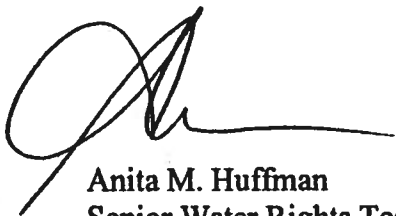
WARNING: This initial review does not attempt to address various public interest issues such as sensitive, threatened, or endangered fish species. These issues will be addressed as the Department reviews public comments and prepares a proposed final order. You should be aware that, if significant public interest issues are found to exist, such a finding could have an impact on the eventual outcome of your application.

The water source identified in your application is in an area in which an Agricultural Water Quality Management Area Plan is being developed. These plans are developed by the Oregon Department of Agriculture (ODA) with the cooperation of local landowners and other interested stakeholders. These plans help make sure that current and new appropriations of water are done in a way that does not adversely harm the environment. You are encouraged to contact Paul Measeles, (503) 986-4778 at the ODA to learn more about the plan and how it may affect your proposed water use.

If you have any questions:

Questions about the status of your application, processing timelines, or your upcoming Proposed Final Order should be directed to our Water Right Information Group at 503-378-8455 extension 201. Feel free to call me at 503-378-8455 extension 229 if you have any questions regarding the contents of this letter. Please have your application number available if you call. Address all other correspondence to: Water Rights Section, Oregon Water Resources Department, 158 12th ST. NE Salem, OR 97301-4172, Fax: 503-378-6203.

Sincerely,



Anita M. Huffman
Senior Water Rights Technician

enclosures: Flow Chart of Water Right Process
Stop Processing Form

G-15697
wab 17- 72964
pou 17- 72964
gw A

STOP PROCESSING

Notification to withdraw Water Right Application # _____ WAB # _____

After looking over the Initial Review materials, I am requesting that the processing of my application be stopped and the fees (minus a \$50 examination fee) be refunded. I understand that without a permit I may not legally use the water as requested in my application.

Signed: _____ Date: _____

Signed: _____ Date: _____

(authorized agent)

Under ORS 537.150(sw)/537.620(gw), timely submission of this request authorizes that the water right application process be stopped and all filing fees, except \$50, be returned.

This notice must be received by the Water Resources Department by: _____

STOP PROCESSING

Notification to withdraw Water Right Application # _____ WAB # _____

After looking over the Initial Review materials, I am requesting that the processing of my application be stopped and the fees (minus a \$50 examination fee) be refunded. I understand that without a permit I may not legally use the water as requested in my application.

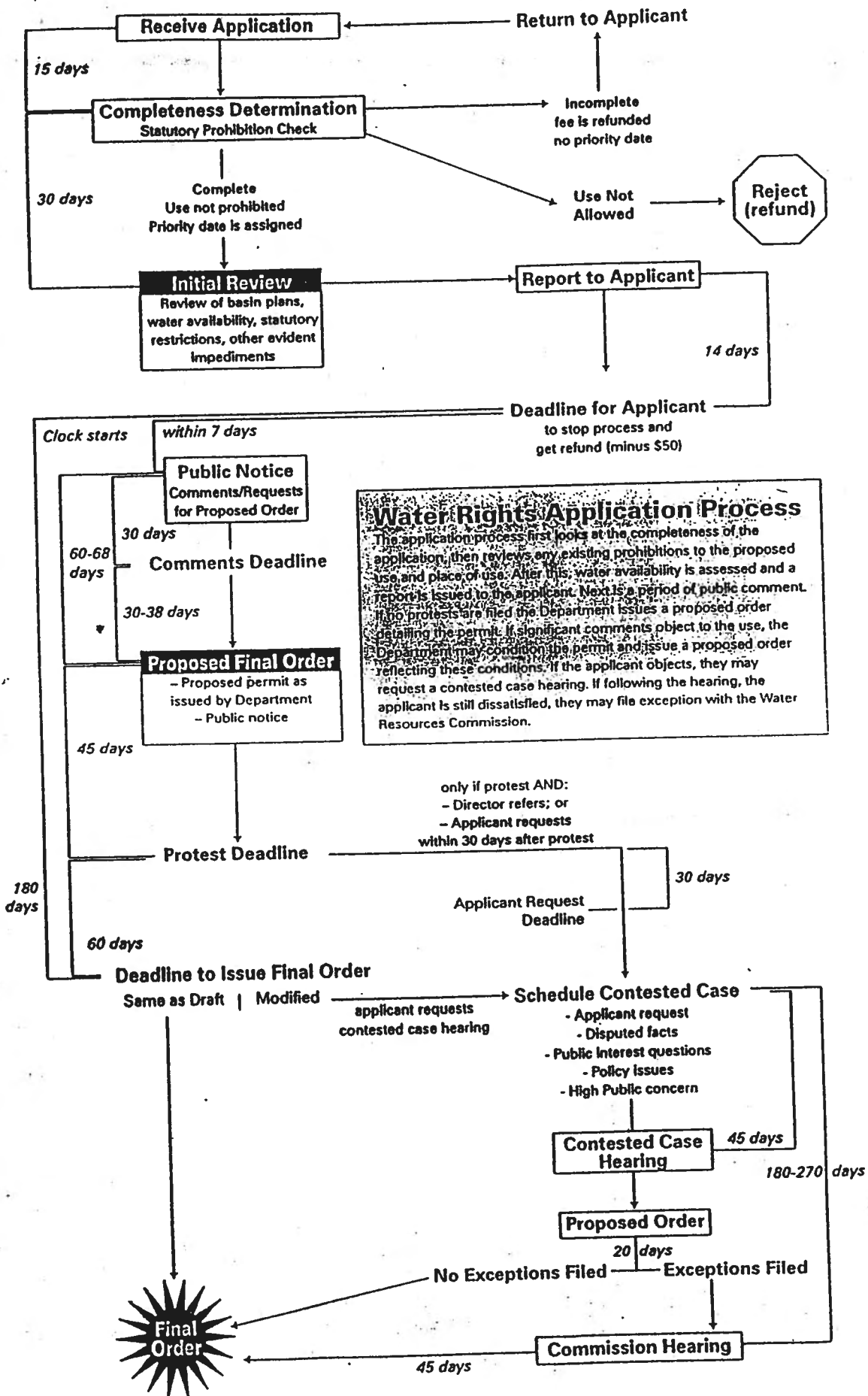
Signed: _____ Date: _____

Signed: _____ Date: _____

(authorized agent)

Under ORS 537.150(sw)/537.620(gw), timely submission of this request authorizes that the water right application process be stopped and all filing fees, except \$50, be returned.

This notice must be received by the Water Resources Department by: _____



APPLICATION FACT SHEET

Mail to: Applicant, Watermaster, District Biologist (ODFW)
If necessary, also mail to : Regional Water quality manager (DEQ), and DOA

Application File Number: G-15697

Applicant: BALLY BANDON SHEEP RANCH; FRIEDMANN, PHIL

County: COOS

Watermaster: DISTRICT #19

Priority Date: FEBRUARY 4, 2002

Source: TWO WELLS IN WHISKY RUN CREE K BASIN

Use: IRRIGATION OF 359.2 ACRES

Quantity: 0.44 CUBIC FEET PER SECOND, BEING 0.22 CFS FROM EACH WELL

Basin Name & Number: South Coast, #17

Stream Index Reference: Volume 3 BASIN 17 MISC

Well Locations:

WELL #1 NWSW, SECTION 20, T27S, R14W, W.M.; 2450 FEET NORTH & 350 FEET EAST FROM SW CORNER, SECTION 20

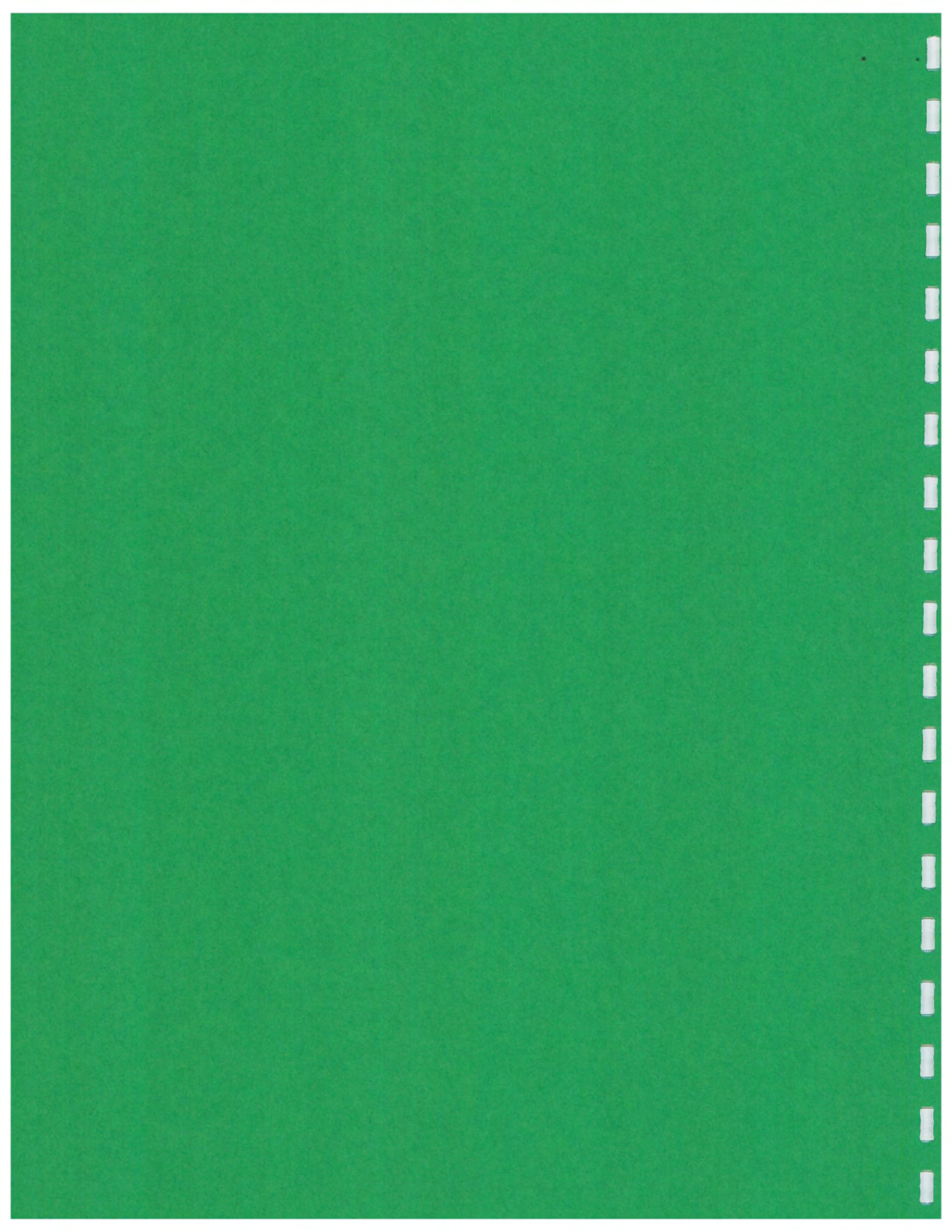
WELL #2 NWNW, SECTION 20, T27S, R14W, W.M.; 4600 FEET NORTH & 550 FEET EAST FROM SW CORNER, SECTION 20

Place of Use: NENE 3.6 ACRES SENE 9.5 ACRES NESE 0.5 ACRES, SECTION 19 NWNE 33.7 ACRES SWNE 35.0 ACRES NENW 38.6 ACRES NWNW 37.9 ACRES SWNW 40.0 ACRES SENW 40.0 ACRES NESW 25.5 ACRES NWSW 36.1 ACRES SWSW 15.8 ACRES SESW 0.9 ACRES NESE 10.1 ACRES NWSE 32.0 ACRES, SECTION 20, TOWNSHIP 27 SOUTH, RANGE 14 WEST, W.M.

14 DAY STOP PROCESSING DEADLINE DATE: Friday, September 20, 2002

PUBLIC NOTICE DATE: Tuesday, September 24, 2002

30 DAY COMMENT DEADLINE DATE: Thursday, October 24, 2002





State of Oregon
Water Resources Department
158 12th Street NE, Salem, OR 97310
(503)378-8455
www.wrd.state.or.us

Application for a Permit to Use Ground Water

Application No. 915697
Permit No.

"incomplete or inaccurate, we will return it to you. If any
/a." Please read and refer to the instructions when

Post-it® Fax Note	7671	Date	10-18-02	# of pages	7
To	TIM WHITE	From	D. Woodcock		
Co./Dept.		Co.			
Phone #		Phone #			
Fax #		Fax #			

..... INFORMATION

A. Individuals

Applicant: _____
First Last

Co-applicant: _____
First Last

Mailing address: _____
City State Zip

Phone: _____
Home Work Other

*Fax: _____ *E-Mail address: _____

B. Organizations

(Corporations, associations, firms, partnerships, joint stock companies, cooperatives, public and municipal corporations)

Name of organization: BALLY BANDON SHEEP RANCH

Name and title of person applying: PHIL FRIEDMANN - OWNER

Mailing address of organization: P.O. Box 1756
BANDON OR 97411
City State Zip

Phone: 541-530-6839 SAME
Day Evening

*Fax: _____ *E-Mail address: _____

*Optional information

For Department Use		
App. No. <u>G 15697</u>	Permit No. _____	Date <u>2/4/02</u>

2. PROPERTY OWNERSHIP

Do you own all the land where you propose to divert, transport, and use water?

Yes (Skip to section 3 "Ground water Development.")

No Please check the appropriate box below.

I have a recorded easement or written authorization permitting access.

I do not currently have written authorization or easement permitting access.

List the names and mailing addresses of all affected landowners.*

*If more than 25 landowners are involved, a list is not required. See instructions.

3. GROUND WATER DEVELOPMENT

A. Number of well(s): TWO B. Name of nearest surface water body: UNWINDING SEASONAL TRIBUTARY TO WHISKEY RUN CREEK

C. Distance from well(s) to nearest stream or lake: 1) WELL #1 1320 FEET WEST
2) WELL #2 1530 FEET NW 3) _____ 4) _____

D. If distance from surface water is less than one mile, indicate elevation difference between nearest surface water and well head. 1) WELL #1 20 FEET
2) WELL #2 10 FEET 3) _____ 4) _____

E. Well Characteristics

Wells must be constructed according to standards set by the Department for the construction and maintenance of water wells. If the well is already constructed, please enclose a copy of the well constructor's log and the well ID number, if available, for each well with this application. Identify each well with a number corresponding to the wells designated on the map and proceed to question F in this section of the form. If the well has not been constructed, or if you do not have a well log, please complete the following:

Well(s) will be constructed by: _____

Address: _____

Completion date: _____

2. Please provide a description of your well development. (Attach additional sheets if needed.)

Application No. 915697

Well No.	Diameter	Type and size of casing	No. of feet of casing	Intervals casing is perforated (in feet)	Seal depth	Est. depth to water	Est. depth to water bearing stratum	Name of port or measuring device	Total well depth

F. Artesian Flows

If your water well is flowing artesian, describe your water control and conservation works:

4. WATER USE

Please read the instruction booklet for more details on "type of use" definitions, how to express how much water you need and how to identify the water source you propose to use. You must fill out a supplemental form for some uses as they require specific information for that type of use.

A. Type(s) of Use(s)

See list of beneficial uses provided in the instructions.

- If your proposed use is **domestic**, indicate the number of households to be supplied with water: _____
- If your proposed use is **irrigation**, please attach Form I
- If your proposed use is **mining**, attach Form R
- If your proposed use is **municipal or quasi-municipal**, attach Form M
- If your proposed use is **commercial/industrial**, attach Form Q

B. Amount of Water

Provide the production rate in gallons per minute (gpm) and the total annual amount of water you need from each well, from each source or aquifer, for each use. You do not need to provide source information if you are submitting a well log with your application.

Well No.	Source or aquifer	Type of use	Total rate of water requested (in gpm)	Total annual quantity (in gallons)	Production rate of well (in gpm)
1	SEE WELL LOG #1		100	17.5 AF	100
2	SEE WELL LOG #2		100	17.5 AF	UNKNOWN

C. Maximum Rate of Use Requested

What is the maximum, instantaneous rate of water that will be used? 200 GPM
(The fees for your application will be based on this amount.)

D. Period of Use

Indicate the time of year you propose to use the water: MARCH 1 - OCTOBER 31
(For seasonal uses like irrigation give dates when water use would begin and end, e.g. March 1–October 31.)

E. Acreage

If you will be applying water to land, please give the total number of acres where water will be applied or used: 359.2 ACRES
(This number should be consistent with you application map.)

5. WATER MANAGEMENT

A. Diversion

What equipment will you use to pump water from your well(s)?

- Pump (give horsepower and pump type) 7.5 HORSEPOWER SUBMERSIBLE
- Other means (describe) _____

B. Transport

How will you transport water to your place of use?

- Ditch or canal (give average width and depth)
Width _____ Depth _____
Is the ditch or canal to be lined? Yes No
- Pipe (give diameter and total length)
Diameter 4 INCH Length 1800 FEET
- Other (describe) _____

8. MAP REQUIREMENTS

The Department cannot process your application without accurate information showing the source of water and location of water use. You must include a map with this application form that clearly indicates the township, range, section, and quarter/quarter section of the proposed well location and place of use. The map must provide tax lot numbers. See the map guidelines sheet for detailed map specifications.

9. SIGNATURE

By my signature below I confirm that I understand:

- I am asking to use water specifically as described in this application.
- Evaluation of this application will be based on information provided in the application packet.
- I cannot legally use water until the Water Resources Department issues a permit to me.
- If I get a permit, I must not waste water.
- If development of the water use is not according to the terms of the permit, the permit can be canceled.
- The water use must be compatible with local comprehensive land use plans.
- Even if the Department issues a permit to me, I may have to stop using water to allow senior water right holders to get water they are entitled to, and

I swear that all information provided in this application is true and correct to the best of my knowledge:

Signature of Applicant

Date

Signature of Co-applicant

Date

Before you submit your application be sure you have:

- Answered each question completely.
- Attached a legible map which includes township, range, section, quarter/quarter and tax lot number.
- Included a Land Use Information Form or receipt stub signed by a local official.
- Included the legal description of all the property involved with this application. You may supply a copy of the deed, land sales contract, or title insurance policy, to meet this requirement.
- Included a check payable to the Oregon Water Resources Department for the appropriate amount.



Oregon Water Resources Department

915697

FORM I Application No. Permit No.

1. Please indicate whether you are requesting a primary or supplemental irrigation water right.

- Primary
- Supplemental

If supplemental, please indicate the number of acres that will be irrigated for each type of use.

Primary: _____ Acres

Secondary: _____ Acres

List the permit or certificate number of the primary water right: No. _____

2. Please list the anticipated crops you will grow and whether you will be irrigating them for a full or partial season:

- 1. Turf & Pasture Full season Partial season (from: 3/1 to 10/31)
- 2. _____ Full season Partial season (from: _____ to _____)
- 3. _____ Full season Partial season (from: _____ to _____)
- 4. _____ Full season Partial season (from: _____ to _____)

3. Indicate the maximum total number of acre-feet you expect to use in an irrigation season:

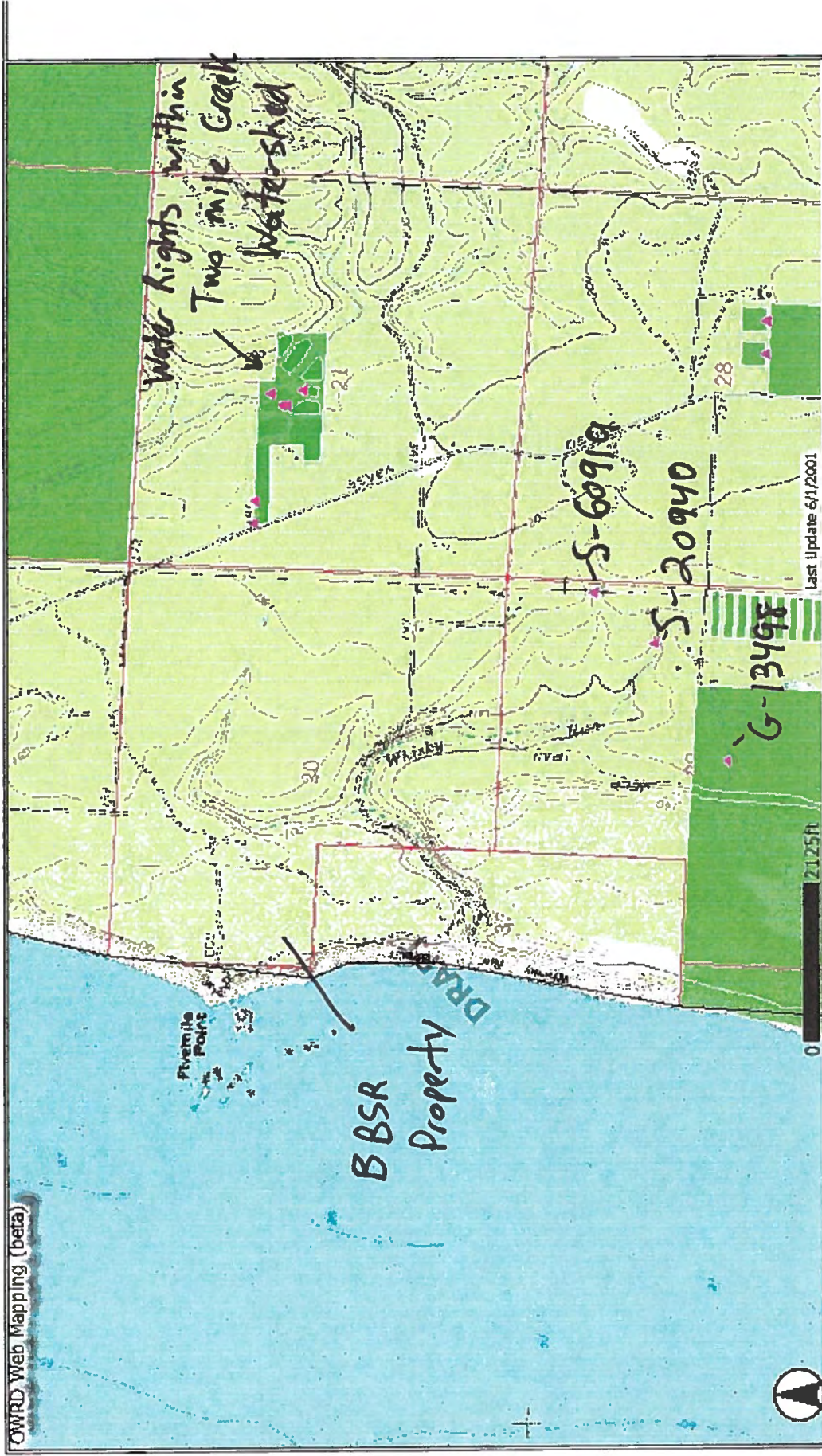
37 acre-feet

(1 acre-foot equals 12 inches of water spread over 1 acre, or 43,560 cubic feet, or 325,851 gallons.)

4. How will you schedule your applications of water? Will you be applying water in the evenings, twice a week, daily?

- Daily during daytime hours
- Daily during nighttime hours
- Two or three times weekly during daytime
- Two or three times weekly during nighttime
- Weekly, during daytime hours
- Weekly, during nighttime hours
- Other, explain: _____

Water Rights Whisky Run Creek Watershed



▲ - Point of Diversion

■ - Place of Use

5-20940

STATE OF OREGON
COUNTY OF COOS
CERTIFICATE OF WATER RIGHT

This Is to Certify, That EDGAR T. BROWN

of Bullards, State of Oregon, has made proof to the satisfaction of the STATE ENGINEER of Oregon, of a right to the use of the waters of Whisky Run Creek a tributary of Pacific Ocean for the purpose of domestic use for one family under Permit No. 19589 of the State Engineer, and that said right to the use of said waters has been perfected in accordance with the laws of Oregon; that the priority of the right hereby confirmed dates from June 26, 1950.

that the amount of water to which such right is entitled and hereby confirmed, for the purposes aforesaid, is limited to an amount actually beneficially used for said purposes, and shall not exceed 0.01 cubic foot per second.

or its equivalent in case of rotation, measured at the point of diversion from the stream. The point of diversion is located in the SE 1/4 NE 1/4, Section 29, Township 27 South, Range 14 West, W. M.

The amount of water used for irrigation, together with the amount secured under any other right existing for the same lands, shall be limited to - - - - - of one cubic foot per second per acre,

and shall conform to such reasonable rotation system as may be ordered by the proper state officer.

A description of the place of use under the right hereby confirmed, and to which such right is appurtenant, is as follows:

W 1/2 SE 1/4 NE 1/4
Section 29
Township 27 South, Range 14 West, W. M.

The right to the use of the water for the purposes aforesaid is restricted to the lands or place of use herein described.

WITNESS the signature of the State Engineer, affixed
this 14th day of November, 19 55.

LEWIS A. STANLEY
State Engineer

S-60919

STATE OF OREGON
COUNTY OF COOS
CERTIFICATE OF WATER RIGHT

THIS CERTIFICATE ISSUED TO

LARRY LEE HALL
P.O. BOX 1366
BANDON, OREGON 97411

confirms the right to use the waters of AN UNNAMED STREAM, a tributary of WHISKEY RUN, for the purpose of IRRIGATING 0.5 ACRE.

The right has been perfected under Permit 46283. The date of priority is JULY 27, 1981. The right is limited to not more than 0.01 CUBIC FOOT PER SECOND or its equivalent in case of rotation, measured at the point of diversion from the source.

The point of diversion is located as follows:

NE 1/4 NE 1/4, SECTION 29, T 27 S, R 14 W, W.M.; 1160 FEET SOUTH AND 100 FEET WEST FROM NE CORNER SECTION 29.

The amount of water used for irrigation, together with the amount secured under any other right existing for the same lands, shall be limited to ONE-EIGHTIETH of one cubic foot per second per acre, or its equivalent for each acre irrigated and shall be further limited to a diversion of not to exceed 2.5 acre-feet per acre for each acre irrigated during the irrigation season of each year.

The right shall conform to such reasonable rotation system as may be ordered by the proper state officer.

A description of the place of use under the right, and to which such right is appurtenant, is as follows:

NW 1/4 NW 1/4 0.25 ACRE
SECTION 28

NE 1/4 NE 1/4 0.25 ACRE
SECTION 29
TOWNSHIP 27 SOUTH, RANGE 14 WEST, W.M.

The right to the use of the water for the above purpose is restricted to beneficial use on the lands or place of use described. The right is subject to minimum flows established by the Water Resources Commission with an effective date prior to this right.

WITNESS the signature of the Water Resources Director, affixed this date APRIL 27, 1989.

/s/ WILLIAM H. YOUNG
Water Resources Director

Recorded in State Record of Water Right Certificates numbered 60919

61960.JCL

Water Right Permit #13498 Information

G-13498

POD_ID	MAPNAME	APP	CERTIFICATE	PERMIT	POD_NUM	SOURCE	USE	PRIORITY	STREAM_COD	CATEGORY	RATE	DIV_UNITS	DUTY	LIMIT	STATUS	P_A_S	STREAM1_NA	STREAM2_NA	SOURCE_TYP	CERT_NUM	PERMIT_CHA	PERMIT_NUM	CPPN	OTHER_LIMI
45	27.00S14.00W	G 13577	0	G 13498	6	IR	19931217	1715100090	3	3.09	C	1/80	0.5	V	A.	WELL.3	CUT CR	WE	0	G	13498	0 G 13498	6	11/1-2/28; NOT TO EXCEED 2.5 AF/YEAR
45	27.00S14.00W	G 13577	0	G 13498	6	DO	19931217	1715100090	3	3.09	C	1/80	0.5	V	A	WELL.3	CUT CR	WE	0	G	13498	0 G 13498	6	11/1-2/28; NOT TO EXCEED 2.5 AF/YEAR
45	27.00S14.00W	G 13577	0	G 13498	6	CM	19931217	1715100090	3	3.09	C	1/80	0.5	V	A.	WELL.3	CUT CR	WE	0	G	13498	0 G 13498	6	11/1-2/28; NOT TO EXCEED 2.5 AF/YEAR

APPENDIX B

GEOLOGICAL/HYDROGEOLOGICAL

INFORMATION

Table B-1

Bandon, OR Precipitation Data

Month	Average Monthly Precipitation 1948 - 2001 (inches)	Average Monthly Precipitation 2002 Precip (inches)
January	10.07	11.97
February	7.73	5.07
March	7.38	5.89
April	4.37	4.39
May	3.09	1.12
June	1.47	1.23
July	0.4	0.02
August	0.79	N/A
September	1.63	N/A
October	4.54	N/A
November	8.62	N/A
December	9.63	N/A
Total	59.7	

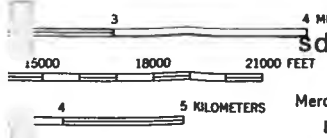
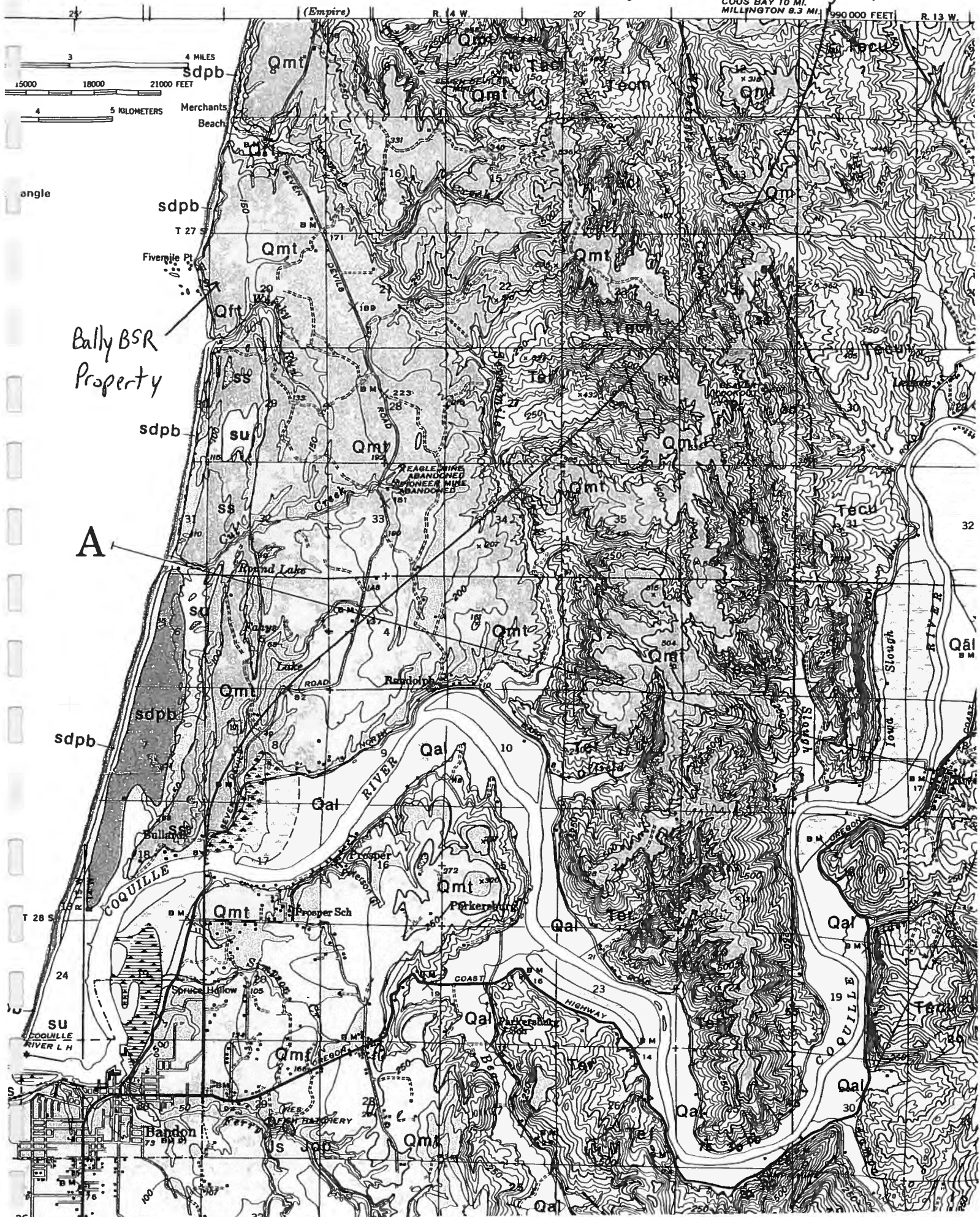
This data is from the Bandon, OR station (350471) on the WRCC website
<http://www.wrcc.dri.edu/cgi-bin/cliMAIN.pl?orband>

N/A = Data not available to public

OREGON

From: Beaulieu and Hughes, 1975

COOS BAY 10 MI. MILLINGTON 8.3 MI. 1:990 000 FEET



angle

Bally BSR Property

A

Map labels including: (Empire), R. 14 W., T. 27 S., T. 28 S., 24, 20, 16, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 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597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

EXPLANATION

Surficial Geologic Units

- fs** fill and spoils: Sand, silt, gravel, sawdust, wood chips, dredge spoils, and other material placed in wetland areas and on slopes for disposal or to provide space for development; adequate foundation strength for small structures if properly placed; nature of substrate variable and includes compressible soils locally; hazards include flooding, differential settling, and amplification of seismic waves in areas of thick estuarine fill.
- ss** stable sand: Unconsolidated fine- to medium-grained dune sand protected from wind erosion by natural or artificially introduced vegetation; thickness up to 200 feet in large dune fields, much thinner south of Bandon; ground-water production high; hazards include stream erosion, high ground water, ground-water pollution, overwithdrawal of ground water, and ocean flooding at low elevations; unit may overlie organic soils and ancient soil horizons with other properties; does not include stable sand overlying Qmt.
- su** unstable dune sand: Unconsolidated fine- to medium-grained sand of large dunes not protected from wind erosion by vegetation; thickness, hazards and ground-water potential similar to those of stable sand; also wind erosion and wind deposition, especially in excavations or around structures; unit may overlie compressible soils or other ancient soil horizons.
- spdb** deflation plain and beach sand: Unconsolidated fine- to medium-grained sand of beaches, flat-lying interdune areas and transverse dune fields; thickness, hazards, and ground-water potential similar to those of stable sand; possible presence of iron-pan layers at shallow depths; possible extreme variability vertically in permeability and degree of consolidation; preservation of vegetative cover dependent on water table.
- tf** tidal flat: Unconsolidated mud, silt, clay, and sand in the tidal zone of estuaries and other coastal wetlands; sediments compacted or high in organic material locally; hazards may also include amplification of seismic waves and ocean flooding; may be present beneath some dune sands.
- mpt** marsh and peat: Unconsolidated organic soils of silt, clay, and sand in estuarine and fresh-water wetland areas; characterized by abundant vegetation, ponding, or high water table, hazards also include low foundation strength and stream or ocean flooding; organic soils may be present in the subsurface beneath other alluvial units or dune sands.
- Qal** Quaternary alluvium: Unconsolidated deposits of sand, silt, clay, and mud in the flood plains of major streams draining sandstone and siltstone terrain, and gravel, sand, and silt along the middle and upper reaches of rivers draining Pre-Tertiary or volcanic terrain; grain size typically increases with depth; ground-water production moderate; associated with fresh water marsh and peat in places; hazards include stream-bank erosion, ponding, high ground water, flooding, siltation, and compressible soils locally.
- Qfl** Quaternary fluvial terrace deposits: Unconsolidated to semi-consolidated flat-lying and elevated deposits of river alluvium overlooking present stream valleys (Quaternary alluvium) and situated above the present levels of flooding; also includes fine-grained terrace deposits of estuarine origin; grain-size distributions similar to those of Quaternary alluvium and estuarine deposits; moderate ground-water production; hazards include ponding, local high ground water, and stream-bank erosion.
- Qmt** Quaternary marine terrace deposits: Unconsolidated to semi-consolidated flat-lying and elevated marine deposits of sand, silt, clay and gravel locally; thicknesses vary from 10 to 50 feet, but locally are as little as 2 to 3 feet; elevations range from a few feet to several hundred feet near Coos Bay to almost 2,000 feet farther inland; ground-water production low to moderate; hazards may include headland erosion, stream-bank erosion, poor drainage, failure in deep cuts, and others, but generally are negligible; coastal Qmt mantled by stable dune sand.

Bedrock Geologic Units

Sandstone of Tertiary Age

- Tpe** Empire Formation (Pliocene): *Thickly bedded, hard, marine sandstone with minor thin interbeds of siltstone; impermeable, firm foundations; mantled with loamy sand, sandy loam, and silty loam; hazards include rockfall in coastal cliffs and variable erosion and mass movement; limited in distribution to the South Slough area.*
- Tms** Miocene sedimentary rocks: *Calcareous, medium-grained, hard, gray sandstone exposed at Pigeon Point and recovered from nearby dredgings; indicates shallow depth to bedrock in southern extremities of entrance of Coos Bay estuary.*
- Totp** Tunnel Point Formation (Oligocene): *Coarse- to fine-grained tuffaceous sandstone and minor siltstone exposed only at Tunnel Point near the entrance to Coos Bay; subject to slow headland erosion prior to the development of Bastendorff Beach.*
- Tecu**
Teci Coaledo Formation, upper and lower members (late Eocene): *Coarse- to fine-grained, hard, deltaic sandstone with interbeds of softer siltstone; well-developed bedding; conglomerate and coal beds present locally with more extensive coal deposits at depth; overlain by loamy sand, sandy loam and silty loam; low permeability and ground water potential; hazards may include slow to sporadic headland erosion locally and earthflow in deep cuts; flooding in coal mines minimal.*
- Tec** Coaledo Formation, undifferentiated (late Eocene): *Parts of the undifferentiated Coaledo terrain of the east Coos Bay area high in sandstone content; lithology and hazards similar to that of the upper and lower Coaledo Formation; precise distribution determined by on-site inspection.*
- Tet** Tye Formation (middle Eocene): *Thick sequence of rhythmically bedded, hard sandstone and minor siltstone; coal-bearing at Eden Ridge; impermeable, but with moderate infiltration along joints and faults; very low ground-water potential; mantled with sandy loam and silty loam soils that locally are very thin; hazards include flash flooding, erosion, rapid earthflow, and debris flows.*
- Tef** Flournoy Formation (middle Eocene): *Lithology and soils similar to those of the Tye Formation except for increased siltstone content high in the section; mantled by sandy loam and silty loam; hazards and ground-water potential similar to those of the Tye Formation.*
- Teig** Lookingglass Formation (middle Eocene): *Lithology, ground-water potential, and hazards similar to those of the Tye Formation, but thinner bedded and conglomeratic near the base locally; mantled by sandy loam and silty loam.*
- Ter** Roseburg Formation — sedimentary rocks (lower Eocene and older): *Rhythmically bedded hard sandstone and siltstone; low permeability and low ground-water potential; faulted and sheared in southern Coos County to produce extensive mass movement terrain and subdued topography; mantled by silt loam and loamy sand; hazards include mass movement, erosion, and variable foundation conditions.*

Siltstone of Tertiary Age

- Teob** Bastendorff Formation (late Eocene and early Oligocene): *Thinly bedded shale and siltstone confined to the South Slough, Isthmus Slough and Catching Creek areas; mantled by silty loam and silty clay loam; very low permeability and ground-water potential; hazards include erosion, slow mass movement, and failures in deep cuts.*
- Tecm** Coaledo Formation — middle member (late Eocene): *Thinly bedded siltstone with minor sandstone interbeds; mantled by silty loam and silty clay loam; very low permeability and ground-water potential; hazards include erosion, slow headland erosion, and local mass movement.*
- Tec** Coaledo Formation — undifferentiated (late Eocene): *Parts of the undifferentiated Coaledo terrain of the east Coos Bay area high in siltstone content; lithology and hazards similar to those of the middle member of the Coaledo Formation; precise distribution determined by on-site inspection.*
- Tee** Elkton Formation (middle Eocene): *Thinly bedded siltstone with minor sandstone interbeds; mantled with silty loam and silty clay loam; very low permeability and ground-water potential; hazards include erosion and mass movement.*

Basalt of Tertiary Age

- Terb** Roseburg Formation — basalt (early Eocene): *Marine basalt of variable lithology including pillow basalt, basaltic breccia and intrusive basalt; hardness, jointing, alteration, and potential use variable; widespread low-grade alteration; interfingers with sedimentary rock of the Roseburg Formation; mantled by silty clay loam and silty loam a few inches to several tens of feet in thickness; hazards include rapid erosion and mass movement.*

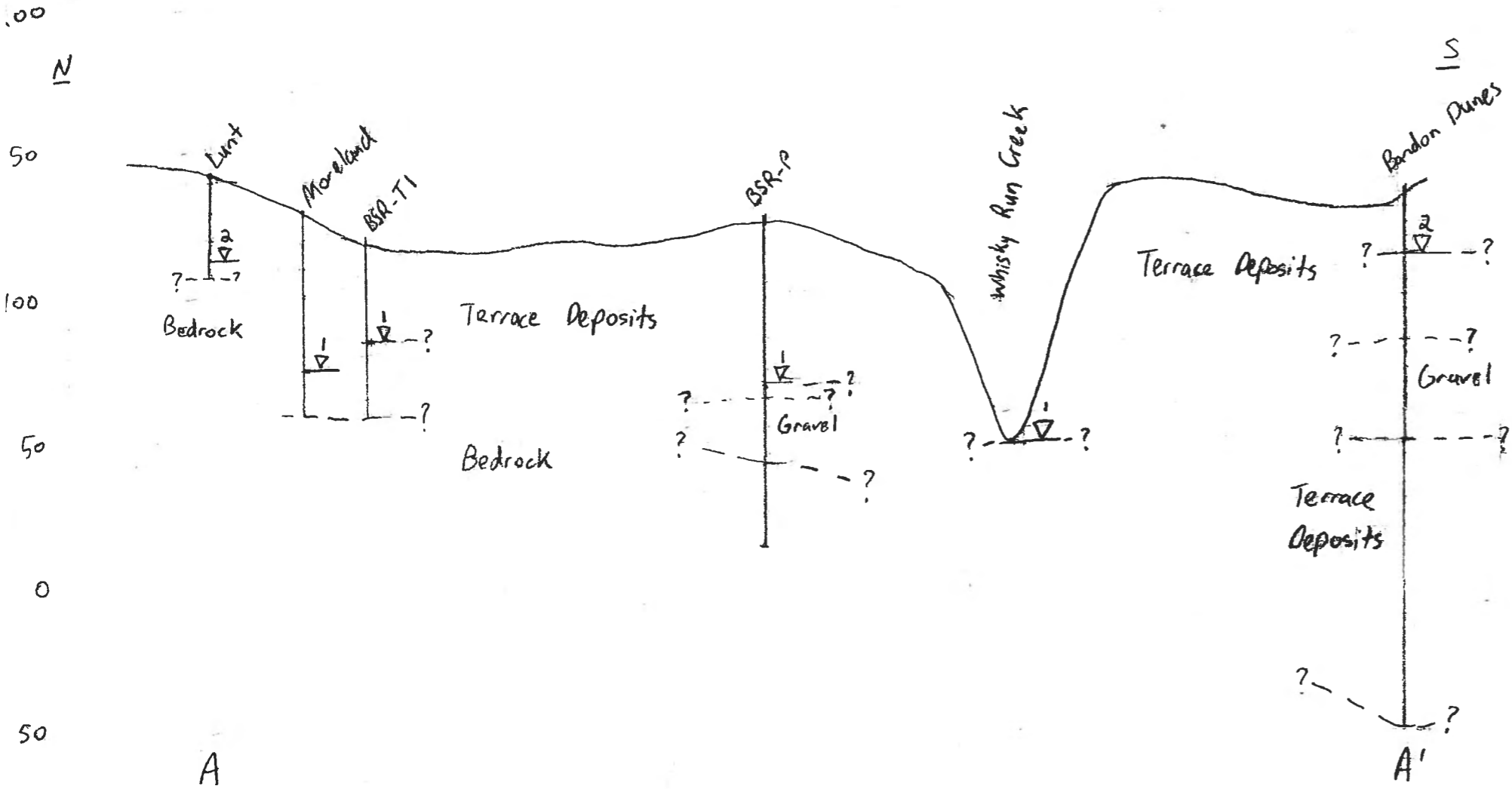
Rocks of Pre-Tertiary Age

- Jov** Humbug Mountain Conglomerate (early Cretaceous): *Small exposure of bedded conglomerate and sandstone.*
- Joc** Otter Point Formation (Jurassic): *A tectonically sheared assemblage of rocks including pervasively sheared sedimentary rocks (Jop) now prone to regional mass movement and subordinate amounts of sheared to intact volcanic rock (Jov), isolated blocks of thinly bedded tightly folded chert (Jc), exposures of serpentinite (Jsp), and isolated blocks of resistant blueschist (Js), a medium-grade metamorphic rock. Soil types, thicknesses, and properties highly variable; major hazards include mass movement, slope erosion, stream-bank erosion, and variable bearing strength.*
- Jol** Galice Formation (Jurassic): *Limited exposures of volcanic rock and bedded siltstone.*

North-South Cross-Section

Vertical Scale: 1 in = 50 ft

Horizontal Scale: 1 in = 1,006 ft

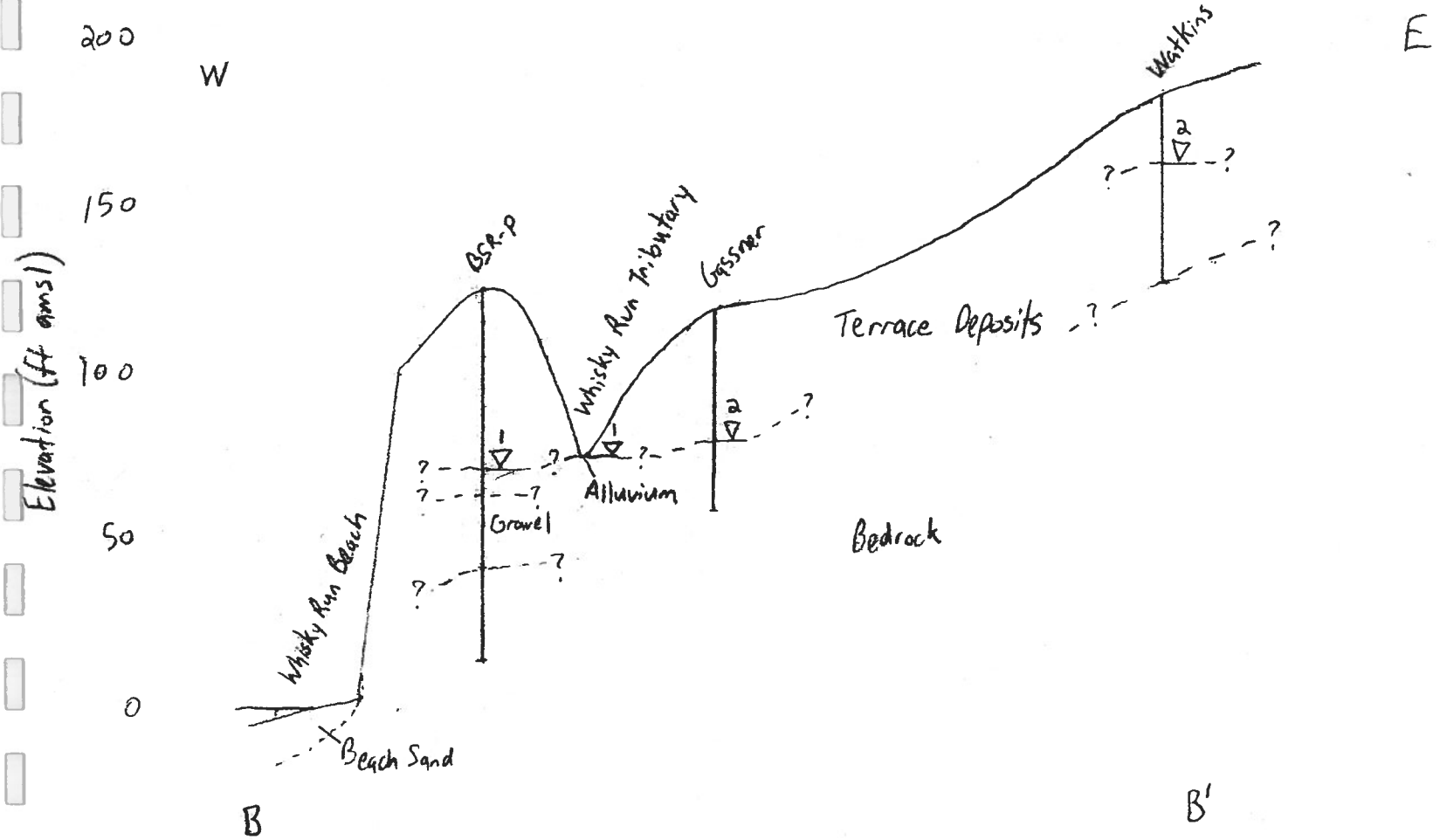


- 1 = water level measured 10/02
- 2 = water level measured at time of drilling

East-West Cross-Section

Vertical Scale: 1 in = 50 ft

Horizontal Scale: 1 in = 1,006 ft

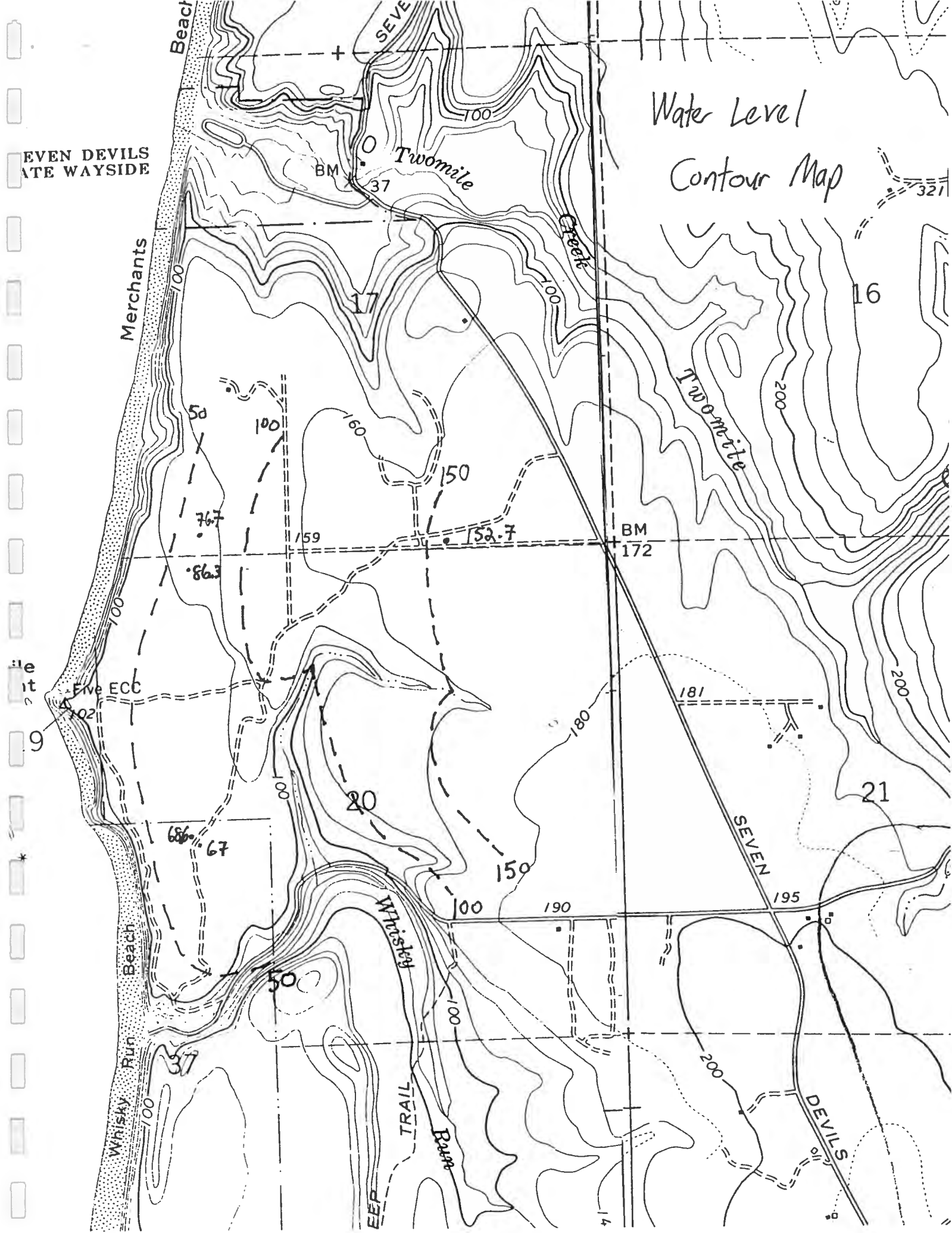


1 ▽ = Water level measured 10/02

2 ▽ = water level measured at time of drilling

EVEN DEVILS
ATE WAYSIDE

Water Level Contour Map



APPENDIX C

WELL LOGS

BBSR-P Pumping Well

COOS 52219

JAN 10 2002

27-14-20

STATE OF OREGON WATER SUPPLY WELL REPORT (as required by ORS 537.765)

WATER RESOURCES DEPT.
SALEM, OREGON

WELL I.D. # L51164
START CARD # 123874

Instructions for completing this report are on the last page of this form.

(1) OWNER: Well Number 808
Name Billy Bandon Sheep Ranch
Address PO Box 1756
City Bandon State OR Zip 97411

(2) TYPE OF WORK
 New Well Deepening Alteration (repair/recondition) Abandonment

(3) DRILL METHOD:
 Rotary Air Rotary Mud Cable Auger
 Other

(4) PROPOSED USE:
 Domestic Community Industrial Irrigation
 Thermal Injection Livestock Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval Yes No Depth of Completed Well 89 ft.
Explosives used Yes No Type _____ Amount _____

HOLE		SEAL					
Diameter	From To	Material	From To	Sacks or pounds			
14"	0		0				
12 1/4"	20	Bentonite	35	40 SX			
6"	89	Cement	90	110	3 SX		

How was seal placed: Method A B C D E
 Other Bentonite poured from surface
Backfill placed from _____ ft. to _____ ft. Material _____
Gravel placed from 35 ft. to 89 ft. Size of gravel 6/9

(6) CASING/LINER:

Diameter	From To	Gauge	Steel	Plastic	Welded	Threaded
Casing: 8"	+1	66	5490	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8"	81	89	5444	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10"	114	41	1250	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Liner:				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Final location of shoe(s) _____

(7) PERFORATIONS/SCREENS:

Perforations Method Attached to Casing
 Screens Type Johnson Wire Material 5 S

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
66'	81'	1070		8"	Pipe	<input type="checkbox"/>	<input type="checkbox"/>

(8) WELL TESTS: Minimum testing time is 1 hour

Yield gal/min	Drawdown	Drill stem at	Time
73	9'	89	1 hr.
100'	14'	89	2 hrs

Temperature of water 52° Depth Artesian Flow Found _____
Was a water analysis done? Yes By whom BWS
Did any strata contain water not suitable for intended use? Too little
 Salty Muddy Odor Colored Other _____
Depth of strata: _____

Bandon Well & Septic Co., Inc.

(9) LOCATION OF WELL by legal description:
County COOS Latitude _____ Longitude _____
Township 27 N or S Range 14 E or (W) W.M.
Section 20 NW 1/4 SW 1/4
Tax Lot 400 Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) Whiskey Run Rd.
Bandon

(10) STATIC WATER LEVEL:
56' ft. below land surface. Date 12/20/01
Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:

Depth at which water was first found 56'

From	To	Estimated Flow Rate	SWL
56	83	100	56
Specific Cap 8.1 gal/FT of DP			

(12) WELL LOG:

Ground Elevation +/- 100'

Material	From	To	SWL
Topsoil	0	2	
Sandy Clay brown	2	8	
Sandy Clay tan	8	10	
Sand Fine brown	10	25	
Sandy Clay tan white	25	26	
Sand Fine-med brown	26	60	
Sand Fine-CRS w/ gravel	60	64	
Fine gray brown (Loss Circulation)			
Gravel CRS-Fine w/ sand	64	70	
Fine-CRS brown (Loss Circulation)			
Gravel med-Fine w/ Sand	70	80	
CRS-Fine Gray brown			
Sandy Clay Gray	80	82	
WOOD	82	83	
Claystone Gray	83	110	

Date started 11/21/01 Completed 12/20/01

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.
Signed Chad Keasing WWC Number 1759 Date 1/4/02

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.
Signed Jim Mackle MGC WWC Number 1493 Date 1/7/02

BBSR-T1 distant piezometer

STATE OF OREGON
GEOTECHNICAL HOLE REPORT
(as required by OAR 690-240-035)

Coos
52220

(Pg 1)

(1) OWNER/PROJECT: Hole Number 810
Name Bally Bandon Sheep Ranch
Address PO Box 1756
City Bandon State OR Zip 97411

(2) TYPE OF WORK
 New Deepening Alteration (repair/recondition) Abandonment

(3) CONSTRUCTION:
 Rotary Air Hand Auger Hollow Stem Auger
 Rotary Mud Cable Tool Push Probe Other

(4) TYPE OF HOLE:
 Uncased Temporary Cased Permanent
 Uncased Permanent Slope Stability Other

(5) USE OF HOLE: Formation Samples

(6) BORE HOLE CONSTRUCTION:
Special Construction approval Yes No Depth of Completed Hole 78' ft.

HOLE			SEAL			Sacks or pounds
Diameter	From	To	Material	From	To	
6"	0	78	Cement	0	78	25x
			Bentonite	0	35	18.5x

Backfill placed from _____ ft. to _____ ft. Material _____
Filter Pack placed from _____ ft. to _____ ft. Size of pack _____

(7) CASING/SCREEN:
Diameter From To Gauge Steel Plastic Welded Threaded
Casing: 2" +1 35 5x40
Screen: _____
Slot size _____

(8) WELL TEST:
 Pump Bailer Air Flowing Artesian
Permeability _____ Yield _____ GPM _____
Conductivity _____ PH _____
Temperature of water _____ °F/C Depth artesian flow found _____ ft.
Was water analysis done? Yes No
By whom? _____
Depth of strata analyzed. From _____ ft. to _____ ft.
Remarks: _____

(9) LOCATION OF HOLE by legal description:
County Coos Latitude _____ Longitude _____
Township 27 N or S Range 14 E or W. W.M.
Section 20 1/4 1/4
Tax Lot 100 Lot _____ Block _____ subdivision _____
Street Address of Well (or nearest address) Whiskey Run Rd, Bandon

Map with location identified must be attached

(10) STATIC WATER LEVEL:
30'5" ft. below land surface. Date 12/21/01
Artesian pressure _____ lb. per square inch. Date _____

(11) SUBSURFACE LOG:
Ground Elevation +1-100'

Material Description	From	To	SWL
Topsoil	0	1	
Sand Fine brown	1	3	
Sand Fine Tan	3	12	
Clay brown	12	14	
Sandy Clay Tan	14	15	
Sand Fine Tan	15	18	
Sandy Clay white	18	20	
Sand Fine Tan	20	30	

Continued on Page #2
Date Started 11/29/01 Date Completed 12/21/01

(12) ABANDONMENT LOG:

Material Description	From	To	Sacks or Pounds

RECEIVED
JAN 10 2002
WATER RESOURCES DEPT.
SALEM, OREGON
Date started _____ Date Completed _____

Professional Certification
(to be signed by a licensed water supply or monitoring well constructor, or Oregon registered geologist or civil engineer).
I accept responsibility for the construction, alteration, or abandonment work performed during the construction dates reported above. All work performed during this time is in compliance with Oregon's geotechnical hole construction standards. This report is true to the best of my knowledge and belief.
License or Registration Number 1493
Signed Jim Mack Date 1/7/02
Affiliation Bandon Well & Septic Co. inc

THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

ORIGINAL - WATER RESOURCES DEPARTMENT FIRST COPY - CONSTRUCTOR SECOND COPY - CUSTOMER

STATE OF OREGON
GEOTECHNICAL HOLE REPORT
(as required by OAR 690-240-035)

(Pg 2)

COOS
52220

(1) OWNER/PROJECT: Hole Number 810
Name Bally Bandon Sheep Ranch
Address PO Box 1756
City Bandon State OR Zip 97411

(2) TYPE OF WORK
 New Deepening Alteration (repair/recondition) Abandonment

(3) CONSTRUCTION:
 Rotary Air Hand Auger Hollow Stem Auger
 Rotary Mud Cable Tool Push Probe Other

(4) TYPE OF HOLE:
 Uncased Temporary Cased Permanent
 Uncased Permanent Slope Stability Other

(5) USE OF HOLE:

(6) BORE HOLE CONSTRUCTION:
Special Construction approval Yes No Depth of Completed Hole _____ ft.

HOLE			SEAL			Sacks or pounds
Diameter	From	To	Material	From	To	

Backfill placed from _____ ft. to _____ ft. Material _____
Filter Pack placed from _____ ft. to _____ ft. Size of pack _____

(7) CASING/SCREEN:

Diameter	From	To	Gauge	SEAL			
				Steel	Plastic	Welded	Threaded
Casing:				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Screen:				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Slot size _____

(8) WELL TEST:
 Pump Bailor Air Flowing Artesian
Permeability _____ Yield _____ GPM _____
Conductivity _____ PH _____
Temperature of water _____ °F/C Depth artesian flow found _____ ft.
Was water analysis done? Yes No
By whom? _____
Depth of strata analyzed. From _____ ft. to _____ ft.
Remarks: _____

(9) LOCATION OF HOLE by legal description:
County Coos Latitude _____ Longitude _____
Township d7 N or S Range 14 E or W W.M.
Section 20 NW 1/4 NW 1/4
Tax Lot 100 Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) Whiskey Run Rd.
Bandon

Map with location identified must be attached

(10) STATIC WATER LEVEL:
_____ ft. below land surface. Date _____
Artesian pressure _____ lb. per square inch. Date _____

(11) SUBSURFACE LOG:
Ground Elevation _____

Material Description	From	To	SWL
Sand Fine-med Tan	30	37	
Sandy Clay brn w/sand Fine	37	45	
Peat Brown	45	46	
Wood w/sand Fine brown	46	48	
Sand Fine-med tan	48	53	
Gravel med-crs Brn Red w/sand	53	60	
Sand Fine w/gravel Fine-crs Gravel	60	65	
Sandy Clay Gray	65	66	
Claystone Gray	66	78	

Date Started 11/29/01 Date Completed 12/21/01

(12) ABANDONMENT LOG:

Material Description	From	To	Sacks or Pounds

Date started _____ Date Completed _____

Professional Certification

(to be signed by a licensed water supply or monitoring well constructor, or Oregon registered geologist or civil engineer).

I accept responsibility for the construction, alteration, or abandonment work performed during the construction dates reported above. All work performed during this time is in compliance with Oregon's geotechnical hole construction standards. This report is true to the best of my knowledge and belief.

License or Registration Number 1493

Signed Jim Mackin MGCW Date 1/7/02

Affiliation Bandon Well + Septic Co. Inc.

THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

ORIGINAL - WATER RESOURCES DEPARTMENT FIRST COPY - CONSTRUCTOR SECOND COPY - CUSTOMER

27-14-20
COPY

REDUCED COPY
NOT TO SCALE

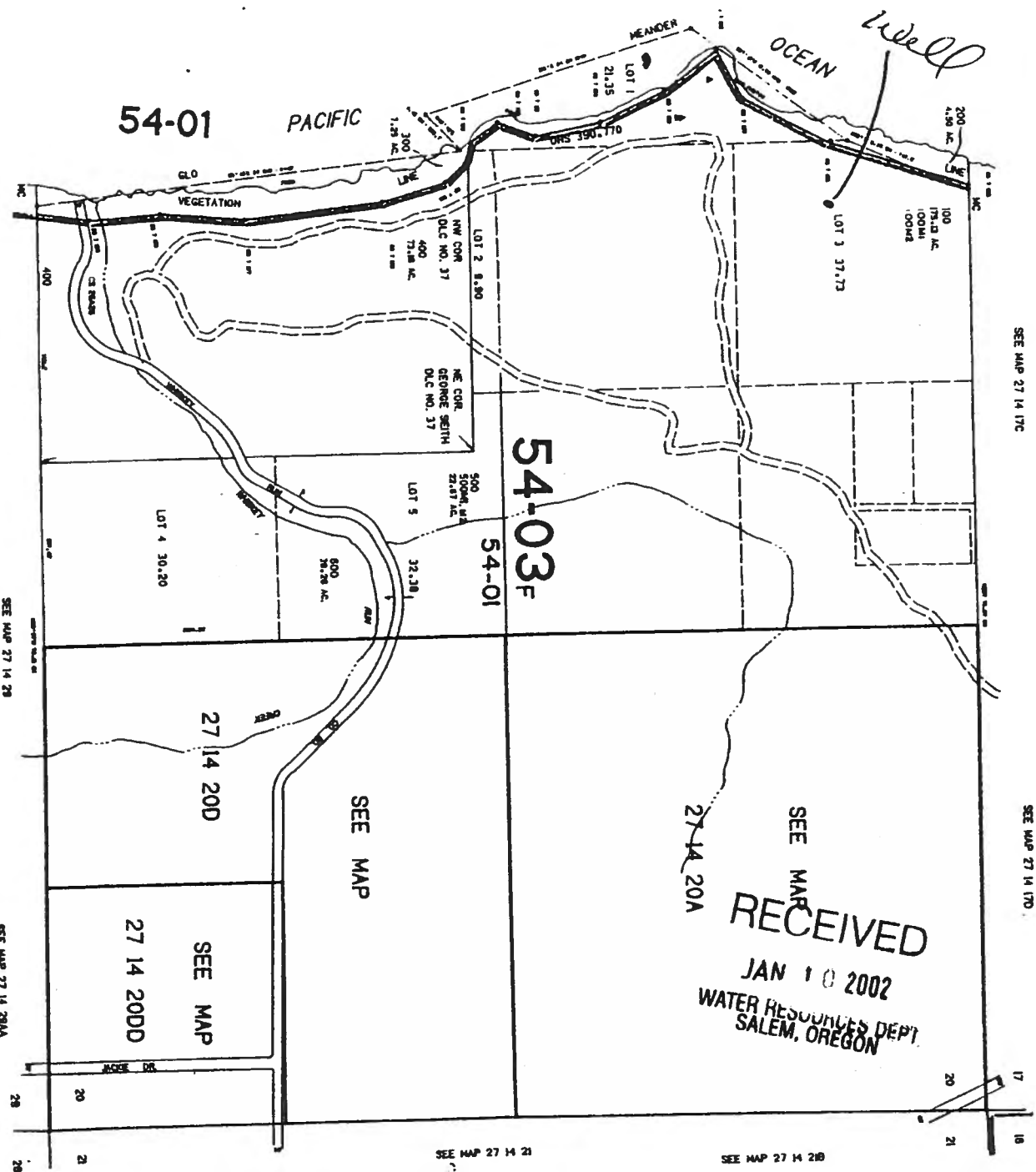
CHANGES UPDATED AS OF MAR 16 1995

FROM LAYOUT TRACED CHECKED

THIS MAP WAS PREPARED FOR
ASSESSMENT PURPOSE ONLY.

SECTION 20 12/S. R14W. WM.
COOS COUNTY
T-400

27 14 20
& INDEX



RECEIVED
JAN 10 2002
WATER RESOURCES DEPT
SALEM, OREGON

27 14 20
& INDEX

BBSK-T2 near piezometer

27-14-20 NW SW

STATE OF OREGON
GEOTECHNICAL HOLE REPORT
(as required by OAR 690-240-035)

(1) OWNER/PROJECT: Hole Number 856
Name Bally Barden Sheep Ranch
Address PO Box 1756
City Barden State OR Zip 97411

(2) TYPE OF WORK
 New Deepening Alteration (repair/recondition) Abandonment

(3) CONSTRUCTION:
 Rotary Air Hand Auger Hollow Stem Auger
 Rotary Mud Cable Tool Push Probe Other

(4) TYPE OF HOLE:
 Uncased Temporary Cased Permanent
 Uncased Permanent Slope Stability Other

(5) USE OF HOLE: Piezometer

(6) BORE HOLE CONSTRUCTION:
Special Construction approval Yes No Depth of Completed Hole 76'8"
TOC

HOLE			SEAL			Sacks or pounds
Diameter	From	To	Material	From	To	
6"	0	75	Bentonite	0	40	13

Backfill placed from _____ ft. to _____ ft. Material _____
Filter Pack placed from 40 ft. to 75 ft. Size of pack 10/20

(7) CASING/SCREEN:
Diameter From To Gauge Steel Plastic Welded Threaded
Casing: 2" +1 60 5/8 40
Screen: 2" 60 75 5/8 40
Slot size 1020

(8) WELL TEST:
 Pump Bailer Air Flowing Artesian
Permeability _____ Yield _____ GPM 56PM
Conductivity _____ PH _____
Temperature of water 53° °F/C Depth artesian flow found _____ ft.
Was water analysis done? Yes No
By whom? _____
Depth of strata analyzed. From _____ ft. to _____ ft.
Remarks: _____

(9) LOCATION OF HOLE by legal description:
County MOS Latitude _____ Longitude _____
Township 27 N or S Range 14 E or W. WM.
Section 20 NW 1/4 SW 1/4
Tax Lot 400 Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) 11 Highway 1756 Barden

Map with location identified must be attached

(10) STATIC WATER LEVEL:
58'4" ft. below land surface. Date 10/8/02
Artesian pressure _____ lb. per square inch. Date _____

(11) SUBSURFACE LOG:
Ground Elevation +1-300'

Material Description	From	To	SWL
Sandy Topsoil	0	1	
Cemented Sand Brown	1	2	
Sand brown Fine	2	9	
Sandy tan Clay	9	11	
Cemented sand tan	11	15	
Sandy Clay white	15	16.5	
Sand Fine tan	16	19	
Sandy Clay Orange	19	20	
Sand tan Fine-med	20	29	

Date Started 10/07/02 Date Completed 10/08/02

LOG: Cont.

Material Description	From	To	SWL
Sandy Clay White + Orange	29	30	
Gravel Fine w/ Sand Brn	30	36	
Sand Fine-med Tan	36	40	
Sand Fine-Grsw/Fine gravel	40	61	58'4"
Sand Fine-Grsw/Gravel Med-Fine	61	65	
Gravel Fine-Grsw/sand	65	74	
Grsw-Fine Gray brn	74	75	
Clay Gray			

Date started 10/07/02 Date Completed 10/08/02

Professional Certification
(to be signed by a licensed water supply or monitoring well constructor, or Oregon registered geologist or civil engineer).

I accept responsibility for the construction, alteration, or abandonment work performed during the construction dates reported above. All work performed during this time is in compliance with Oregon's geotechnical hole construction standards. This report is true to the best of my knowledge and belief.

License or Registration Number 1493
Signed Jim Madell & M6WC Date 10/09/02
Affiliation Barden Well + Septic Co inc.

THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

RECEIVED

COOS
717

Tokyo Lane 27S/14W/17ac
Friedmann Property
(START CARD) # 48138

STATE OF OREGON
WATER WELL REPORT
(as required by ORS 537.765)

MAY 10 1993

WATER RESOURCES DEPT.

SALEM, OREGON
Well Number

(1) OWNER:

Name Linda Roth
Address P.O. Box 1619
City Bandon State OR Zip 97411

(2) TYPE OF WORK:

New Well Deepen Recondition Abandon

(3) DRILL METHOD:

Rotary Air Rotary Mud Cable
 Other

(4) PROPOSED USE:

Domestic Community Industrial Irrigation
 Thermal Injection Other

(5) BORE HOLE CONSTRUCTION:

Special Construction approval Yes No Depth of Completed Well 47 ft.
Explosives used Yes No Type _____ Amount _____

HOLE			SEAL			Amount sacks or pounds
Diameter	From	To	Material	From	To	
9	0	20	Cement	20	0	0
7	20	47				

How was seal placed: Method A B C D E
 Other

Backfill placed from _____ ft. to _____ ft. Material _____
Gravel placed from 20 ft. to 47 ft. Size of gravel pea gravel

(6) CASING/LINER:

Casing:	Diameter	From	To	Gauge	Material			
					Steel	Plastic	Welded	Threaded
	<u>4 1/2</u>	<u>12</u>	<u>27</u>	<u>SM 20</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liner:					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Final location of shoe(s)

(7) PERFORATIONS/SCREENS:

Perforations Method _____
 Screens Type Hydrophillic Material pure

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
<u>27</u>	<u>47</u>	<u>10/10</u>		<u>4 1/2</u>	<u>4 1/2</u>	<input type="checkbox"/>	<input type="checkbox"/>

(8) WELL TESTS: Minimum testing time is 1 hour

Pump Bailer Air Flowing Artesian
Yield gal/min _____ Drawdown _____ Drill stem at _____ Time _____

<u>15</u>		<u>47</u>	<u>1 hr.</u>
-----------	--	-----------	--------------

Temperature of Water 52° Depth Artesian Flow Found _____

Was a water analysis done? Yes By whom _____

Did any strata contain water not suitable for intended use? Too little
 Salty Muddy Odor Colored Other _____

Depth of strata: _____

(9) LOCATION OF WELL by legal description:

County COOS Latitude _____ Longitude _____
Township 22 N or S Range 14 E or W WM.
Section 17 SW 1/4 NE 1/4
Tax Lot 1500 Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) 2303 Tokyo Rd

(10) STATIC WATER LEVEL:

21 ft. below land surface. Date 4/14/93
Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:

Depth at which water was first found 12'

From	To	Estimated Flow Rate	SWL
<u>24</u>	<u>47</u>	<u>15 gpm</u>	<u>21</u>

(12) WELL LOG:

Ground elevation _____

Material	From	To	SWL
<u>Brown sandy clay</u>	<u>0</u>	<u>24</u>	
<u>Brown sand</u>	<u>24</u>	<u>47</u>	

Date started 4-7-93 Completed 4/9/93

(unbonded) Water Well Constructor Certification:

I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.

WWC Number _____
Signed _____ Date _____

(bonded) Water Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 1361
Signed [Signature] Date 5/5/93

COOS
51649

27-14-29

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765)

WELL I.D. # 34030

START CARD # 111544

Instructions for completing this report are on the last page of this form.

(1) OWNER: Well Number 711
Name Bardon Dunks
Address 57744 Round Lake Drive
City Bardon State OR Zip 97411

(2) TYPE OF WORK
 New Well Deepening Alteration (repair/recondition) Abandonment

(3) DRILL METHOD:
 Rotary Air Rotary Mud Cable Auger
 Other

(4) PROPOSED USE:
 Domestic Community Industrial Irrigation
 Thermal Injection Livestock Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval Yes No Depth of Completed Well 96' 8"
Explosives used Yes No Type TOC Amount 700

HOLE			SEAL			Sacks or pounds
Diameter	From	To	Material	From	To	
15"	0	97	Bentonite	0	40	37 SX
6"	97	185	Cement	100	185	15 SX

How was seal placed: Method A B C D E
 Other Bentonite Poured from surface
Backfill placed from 40 ft. to 96 ft. Material 3/8X6
Gravel placed from 40 ft. to 96 ft. Size of gravel 3/8X6

(6) CASING/LINER:

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing: 10"	+1	66.5	1.250	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10"	86.6	96.8	1.250	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(Tail Pipe)				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Liner:				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Final location of shot(s)
(7) PERFORATIONS/SCREENS:
 Perforations Method Attached to casing
 Screens Type Johnson V-wire Material 55
From 66.5 To 86.6 Slot size 130 High Flow 10" Tele/pipe size 10" Casing Liner
RECEIVED
JUN 29 2000

(8) WELL TESTS: Minimum testing time is 1 hour
WATER RESOURCES DEPT SALEM, OREGON
 Pump Bailor Air
Yield gal/min 225 Drawdown 10' Drill stem at 84 Time 1 hr.
224 14.6 84 14 1/2 hrs

Temperature of water 51° Depth Artesian Flow Found _____
Was a water analysis done? Yes By whom _____
Did any strata contain water not suitable for intended use? Too little
 Salty Muddy Odor Colored Other _____
Depth of strata: _____

(9) LOCATION OF WELL by legal description:
County Coos Latitude _____ Longitude _____
Township 27 N or S Range 14 E or W. WM.
Section 29 SE 1/4 NW 1/4
Tax Lot 400 Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) 57744 Round Lake Dr. #2 Bardon OR 97411

(10) STATIC WATER LEVEL:
21'6" ft. below land surface. Date 6/23/00
Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:
Depth at which water was first found 8'

From	To	Estimated Flow Rate	SWL
8	28	10	8'
33	85	+/- 900	21'6"
126	130	50	89
143	144	?	?
178	179	?	?

(12) WELL LOG:
Ground Elevation +/- 100'

Material	From	To	SWL
Sandy top soil	0	1	
Sand Fine brown	1	12	8'
Sand Fine dark brown	12	28	
Wood w/ cemented sand	28	33	
Fine-med brown			
Sand Fine-med brown	33	45	21'6"
Sand Fine-med brn w/	45	52	
Sandy Clay lenses white to orange and cemented black sand			
Gravel Fine-med w/ sand	52	55	
CRS-Fine brown			
Gravel Fine-med w/ sand	55	65	
CRS-Fine Orange brown			
Gravel med-Fine w/ sand	65	72	
CRS-Fine Gray brown			
Gravel CRS-Fine w/ sand	72	85	
CRS-Fine Gray			
Clay Gray	85	90	
Silty Clay Gray Green	90	100	

Continued on Pg 2

Date started 5/26/00 Completed 6/27/00

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

WVC Number _____
Signed Bardon Well + Septic Co inc Date _____

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.

WVC Number 1493
Signed Jim Mackel. Moore Date 6/28/00

COOS
51649

27-14-29

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765)

WELL I.D. # 34030
START CARD # 111544

Instructions for completing this report are on the last page of this form.

pg. 2

(1) OWNER: Well Number 711
Name Bandon Jones
Address 57444 ROUND LAKE DRIVE
City BANDON State OR Zip 97444

(2) TYPE OF WORK
 New Well Deepening Alteration (repair/recondition) Abandonment

(3) DRILL METHOD:
 Rotary Air Rotary Mud Cable Auger
 Other

(4) PROPOSED USE:
 Domestic Community Industrial Irrigation
 Thermal Injection Livestock Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval Yes No Depth of Completed Well _____ ft.
Explosives used Yes No Type _____ Amount _____

HOLE SEAL

Diameter	From	To	Material	From	To	Sacks or pounds

How was seal placed: Method A B C D E
 Other
Backfill placed from _____ ft. to _____ ft. Material _____
Gravel placed from _____ ft. to _____ ft. Size of gravel _____

(6) CASING/LINER:

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Liner:				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Final location of shoe(s) _____

(7) PERFORATIONS/SCREENS:

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>

RECEIVED

JUN 29 2000

(8) WELL TESTS: Minimum testing time is 1 hour
 Pump Bailor Air
Yield gal/min _____ Drawdown _____ Drill stem at _____ Time _____ 1 hr.

Temperature of water _____ Depth Artesian Flow Found _____
Was a water analysis done? Yes By whom _____
Did any strata contain water not suitable for intended use? Too little
 Salty Muddy Odor Colored Other _____
Depth of strata: _____

(9) LOCATION OF WELL by legal description:
County COOS Latitude _____ Longitude _____
Township 27 N of S Range 14 E of W. WM.
Section 29 3C 1/4 NW 1/4
Tax Lot 400 Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) 57444 ROUND LAKE DR. BANDON OR 97411

(10) STATIC WATER LEVEL:
_____ ft. below land surface. Date _____
Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:
Depth at which water was first found _____

From	To	Estimated Flow Rate	SWL

(12) WELL LOG:
Ground Elevation _____

Material	From	To	SWL
Clay Gray soft sticky	100	105	
Clay Green Gray w/wood	105	110	
Silty Clay Gray w/wood	110	121	
Sandy Clay Gray w/Fine	121	126	
- med Gravel + wood			
Gravel CRS - Fine Gray	126	130	89
Gravel CRS - Fine Gray w/wood	130	131	
Sandy Clay Gray brn w/	131	138	
Gravel CRS - Fine + Sand Gray			
Silty Clay Gray	138	143	
Gravel med - Fine Gray	143	144	?
Silty Clay Gray	144	163	
Silty Clay Gray w/shell	163	171	
+ Gravel med - Fine Gray			
Silty Clay Gray w/shell	171	178	
Gravel med - Fine Gray	178	179	?
Sandstone Green	179	180	
Claystone Gray	180	185	

Date started 5-26-00 Completed 6-27-00

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

Signed Bandon Jones & Service Inc WWC Number _____ Date _____

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.
Signed _____ WWC Number _____ Date _____

STATE OF OREGON
 WATER WELL REPORT WATER RESOURCES DEPT. 743
 (as required by ORS 537.765) SALEM, OREGON

JUN 10 1993

COOS 743

27S/14W/206d
 (START CARD) # 50997

(1) OWNER: Well Number _____
 Name Fred Gassner
 Address 96445 Whiskey Run Rd
 City Bandon State OR Zip 97439

(2) TYPE OF WORK:
 New Well Deepen Recondition Abandon

(3) DRILL METHOD:
 Rotary Air Rotary Mud Cable
 Other _____

(4) PROPOSED USE:
 Domestic Community Industrial Irrigation
 Thermal Injection Other _____

(5) BORE HOLE CONSTRUCTION:
 Special Construction approval Yes No Depth of Completed Well 66 ft.
 Explosives used Yes No Type _____ Amount _____

HOLE Diameter	From		Material	SEAL From		To	Amount sacks or pounds
	To	To		To	To		
7 1/2	0	20	Bent	20	0	12	
7 1/2	20	66					

How was seal placed: Method A B C D E
 Other _____
 Backfill placed from _____ ft. to _____ ft. Material _____
 Gravel placed from 20 ft. to 66 ft. Size of gravel PER GRAVEL

(6) CASING/LINER:

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing: <u>4 1/2</u>	<u>+2</u>	<u>45</u>	<u>SDR 26</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liner:				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Final location of shoe(s) _____

(7) PERFORATIONS/SCREENS:

Perforations Method _____
 Screens Type Hydrophilic Material P.W.C.

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
<u>45</u>	<u>66</u>	<u>10/10</u>		<u>4 1/2</u>		<input type="checkbox"/>	<input type="checkbox"/>

(8) WELL TESTS: Minimum testing time is 1 hour

Pump Bailer Air Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
<u>8</u>		<u>66</u>	<u>1 hr.</u>

Temperature of Water 52° Depth Artesian Flow Found _____
 Was a water analysis done? Yes By whom _____
 Did any strata contain water not suitable for intended use? Too little
 Salty Muddy Odor Colored Other _____
 Depth of strata: _____

(9) LOCATION OF WELL by legal description:
 County COOS Latitude _____ Longitude _____
 Township 27 N of 14 Range 14 E of 20 WM.
 Section 20 SE 1/4 NW 1/4
 Tax Lot 54-01 Lot _____ Block _____ Subdivision _____
 Street Address of Well (or nearest address) 96445 Whiskey Run

(10) STATIC WATER LEVEL:
41 ft. below land surface. Date 6/3/93
 Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:

Depth at which water was first found 41

From	To	Estimated Flow Rate	SWL
<u>41</u>	<u>66</u>	<u>8 gpm</u>	<u>41</u>

(12) WELL LOG:

Ground elevation _____

Material	From	To	SWL
<u>TOP SOIL</u>	<u>0</u>	<u>1</u>	
<u>Brown sand/cloy</u>	<u>1</u>	<u>41</u>	
<u>Brown sand</u>	<u>41</u>	<u>66</u>	<u>41</u>

Date started 6/2/93 Completed 6/3/93

(unbonded) Water Well Constructor Certification:
 I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.

Signed _____ WWC Number _____
 Date _____

(bonded) Water Well Constructor Certification:
 I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.

Signed Man Gassner WWC Number 1281
 Date 6/3/93

STATE OF OREGON
 WATER SUPPLY WELL REPORT
 (as required by ORS 537.765)

WELL I.D. # L 39987
 START CARD # 130605

Instructions for completing this report are on the last page of this form.

(1) OWNER: Well Number _____
 Name Charles Moreland
 Address 89448 Tokyo Lane
 City Bandon State OR Zip 97414

(2) TYPE OF WORK
 New Well Deepening Alteration (repair/recondition) Abandonment

(3) DRILL METHOD:
 Rotary Air Rotary Mud Cable Auger
 Other

(4) PROPOSED USE:
 Domestic Community Industrial Irrigation
 Thermal Injection Livestock Other

(5) BORE HOLE CONSTRUCTION:
 Special Construction approval Yes No Depth of Completed Well 21 ft.
 Explosives used Yes No Type _____ Amount _____

HOLE SEAL

Diameter	From	To	Material	From	To	Sacks or pounds
10	0	21	Bent	0	25	75

How was seal placed: Method A B C D E
 Other Poured
 Backfill placed from _____ ft. to _____ ft. Material _____
 Gravel placed from 21 ft. to 25 ft. Size of gravel pee

(6) CASING/LINER:

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing: 5"	0	21	65	5000	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6"	0	4	42	58	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(Protective Casing)							
Liner:							

Final location of shoe(s) _____

(7) PERFORATIONS/SCREENS:

Perforations Method _____
 Screens Type COOK Material Stainless Steel

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
20	65	10/10		5	5	<input type="checkbox"/>	<input type="checkbox"/>

(8) WELL TESTS: Minimum testing time is 1 hour

Yield gal/min	Drawdown	Drill stem at	Flowing Artesian	Time
5	Total		<input type="checkbox"/>	1 hr.

Temperature of water 52° Depth Artesian Flow Found _____
 Was a water analysis done? Yes By whom _____
 Did any strata contain water not suitable for intended use? Too little
 Salty Muddy Odor Colored Other _____
 Depth of strata: _____

(9) LOCATION OF WELL by legal description:
 County COOS Latitude _____ Longitude _____
 Township 27 N or S Range 14 E or W WM.
 Section 17 SW 1/4 SW 1/4
 Tax Lot 1100 Lot _____ Block _____ Subdivision _____
 Street Address of Well (or nearest address) Next to 89448 Tokyo Lane

(10) STATIC WATER LEVEL:
56 ft. below land surface. Date 2-03-01
 Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:
 Depth at which water was first found 56

From	To	Estimated Flow Rate	SWL
56	20	5 gpm	56

(12) WELL LOG:
 Ground Elevation _____

Material	From	To	SWL
Black Peat	0	1	
Fine Brown Sand	1	25	
Fine med Brown Sand	25	70	
Blue (org) marine Rock	70	71	56

RECEIVED

MAR 13 2001

WATER RESOURCES DEPT.
 SALEM, OREGON

Date started 2-01-01 Completed 2-03-01
 (unbonded) Water Well Constructor Certification:

I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

WWC Number _____
 Signed _____ Date _____

(bonded) Water Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 1391
 Signed Bm Baum Date 2-29-01

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report
are to be filed with the

WATER WELL REPORT

STATE OF OREGON,
(Please type or print)

GOOS
003369

State Well No. 275/14W-20ad
State Permit No. _____

WATER RESOURCES DEPARTMENT
SALEM, OREGON 97310
within 30 days from the date
of well completion.

(Do not write above this line)

(1) OWNER:

Name Frank Watkins

Address P.O. Box 1317
Bandon, Ore. 97411

(2) TYPE OF WORK (check):

New Well Deepening Reconditioning Abandon

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Driven
Jetted
Bored

(4) PROPOSED USE (check):

Domestic Industrial Municipal
Irrigation Test Well Other

(5) CASING INSTALLED:

Threaded Welded
6" Diam. from 0 ft. to 52'-10" ft. Gage # 250
" Diam. from _____ ft. to _____ ft. Gage _____
" Diam. from _____ ft. to _____ ft. Gage _____

(6) PERFORATIONS:

Perforated? Yes No.

Type of perforator used _____

Size of perforations _____ in. by _____ in.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.

(7) SCREENS:

Well screen installed? Yes No

Manufacturer's Name Johnson
Type Stainless steel Model No. telescope
Diam. 6 Slot size .008 Set from 52 ft. to 56'-4" ft.
Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.

(8) WELL TESTS:

Drawdown is amount water level is
lowered below static level

Is a pump test made? Yes No If yes, by whom?

Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.

_____ per test 30 gal./min. with 12 ft. drawdown after 1 hrs.

_____ artesian flow _____ g.p.m.

Temperature of water 52 Depth artesian flow encountered _____ ft.

(9) CONSTRUCTION:

Well seal—Material used Cement

Well sealed from land surface to 18 ft.

Diameter of well bore to bottom of seal 10 in.

Diameter of well bore below seal 6 in.

Number of sacks of cement used in well seal 15 sacks

How was cement grout placed? Pumped via tremie pipe

Was a drive shoe used? Yes No Plugs _____ Size: location _____ ft.

Did any strata contain unusable water? Yes No

Type of water? _____ depth of strata _____

Method of sealing strata off _____

Was well gravel packed? Yes No Size of gravel: _____

Gravel placed from _____ ft. to _____ ft.

(10) LOCATION OF WELL:

County GOOS Driller's well number _____

SE 1/4 NE 1/4 Section 20 T. 27s R. 14w W.M.

Bearing and distance from section or subdivision corner

N 1/2 - E 1/2 - E 1/2 - SE 1/4 - NE 1/4 of sect 20

(11) WATER LEVEL: Completed well.

Depth at which water was first found 20 ft.

Static level 18 1/2 ft. below land surface. Date 12-21-79

Artesian pressure _____ lbs. per square inch. Date _____

(12) WELL LOG:

Diameter of well below casing 0

Depth drilled 56 1/2 ft. Depth of completed well 56 1/2 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	From	To	SWL
Sandy clay brown	0	1	
Sand cemented brown	1	3	
Sand fine tan	3	28	
Sand medium brown	28	35	
Sand coarse brown	35	56 1/2	
Claystone gray	56 1/2	---	

RECEIVED

JAN 14 1980

WATER RESOURCES DEPT.
SALEM, OREGON

Work started 12-20 19 79 Completed 12-21 19 79

Date well drilling machine moved off of well 12-22 19 79

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] Andrew W. Miller Date 1-10, 19 80
(Drilling Machine Operator)

Drilling Machine Operator's License No. 469

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name Bill Miller Well Drilling
(Person, firm or corporation) (Type or print)

Address Route 1, Box 1115 Bandon, Ore., 97411

[Signed] Andrew W. Miller
(Water Well Contractor)

Contractor's License No. 600 Date 1-10, 19 80

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 517.765)

COOS
51924

WELL I.D. # L 39986
START CARD # 130602

Instructions for completing this report are on the last page of this form.

(1) OWNER: Well Number _____
Name Stephen Lunt
Address P.O. Box 923
City Ashland State OR Zip 97202

(2) TYPE OF WORK
 New Well Deepening Alteration (repair/recondition) Abandonment

(3) DRILL METHOD:
 Rotary Air Rotary Mud Cable Auger
 Other

(4) PROPOSED USE:
 Domestic Community Industrial Irrigation
 Thermal Injection Livestock Other

(5) BOREHOLE CONSTRUCTION:
Special Construction approval Yes No Depth of Completed Well 36 ft.
Explosives used Yes No Type _____ Amount _____

HOLE		SEAL	
Diameter	From To	Material	From To
10	0 36"	Bent	20 0

How was seal placed: Method A B C D E
 Other rauced
Backfill placed from _____ ft. to _____ ft. Material _____
Gravel placed from 36" ft. to 20 ft. Size of gravel Per

(6) CASING/LINER:

Diameter	From To	Gauge	Steel	Plastic	Welded	Threaded
Casing: 5"	0 2	31	S&P 16	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liner: 6"	2 4	250		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Final location of shoe(s) _____

(7) PERFORATIONS/SCREENS:

Perforations Method _____
 Screens Type LOOK Material Stainless Steel

From	To	Slot size	Number	Diameter	Tube/pipe size	Casing	Clear
31	36	.010		5"	5	<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>

(8) WELL TESTS: Minimum testing time is 1 hour

Yield gal/min	Drawdown	Drill stem at	Flowing Time
1 1/2	Total	36 - AIR	1 hr.
1 1/2	Total	36 - pump	

Temperature of water 52.0 Depth Artesian Flow Found _____
Was a water analysis done? Yes By whom _____
Did any strata contain water not suitable for intended use? Too little
 Salty Muddy Odor Colored Other _____
Depth of strata: _____

(9) LOCATION OF WELL by legal description:
County COOS Latitude _____ Longitude _____
Township 27 N of 14 Range E of 14 W.M.
Section 17C SW 1/4 SW 1/4
Tax Lot 400 Block _____ Subdivision _____
Street Address of Well (or nearest address) next to 99258 Tokyo Lane

(10) STATIC WATER LEVEL:
30 ft. below land surface. Date 1-30-07
Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:
Depth at which water was first found 30

From	To	Estimated Flow Rate	SWL
30	36	1 1/2 gpm	30

(12) WELL LOG:
Ground Elevation _____

Material	From	To	SWL
Top soil	0	1	
Brown sandy clay mix	1	13	
Brown sand fine	13	17	
Red Brown sand & clay	17	20	
Brown sand	20	36	
Peat	36	36 1/2	
Grey clay with peat	36 1/2		

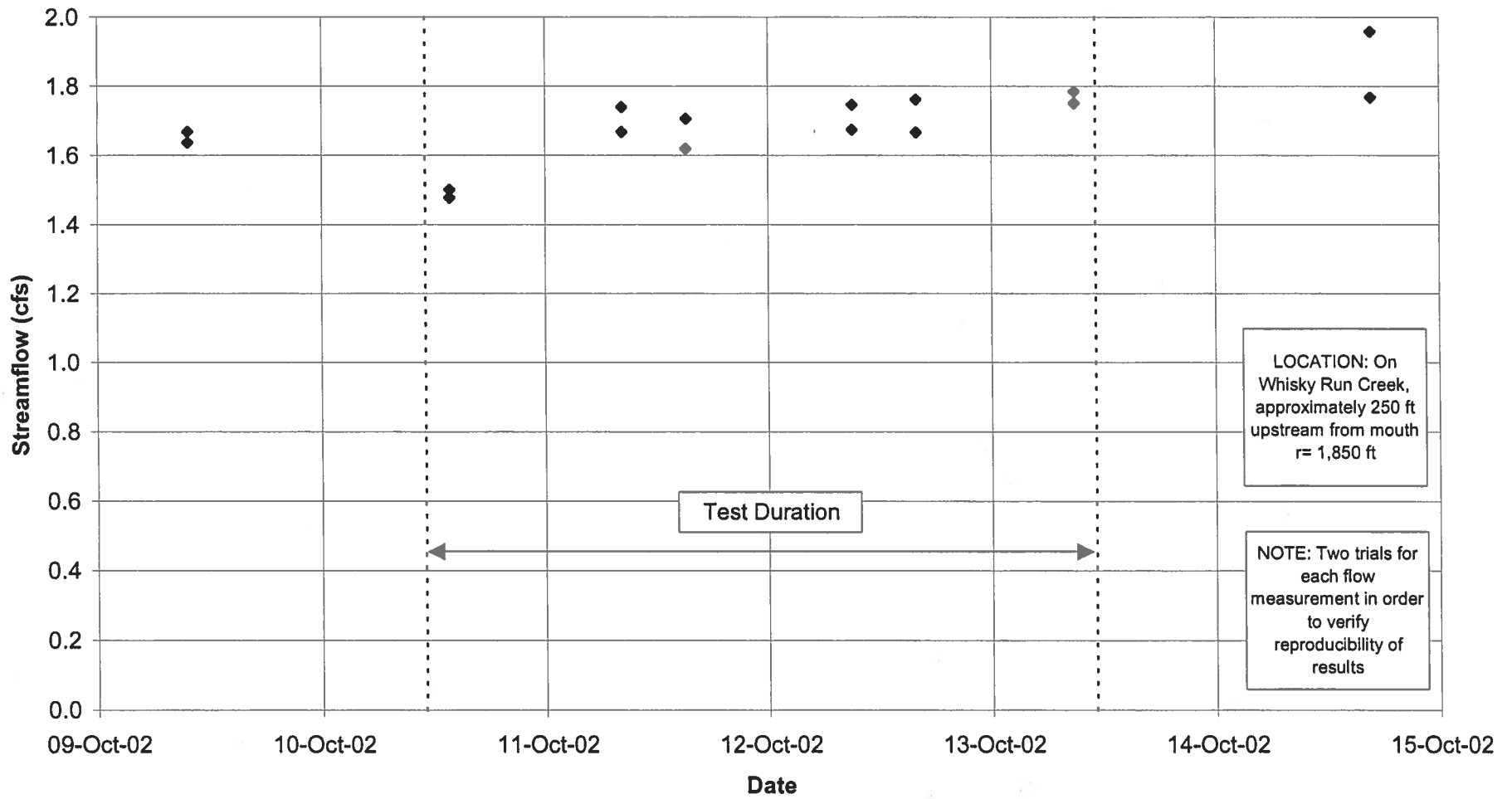
Date started 1-30-07 Completed 1-31-07

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.
WWC Number _____
Signed _____ Date _____

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.
WWC Number 1391
Signed Tom Bunt Date 2-29-07

APPENDIX D

STREAMFLOW DATA

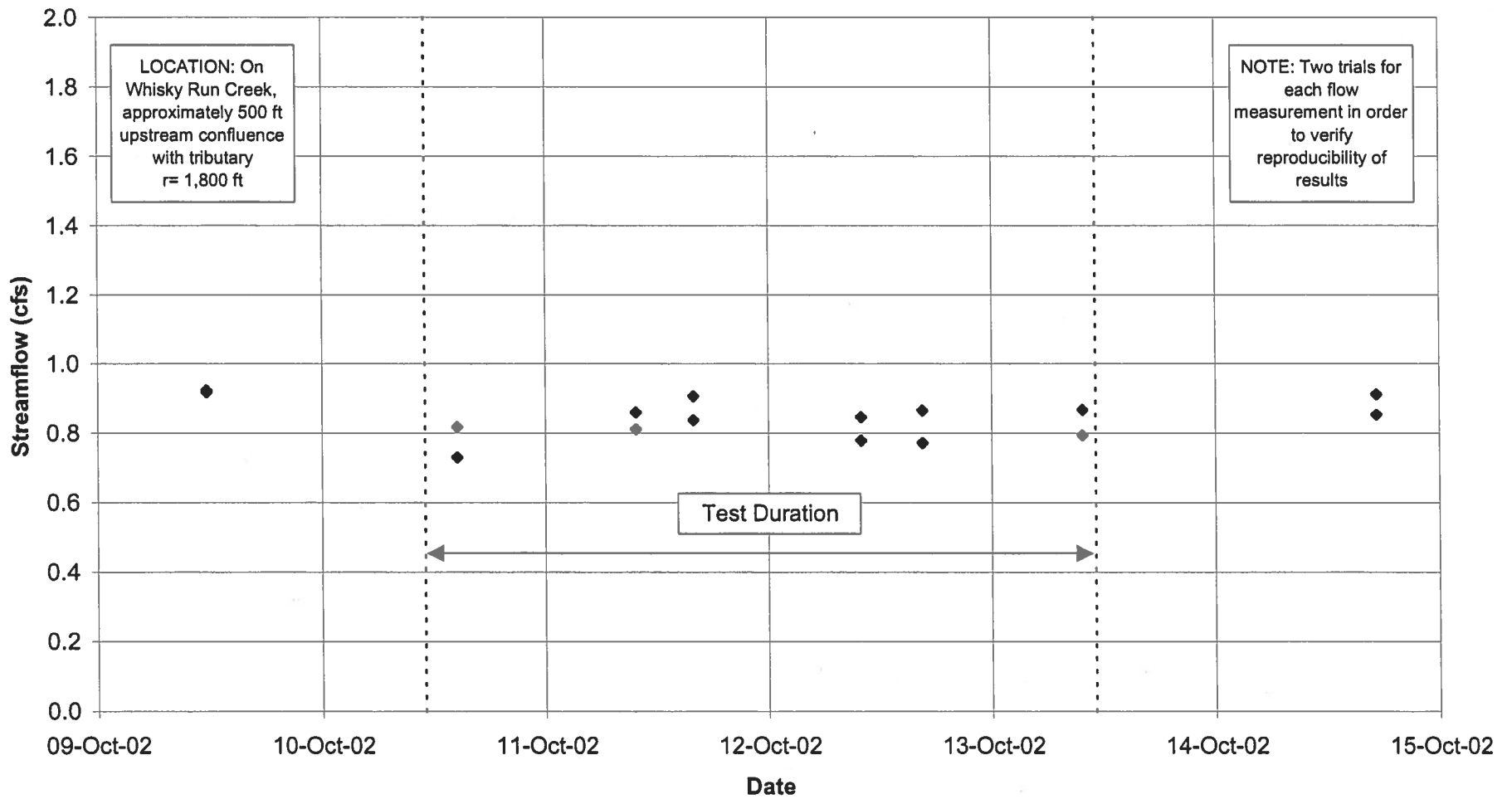


**Bally Bandon Sheep Ranch
Groundwater Services**

TITLE

Station A Flow Graph

DRAWN	TMW	DATE	Oct. 2002	JOB NO.	023-1206.002
CHECKED	MK	SCALE	na	DWG. NO.	na
REVIEWED	DB	FILE NO.	Bucket Flow Test.xls	FIGURE NO.	D-1

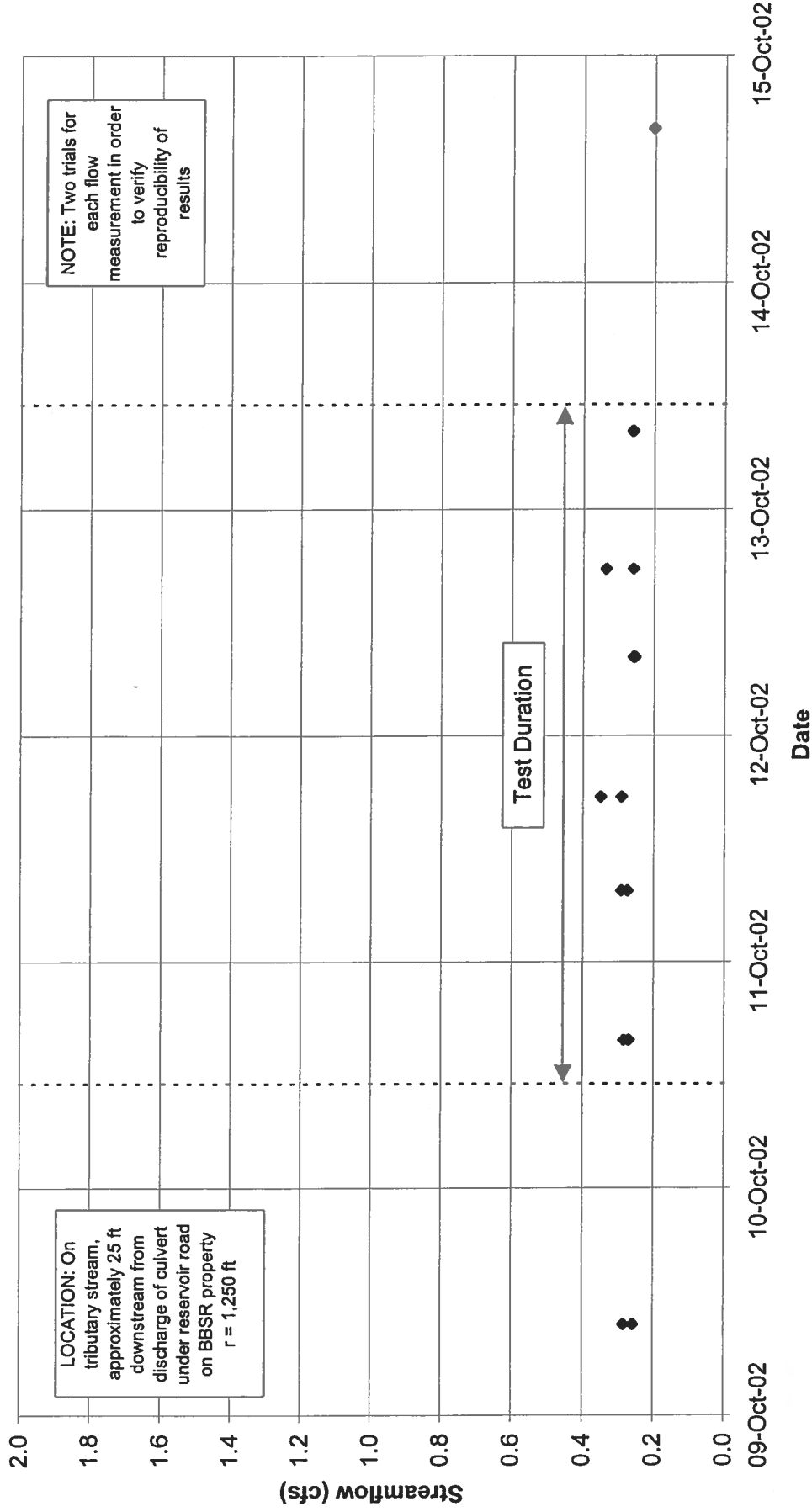


**Bally Bandon Sheep Ranch
Groundwater Services**

TITLE

Station B Flow Graph

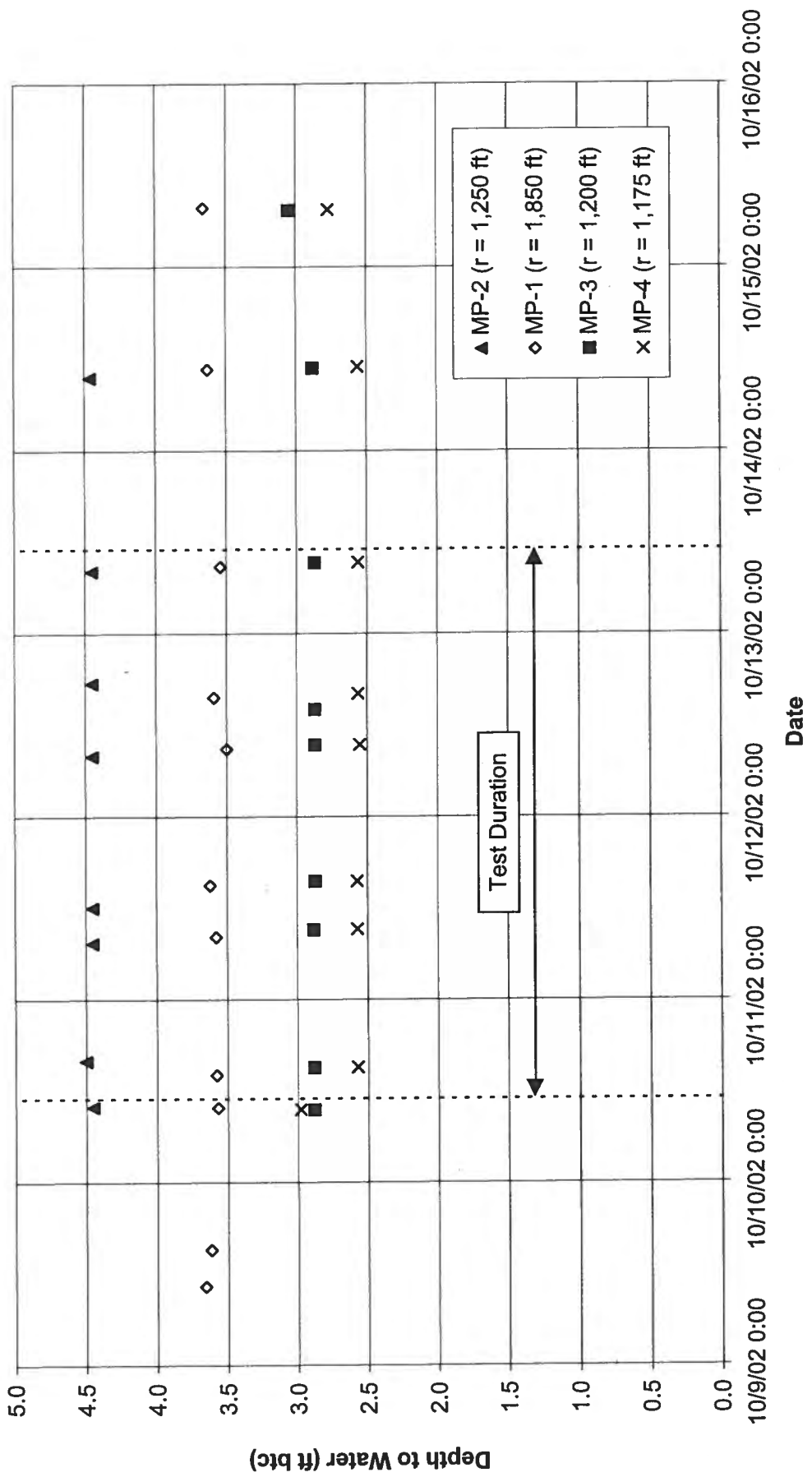
DRAWN	TMW	DATE	Oct. 2002	JOB NO.	023-1206.002
CHECKED	MK	SCALE	na	DWG. NO.	na
REVIEWED	DB	FILE NO.	Bucket Flow Test.xls	FIGURE NO.	D-2



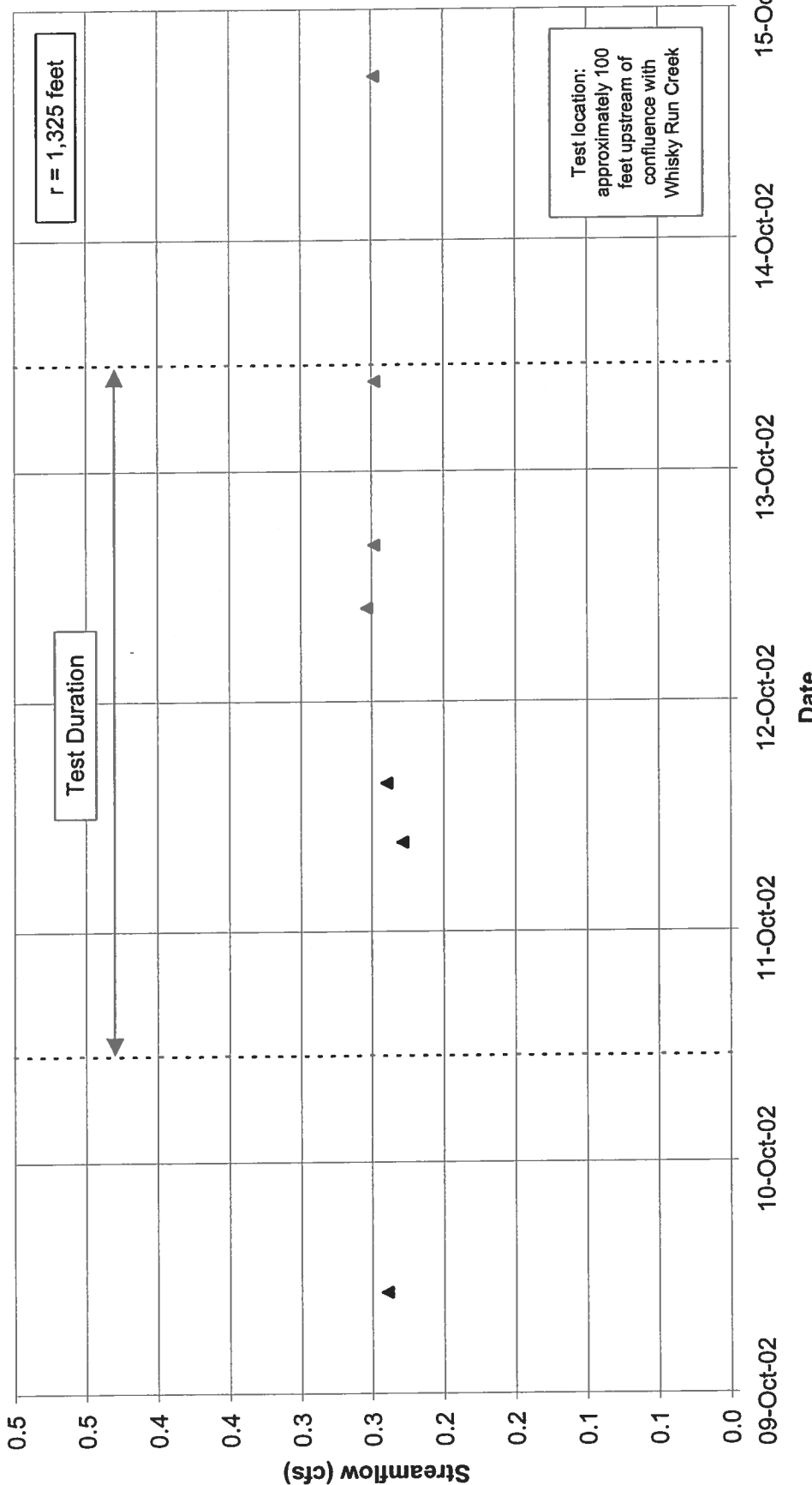
TITLE

Station C Flow Graph

Bally Bandon Sheep Ranch Groundwater Services	DRAWN	TMW	DATE	Oct. 2002	JOB NO.	023-1206.002
	CHECKED	MK	SCALE	na	DWG NO.	na
	REVIEWED	DB	FILE NO.	Bucket Flow Test.xls	FIGURE NO.	D-3



		Mini Piezometer Hydrographs			
		DRAWN: TMW CHECKED: MK REVIEWED: DB	DATE: Oct. 2002 SCALE: n FILE NO: BSR Constant Rate Test.xls	JOB NO.: 023-1206.002 DWG. NO.: na FIGURE NO.: D-4	
		Bally Bandon Sheep Ranch Groundwater Services			



Bally Bandon Sheep Ranch
Groundwater Services

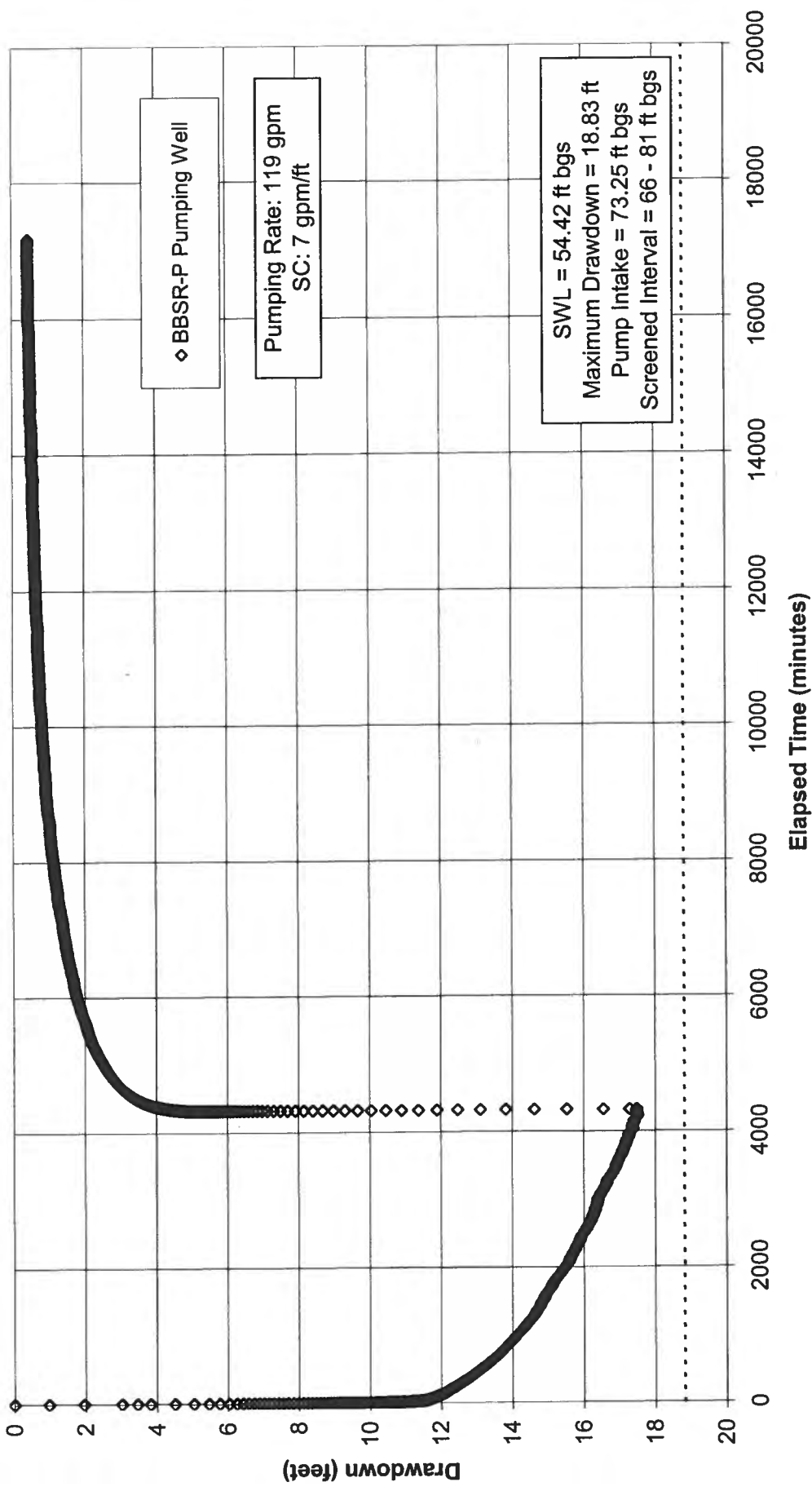
Bucket Flow Tests - Whisky Creek Tributary

TITLE		DATE		JOB NO.
Bally Bandon Sheep Ranch Groundwater Services		TMW	Oct. 2002	023-1206.002
CHECKED	SCALE	DWG. NO.		
MK	na	na		
REVIEWED	FILE NO.	FIGURE NO.		
DB	Bucket Flow Test.xls	D-5		

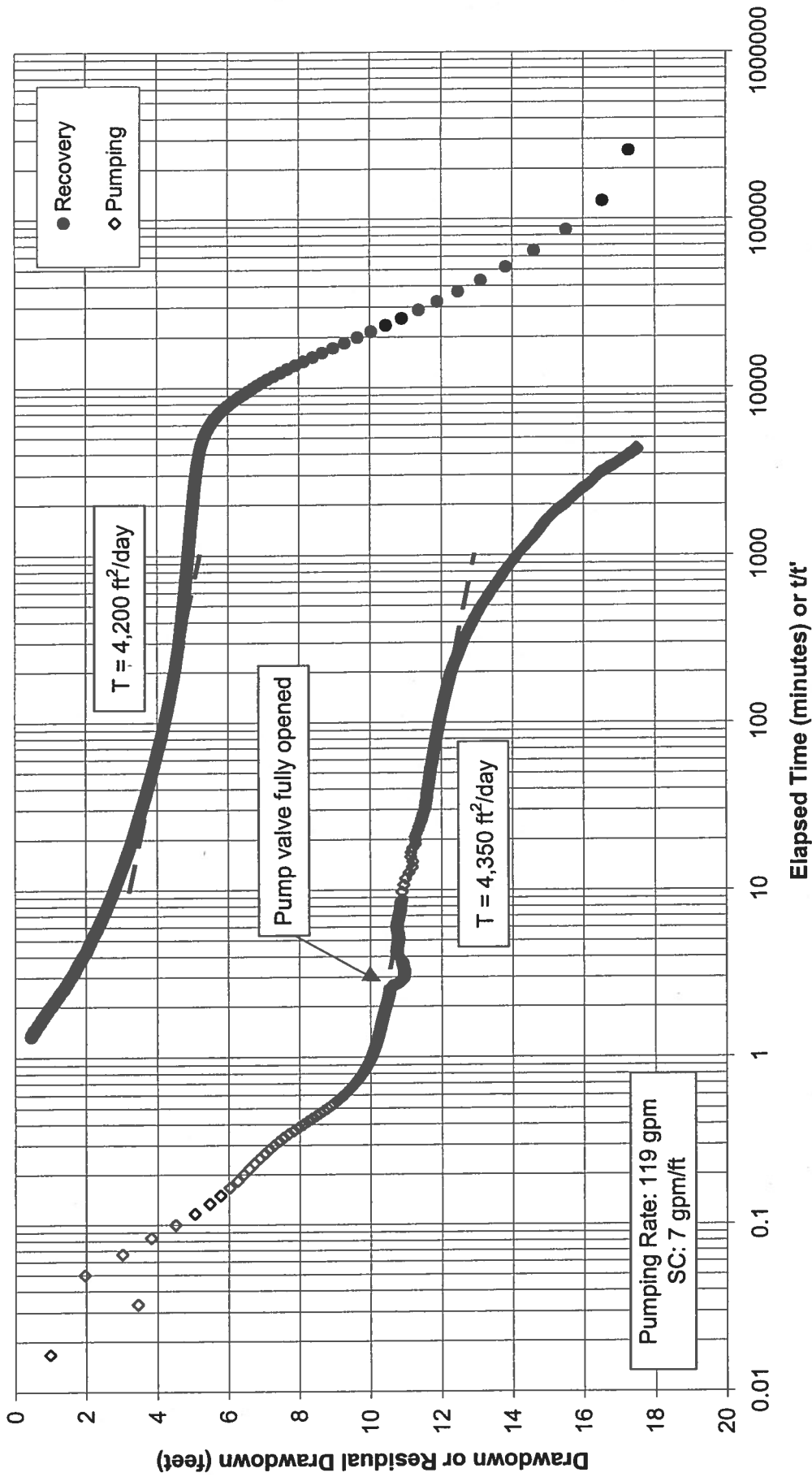
APPENDIX E

PUMPING TEST ANALYSIS

AND STREAM DEPLETION CALCULATION



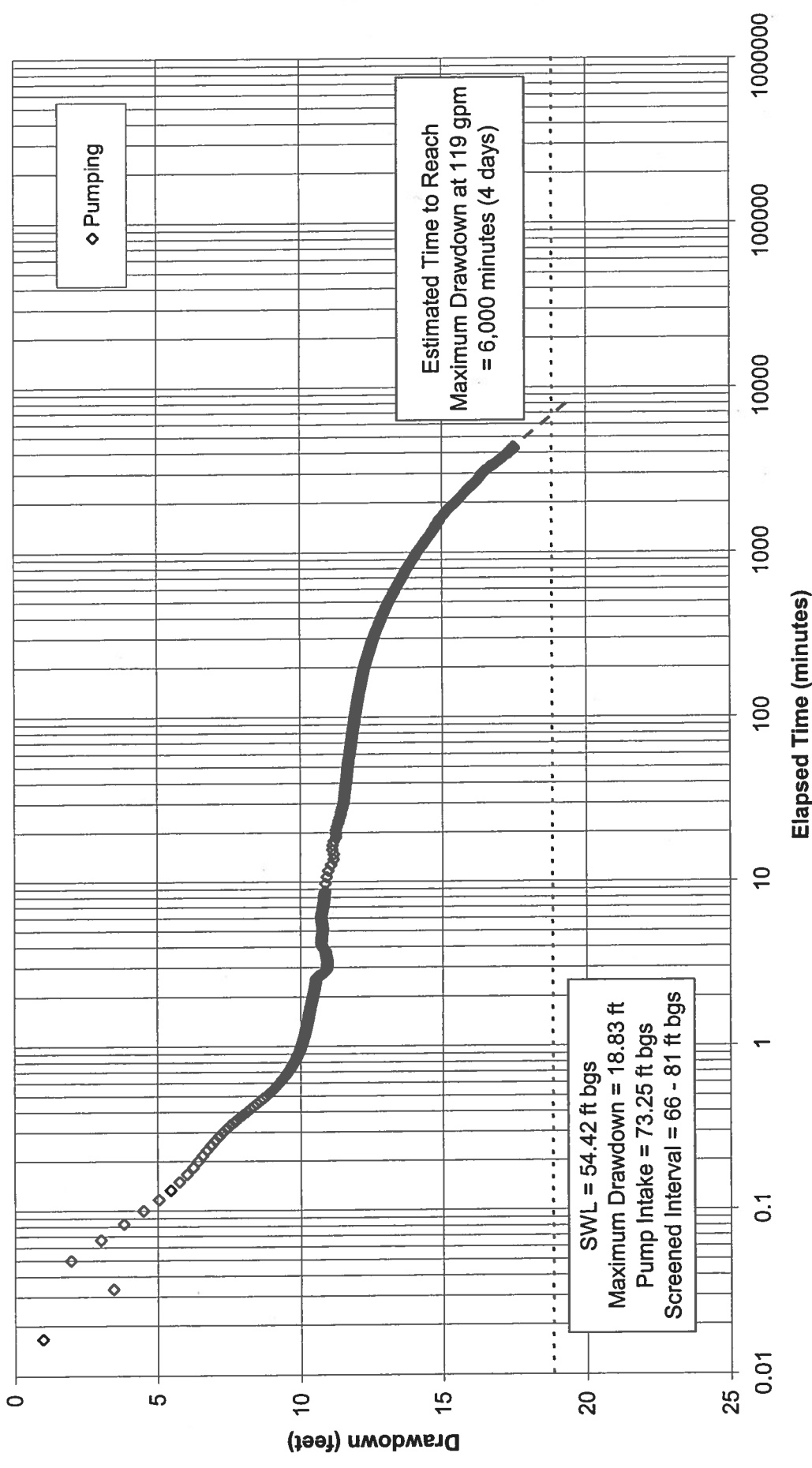
		Constant Rate Test - BBSR-P Hydrograph			
		DATE	Oct. 2002	JOB NO.	023-1206.002
DRAWN	TMW	SCALE	na	DWG NO.	na
CHECKED	MK	FILE NO.	BSR Constant Rate Test.xls		FIGURE NO.
REVIEWED	DB				E-1




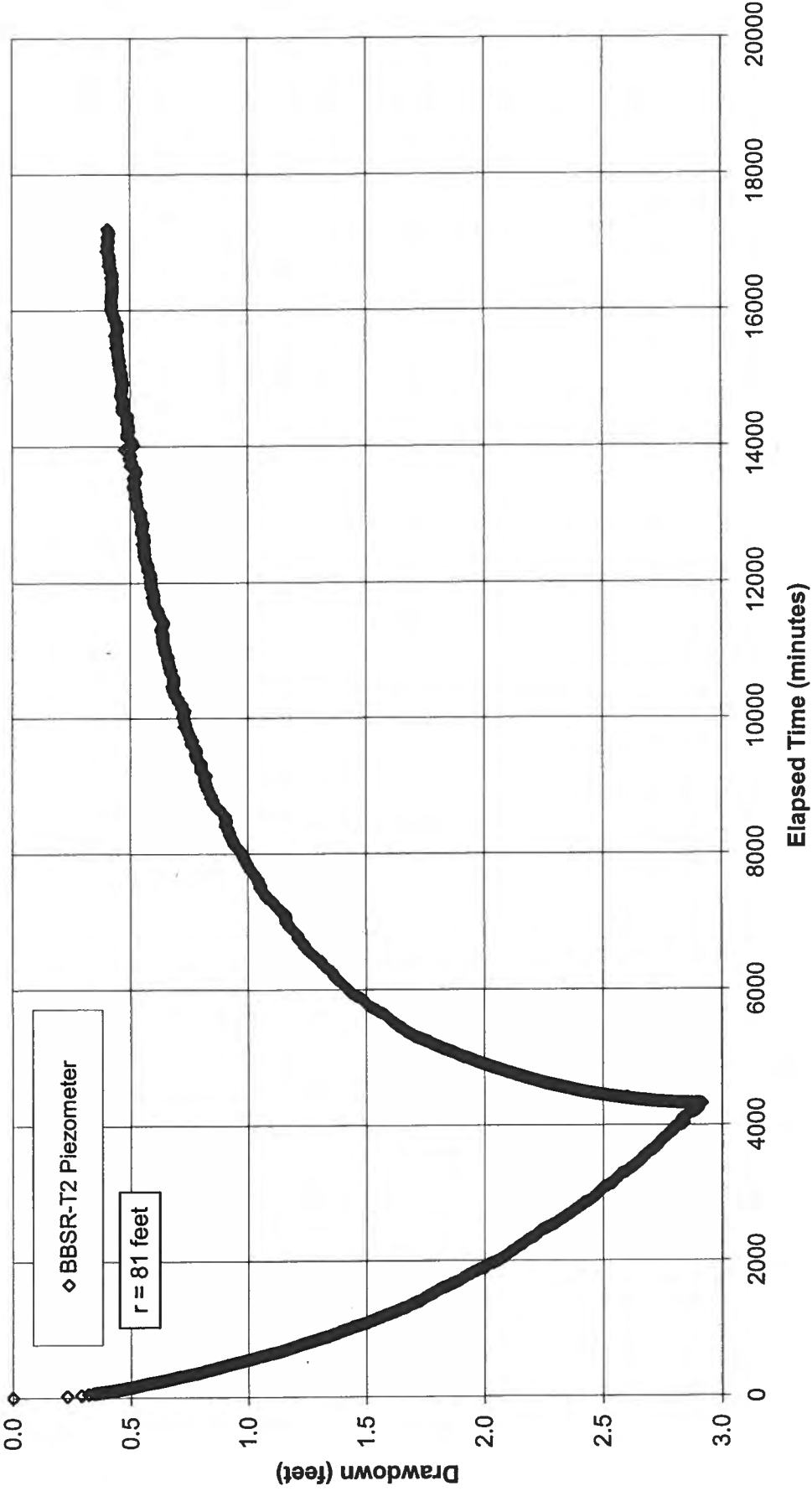
TITLE		Constant Rate Test - BBSR-P Semilog Hydrograph			
DRAWN	TMW	DATE	Oct. 2002	JOB NO.	023-1206.002
CHECKED	MK	SCALE	na	DWG. NO.	na
REVIEWED	DB	FILE NO.	BBSR Constant RateTest.xls	FIGURE NO.	E-2



**Bally Bandon Sheep Ranch
 Groundwater Services**



 Golder Associates		Bally Bandon Sheep Ranch Groundwater Services		Constant Rate Test - BBSR-P Drawdown Prediction		TITLE			
						DRAWN	TMW	DATE	JOB NO.
						CHECKED	MK	SCALE	DWG. NO.
REVIEWED	DB	FILE NO.	BSR Constant RateTest.xls	FIGURE NO.	E-3	023-1206.002	na		

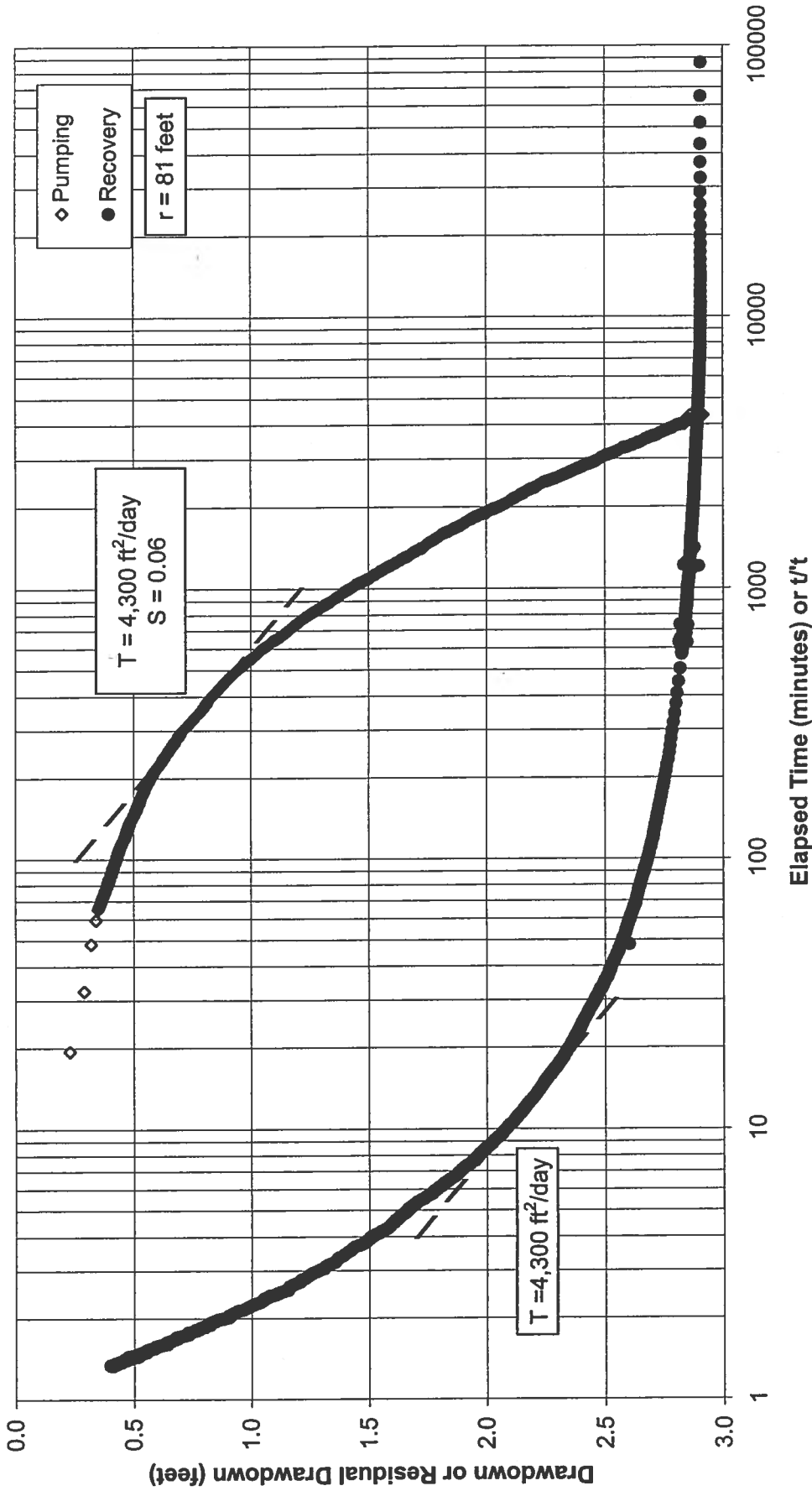


DRAWN		DATE	JOB NO.
TMW		Oct. 2002	023-1206.002
CHECKED		SCALE	DWG NO.
MK		na	na
REVIEWED		FILE NO.	FIGURE NO.
DB		BSR Constant Rate Test.xls	E-4



Bally Bandon Sheep Ranch
Groundwater Services

Constant Rate Test - BBSR-T2 Hydrograph



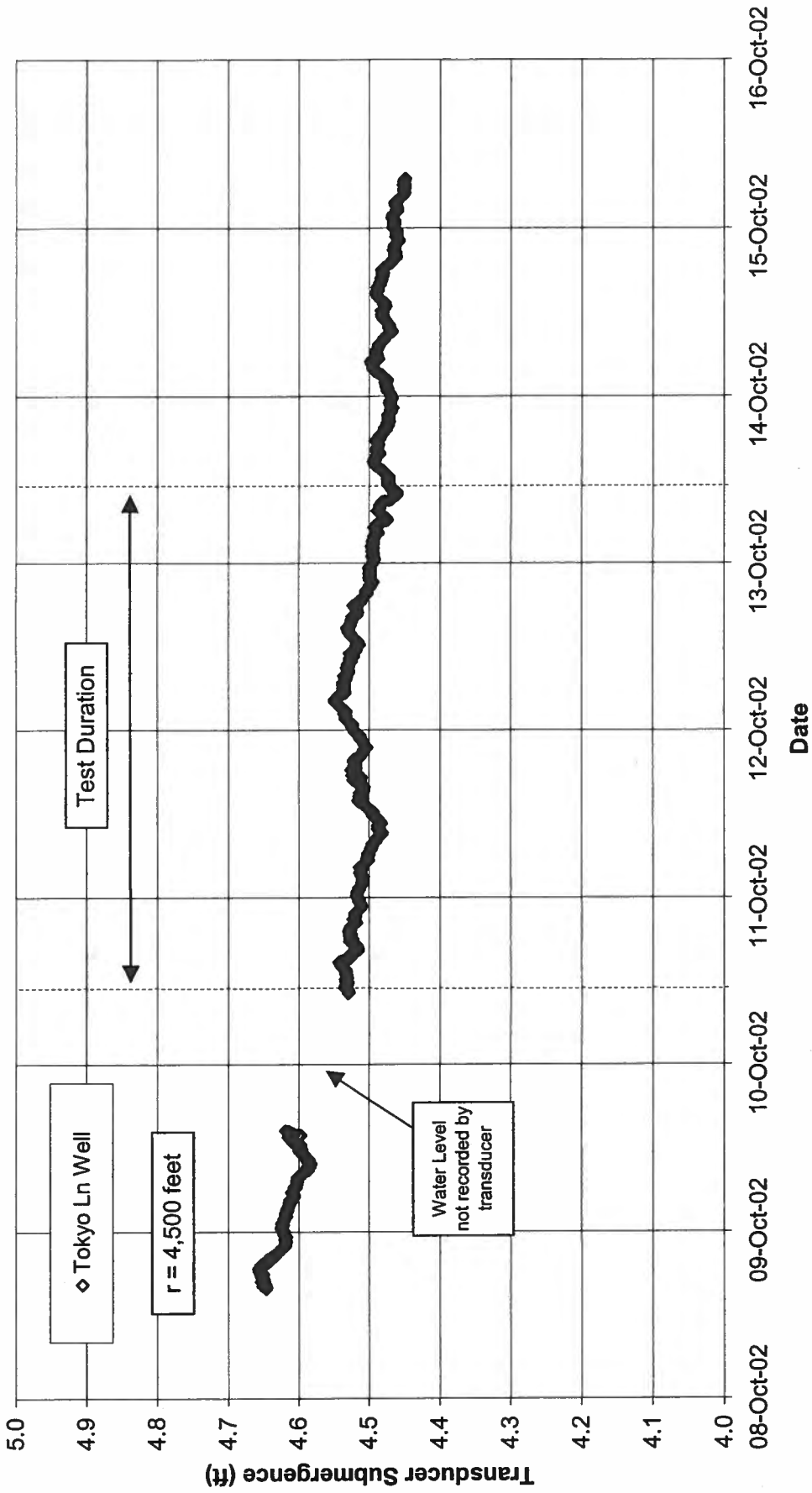
TITLE



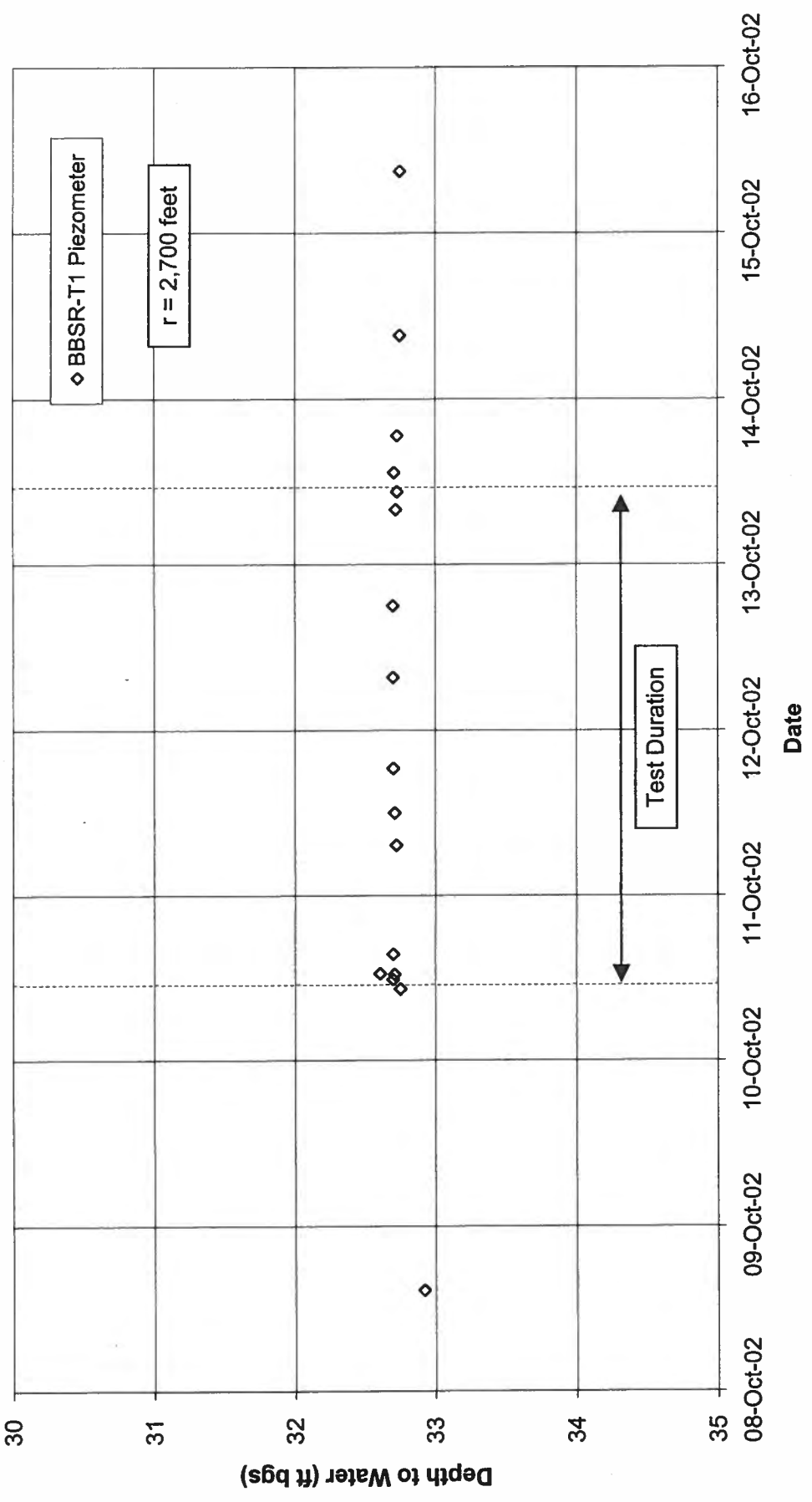
Bally Bandon Sheep Ranch
Groundwater Services

Constant Rate Test - BBSR-T2 Semilog Hydrograph

DRAWN	TMW	DATE	Oct. 2002	JOB NO.	023-1206.002
CHECKED	MK	SCALE	na	DWG NO.	na
REVIEWED	DB	FILE NO.	BBSR Constant Rate Test.xls	FIGURE NO.	E-5



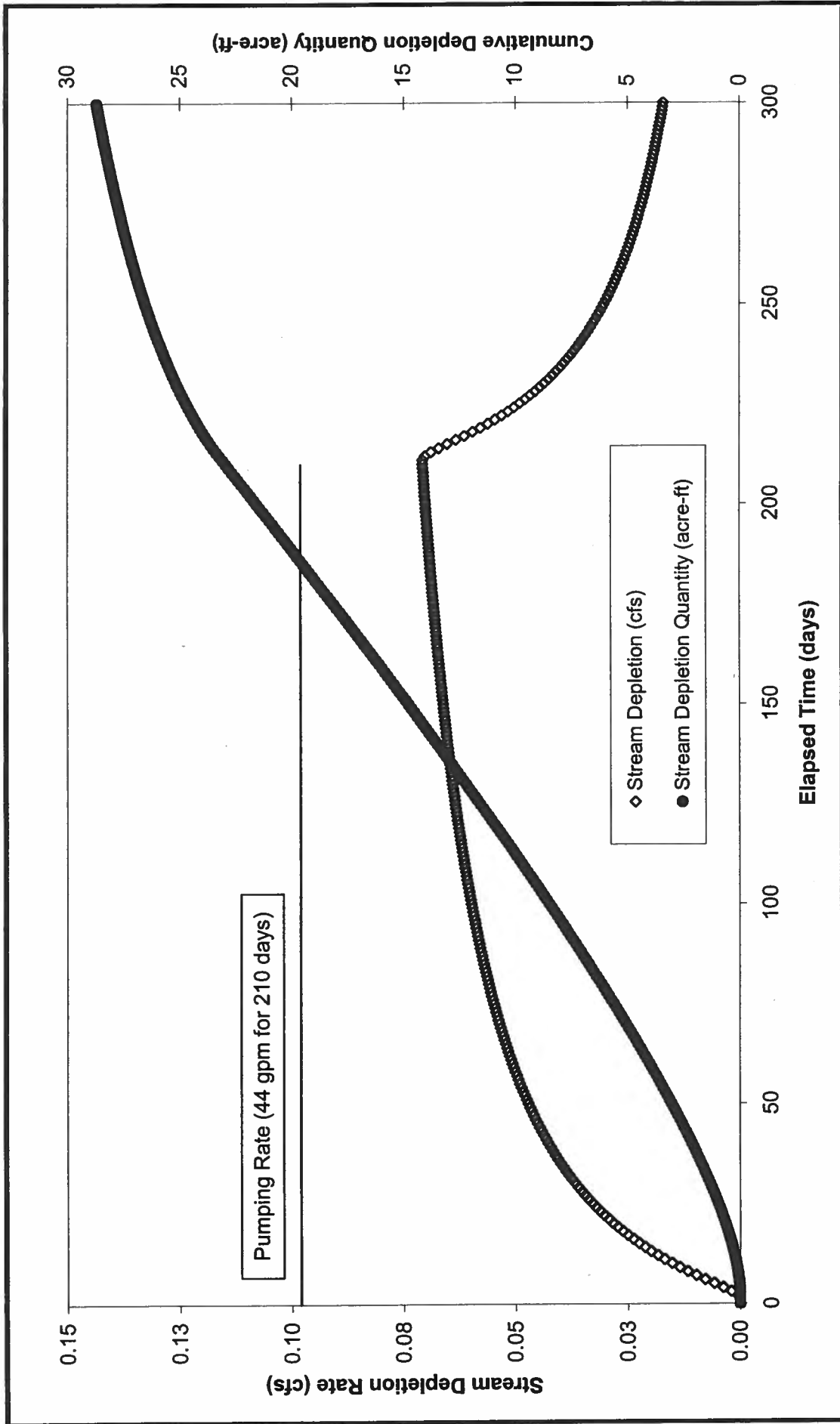
		Constant Rate Test - Tokyo Lane Well Hydrograph	
		TITLE	JOB NO. 023-1206.002
DRAWN TMW	DATE Oct. 2002	CHECKED MK	DWG. NO. na
REVIEWED DB	FILE NO. BSR Constant RateTest.xls	SCALE na	FIGURE NO. E-6




Bally Bandon Sheep Ranch
Groundwater Services

Constant Rate Test - BBSR-T1 Hydrograph

DRAWN		TMW	DATE	Oct. 2002	JOB NO.	023-1206.002	
CHECKED		MK	SCALE	na	DWG. NO.	na	
REVIEWED		DB	FILE NO.	BSR Constant Rate Test.xls		FIGURE NO.	E-7



 Golder Associates Bally Bandon Sheep Ranch Groundwater Services	BBSR-P Stream Depletion Estimate			
	DRAWN	DATE	JOB NO.	023-1206.002
	CHECKED	SCALE	DWG. NO.	na
	TMW	DB	FILE NO.	StreamDepletionAnalysis-Hunt.xls
	MK	DB	FIGURE NO.	E-8
	DB			



Oregon Water Resources Department Land Use Information Form

This information is needed to determine compatibility with local comprehensive plans as required by ORS 197.180. The Water Resources Department will use this and other information to evaluate the water use application. DO NOT fill out this form if water is to be diverted, conveyed, or used only on federal lands.

To Be Completed By Applicant

The following section includes information about proposed water use. This section must be completed by the individual or group that is filing an application for a water right with the Water Resources Department.

A. Applicant

Name: BALLY BANDON SHEEP RANCH

Address: P.O. Box 1756

City: BANDON State: OR Zip: 97411 Day Phone: 541-530-6839

B. Land and Location

Please provide information as requested below for all tax lots on or through which water will be diverted, conveyed, or used. Check "diverted" if water is diverted (taken) from its source on tax lot, "conveyed" if water is conveyed (transported) on tax lot, and "used" if water will be put to beneficial use on tax lot. More than one box may be checked. (Attach extra sheets as necessary.) Applicants for municipal use, or irrigation uses within irrigation districts, may substitute existing and proposed service area boundaries for the tax lot information requested below.

Tax Lot I.D.	Plan Designation (e.g. Rural Residential/RR-5)	Water to be: (check all that apply)		
<u>27-14-20</u> <u>100 + 400</u>	<u>Forest/Mixed Use</u>	<input checked="" type="checkbox"/> Diverted	<input checked="" type="checkbox"/> Conveyed	<input checked="" type="checkbox"/> Used
		<input type="checkbox"/> Diverted	<input type="checkbox"/> Conveyed	<input type="checkbox"/> Used
		<input type="checkbox"/> Diverted	<input type="checkbox"/> Conveyed	<input type="checkbox"/> Used

List counties and cities where water is proposed to be diverted, conveyed, or used. _____

C. Description of Water Use

Indicate what the water will be used for. Include the beneficial use (found in the instruction booklet for your water right application) and use the space below to describe the key characteristics of the project.

Beneficial Use(s): Turf & Pasture Irrigation

Briefly describe: IRRIGATION OF TURF & PASTURE AS TO MAINTAIN LIVING PLANTS

D. Source

Indicate the source for the proposed water use:

Reservoir/Pond Ground Water Surface Water _____ (source)

E. Quantity

Indicate the estimated quantity of water the use will require:

200 CFS GPM Acre-Feet

97-15697

For Local Government Use Only

The following section must be completed by a planning official from each county and city listed unless your project will be located entirely within the city limits. In this case, only the city planning agency must complete this form. Please request additional forms as needed or feel free to copy.

A. Allowed Use

Check the appropriate box below and provide requested information.

- Land uses to be served by proposed water uses (including proposed construction) are allowed outright or are not regulated by your comprehensive plan. Cite applicable ordinance section(s); 4.89 HBCU-00-01 Go to section B "Approval" below
- Land uses to be served by proposed water uses (including proposed construction) involve discretionary land use approvals as listed in the table below.

Type of Land Use Approval Needed (e.g. plan amendments, rezones, conditional use permits, etc.)	Cite Most Significant, Applicable Plan Policies & Ordinance Section References	Check the item that applies: Land Use Approval:	
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being pursued <input type="checkbox"/> Not being pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being pursued <input type="checkbox"/> Not being pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being pursued <input type="checkbox"/> Not being pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being pursued <input type="checkbox"/> Not being pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being pursued <input type="checkbox"/> Not being pursued

Note: Please attach documentation of applicable local land use approvals which have already been obtained. (Record of Action plus accompanying findings is sufficient.)

B. Approval

Please provide printed name and written signature.

Name: Staci Courtright Date: 1/8/02
 Title: Planner Phone: 390-3121 x210
 Signature: Staci Courtright

C. Additional Comments

Local governments are invited to express special land use concerns or make recommendations to the Department regarding this proposed use of water below, or on a separate sheet.

Note: If this form cannot be completed while the applicant waits, sign and detach the receipt stub as instructed below. You will have 30 days from the Water Resources Department's notice date to return the completed Land Use Information Form or WRD will presume the land use associated with the proposed water right is compatible with local comprehensive plans. (See attached letter.)

Receipt for Request for Land Use Information

3-15697

Name of water right applicant: Bally Banton Sheep Ranch

This receipt must be signed by a local government representative and returned to the applicant at the time they present this form. This receipt must be included in the application for a water right permit if the local government cannot provide the requested land use information while the applicant waits.

City or County: Coos
Staff contact: Staci Courtright Phone: 396-371x210
Signature: Staci Courtright Date: 1/8/02

**STATE OF OREGON
WATER RESOURCES DEPARTMENT**

RECEIPT # **50764**

158 12TH ST. N.E.
SALEM, OR 97310-0210
378-8455 / 378-8130 (FAX)

INVOICE # _____

RECEIVED FROM: Bally Bandon Sheep Ranch
BY: _____

APPLICATION	G15697
PERMIT	
TRANSFER	

CASH: CHECK: # 2-28 OTHER: (IDENTIFY)

TOTAL REC'D \$ 400.00

0417 WRD MISC CASH ACCT

ADJUDICATIONS _____ \$
PUBLICATIONS / MAPS _____ \$
OTHER: (IDENTIFY) _____ \$
OTHER: (IDENTIFY) _____ \$

**RECEIVED
OVER THE COUNTER**

REDUCTION OF EXPENSE

_____ CASH ACCT. \$
_____ VOUCHER # _____

0427 WRD OPERATING ACCT

MISCELLANEOUS

0407	COPY & TAPE FEES		\$
0410	RESEARCH FEES		\$
0408	MISC REVENUE: (IDENTIFY)	_____	\$
(New) TC162	DEPOSIT LIAB. (IDENTIFY)	_____	\$

WATER RIGHTS:

0201	SURFACE WATER	EXAM FEE \$	0202	RECORD FEE \$
0203	GROUND WATER	\$ <u>400.00</u>	0204	\$
0205	TRANSFER	\$	0206	\$

WELL CONSTRUCTION

0218	WELL DRILL CONSTRUCTOR	EXAM FEE \$	0219	\$
	LANDOWNER'S PERMIT		0220	\$
	OTHER (IDENTIFY) _____			

0437 WELL CONST. START FEE

0211	WELL CONST START FEE	\$	CARD #	
0210	MONITORING WELLS	\$	CARD #	
	OTHER (IDENTIFY) _____			

0539 LOTTERY PROCEEDS

1302 LOTTERY PROCEEDS \$

0467 HYDRO ACTIVITY

0233	POWER LICENSE FEE (FW/WRD)	LIC NUMBER	\$
0231	HYDRO LICENSE FEE (FW/WRD)		\$
	HRDRO APPLICATION		\$

RECEIPT # **50764**

DATED 2/04/02 BY: C. Vance

Distribution-White Copy-Customer, Yellow Copy-Fiscal, Blue Copy-File, Buff Copy-Fiscal

**STATE OF OREGON
WATER RESOURCES DEPARTMENT**

RECEIPT # **105573**

725 Summer St. N.E. Ste. 1A
SALEM, OR 97301-4172
(503) 986-0900 / (503) 986-0904 (fax)

INVOICE # _____

RECEIVED FROM: Billy Brindon Sheep Ranch
BY: _____

APPLICATION	615697
PERMIT	
TRANSFER	

CASH: CHECK # 3439 OTHER: (IDENTIFY)

TOTAL REC'D \$ 500.00

1083 TREASURY 4170 WRD MISC CASH ACCT

0407 COPIES	\$
OTHER: (IDENTIFY)	\$

0243 I/S Lease _____ 0244 Muni Water Mgmt. Plan _____ 0245 Cons. Water _____

4270 WRD OPERATING ACCT

MISCELLANEOUS			
0407 COPY & TAPE FEES	46111	\$	
0410 RESEARCH FEES		\$	
0408 MISC REVENUE (IDENTIFY)		\$	
TC162 DEPOSIT LIAB. (IDENTIFY)		\$	
0240 EXTENSION OF TIME		\$	500.00
WATER RIGHTS:		EXAM FEE	RECORD FEE
0201 SURFACE WATER		\$	0202 \$
0203 GROUND WATER		\$	0204 \$
0205 TRANSFER		\$	
WELL CONSTRUCTION		EXAM FEE	LICENSE FEE
0218 WELL DRILL CONSTRUCTOR		\$	0219 \$
LANDOWNER'S PERMIT			0220 \$
OTHER (IDENTIFY)			

0536 TREASURY 0437 WELL CONST. START FEE

0211 WELL CONST START FEE	\$	CARD #	
0210 MONITORING WELLS	\$	CARD #	
OTHER (IDENTIFY)			

0607 TREASURY 0467 HYDRO ACTIVITY LIC NUMBER

0233 POWER LICENSE FEE (FWWRD)		\$
0231 HYDRO LICENSE FEE (FWWRD)		\$
HYDRO APPLICATION		\$

TREASURY OTHER / RDX

FUND _____ TITLE _____ **RECEIVED**
OBJ. CODE _____ VENDOR # _____ **OVER THE COUNTER**
DESCRIPTION _____ \$ _____

RECEIPT: **105573**

DATED: 4-30-12 BY: RR

Golder Associates
18300 NE Union Hill Road, Suite 200
Redmond, WA 98052-3333
Telephone (425) 883-0777
Fax (425) 882-5498



TRANSMITTAL LETTER

TO: Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem Oregon 97301-1271

DATE: December 20, 2007
PROJECT NO.: 023-1206.004

Attention: Douglas Woodcock

SENT VIA:

- Federal Express
- U.S. Mail
- Courier
- Hand Delivery
- Other: _____

RECEIVED

DEC 21 2007

**WATER RESOURCES DEPT
SALEM, OREGON**

QUANTITY	ITEM	DESCRIPTION
1	Bound Document	ANNUAL MONITORING REPORT FOR WATER YEAR 2007, BALLY BANDON SHEEP RANCH, GROUNDWATER PERMIT G-15437 Dated: December 19, 2007 <i>File 14039</i>
REMARKS:		

Per David Banton/Michael Klisch/sb

1 Copy
Phillip Friedman
Bally Bandon Sheep Ranch
875 N Michigan Avenue, Suite 3928
Chicago, IL 60611

1 Copy
Greg Harless
Bally Bandon Sheep Ranch
PO Box 1756
Bandon, OR 97411



Golder Associates Inc.

18300 NE Union Hill Road, Suite 200
Redmond, WA USA 98052-3333
Telephone (425) 883-0777
Fax (425) 882-5498
www.golder.com



December 19, 2007

Our Ref.: 023-1206.004

Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, OR 97301-1271

Attention: Douglas Woodcock

RE: ANNUAL MONITORING REPORT FOR WATER YEAR 2007, BALLY BANDON SHEEP RANCH, GROUNDWATER PERMIT G-15437

Dear Doug:

Groundwater permit G-15437 was issued to the Bally Bandon Sheep Ranch (Sheep Ranch) on May 16, 2004. The permit allows the Sheep Ranch to irrigate 95 acres from up to six wells, at a combined maximum pumping rate of 0.45 cfs (202 gallons per minute) from March 1 through October 31. As part of the terms of the settlement agreement for the permit, installation of a continuous record streamflow gaging station on Whisky Run Creek, collection of irrigation well pumping quantities, and collection of groundwater level data from the irrigation well(s) and two or more observation wells were required over a five year period. Collection of the data is described in the monitoring plan submitted to OWRD on September 3, 2003¹. Groundwater levels, pumping quantities, and streamflow data are collected by Sheep Ranch personnel. At this time, one irrigation well has been developed and is being used.

This letter describes groundwater and surface water data collected from October 1, 2006 through September 30, 2007. This is the fourth of five annual reports. Data collected over the previous years was reported in the Water Year 2004, Water Year 2005, and Water Year 2006 reports^{2,3,4}.

¹ Golder Associates Inc., 2003, Monitoring Plan, Bally Bandon Sheep Ranch, Water Right Permit G-15437, September 3, 2003.

² Golder Associates Inc., 2004, Annual Monitoring Report for Water Year 2004, Bally Bandon Sheep Ranch, Groundwater Permit G-15437, November 17, 2004.

³ Golder Associates Inc., 2005, Annual Monitoring Report for Water Year 2005, Bally Bandon Sheep Ranch, Groundwater Permit G-15437, November 23, 2005.

⁴ Golder Associates Inc., 2007, Annual Monitoring Report for Water Year 2006, Bally Bandon Sheep Ranch, Groundwater Permit G-15437, January 15, 2007.

1.0 GROUNDWATER LEVELS

Groundwater levels were measured manually in the irrigation well and observation wells using an electric water level tape. Groundwater levels were collected on a monthly to weekly basis in the following wells:

- Bally Bandon Sheep Ranch irrigation well (Coos 52219);
- Bally Bandon Sheep Ranch northern piezometer (Coos 52220);
- Bally Bandon Sheep Ranch piezometer adjacent to irrigation well (Coos 52549); and
- Tokyo Lane well (Coos 717).

The Sheep Ranch installed 4 new piezometers in exploratory borings completed at the golf course in September 2006 (P-1 through P-4, inclusive)⁵. In addition to these piezometers, the Sheep Ranch installed three piezometers in exploratory borings completed at the golf course in January 2007 (P-5 through P-7, inclusive). Two new irrigation wells were installed at the Sheep Ranch in March 2007 (Wells 5 and 6). The well and piezometer locations are shown on Figure 1, and the well logs for all of the wells and piezometers are included in Attachment A. Groundwater levels were measured weekly when the irrigation well was being used, and monthly during the remainder of the year. Well construction information for these wells is summarized on Table 1.

A 2007 Water Year hydrograph for the monitored wells is shown on Figure 2. The annual water level fluctuation in the non-pumping wells was between about three and five feet. Based on the data collected to date, pumping from the irrigation well has not affected the water level in the offsite well (Tokyo Lane Well) or in the northern piezometer (Coos 52220). The groundwater level data does not indicate any long-term water level decline.

2.0 GROUNDWATER PUMPING

The irrigation well was used in from May 2007 through September 2007. In Water Year 2007, 4.45 million gallons (13.65 acre-feet) was pumped from the irrigation well. The monthly pumping totals are summarized on Table 2. Monthly average pumping rates ranged between about 16 and 24 gallons per minute (0.036 to 0.053 cfs). Monthly pumping for water year 2007 is shown on Figure 3. In comparison, pumping in Water Years 2004, 2006, and 2006 was 8.1 acre-feet, 12.8 acre-feet, and 15.2 acre-feet, respectively (Table 2).

3.0 WHISKY RUN CREEK STREAMFLOW

Streamflow on Whisky Run Creek is measured using a Swoffer current meter. A continuous record gaging station was established using a pressure transducer to measure stream stage height. A rating curve was developed based on the Swoffer current meter readings and the transducer stage to estimate streamflows. Precipitation in Water Year 2007 was about 59.25 inches, or about 0.4 inches less than the long-term annual average precipitation of about 59.62 inches⁶.

⁵ Golder Associates Inc., 2007, Annual Monitoring Report for Water Year 2006, Bally Bandon Sheep Ranch, Groundwater Permit G-15437, January 15, 2007.

⁶ <http://www.wrcc.dri.edu/cgi-bin/cliMAIN.pl?orband>

There is one period of missing data present in Water Year 2007 from October 1 to October 31, 2006 (Figure 4). The period of missing data is the result of errors in downloading the new datalogger by new employees at the Sheep Ranch. Manual streamflow measurements collected between July 17 and September 30 were consistent with streamflow measurements collected in 2004, 2005, and 2006 over the same period.

The streamflow data are shown on Figure 4, along with monthly precipitation data collected at Bandon. As shown on Figure 4, streamflow tends to increase in Whisky Run Creek after precipitation events, but otherwise remains relatively constant. Over the course of Water Year 2007, streamflows ranged from about 8 cfs in January 2007 to 2.4 cfs in August 2007. The constant streamflow over most of the year indicates that flows in Whisky Run Creek are sustained by relatively constant groundwater discharge over the year, rather than surface runoff.

OWRD established minimum instream flows (MISF) on Whisky Run Creek (certificate 72875). The instream flows are shown on Figure 4 (red dashed line). As shown on Figure 4, the gaged flows exceed the MISF after about March 15, 2007. Withdrawals from the irrigation well started in May 2007, when gaged streamflow was about 3 to 4 cfs, compared to the MISF for May of 1.28 cfs. The flow in Whisky Run Creek was always above the MISF when the irrigation well was pumped. Also shown on Figure 4 is the OWRD estimated natural streamflow for Whisky Run Creek based on 80% exceedance⁷ (blue dashed line). The MISF exceeds the estimated natural streamflow over the entire year. As shown on Figure 4, the measured streamflow was higher than the OWRD natural streamflow over the entire irrigation season (May through September).

4.0 CLOSURE

Per the permit requirements, streamflow and groundwater levels will be measured and reported for the next water year to define the 80% exceedance natural streamflow in Whisky Run Creek and groundwater level impacts on senior groundwater users. Please contact us if you have any questions or need additional information.

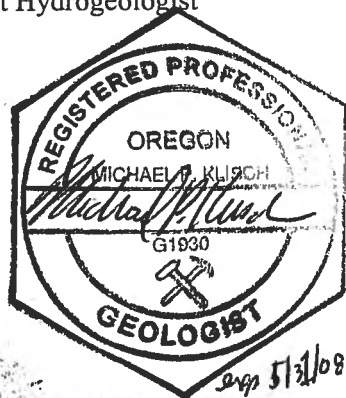
Sincerely,

GOLDER ASSOCIATES INC.

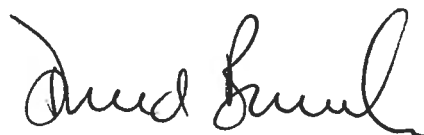


Michael Klisch, R.G.
Senior Project Hydrogeologist

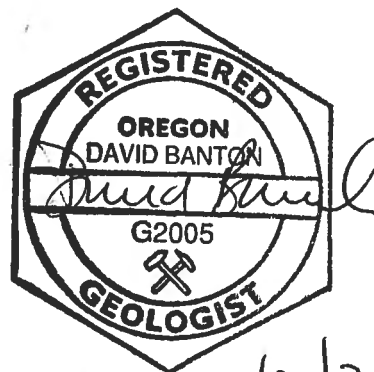
MK/DB/sb



⁷ telnet://wars.wrd.state.or.us/



David Banton, R.G.
Principal Hydrogeologist



Exp 12/31/2008

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Table 2 Water Year 2006 Pumping Data Bally Bandon Sheep Ranch Well No. 1

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Figure 2 Well Hydrographs Water Year 2007
Figure 3 Irrigation Well Water Production Water Year 2007
Figure 4 Whisky Run Creek Streamflow and Bandon Precipitation Water Year 2007

List of Attachments

Attachment A Well Logs for Site Wells and Piezometers

cc: Phil Friedmann
 Greg Harless, Bally Bandon Sheep Ranch

TABLES

Water Year 2007 Pumping Data Bally Bandon Sheep Ranch Well No. 1

Month	Gallons Pumped	Acre-Feet	Average Pumping Rate (gpm)
October 2006	0	0.00	0.0
May 2007	690,100	2.12	16.0
June 2007	868,300	2.66	19.5
July 2007	983,600	3.02	22.0
August 2007	1,060,200	3.25	23.8
September 2007	846,700	2.60	19.6
Total for Water Year 2007	4,448,900	13.65	19.8
Total for Water Year 2006	4,945,205	15.18	22.0
Total for Water Year 2005	4,178,410	12.82	18.6
Total for Water Year 2004	2,651,400	8.14	15.2

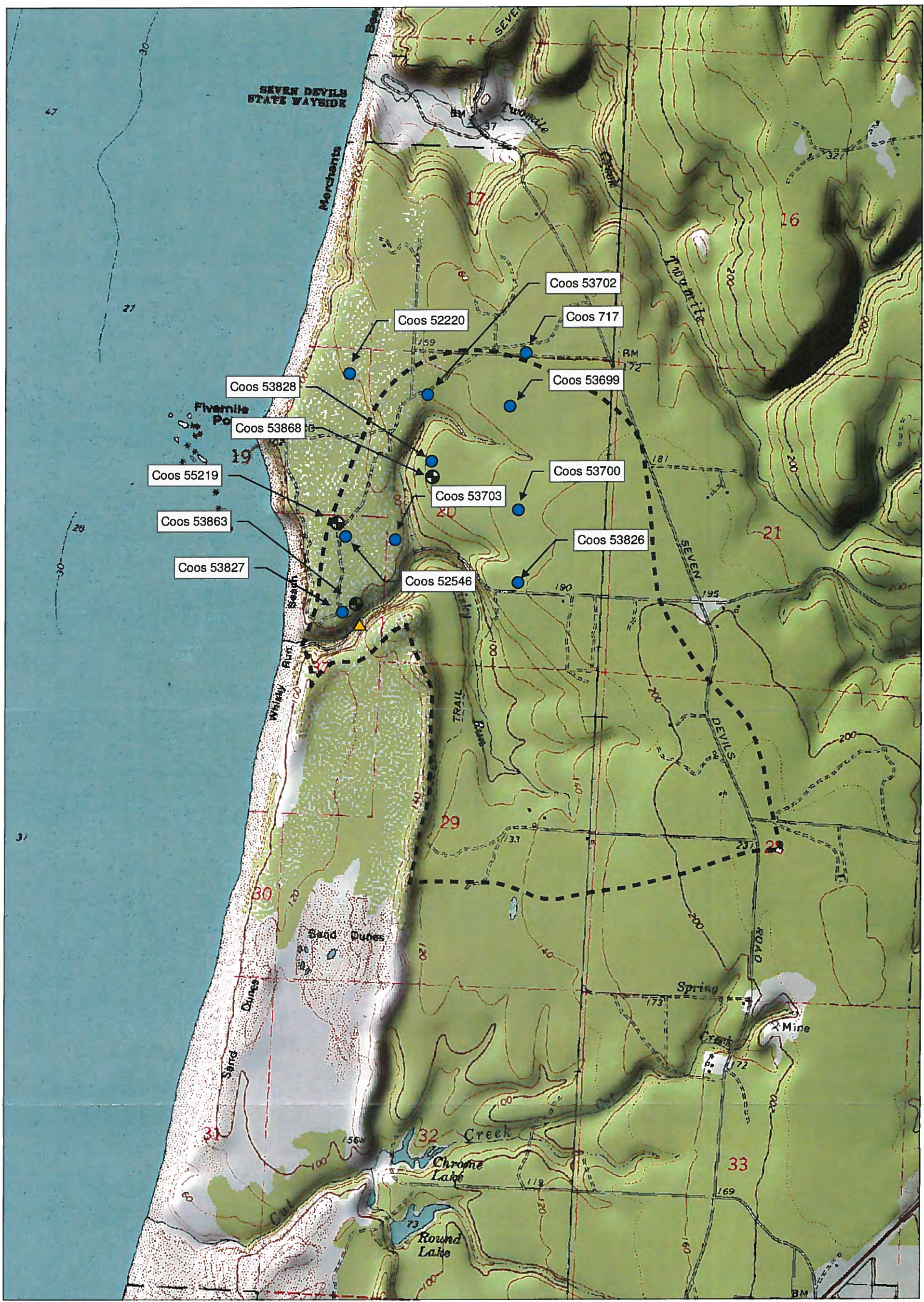
Irrigation and Observation Well Information

Well Name	Depth Drilled (feet bgs)	Depth of Completed Well (feet bgs)	Open or Screened Interval (feet bgs)	TRS Location	Distance from Irrigation Well (feet)	Ground Surface Elevation (ft amsl)	Depth to Water (ft bgs)	Groundwater Elevation (ft amsl)	Date
Irrigation Well (Coos 52219)	110	83	66-81	T27S/R14W-20 NW/SW	0	123	58.2	64.8	9/27/2007
Northern Piezometer (Coos 52220)	78	35	34.5-35	T27S/R14W-20 NW/NW	2,700	119	33.5	85.5	9/27/2007
Irrigation Well Piezometer (Coos 52546)	75	75	60-75	T27S/R14W-20 NW/SW	81	124	57.67	66.3	9/27/2007
Tokyo Lane Well (Coos 717)	47	47	27-47	T27S/R14W-17 SW/NE	4,500	170	16.8	153.2	9/27/2007
Piezometer P-1 (Coos 53702)	65	65	36-46	T27S/R14W-20 NE/NW	3,300	141	39.65	101.4	10/17/2006
Piezometer P-2 (Coos 53699)	55	55	40-45	T27S/R14W-20 NE/NW	4,400	161	18.54	142.5	10/17/2006
Piezometer P-3 (Coos 53700)	65	53	43-53	T27S/R14W-20 SE/NW	3,700	157	33.76	123.2	10/17/2006
Piezometer P-4 (Coos 53703)	73	72.6	54-64	T27S/R14W-20 NW/SW	1,100	91	53.65	37.4	10/17/2006
Piezometer P-5 (Coos 53827)	75	75	65-75	T27S/R14W-20 SW/SW	950	103	46.8	56.2	4/13/2007
Piezometer P-6 (Coos 53828)	71	62.58	52.58-62.58	T27S/R14W-20 SE/NW	1,650	114	38.18	75.8	1/1/2007
Piezometer P-7 (Coos 53826)	55	49.66	39.66-49.66	T27S/R14W-20 NW/SE	2,600	170	31.3	138.7	1/17/2007
Irrigation Well 5 (Coos 53863)	76	75	62.5-72.5	T27S/R14W-20 SW/SW	950	103	59.5	43.5	3/26/2007
Irrigation Well 6 (Coos 53868)	70	65	52.5-62.6	T27S/R14W-20 SE/NW	1,650	114	34.0	80.0	3/30/2007

Notes

Elevations for Sheep Ranch irrigation well and piezometers estimated from GIS site map.

Elevations for Tokyo Lane well and piezometers estimated from 7.5 Minute USGS Topographic Quadrangle

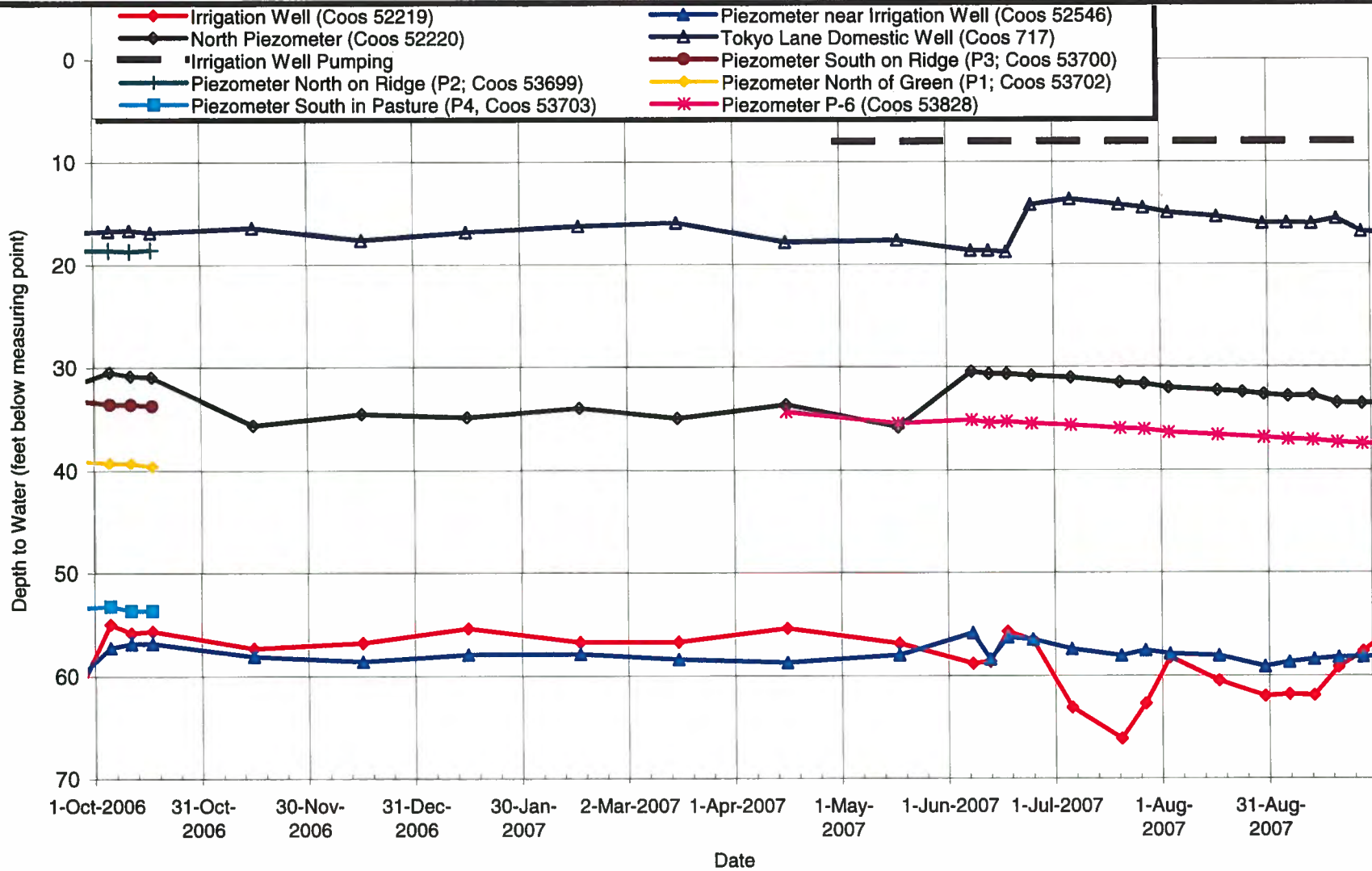


LEGEND

- Watershed Boundary
 - Stream Gaging Station
 - Private/Domestic Well or Piezometer
 - Irrigation Well
- (See Appendix A for well logs)

0 1500
 Scale 1" = 1500 Feet
 Map Projection:
 Oregon State Plane, NAD 83,
 South Zone, Feet
 Source: Regional Ecosystem
 Organization

Site Map With Measurement Locations			
BALLY BSR/GROUNDWATER SERVICES/OR			
Drawn: SJG	Revision: 5	Dec. 03, 2007	Figure: 1



TITLE

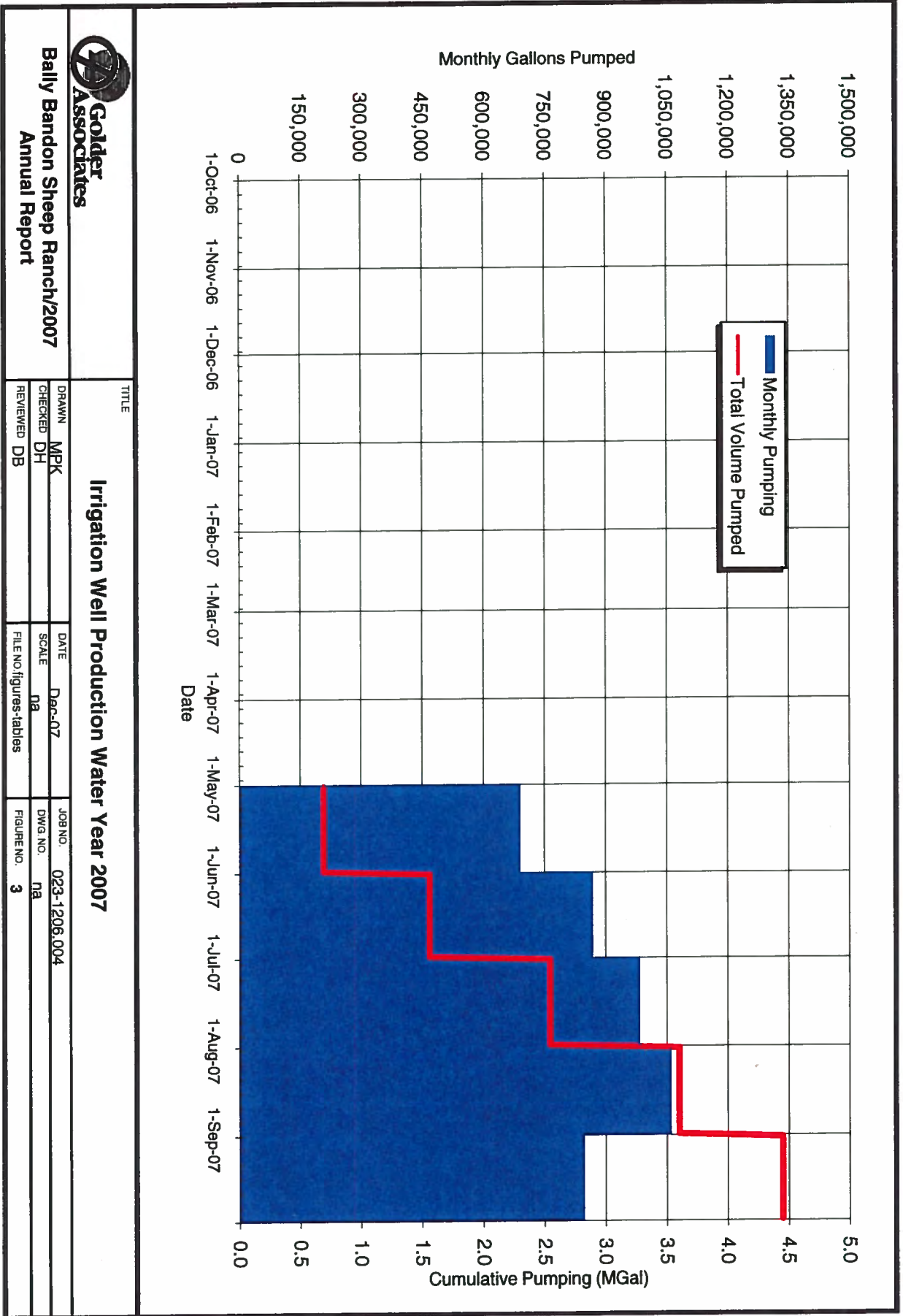
Well Hydrographs Water Year 2007

**Bally Bandon Sheep Ranch/2007
Annual Report**

DRAWN MPK
CHECKED DH
REVIEWED DB

DATE Dec-07
SCALE na
FILE NO. figures-tables

JOB NO. 023-1206.004
DWG. NO. na
FIGURE NO. 2



**Bally Bandon Sheep Ranch/2007
Annual Report**

DRAWN		DATE	JOB NO.
MPK	DH	Dec-07	023-1206.004
CHECKED		SCALE	DWG. NO.
DH	DB	NA	NA
REVIEWED		FILE NO	FIGURE NO.
DB	DB	figures-tables	3



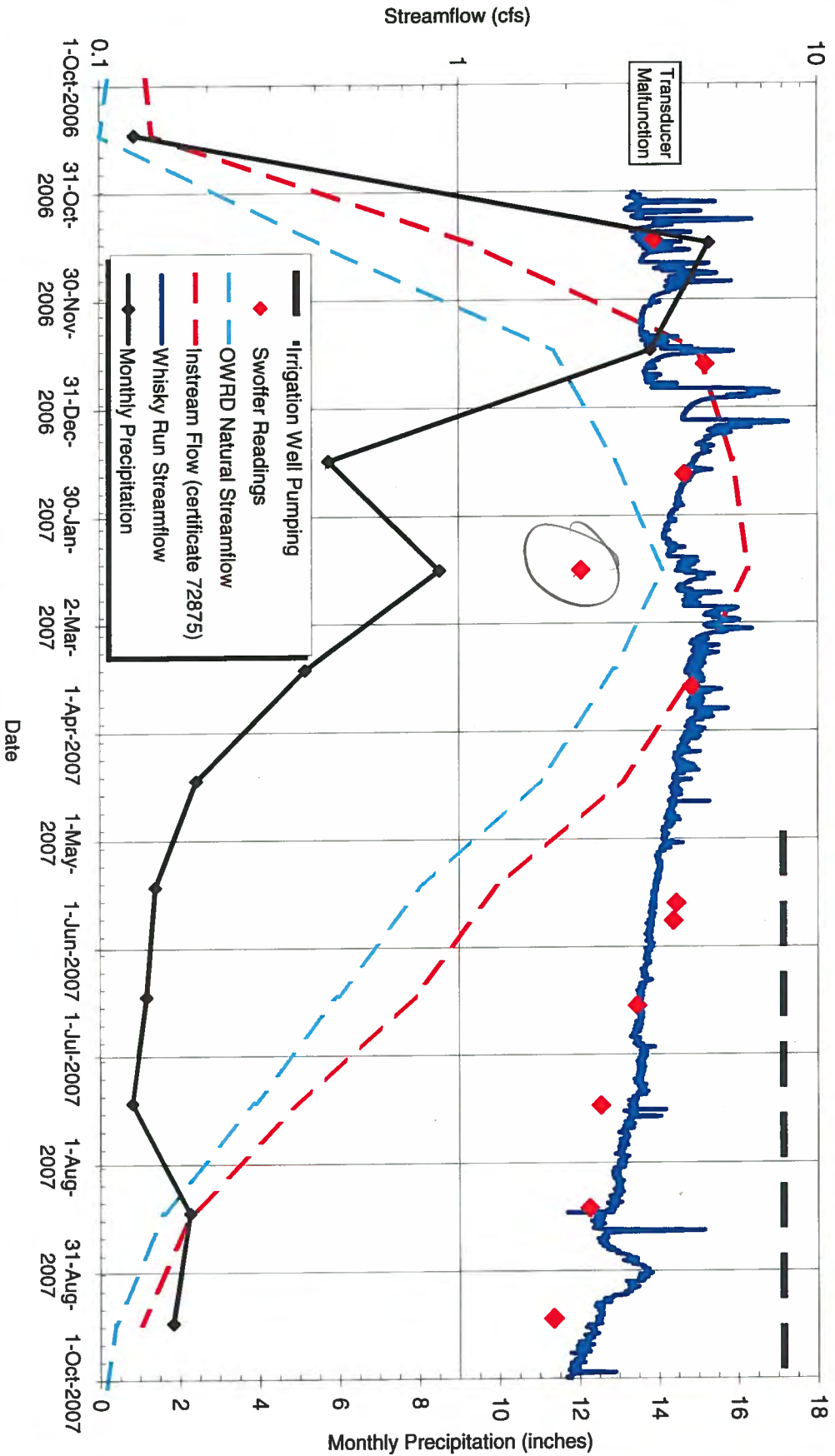
**Bally Bandon Sheep Ranch/2007
Annual Report**

TITLE

Whisky Run Creek Streamflow and Bandon Precipitation Water Year 2007

Note:
2007 Precipitation data taken from USBR gage because
the 2007 record for Bandon 2 NNE gage is incomplete

DRAWN	MPK	DATE	Dec-07	JOB NO.	023-1206.004
CHECKED	DH	SCALE	NA	DWG. NO.	NA
REVIEWED	DB	FILE NO.	figures-tables	FIGURE NO.	4



ATTACHMENT A
WELL LOGS FOR SITE WELLS AND PIEZOMETERS

WELL LABEL # L 81718
 START CARD # 1000477

(1) LAND OWNER Owner Well I.D. 1183 W-6

First Name Dennis Last Name Olson
 Company BALLY BANDON SHEEP RANCH
 Address PO BOX 1756
 City BANDON State OR Zip 97411

(2) TYPE OF WORK New Well Deepening Conversion
 Alteration (repair/recondition) Abandonment

(3) DRILL METHOD
 Rotary Air Rotary Mud Cable Auger Cable Mud
 Reverse Rotary Other _____

(4) PROPOSED USE Domestic Irrigation Community
 Industrial/ Commercial Livestock Dewatering
 Thermal Injection Other _____

(5) BORE HOLE CONSTRUCTION Special Standard [Attach copy]
 Depth of Completed Well 65.00 ft.

BORE HOLE			SEAL			sacks/ lbs	
Dia	From	To	Material	From	To	Amt	
16	0	4	Bentonite	0	4	3	S
12.25	4	65	Bentonite	4	32	22	S
6	65	70					

How was seal placed: Method A B C D E
 Other Pour from surface
 Backfill placed from _____ ft. to _____ ft. Material _____
 Filter pack from 32 ft. to 70 ft. Material Sand Size 8/12
 Explosives used: Yes Type _____ Amount _____

(6) CASING/LINER

Casing	Liner	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	10	<input checked="" type="checkbox"/>	1.5	4	.250	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	8	<input checked="" type="checkbox"/>	1.08	52.5	sdr26	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	8	<input type="checkbox"/>	62.5	65	sdr26	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Shoe Inside Outside Other Location of shoe(s): _____
 Temp casing Yes Dia _____ From _____ To _____

(7) PERFORATIONS/SCREENS

Perforations Method _____
 Screens Type Johnson V-Wire Material Stainless Steel

Perf/ Screen	Casing/ Liner	Screen Dia	From	To	Scrn/slot width	Slot length	# of slots	Tele/ pipe size
Screen		8	52.5	62.5	.061			8

(8) WELL TESTS: Minimum testing time is 1 hour

Pump Bailer Air Flowing Artesian

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)
83.8	11.5	63	1
83.5	11.9	63	2

Temperature 53 °F Lab analysis Yes By _____
 Water quality concerns? Yes (describe below)

From	To	Description	Amount	Units

(9) LOCATION OF WELL (legal description)

County Coos Twp 27.00 S N/S Range 14.00 W E/W WM
 Sec 20 SW 1/4 of the SW 1/4 Tax Lot 400
 Tax Map Number _____ Lot _____
 Lat _____ " or _____ DMS or DD
 Long _____ " or _____ DMS or DD
 Street address of well Nearest address
88500 Whisky Run Road, Bandon

(10) STATIC WATER LEVEL

Existing Well / Predeepening	Date	SWL (psi)	+ SWL (ft)
Completed Well	<u>03-29-2007</u>		<u>34</u>

Flowing Artesian? Dry Hole?

WATER BEARING ZONES Depth water was first found 34

SWL Date	From	To	Est Flow	SWL (psi)	+ SWL (ft)
<u>03-29-2007</u>	<u>34</u>	<u>62</u>	<u>100</u>		<u>34</u>

(11) WELL LOG Ground Elevation 200

Material	From	To
Topsoil	0	2
Cemented sand brown	2	3
Wood & peat	3	4
Cemented sand brown	4	5
Sand fine-medium tan	5	16
Sandy clay tan & orange	16	18
Sand fine-coarse brown	18	31
Sandy clay tan w/sand fine-coarse brown	31	32
Sand fine-coarse brown	32	44
Sand fine-coarse w/gravel fine brown	44	50
Sandy clay tan w/gravel fine & sand f-c brown	50	52
Gravel fine w/sand coarse-fine brown	52	55
Gravel fine w/sand c-f & sandy clay orange brown	55	57
Gravel fine-medium w/sand coarse-fine gray brown	57	60
Gravel fine-medium w/sand c-f & sandy clay tan	60	61
Gravel fine-medium w/sand coarse-fine gray brown	61	62
Claystone gray	62	70

Date Started 01-11-2007 Completed 03-29-2007

(unbonded) Water Well Constructor Certification
 I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

License Number _____ Date _____
 Electronically Filed _____
 Signed _____

(bonded) Water Well Constructor Certification
 I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.

License Number 1493 Date 03-30-2007
 Electronically Filed _____
 Signed JAMES A MACK SR (E-filed)
 Contact Info (optional) BANDON WELL & PUMP COMPANY (541) 347-7867

WELL LABEL # L 81722

START CARD # 1000458

(1) LAND OWNER Owner Well I.D. 1180 W-5

First Name Dennis Last Name Olson
 Company Bally Bandon Sheep Ranch
 Address PO Box 1756
 City Bandon State OR Zip 97411

(2) TYPE OF WORK New Well Deepening Conversion
 Alteration (repair/recondition) Abandonment

(3) DRILL METHOD
 Rotary Air Rotary Mud Cable Auger Cable Mud
 Reverse Rotary Other _____

(4) PROPOSED USE Domestic Irrigation Community
 Industrial/ Commercial Livestock Dewatering
 Thermal Injection Other _____

(5) BORE HOLE CONSTRUCTION Special Standard (Attach copy)
 Depth of Completed Well 75.00 ft.

BORE HOLE			SEAL			sacks/	
Dia	From	To	Material	From	To	Amt	lbs
12.25	0	76	Bentonite	0	32	28	S

How was seal placed: Method A B C D E
 Other Pour from surface
 Backfill placed from _____ ft. to _____ ft. Material _____
 Filter pack from 32 ft. to 75 ft. Material Sand Size 8/12
 Explosives used: Yes Type _____ Amount _____

(6) CASING/LINER

Casing	Liner	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	8		1.3	62.5	sdr26	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	8		72.5	75	sdr26	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	10		1.5	4	.250	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Shoe Inside Outside Other Location of shoe(s) _____
 Temp casing Yes Dia _____ From _____ To _____

(7) PERFORATIONS/SCREENS

Perforations Method _____
 Screens Type Johnson V-Wire Material Stainless Steel

Perf/Screen	Casing/Liner	Screen Dia	From	To	Scr/slot width	Slot length	# of slots	Tele/pipe size
		8	62.5	72.5	.041			8

(8) WELL TESTS: Minimum testing time is 1 hour

Pump Bailer Air Flowing Artesian

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)
2.6	2.5	75	1
10	10	75	1

Temperature 53 °F Lab analysis Yes By _____
 Water quality concerns? Yes (describe below)

From	To	Description	Amount	Units

(9) LOCATION OF WELL (legal description)

County Coos Twp 27.00 S N/S Range 14.00 W E/W WM
 Sec 20 SW 1/4 of the SW 1/4 Tax Lot 400
 Tax Map Number _____ Lot _____
 Lat _____ " or _____ DMS or DD
 Long _____ " or _____ DMS or DD
 Street address of well Nearest address

no # vacant Whiskey Run Road, Bandon

(10) STATIC WATER LEVEL Date _____ SWL (psi) + SWL (ft)

Existing Well / Predeepening	Date	SWL (psi)	SWL (ft)
Completed Well	03-26-2007		59.5

Flowing Artesian? Dry Hole?

WATER BEARING ZONES Depth water was first found 46.75

SWL Date	From	To	Est Flow	SWL (psi)	SWL (ft)
03-22-2007	59.5	74	10		59.5

(11) WELL LOG

Ground Elevation 150

Material	From	To
Cemented sand orange brown	0	3
Sand fine tan	3	8
Cemented sand tan	8	9
Sandy clay tan	9	10
Cemented sand orange & brown	10	11
Sand fine brown	11	15
Sandy clay white	15	16
Sandy clay orange	16	17
Sand fine-medium tan	17	23
Sandy clay lt. gray	23	24
Sand fine-medium tan	24	32
Cemented sand orange & tan	32	33
Sand fine-coarse w/gravel fine tan	33	38
Sandy clay orange	38	39
Sandy clay tan	39	42
Sand fine-coarse tan	42	44
Sand fine-coarse w/gravel fine brown black	44	49
Gravel fine-medium w/sand coarse-fine brown	49	53
Continued on page 2	49	53

Date Started 01-10-2007 Completed 03-26-2007

(unbonded) Water Well Constructor Certification

I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

License Number _____ Date _____
 Electronically Filed
 Signed _____

(bonded) Water Well Constructor Certification

I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.

License Number 1493 Date 03-27-2007
 Electronically Filed
 Signed JAMES A MACK SR (E-filed)
 Contact Info (optional) BANDON WELL & PUMP COMPANY (541) 347-7867

(5) BORE HOLE CONSTRUCTION

BORE HOLE			SEAL			sacks/
Dia	From	To	Material	From	To	lbs

FILTER PACK

From	To	Material	Size

(6) CASING/LINER

Casing Liner	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd

(7) PERFORATIONS/SCREENS

Perf/	Casing/	Screen							
Screen	Liner	Dia	From	To	Screen/slot width	Slot length	# of slots	Tele/ pipe size	

(8) WELL TESTS: Minimum testing time is 1 hour

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)

Water Quality Concerns

From	To	Description	Amount	Units

(10) STATIC WATER LEVEL

Water Bearing Zones					
SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(ft)

(11) WELL LOG

Material	From	To
Gravel fine-coarse w/sand coarse-fine brown green	53	57
Gravel fine-medium w/sand coarse-fine brown red	57	62
Gravel fine-medium w/sand coarse-fine brown green	62	67
Gravel fine-coarse w/sand coarse-fine brown	67	72
Gravel fine-coarse w/sandy clay tan	72	74
Sandy clay gray	74	74.5
Claystone gray	74.5	76

Comments/Remarks

At the time test hole and piezometer were drilled in January 07 the SWL was 46.75'
WELL DRILLED BY:
BANDON WELL & PUMP COMPANY
 (541) 347-7867

MAY 10 1993

WATER RESOURCES DEPT.

(START CARD) # 48138

CTS/14W/170

717

(1) OWNER: SALEM, OREGON
 Name Linda Roth
 Address P.O. Box 1619
 City Bandon State OR Zip 97411

(2) TYPE OF WORK:
 New Well Deepen Recondition Abandon

(3) DRILL METHOD:
 Rotary Air Rotary Mud Cable
 Other

(4) PROPOSED USE:
 Domestic Community Industrial Irrigation
 Thermal Injection Other

(5) BORE HOLE CONSTRUCTION:
 Special Construction approval Yes No Depth of Completed Well 37 ft.
 Explosives used Yes No Type _____ Amount _____

HOLE		SEAL		Amount (sacks or pounds)
Diameter	From To	Material	From To	
9	0 20	Cement	20 0	6
7	20 47			

How was seal placed: Method A B C D E
 Other

Backfill placed from _____ ft. to _____ ft. Material _____
 Gravel placed from 20 ft. to 47 ft. Size of gravel pergimed

(6) CASING/LINER:

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing: <u>4 1/2</u>	<u>42</u>	<u>27</u>	<u>SM20</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liner:				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Final location of shoe(s) _____

(7) PERFORATIONS/SCREENS:

Perforations Method _____
 Screens Type Hydrophilic Material plastic

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
<u>27</u>	<u>47</u>	<u>10/10</u>		<u>4 1/2</u>	<u>4 1/2</u>	<input type="checkbox"/>	<input type="checkbox"/>

(8) WELL TESTS: Minimum testing time is 1 hour

Pump Bailor Air Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
<u>15</u>		<u>37</u>	<u>1 hr.</u>

Temperature of Water 52° Depth Artesian Flow Found _____
 Was a water analysis done? Yes By whom _____
 Did any strata contain water not suitable for intended use? Too little
 Salty Muddy Odor Colored Other _____
 Depth of strata: _____

(9) LOCATION OF WELL by legal description:
 County COOS Latitude _____ Longitude _____
 Township 27 N or S Range 14 E or W WM
 Section 17 SW 1/4 NE 1/4
 Tax Lot 1500 Lot _____ Block _____ Subdivision _____
 Street Address of Well (or nearest address) 2303 Talley Rd

(10) STATIC WATER LEVEL:
31 ft. below land surface. Date 4/9/93
 Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:
 Depth at which water was first found 12'

From	To	Estimated Flow Rate	SWI
<u>24</u>	<u>47</u>	<u>15 gpm</u>	<u>21</u>

(12) WELL LOG:
 Ground elevation _____

Material	From	To	SWI
<u>Brown sandy clay</u>	<u>0</u>	<u>24</u>	
<u>Brown sand</u>	<u>24</u>	<u>47</u>	

Date started 4-7-93 Completed 4/9/93

(unbonded) Water Well Constructor Certification:
 I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Material used and information reported above are true to my best knowledge and belief.
 Signed _____ Date _____
 WWC Number _____

(bonded) Water Well Constructor Certification:
 I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.
 Signed [Signature] Date 5/5/93
 WWC Number 132

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765)

JAN 10 2002
WATER RESOURCES DEPT.
SALEM, OREGON

27-14-20
WELL I.D. # L 51164
START CARD # 123874

Instructions for completing this report are on the last page of this form.

(1) OWNER: Well Number 808
Name Billy Bandon Sheep Ranch
Address PO Box 1756
City Bandon State OR Zip 97411

(2) TYPE OF WORK
 New Well Deepening Alteration (repair/recondition) Abandonment

(3) DRILL METHOD:
 Rotary Air Rotary Mud Cable Auger
 Other

(4) PROPOSED USE:
 Domestic Community Industrial Irrigation
 Thermal Injection Livestock Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval Yes No Depth of Completed Well 89 ft.
Explosives used Yes No Type _____ Amount _____

HOLE			SEAL			Sacks or pounds
Diameter	From	To	Material	From	To	
14"	0	20	Bentonite	0	35	40 5X
12 1/4"	20	89				
6"	89	110	Cement	90	110	3 5X

How was seal placed: Method A B C D E
 Other Bentonite poured from surface
Backfill placed from _____ ft. to _____ ft. Material _____
Gravel placed from 35 ft. to 89 ft. Size of gravel 6/9

(6) CASING/LINER:

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing: 8"	+1	66	54.90	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8"	81	89	54.40	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10"	+1 1/4	4'	1.250	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(Protective Casing)							
Liner:				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Final location of shoe(s) _____
(7) PERFORATIONS/SCREENS:
 Perforations Method Attached to Casing
 Screens Type Johnson Wire Material 55
From To Slot size Number Diameter Tele/pipe size Casing Liner
66' 81' .070 _____ 8" Pipe

(8) WELL TESTS: Minimum testing time is 1 hour
 Pump Bailer Air Flowing Artesian
Yield gal/min Drawdown Drill stem at Time
73 9' 89 1 hr.
100' 14 89 2 hrs

Temperature of water 52° Depth Artesian Flow Found _____
Was a water analysis done? Yes By whom But J
Did any strata contain water not suitable for intended use? Too little
 Salty Muddy Odor Colored Other _____
Depth of strata: _____

Bandon Well & Septic Co., Inc.

(9) LOCATION OF WELL by legal description:
County COOS Latitude _____ Longitude _____
Township 27 N or S Range 14 E or W W.M.
Section 120 NW 1/4 SW 1/4
Tax Lot 400 Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) Whiskey Run Rd.
Bandon

(10) STATIC WATER LEVEL:
56' ft. below land surface. Date 12/20/01
Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:
Depth at which water was first found 56'

From	To	Estimated Flow Rate	SWL
<u>56</u>	<u>83</u>	<u>100</u>	<u>56</u>
Specific Cap <u>0.1 gal/FT of DP</u>			

(12) WELL LOG: Ground Elevation +1 - 100'

Material	From	To	SWL
Topsoil	0	2	
Sandy Clay brown	2	8	
Sandy Clay tan	8	10	
Sand Fine brown	10	25	
Sandy Clay tan white	25	26	
Sand Fine-med brown	26	60	
Sand Fine-Ces w/ gravel	60	64	
Fine gray brown (Loss Circulation)			
Gravel Ces-Fine w/ sand	64	70	
Fine-Ces brown (Loss Circulation)			
Gravel med-Fine w/ sand	70	80	
Ces-Fine Gray brown			
Sandy Clay Gray	80	82	
Wood	82	83	
Claystone Gray	83	110	

Date started 11/21/01 Completed 12/20/01

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.
Signed Chris Keenan WWC Number 1759 Date 11/4/01

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.
Signed Jim Mackle of MGWC WWC Number 1493 Date 11/7/02

STATE OF OREGON
GEOTECHNICAL HOLE REPORT
 (as required by OAR 690-240-035)

U005
 52220

(Pg 1)

(1) OWNER/PROJECT: Hole Number 810
 Name Bally Bandon Sheep Ranch
 Address PO Box 1756
 City Bandon State OR Zip 97411

(2) TYPE OF WORK
 New Deepening Alteration (repair/recondition) Abandonment

(3) CONSTRUCTION:
 Rotary Air Hand Auger Hollow Stem Auger
 Rotary Mud Cable Tool Push Probe Other

(4) TYPE OF HOLE:
 Uncased Temporary Cased Permanent
 Uncased Permanent Slope Stability Other

(5) USE OF HOLE: Formation Samples

(6) BORE HOLE CONSTRUCTION:
 Special Construction approval Yes No Depth of Completed Hole 78' ft.

HOLE			SEAL			Sacks or pounds
Diameter	From	To	Material	From	To	
6"	0	78	Cement	0	78	25x
			Bentonite	0	35	18.5x

Backfill placed from _____ ft. to _____ ft. Material _____
 Filter Pack placed from _____ ft. to _____ ft. Size of pack _____

(7) CASING/SCREEN:

Diameter	From	To	Gauge	Steel				Threaded
				Plastic	Welded	Plastic	Welded	
Casing: 2"	+1	35	5/8	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Screen:				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Slot size _____

(8) WELL TEST:
 Pump Bailer Air Flowing Artesian
 Permeability _____ Yield _____ GPM _____
 Conductivity _____ PH _____
 Temperature of water _____ °F/C Depth artesian flow found _____ ft.
 Was water analysis done? Yes No
 By whom? _____
 Depth of strata analyzed. From _____ ft. to _____ ft.
 Remarks: _____

(9) LOCATION OF HOLE by legal description:
 County Coos Latitude _____ Longitude _____
 Township 27 N or S Range 14 E or W. W.M.
 Section 20 NW. 1/4 SW. 1/4
 Tax Lot 100 Lot _____ Block _____ Subdivision _____
 Street Address of Well (or nearest address) Whiskey Run Rd.
Bandon

Map with location identified must be attached

(10) STATIC WATER LEVEL:
30'5" ft. below land surface. Date 12/21/01
 Artesian pressure _____ lb. per square inch. Date _____

(11) SUBSURFACE LOG:
 Ground Elevation +1-100'

Material Description	From	To	SWL
Topsoil	0	1	
Sand Fine brown	1	3	
Sand Fine Tan	3	12	
Clay brown	12	14	
Sandy Clay Tan	14	15	
Sand Fine Tan	15	18	
Sandy Clay white	18	20	
Sand Fine Tan	20	30	

(Continued on Page #2)

Date Started 11/29/01 Date Completed 12/21/01

(12) ABANDONMENT LOG:

Material Description	From	To	Sacks or Pounds
RECEIVED			
JAN 10 2002			
WATER RESOURCES DEPT.			
SALEM, OREGON			

Date started _____ Date Completed _____

Professional Certification
 (to be signed by a licensed water supply or monitoring well constructor, or Oregon registered geologist or civil engineer).

I accept responsibility for the construction, alteration, or abandonment work performed during the construction dates reported above. All work performed during this time is in compliance with Oregon's geotechnical hole construction standards. This report is true to the best of my knowledge and belief.

License or Registration Number 1493
 Signed Jan Mack SA MGCW Date 1/7/02
 Affiliation Bandon Well & Septic Co inc

THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

ORIGINAL - WATER RESOURCES DEPARTMENT FIRST COPY - CONSTRUCTOR SECOND COPY - CUSTOMER

STATE OF OREGON
GEOTECHNICAL HOLE REPORT
 (as required by OAR 690-240-035)

(Pg 2)

0005
52220

(1) OWNER/PROJECT: Hole Number 810
 Name Billy Bandon Sheep Ranch
 Address PO Box 1756
 City Bandon State OR Zip 97411

(2) TYPE OF WORK
 New Deepening Alteration (repair/recondition) Abandonment

(3) CONSTRUCTION:
 Rotary Air Hand Auger Hollow Stem Auger
 Rotary Mud Cable Tool Push Probe Other

(4) TYPE OF HOLE:
 Uncased Temporary Cased Permanent
 Uncased Permanent Slope Stability Other

(5) USE OF HOLE:

(6) BORE HOLE CONSTRUCTION:
 Special Construction approval Yes No Depth of Completed Hole _____ ft.

HOLE			SEAL			Sacks or pounds
Diameter	From	To	Material	From	To	

Backfill placed from _____ ft. to _____ ft. Material _____
 Filter Pack placed from _____ ft. to _____ ft. Size of pack _____

(7) CASING/SCREEN:

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Screen:				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Slot size _____

(8) WELL TEST:
 Pump Bailer Air Flowing Artesian
 Permeability _____ Yield _____ GPM _____
 Conductivity _____ PH _____
 Temperature of water _____ °F/C Depth artesian flow found _____ ft.
 Was water analysis done? Yes No
 By whom? _____
 Depth of strata analyzed. From _____ ft. to _____ ft.
 Remarks: _____

(9) LOCATION OF HOLE by legal description:
 County Coos Latitude _____ Longitude _____
 Township d7 N or S Range 14 E or W WM.
 Section 20 NW 1/4 NW 1/4
 Tax Lot 100 Lot _____ Block _____ Subdivision _____
 Street Address of Well (or nearest address) Whiskey Run Rd
Bandon

Map with location identified must be attached

(10) STATIC WATER LEVEL:
 _____ ft. below land surface. Date _____
 Artesian pressure _____ lb. per square inch. Date _____

(11) SUBSURFACE LOG:
 Ground Elevation _____

Material Description	From	To	SWL
Sand Fine-med Tan	30	37	
Sandy Clay brn w/sand Fine	37	45	
Part brown	45	46	
Wood w/sand Fine brown	46	48	
Sand Fine-med tan	48	53	
Gravel med c/s Brn Red w/sand	53	60	
Sand Fine w/Gravel Fine c/s Gray	60	65	
Sandy Clay Gray	65	66	
Claystone Gray	66	78	

Date Started 11/29/01 Date Completed 12/21/01

(12) ABANDONMENT LOG:

Material Description	From	To	Sacks or Pound

Date started _____ Date Completed _____

Professional Certification
 (to be signed by a licensed water supply or monitoring well constructor, or Oregon registered geologist or civil engineer).
 I accept responsibility for the construction, alteration, or abandonment work performed during the construction dates reported above. All work performed during this time is in compliance with Oregon's geotechnical hole construction standards. This report is true to the best of my knowledge and belief.
 License or Registration Number 1493
 Signed Jim Muckler MGCW Date 1/7/02
 Affiliation Bandon Well + Septic Co. Inc.

THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

ORIGINAL - WATER RESOURCES DEPARTMENT FIRST COPY - CONSTRUCTOR SECOND COPY - CUSTOMER

OPY

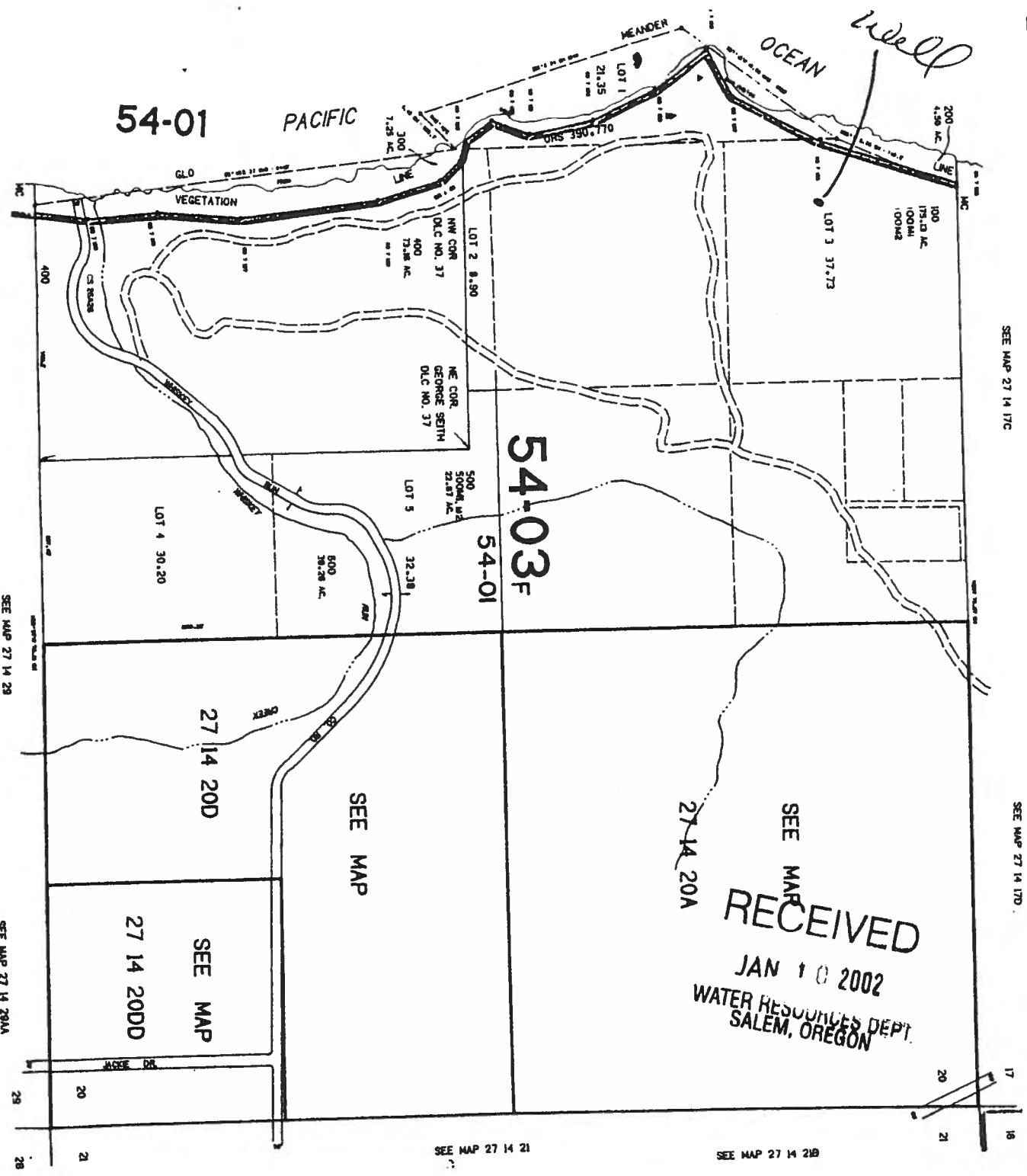
REDUCED COPY
NOT TO SCALE

CHANGES UPDATED AS OF MAR 16 1995

THIS MAP WAS PREPARED FOR
ASSESSMENT PURPOSE ONLY.

COOS COUNTY
T-400'

LAYOUT TRACED CHECKED



SEE MAP 27 14 17C

SEE MAP 27 14 17D

RECEIVED
JAN 10 2002
WATER RESOURCES DEPT.
SALEM, OREGON

SEE MAP 27 14 21

SEE MAP 27 14 21B

590 000

27 14 20
& INDEX

GEOTECHNICAL HOLE REPORT
 (as required by OAR 690-240-035)
 WATER RESOURCES DEPT.
 SALEM, OREGON

27-14-20 NW SW

(1) OWNER/PROJECT: Bally Bandon Sheep Ranch Hole Number 856
 Name Bally Bandon Sheep Ranch
 Address PO Box 1756
 City Bandon State OR Zip 97411

(9) LOCATION OF HOLE by legal description:
 County 000 Latitude _____ Longitude _____
 Township 47 N or S Range 14 E or W.M.
 Section 20 NW 1/4 SW 1/4
 Tax Lot 400 Lot _____ Block _____ Subdivision _____
 Street Address of Well (or nearest address) Whiskey Run Rd Bandon

(2) TYPE OF WORK
 New Deepening Alteration (repair/recondition) Abandonment

(3) CONSTRUCTION:
 Rotary Air Hand Auger Hollow Stem Auger
 Rotary Mud Cable Tool Push Probe Other

(4) TYPE OF HOLE:
 Uncased Temporary Cased Permanent
 Uncased Permanent Slope Stability Other

(5) USE OF HOLE: Piezometer

(10) STATIC WATER LEVEL:
58'4" ft. below land surface. Date 10/8/02
 Artesian pressure _____ lb. per square inch. Date _____

(11) SUBSURFACE LOG:
 Ground Elevation +1-300'

Material Description	From	To	SWL
Sandy Topsoil	0	1	
Cemental Sand Brown	1	2	
Sand brown Fine	2	9	
Sandy tan Clay	9	11	
Cemental sand tan	11	15	
Sandy Clay white	15	16	
Sand Fine tan	16	19	
Sandy Clay Orange	19	20	
Sand tan Fine-med	20	29	

Date Started 10/07/02 Date Completed 10/08/02

(6) BORE HOLE CONSTRUCTION:
 Special Construction approval Yes No Depth of Completed Hole 768'ft
TOC

HOLE			SEAL			Sacks or pounds
Diameter	From	To	Material	From	To	
6"	0	75	Bentonite	0	40	1.3

Backfill placed from _____ ft. to _____ ft. Material _____
 Filter Pack placed from 40 ft. to 75 ft. Size of pack 10/20

(7) CASING/SCREEN:

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing: 2"	+1	60	5/4	40	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Screen: 2"	60	75	5/4	40	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

 Slot size 1,020

(8) WELL TEST:
 Pump Bailer Air Flowing Artesian
 Permeability _____ Yield _____ GPM 56GPM
 Conductivity _____ PH _____
 Temperature of water 53° °F/C Depth artesian flow found _____ ft.
 Was water analysis done? Yes No
 By whom? _____
 Depth of strata analyzed. From _____ ft. to _____ ft.
 Remarks: _____

(12) ~~LOG~~ LOG: Cont.
Subsurface SWL

Material Description	From	To	SWL
Sandy Clay White + Orange	29	30	
Gravel Fine w/ Sand Brn	30	36	
Sand Fine-med Tan	36	40	
Sand Fine-Crs w/ Fine gravel	40	61	58'4"
Sand Fine-Crs w/ Gravel Med-Fine	61	65	
Gravel Fine-Crs w/ sand	65	74	
Crs-Fine Gray brn	74	75	
Clay Gray			

Date started 10/07/02 Date Completed 10/08/02

Professional Certification
 (to be signed by a licensed water supply or monitoring well constructor, or Oregon registered geologist or civil engineer).
 I accept responsibility for the construction, alteration, or abandonment work performed during the construction dates reported above. All work performed during this time is in compliance with Oregon's geotechnical hole construction standards. This report is true to the best of my knowledge and belief.

License or Registration Number 1493
 Signed Jim Mack Sr MGC Date 10/09/02
 Affiliation Bandon Well + Septic Co Inc.

THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

ORIGINAL - WATER RESOURCES DEPARTMENT FIRST COPY - CONSTRUCTOR SECOND COPY - CUSTOMER

STATE OF OREGON
MONITORING WELL REPORT

(as required by ORS 537.765 & OAR 690-240-0395)

WELL LABEL # L 80259

START CARD # 182715

(1) LAND OWNER Owner Well I.D. 1152

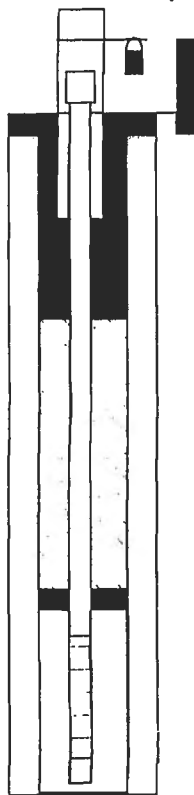
First Name Dennis Last Name Olson
Company BANDON BALLY SHEEP RANCH
Address PO Box 1756
City Bandon State OR Zip 97411

(2) TYPE OF WORK New Deepening Conversion
 Alteration (repair/recondition) Abandonment

(3) DRILL METHOD
 Rotary Air Rotary Mud Cable Hollow Stem Auger Cable Mud
 Reverse Rotary Other

(4) CONSTRUCTION Piezometer Well

Depth of Completed Well 55 ft. Special Standard



MONUMENT/VAULT Above Ground
From 1.3 To 4

BORE HOLE
Diameter 6 From 0 To 55

CASING
Dia. 2 From 1 To 40
Gauge Sch40 Wld Thrd
Material Steel Plastic

LINER
Dia. From To
Gauge Wld Thrd
Material Steel Plastic

SEAL
From 0 To 29
Material Bentonite
Amount 11 S Grout weight

SCREEN
Casing/Liner Casing Material PVC
Diameter 2 From 40 To 45
Slot Size .020

FILTER
From 29 To 46 Material Sand Size of pack 10/20

(5) WELL TESTS

Pump Bailer Air Flowing Artesian

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)
4		50	1

Temperature 53 °F Lab analysis Yes By

Supervising Geologist/Engineer

Water quality concerns? Yes (describe below)

From	To	Description	Amount	Units

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(6) LOCATION OF WELL (legal description)

County COOS Twp 27 S N/S Range 14 W E/W WM
Sec 20 NE 1/4 of the NW 1/4 Tax Lot 100
Tax Map Number Lot
Lat ° 0 ' " or DMS or DD
Long ° 0 ' " or DMS or DD
 Street address of well Nearest address

no#(vacant) off Whiskey Run, Bandon

(7) STATIC WATER LEVEL

Existing Well / Predeepening	Date	SWL(psi)	+ SWL(ft)
Completed Well	09-18-2006		16.6

Flowing Artesian? Dry Hole?
WATER BEARING ZONES Depth water was first found

SWL Date	From	To	Est Flow	SWL (psi)	+ SWL (ft)
09-18-2006	18	45	4		16.6

(8) WELL LOG

Ground Elevation 300

Material	From	To
Sandy clay brown	0	1
Cemented sand brown	1	2
Sand tan fine	2	5
Wood & sand fine tan	5	6
Sand fine tan	6	7
Sand fine-coarse tan	7	8
Sand fine-coarse w/gravel fine brown	8	13
Gravel fine w/sandy clay orange brown	13	17
Peat	17	18
Sand fine-coarse brown	18	23
Sandy clay tan w/peat	23	30
Sand fine-coarse tan	30	34
Sandy clay tan orange w/peat	34	39
Sand fine-coarse w/gravel fine tan	39	40
Sand fine-coarse w/gravel fine-medium tan	40	45
Sandy clay tan orange	45	45.5
Sandy clay white	45.5	46
Clay gray	46	48
Continued on page 2	46	48

Date Started 09-15-2006 Completed 09-18-2006

(unbonded) Monitor Well Constructor Certification

I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon monitoring well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

License Number _____ Date _____
Password : (if filing electronically) _____
Signed _____

(bonded) Monitor Well Constructor Certification

I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon monitoring well construction standards. This report is true to the best of my knowledge and belief.

License Number 1493 Date 9/19/06
Password : (if filing electronically) _____
Signed *[Signature]*
Contact Info (optional) BANDON WELL & PUMP COMPANY (541) 347-7867

(4) CONSTRUCTION

BORE HOLE			FILTER PACK			
Dia	From	To	From	To	Material	Size

SEAL					
Material	From	To	Amt	sacks/ lbs	grout weight
Cement	46	55	1.5	S	

(7) STATIC WATER LEVEL

Water Bearing Zones						
SWL Date	From	To	Est Flow	SWL(psi)	+	SWL(ft)

CASING/LINER

Casing Liner	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd
● ○	2		45	55	Sch40	○ ●		✗	
						○ ●			
						○ ●			
						○ ●			
						○ ●			
						○ ●			
						○ ●			
						○ ●			
						○ ●			
						○ ●			
						○ ●			
						○ ●			

SCREENS

Perf/ Screen	Casing/ Screen Liner Dia	From	To	Scrn size/ slot width	Slot length	# of slots	Tele/ pipe size

(5) WELL TESTS

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)

Water Quality Concerns

From	To	Description	Amount	Units

(8) WELL LOG

Material	From	To
Claystone gray	48	52
Sandstone gray	52	53
Claystone gray	53	55

Comments/Remarks

Well drilled by Bandon Well & Pump Co.
(541) 347-7867

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SEP 21 2006

MONITORING WELL REPORT -

Map with location identified must be attached and shall include an approximate scale and north arrow

WELL I.D. # L 80259

START CARD # 182715

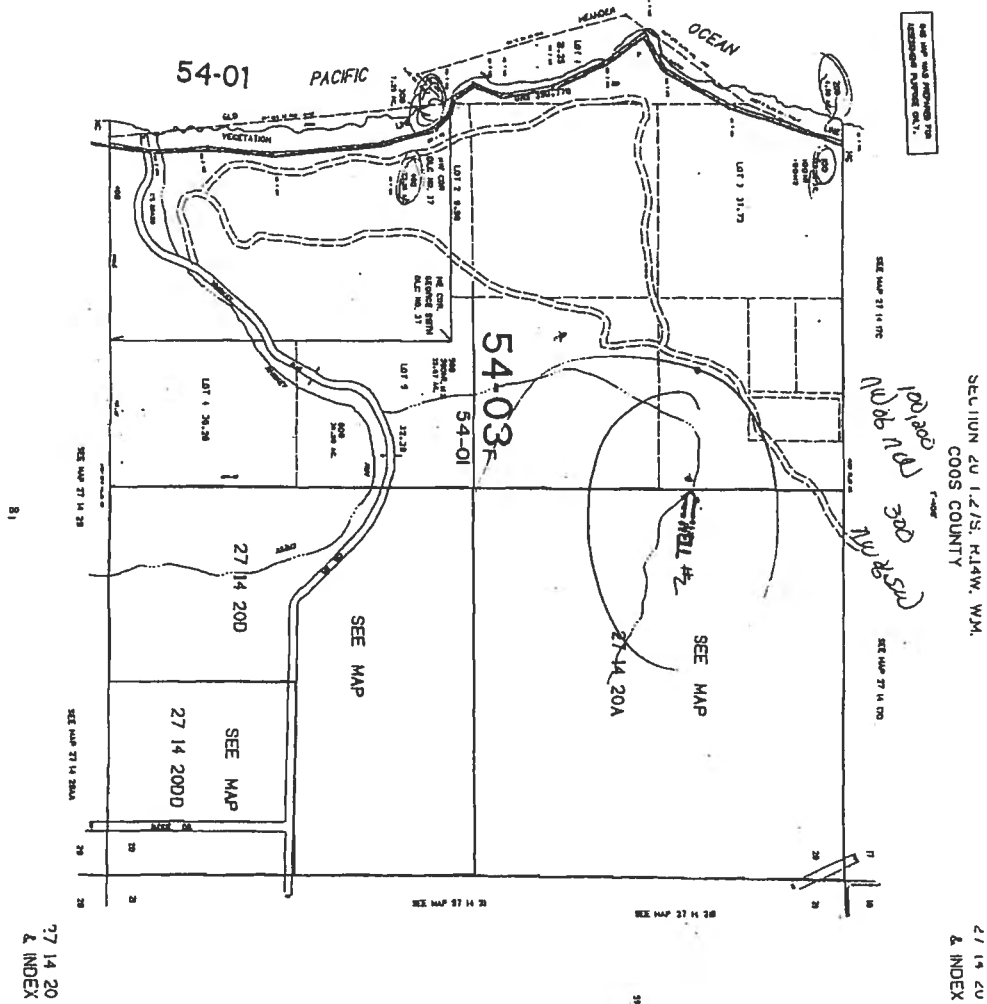
Map of well

CONTROL LAYOUT TRACED CHECKED

REDUCED COPY NOT TO SCALE

COPY

CHANGES UPDATED AS OF MAR 16 1995



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SEP 21 2006

WATER RESOURCES DEPT SALEM, OREGON

STATE OF OREGON
MONITORING WELL REPORT

(as required by ORS 537.765 & OAR 690-240-0395)

WELL LABEL # L 80266

START CARD # 182716

(1) LAND OWNER Owner Well I.D. 1153

First Name Dennis Last Name Olson
Company BALLY BANDON SHEEP RANCH
Address PO Box 1756
City Bandon State OR Zip 97411

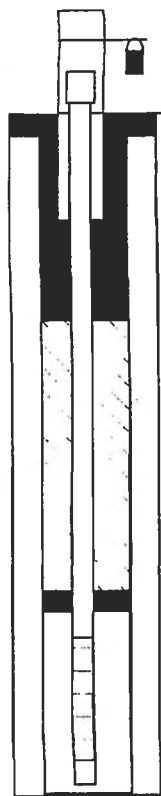
(2) TYPE OF WORK New Deepening Conversion
 Alteration (repair/recondition) Abandonment

(3) DRILL METHOD

Rotary Air Rotary Mud Cable Hollow Stem Auger Cable Mud
 Reverse Rotary Other

(4) CONSTRUCTION Piezometer Well

Depth of Completed Well 63.08 ft. Special Standard



MONUMENT/VAULT Above Ground
From 1.3 To 4

BORE HOLE
Diameter 6 From 0 To 65

CASING
Dia. 2 From 1 To 43
Gauge Sch40 Wld Thrd
Material Steel Plastic

LINER
Dia. _____ From _____ To _____
Gauge _____ Wld Thrd
Material Steel Plastic

SEAL
From 0 To 30
Material Bentonite
Amount 12 S Grout weight _____

SCREEN
Casing/Liner Casing Material PVC
Diameter 2 From 43 To 53
Slot Size .020

FILTER
From 30 To 54 Material Sand Size of pack 10/20

(5) WELL TESTS

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)
3		60	

Temperature 53 °F Lab analysis Yes By _____

Supervising Geologist/Engineer _____

Water quality concerns? Yes (describe below)

From	To	D	Amount	Units

(6) LOCATION OF WELL (legal description)

County COOS Twp 27 S N/S Range 14 W E/W WM
Sec 20 SE 1/4 of the NW 1/4 Tax Lot 100
Tax Map Number _____ Lot _____
Lat _____ ° 0 ' _____ " or _____ DMS or DD
Long _____ ° 0 ' _____ " or _____ DMS or DD
 Street address of well Nearest address

no#(vacant)Whiskey Run, Bandon

(7) STATIC WATER LEVEL

Existing Well / Predeepening	Date	SWL(psi)	+ SWL(ft)
Completed Well	09-19-2006		32.6

Flowing Artesian? Dry Hole?

WATER BEARING ZONES

Depth water was first found 32.6

SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(ft)
09-19-2006	32.6	53.5	3		32.6

(8) WELL LOG

Ground Elevation 300

Material	From	To
Cemented sand w/sand fine tan	0	4
Sand fine tan	4	9
Sandy clay tan w/gravel fine	9	10
Sand fine-coarse tan	10	16
Sand fine-coarse w/gravel fine tan	16	17
Sandy clay tan	17	18
Sand fine-coarse w/gravel fine tan	18	21
Sandy clay tan/orange w/peat	21	25
Sand fine-coarse w/gravel fine brown	25	38
Sandy clay tan/orange w/peat	38	41
Sand fine-coarse w/gravel f-m & cemented sand balls	41	45
Sand fine-coarse w/gravel fine tan	45	53
Gravel fine-medium w/sand fine-coarse tan	53	53.5
Sandy clay tan/orange	53.5	54
Clay tan & orange	54	56
Clay gray	56	57
Claystone gray	57	65

Date Started 09-18-2006 Completed 09-19-2006

(unbonded) Monitor Well Constructor Certification

I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon monitoring well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

License Number _____ Date _____

Password : (if filing electronically) _____

Signed _____

(bonded) Monitor Well Constructor Certification

I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon monitoring well construction standards. This report is true to the best of my knowledge and belief.

License Number 1493 Date 9/20/06

Password : (if filing electronically) _____

Signed *John Meckel*

Contact Info (optional) BANDON WELL & PUMP COMPANY (541) 347-7867

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SEP 21 2006

**MONITORING WELL REPORT -
continuation page**

WELL I.D. # L 80266

START CARD # 182716

(4) CONSTRUCTION

BORE HOLE

Dia	From	To

FILTER PACK

From	To	Material	Size

SEAL

Material	From	To	Amt	sacks/ lbs	grout weight
Cement	54	65	1.5	S	

CASING/LINER

Casing Liner	Dia	+	From	To	Gauge	Stl	Pstc	Wld	Thrd
<input checked="" type="checkbox"/>	2	<input type="checkbox"/>	53	63	Sch40	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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<input type="checkbox"/>		<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>		<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SCREENS

Perf/ Screen Liner	Casing/ Screen Dia	From	To	Scrn size/ slot width	Slot length	# of slots	Tele/ pipe size

(5) WELL TESTS

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)

Water Quality Concerns

From	To	Description	Amount	Units
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SEP 21 2006				

(7) STATIC WATER LEVEL

Water Bearing Zones

SWL Date	From	To	Est Flow	SWL(psi)	+	SWL(ft)

(8) WELL LOG

Material	From	To

Comments/Remarks

Well Drilled By
Bandon Well & Pump Co.
(541) 347-7867

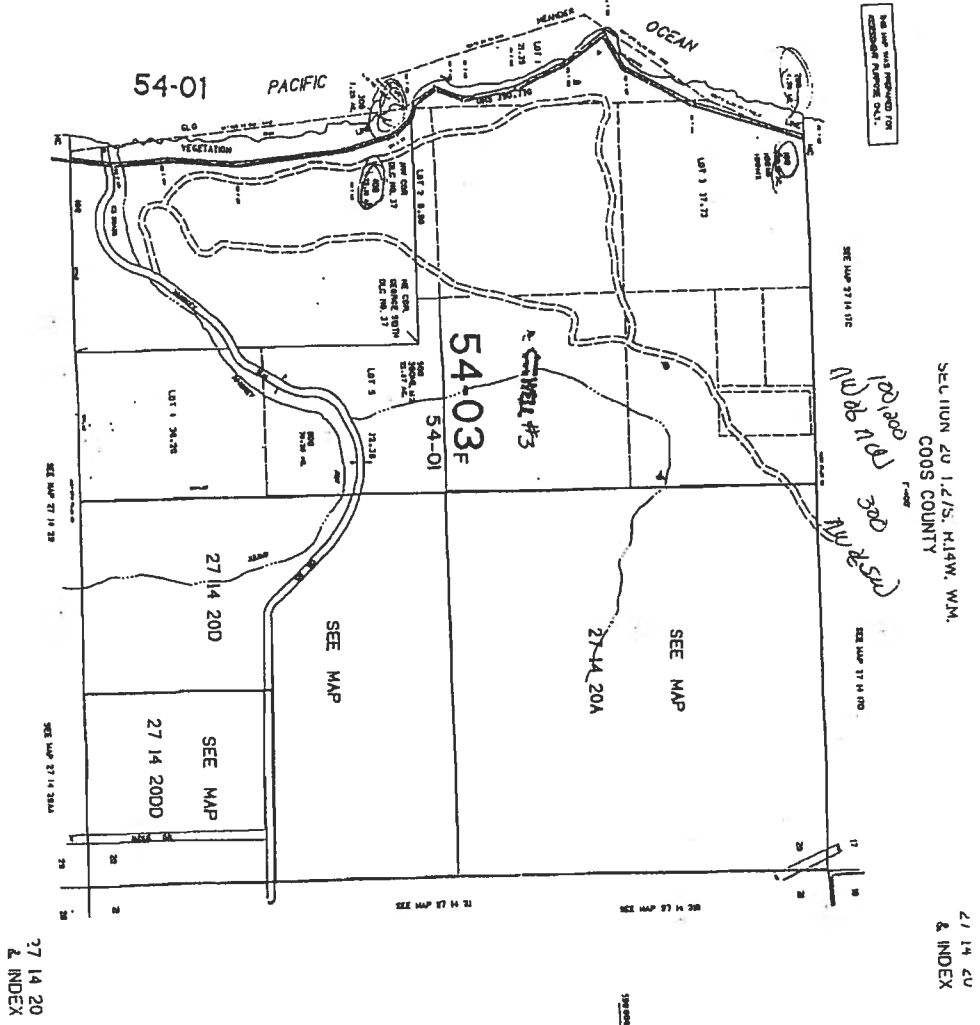
Map of well

CONTROL LAYOUT TRACED CHECKED

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COPY

CHANGES UPDATED AS OF MAR 16 1995



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WATER RESOURCES DEPT
SALEM, OREGON

STATE OF OREGON
MONITORING WELL REPORT

(as required by ORS 537.765 & OAR 690-240-0395)

WELL LABEL # L 80268

START CARD # 182714

(1) LAND OWNER Owner Well I.D. 1151

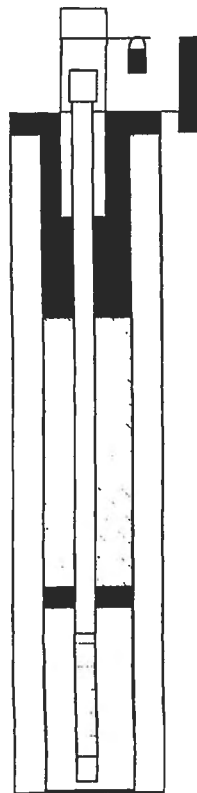
First Name Dennis Last Name Olson
Company BANDON BALLY SHEEP RANCH
Address PO Box 1756
City Bandon State OR Zip 97411

(2) TYPE OF WORK New Deepening Conversion
 Alteration (repair/recondition) Abandonment

(3) DRILL METHOD
 Rotary Air Rotary Mud Cable Hollow Stem Auger Cable Mud
 Reverse Rotary Other

(4) CONSTRUCTION Piezometer Well

Depth of Completed Well 65 ft. Special Standard



MONUMENT/VAULT Above Ground
From 1.25 To 4

BORE HOLE
Diameter 6 From 0 To 65

CASING
Dia. 2 From 1.25 To 36
Gauge Sch.40 Wld Thrd
Material Steel Plastic

LINER
Dia. 2 From 46 To 65
Gauge Sch.40 Wld Thrd
Material Steel Plastic

SEAL
From 0 1.37 To 26 1.46
Material Bentonite / cement
Amount 12 S Grout weight
1 5x cement

SCREEN
Casing/Liner Casing Material PVC
Diameter 2 From 36 To 46
Slot Size .02

FILTER
From 26 To 37 Material Sand Size of pack 10/20

(5) WELL TESTS

Pump Bailer Air Flowing Artesian

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)
2		50	1

Temperature 53 °F Lab analysis Yes By

Supervising Geologist/Engineer

Water quality concerns? Yes (describe below)

From	To	Description	Amount	Units

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SEP 21 2006

(6) LOCATION OF WELL (legal description)

County COOS Twp 27 S N/S Range 14 W E/W WM
Sec 20 NE 1/4 of the NW 1/4 Tax Lot 100
Tax Map Number Lot
Lat ° 0 ' " or DMS or DD
Long ° 0 ' " or DMS or DD
 Street address of well Nearest address

no#(vacant) off Whiskey Run

(7) STATIC WATER LEVEL

Existing Well / Predeepening	Date	SWL (psi)	+ SWL (ft)
Completed Well	09-15-2006		38.3

Flowing Artesian? Dry Hole?

WATER BEARING ZONES Depth water was first found

SWL Date	From	To	Est Flow	SWL (psi)	+ SWL (ft)
09-15-2006	38.3	46	2		38.3

(8) WELL LOG Ground Elevation 300

Material	From	To
Cemented sand brown	0	1
Sandy clay brown	1	3
Cemented sand brown	3	7
Sandy clay white	7	8
Cemented sand orange & brown	8	11
Sand fine - coarse w/ gravel fine brown	11	14
Cemented sand orange & brown	14	15
Sand fine-coarse w/gravel fine brown	15	24
Cemented sand brown	24	27
Sandy clay tan w/peat & sand coarse-fine	27	31
Gravel fine w/sand coarse-fine gray	31	38
Peat	38	43
Sand fine-coarse w/gravel fine gray brown	43	46
Peat	46	47
Sandy clay white w/gravel fine-medium gray	47	56
Clay gray	56	60
Claystone gray	60	65

Date Started 09-13-2006 Completed 09-15-2006

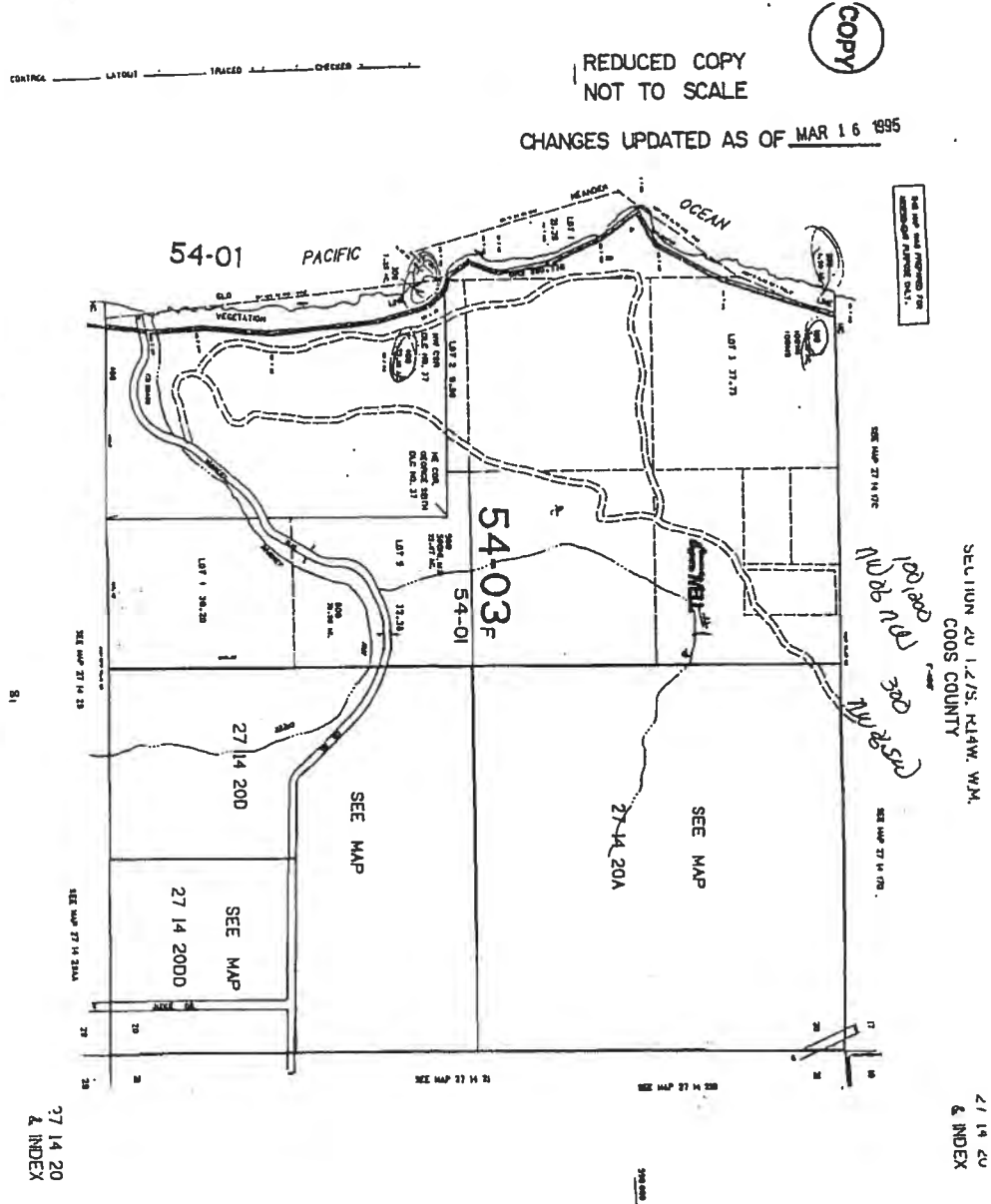
(unbonded) Monitor Well Constructor Certification
I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon monitoring well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

License Number _____ Date _____
Password : (if filing electronically) _____
Signed _____

(bonded) Monitor Well Constructor Certification
I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon monitoring well construction standards. This report is true to the best of my knowledge and belief.

License Number 1493 Date 9/18/06
Password : (if filing electronically) _____
Signed Jim Meacham
Contact Info (optional) BANDON WELL & PUMP COMPANY (541) 347-7867

Map of well



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WATER RESOURCES DEPT
SALEM, OREGON

STATE OF OREGON
MONITORING WELL REPORT

(as required by ORS 537.765 & OAR 690-240-0395)

WELL LABEL # L 80265

START CARD # 182719

(1) LAND OWNER Owner Well I.D. 1154
 First Name Dennis Last Name Olson
 Company BALLY BANDON SHEEP RANCH
 Address PO Box 1756
 City Bandon State OR Zip 97411

(2) TYPE OF WORK New Deepening Conversion
 Alteration (repair/recondition) Abandonment

(3) DRILL METHOD
 Rotary Air Rotary Mud Cable Hollow Stem Auger Cable Mud
 Reverse Rotary Other

(4) CONSTRUCTION Piezometer Well
 Depth of Completed Well 72.6 ft. Special Standard

MONUMENT/VAULT Above Ground
 From 1.3 To 4

BORE HOLE
 Diameter 6 From 0 To 73

CASING
 Dia. 2 From 1 To 54.4
 Gauge Sch40 Wid Thrd
 Material Steel Plastic

LINER
 Dia. From To
 Gauge Wid Thrd
 Material Steel Plastic

SEAL
 From 0 To 41
 Material Bentonite
 Amount 15 S Grout weight

SCREEN
 Casing/Liner Casing Material PVC
 Diameter 2 From 54.4 To 64
 Slot Size .020

FILTER
 From 41 To 65 Material Sand Size of pack 10/20

(5) WELL TESTS

Pump Bailor Air Flowing Artesian

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)
1		72	1

Temperature 53 °F Lab analysis Yes By _____
 Supervising Geologist/Engineer _____
 Water quality concerns? Yes (describe below)

From	To	Description	Amount	Units

(6) LOCATION OF WELL (legal description)
 County COOS Twp 27 S N/S Range 14 W E/W WM
 Sec 20 NW 1/4 of the SW 1/4 Tax Lot 400
 Tax Map Number Lot
 Lat 0 0 " or " DMS or DD
 Long 0 0 " or " DMS or DD
 Street address of well Nearest address
 off Whiskey Run Road no#vacant

(7) STATIC WATER LEVEL

Existing Well / Predeepening	Date	SWL(psi)	+ SWL(ft)
Completed Well	09-21-2006		51.4

Flowing Artesian? Dry Hole?
 WATER BEARING ZONES Depth water was first found 51.4

SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(ft)
09-21-2006	51.4	68	20		51.4

(8) WELL LOG Ground Elevation 200

Material	From	To
Sandy clay brown	0	1
Cemented sand brown	1	7
Sandy clay tan	7	7.5
Cemented sand brown	7.5	9
Sand tan fine	9	11
Sandy clay white	11	12
Sandy clay tan/orange	12	13
Sand fine tan	13	21
Sandy clay white	21	22
Sand fine-coarse brown	22	29
Sandy clay tan/orange	29	30
Sand fine-coarse w/gravel fine brown	30	35
Sandy clay orange	35	36
Sand fine-coarse w/gravel fine brown	36	43
Sandy clay tan	43	44
Sand fine-coarse w/gravel finebrown	44	46
Cemented sand red	46	48
Sand fine-coarse w/gravel fine brown	48	53
Continued on page 2	48	53

Date Started 09-20-2006 Completed 09-21-2006

(unbonded) Monitor Well Constructor Certification
 I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon monitoring well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.
 License Number _____ Date _____
 Password: (if filing electronically) _____
 Signed _____

(bonded) Monitor Well Constructor Certification
 I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon monitoring well construction standards. This report is true to the best of my knowledge and belief.
 License Number 1493 Date 9/22/06
 Password: (if filing electronically) _____
 Signed *Jim Mack*
 Contact Info (optional) BANDON WELL & PUMP COMPANY (541) 347-7867

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MONITORING WELL REPORT -
continuation page

WELL I.D. # L 80265
START CARD # 182719

(4) CONSTRUCTION

BORE HOLE			FILTER PACK			
Dia	From	To	From	To	Material	Size

SEAL					
Material	From	To	Amt	sacks/ lbs	grout weight
Cement	66	73	1	5	

CASING/LINER

Casing Liner	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd
● ○	2		65	72.6	Sch40	○ ●		×	
○ ○						○ ●			
○ ○						○ ●			
○ ○						○ ●			
○ ○						○ ●			
○ ○						○ ●			
○ ○						○ ●			
○ ○						○ ●			

SCREENS

Perf/ Screen	Casing/ Liner	Screen Dia	From	To	Scrn size/ slot width	Slot length	# of slots	Tele/ pipe size

(5) WELL TESTS

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)

Water Quality Concerns

From	To	Description	Amount	Units

(7) STATIC WATER LEVEL

Water Bearing Zones

SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(ft)

(8) WELL LOG

Material	From	To
Gravel fine-medium w/sand fine-coarse multi-colored	53	64
Clay brown	64	64.5
Sandy clay gray	64.5	66
Wood w/gravel & sandy clay gray (Loss circulation)	66	68
Sandstone gray	68	71
Claystone gray	71	73

Comments/Remarks

Well drilled by:
BANDON WELL & PUMP COMPANY
(541) 347-7867

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WATER RESOURCES DEPT
SALEM, OREGON

Map of well

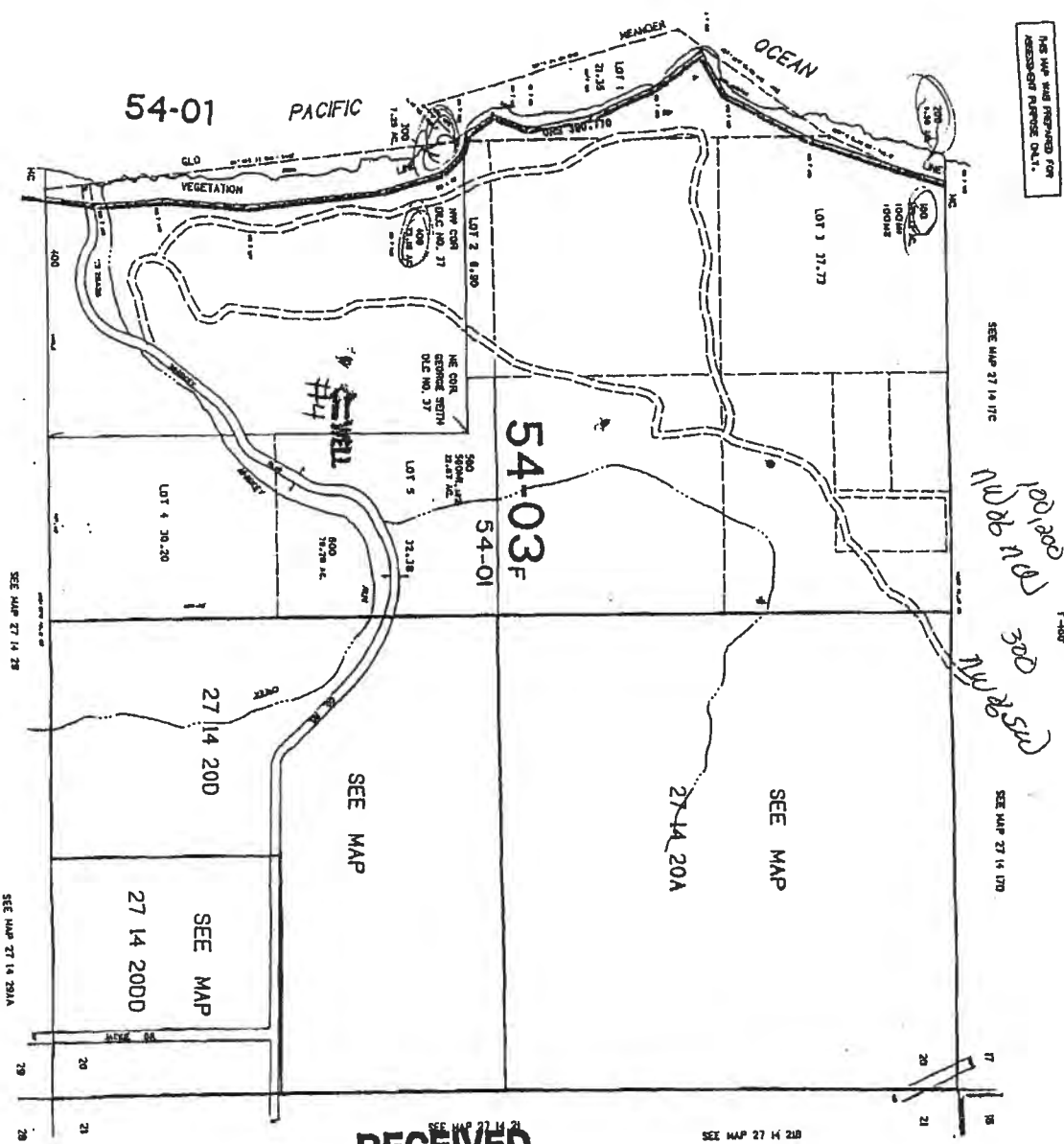
02-14-20
COPY

CONTROL ——— LAYOUT ——— TRACED ——— CHECKED ———

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NOT TO SCALE

CHANGES UPDATED AS OF MAR 16 1995

THIS MAP WAS PREPARED FOR
REVISION PURPOSE ONLY.



SELLION 20 1/2 S. R14W. W.M.
COOS COUNTY

Handwritten notes:
100' deep
110' deep
300' deep
T-400

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SEP 27 2006

WATER RESOURCES DEPT
SALEM OREGON

27 14 20
& INDEX

27 14 20
& INDEX

590 000

STATE OF OREGON
MONITORING WELL REPORT

(as required by ORS 537.765 & OAR 690-240-0395)

WELL LABEL # L 81702

START CARD # 1000457

(1) LAND OWNER Owner Well I.D. 1179-6

First Name Dennis Last Name Olson
Company BALLY BANDON SHEEP RANCH
Address PO Box 1756
City Bandon State OR Zip 97411

(2) TYPE OF WORK New Deepening Conversion
 Alteration (repair/recondition) Abandonment

(3) DRILL METHOD
 Rotary Air Rotary Mud Cable Hollow Stem Auger Cable Mud
 Reverse Rotary Other

(4) CONSTRUCTION Piezometer Well

Depth of Completed Well 70.58 ft. Special Standard

MONUMENT/VAULT Above Ground
From 1.5 To 4

BORE HOLE
Diameter 10 From 0 To 4

CASING
Dia. 2 From 1 To 52.58
Gauge Sch40 Wid Thrd
Material Steel Plastic

LINER
Dia. From To
Gauge Wid Thrd
Material Steel Plastic

SEAL
From 0 To 50
Material Bentonite Chips
Amount 10 S Grout weight

SCREEN
Casing/Liner Casing Material PVC
Diameter 2 From 52.58 To 62.58
Slot Size .011

FILTER
From 50 To 71 Material Sand Size of pack 10/20

(5) WELL TESTS

Pump Bailer Air Flowing Artesian
Yield gal/min Drawdown Drill stem/Pump depth Duration (hr)
10 65 1

Temperature 54 °F Lab analysis Yes By

Supervising Geologist/Engineer

Water quality concerns? Yes (describe below)
From To Description Amount Units

(6) LOCATION OF WELL (legal description)

County COOS Twp 27 S N/S Range 14 W E/W WM
Sec 20 SE 1/4 of the NW 1/4 Tax Lot 100
Tax Map Number Lot
Lat ° 0 ' " or DMS or DD
Long ° 0 ' " or DMS or DD
 Street address of well Nearest address

no# vacant off Whiskey Run Road, Bandon

(7) STATIC WATER LEVEL

Date SWL (psi) + SWL (ft)
Existing Well / Predeepening
Completed Well 01-09-2007 36

Flowing Artesian? Dry Hole?
WATER BEARING ZONES Depth water was first found 36

SWL Date	From	To	Est Flow	SWL (psi)	+ SWL (ft)
01-09-2007	36	62	10		36

(8) WELL LOG Ground Elevation 200

Material	From	To
Sandy topsoil	0	2
Cemented sand orange brown	2	3
Peat w/wood	3	4
Cemented sand orange brown	4	5
Sand fine-medium brown	5	16
Sandy clay white & orange	16	18
Sand fine-medium orange brown	18	20
Sandy clay orange	20	21
Sand fine-coarse brown	21	30
Sandy clay tan	30	31
Sand fine-coarse gray brown	31	38
Sandy clay tan	38	40
Sand fine-coarse gray brown w/sandy clay tan	40	48
Gravel fine w/sand coarse-fine orange brown	48	53
Gravel fine-medium w/sand coarse-fine gray brown	53	58
Gravel fine-medium w sand c-f & sandy clay orange	58	60
Gravel fine-medium w/sand coarse-fine gray brown	60	62
Claystone blue gray	62	64
Claystone lt brown	64	71

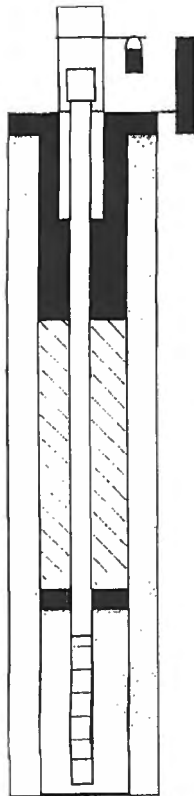
Date Started 01-09-2007 Completed 01-09-2007

(unbonded) Monitor Well Constructor Certification
I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon monitoring well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

License Number _____ Date _____
Password : (if filing electronically) _____
Signed _____

(bonded) Monitor Well Constructor Certification
I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon monitoring well construction standards. This report is true to the best of my knowledge and belief.

License Number 1493 Date 11/10/07
Password : (if filing electronically) _____
Signed *John Mack & McGwe*
Contact Info (optional) BANDON WELL & PUMP COMPANY (541) 347-7867



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(4) CONSTRUCTION

BORE HOLE			FILTER PACK			
Dia	From	To	From	To	Material	Size
6	4	71				

SEAL					
Material	From	To	Amt	sacks/ lbs	grout weight

(7) STATIC WATER LEVEL

Water Bearing Zones

SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(ft)

CASING/LINER

Casing	Liner	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2		62.58	70.58	Sch40	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

SCREENS

Perf/	Casing/	Screen	From		To		Scr	Slot	# of	Tele/
Screen	Liner	Dia	From	To	slot width	length	slot width	length	slots	pipe size

(5) WELL TESTS

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)

Water Quality Concerns

From	To	Description	Amount	Units

(8) WELL LOG

Material	From	To

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SALEM, OREGON

Comments/Remarks

Piezometer well drilled by:
Bandon Well & Pump Co.

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NOT TO SCALE

CHANGES UPDATED AS OF MAR 18 1995

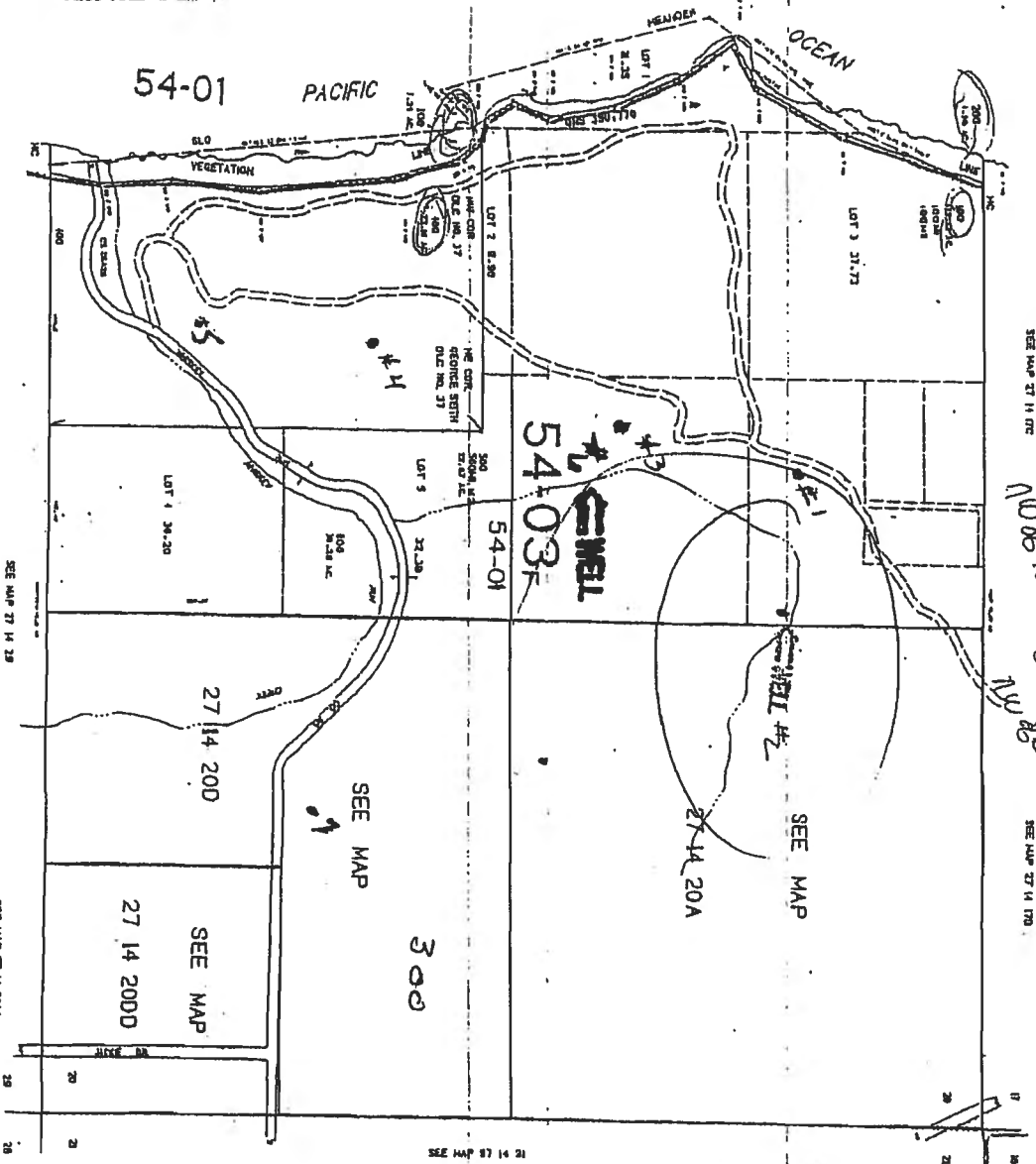
COOS 53828

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SALEM, OREGON
CONTROL

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SECTION 20 1, 2, 3, 11, 14, 15, 16, 17, 18, 19, 20
COOS COUNTY

27 14 20
& INDEX

81

27 14 20
& INDEX

**STATE OF OREGON
MONITORING WELL REPORT**

(as required by ORS 537.765 & OAR 690-240-0395)

WELL LABEL # L 81704

START CARD # 1000459

(1) LAND OWNER Owner Well I.D. 1181 P-7

First Name Dennis Last Name Olson
Company BALLY BANDON SHEEP RANCH
Address PO Box 1756
City Bandon State OR Zip 97411

(2) TYPE OF WORK New Deepening Conversion
 Alteration (repair/recondition) Abandonment

(3) DRILL METHOD
 Rotary Air Rotary Mud Cable Hollow Stem Auger Cable Mud
 Reverse Rotary Other

(4) CONSTRUCTION Piezometer Well

Depth of Completed Well 54.66 ft. Special Standard

MONUMENT/VAULT Above Ground
From 1.5 To 4

BORE HOLE
Diameter 10 From 0 To 4

CASING
Dia. 2 From 1 To 39.66
Gauge Sch 40 Wld Thrd
Material Steel Plastic

LINER
Dia. From To
Gauge Wld Thrd
Material Steel Plastic

SEAL
From 0 To 36
Material Bentonite Chips
Amount 7 S Grout weight

SCREEN
Casing/Liner Casing Material PVC
Diameter 2 From 39.66 To 49.66
Slot Size .011

FILTER
From 36 To 55 Material Sand Size of pack 10/20

(5) WELL TESTS

Pump Bailer Air Flowing Artesian

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)
<u>5</u>		<u>54</u>	<u>1</u>

Temperature 54 °F Lab analysis Yes By

Supervising Geologist/Engineer

Water quality concerns? Yes (describe below)

From	To	Description	Amount	Units

(6) LOCATION OF WELL (legal description)

County COOS Twp 27 S N/S Range 14 W E/W WM
Sec 20 NW 1/4 of the SE 1/4 Tax Lot 300
Tax Map Number Lot
Lat ° 0 ' " or DMS or DD
Long ° 0 ' " or DMS or DD
 Street address of well Nearest address
no# vacant, Whiskey Run Road, Bandon

(7) STATIC WATER LEVEL

Existing Well / Predeepening	Date	SWL(psi)	+ SWL(ft)
Completed Well	<u>01-16-2007</u>		<u>31.3</u>

Flowing Artesian? Dry Hole?
WATER BEARING ZONES Depth water was first found 31.3

SWL Date	From	To	Est Flow	SWL (psi)	+ SWL (ft)
<u>01-16-2007</u>	<u>31.3</u>	<u>50</u>	<u>5</u>		<u>31.3</u>

(8) WELL LOG

Ground Elevation 200

Material	From	To
Sandy clay tan	0	3
Cemented sand orange brown & tan	3	6
Sand fine brown	6	8
Sandy clay tan	8	9
Sand fine-coarse gray brown w/sandy clay white	9	19
Sand coarse-fine gray brown w/sandy clay tan	19	21
Sandy clay w/sand fine-coarse brown	21	24
Sand c-f gray brown w/sandy clay brown	24	33
Cemented sand black & brown	33	40
Sand fine-coarse gray brown	40	45
Sand coarse-fine w/gravel fine-coarse gray brown	45	50
Sandy clay orange	50	51
Claystone gray brown	51	55

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WATER RESOURCES DEPT.
SALEM, OREGON

Date Started 01-16-2007 Completed 01-16-2007

(unbonded) Monitor Well Constructor Certification
I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon monitoring well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

License Number _____ Date _____
Password : (if filing electronically) _____
Signed _____

(bonded) Monitor Well Constructor Certification
I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon monitoring well construction standards. This report is true to the best of my knowledge and belief.

License Number 1493 Date 1/17/07
Password (if filing electronically) _____
Signed [Signature]
Contact Info (optional) BANDON WELL & PUMP COMPANY (541) 347-7867

ORIGINAL - WATER RESOURCES DEPARTMENT

THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

Form Version: 0.31

(4) CONSTRUCTION

BORE HOLE			FILTER PACK			
Dia	From	To	From	To	Material	Size
6	4	55				

SEAL						
Material	From	To	Amt	sacks/ lbs	grout weight	

CASING/LINER

Casing Liner	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd
<input type="checkbox"/>		<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>		<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>		<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>		<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>		<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SCREENS

Perf/ Screen	Casing/ Liner	Screen Dia	From	To	Scrn size/ slot width	Slot length	# of slots	Tele/ pipe size

(5) WELL TESTS

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)

Water Quality Concerns

From	To	Description	Amount	Units

(7) STATIC WATER LEVEL

Water Bearing Zones

SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(ft)

(8) WELL LOG

Material	From	To

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JAN 19 2007
WATER RESOURCES DEPT.
SALEM, OREGON

Comments/Remarks

Piezometer Well Drilled By:
Bandon Well & Pump Co.
(541) 347-7867

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CHANGES UPDATED AS OF MAR 16 1996

CONTROL CHECKED WATER RESOURCES DEPT SALEM, OREGON

92825 5325

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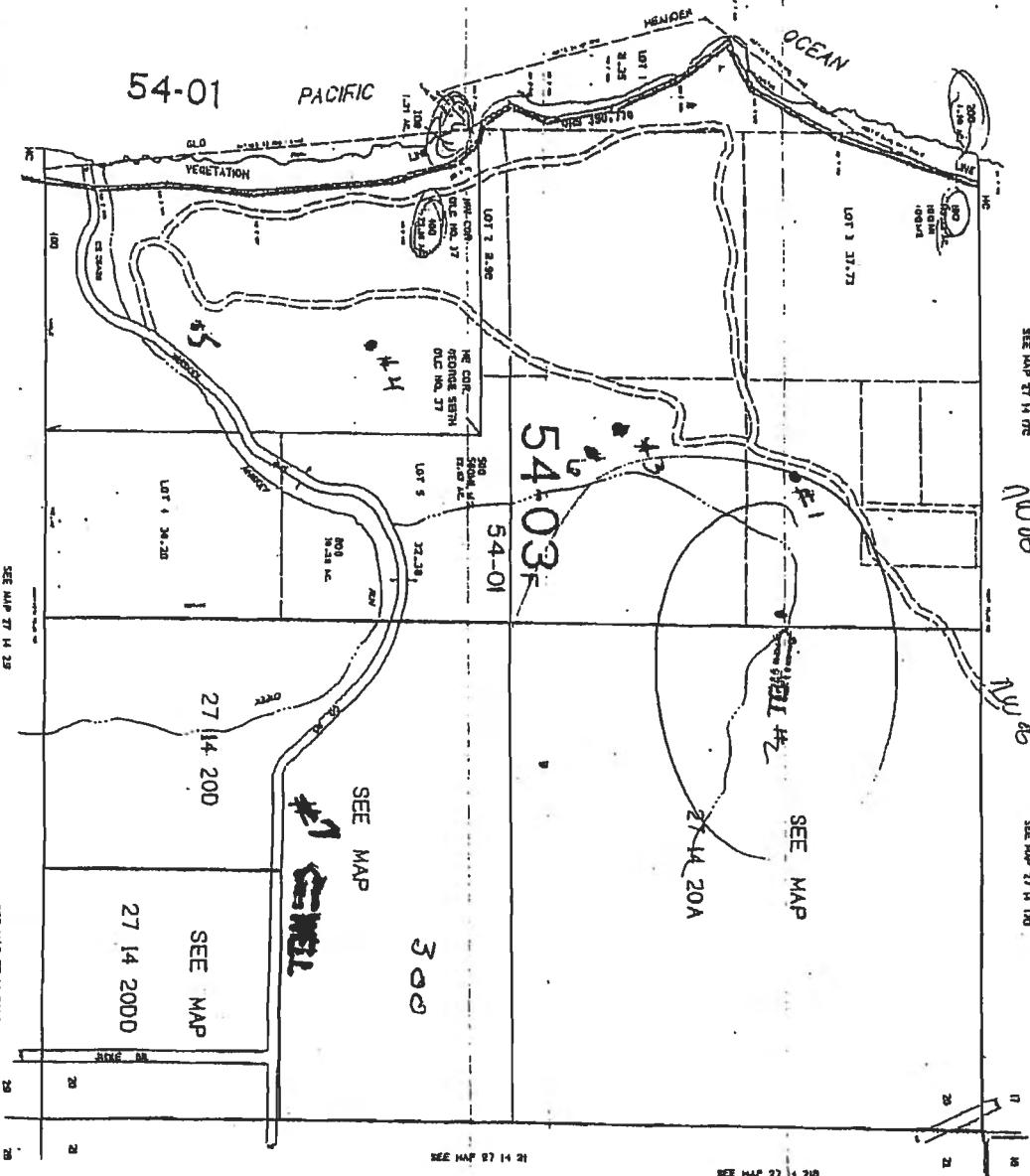
SEE MAP 27 14 17C

SEE MAP 27 14 17D

SECTION 20 12/3. R14W. W.M.
COOS COUNTY

F-000

Handwritten: 100' x 100' 300' x 150' NW 1/4



SEE MAP 27 14 23

SEE MAP 27 14 20A

SEE MAP 27 14 21

SEE MAP 27 14 20B

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27 14 20
& INDEX

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& INDEX

STATE OF OREGON

WATER SUPPLY WELL REPORT

(as required by ORS 537.765 & OAR 690-205-0210)

03-30-2007

WELL LABEL # L 81718

START CARD # 1000477

(1) LAND OWNER Owner, Well I.D. 1183 W-6

First Name Dennis Last Name Olson
Company BALLY BANDON SHEEP RANCH
Address PO BOX 1756
City BANDON State OR Zip 97411

(2) TYPE OF WORK [X] New Well [] Deepening [] Conversion [] Alteration (repair/recondition) [] Abandonment

(3) DRILL METHOD [] Rotary Air [X] Rotary Mud [] Cable [] Auger [] Cable Mud [] Reverse Rotary [] Other

(4) PROPOSED USE [] Domestic [X] Irrigation [] Community [] Industrial/ Commercial [] Livestock [] Dewatering [] Thermal [] Injection [] Other

(5) BORE HOLE CONSTRUCTION Special Standard [] (Attach copy) Depth of Completed Well 65.00 ft.

Table with columns: Dia, From, To, Material, SEAL From, To, Amt, lbs

How was seal placed: Method [] A [] B [] C [] D [] E [X] Other Pour from surface
Backfill placed from 32 ft. to 70 ft. Material Sand Size
Explosives used: [] Yes Type Amount

(6) CASING/LINER Casing Liner Dia + From To Gauge Stl Plstc Wld Thrd

Table with columns: Casing Liner, Dia, From, To, Gauge, Stl, Plstc, Wld, Thrd

(7) PERFORATIONS/SCREENS

Table with columns: Perf/ Screen, Casing/ Liner, Dia, From, To, Scrn/slot width, Slot length, # of slots, Tele/ pipe size

(8) WELL TESTS: Minimum testing time is 1 hour

Table with columns: Pump/Bailer/Air/Flowing Artesian, Yield gal/min, Drawdown, Drill stem/Pump depth, Duration (hr)

Table with columns: Temperature, Water quality concerns, From, To, Description, Amount, Units

(9) LOCATION OF WELL (legal description)

County Twp 27.00 N/S Range 14.00 E/W WM
Sec 20 1/4 of the 1/4 Tax Lot 400
Tax Map Number Lot
Lat Long
[] Street address of well [] Nearest address
88500 Whisky Run Road, Bandon

(10) STATIC WATER LEVEL

Table with columns: Existing Well / Predeepening, Completed Well, Date, SWL(psi), SWL(ft)

(11) WELL LOG

Table with columns: Material, From, To

Date Started 01-11-2007 Completed 03-29-2007

(unbonded) Water Well Constructor Certification

I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards.

License Number Date Electronically Filed Signed

(bonded) Water Well Constructor Certification

I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above.

License Number 1493 Date 03-30-2007 Electronically Filed Signed JAMES A MACK SR (E-filed) Contact Info (optional) BANDON WELL & PUMP COMPANY (541) 347-7867

STATE OF OREGON WATER SUPPLY WELL REPORT

03-27-2007

WELL LABEL # L 81722

(as required by ORS 537.765 & OAR 690-205-0210)

START CARD # 1000458

(1) LAND OWNER Owner Well I.D. 1180 W-5

First Name Dennis Last Name Olson
Company Bally Bandon Sheep Ranch
Address PO Box 1756
City Bandon State OR Zip 97411

(2) TYPE OF WORK [X] New Well [] Deepening [] Conversion [] Alteration (repair/recondition) [] Abandonment

(3) DRILL METHOD

[] Rotary Air [X] Rotary Mud [] Cable [] Auger [] Cable Mud [] Reverse Rotary [] Other

(4) PROPOSED USE [] Domestic [X] Irrigation [] Community [] Industrial/ Commercial [] Livestock [] Dewatering [] Thermal [] Injection [] Other

(5) BORE HOLE CONSTRUCTION Special Standard [] (Attach copy)

Depth of Completed Well 75.00 ft.

Table with columns: Dia, From, To, Material, SEAL From, To, Amt, lbs. Row 1: 12.25, 0, 76, , 0, 32, 28

How was seal placed: Method [] A [] B [] C [] D [] E

[X] Other Pour from surface

Backfill placed from ft. to ft. Material

Filter pack from 32 ft. to 75 ft. Material Sand Size

Explosives used: [] Yes Type Amount

(6) CASING/LINER

Table with columns: Casing, Liner, Dia, From, To, Gauge, Stl, Plstc, Wld, Thrd. Row 1: 8, 1.3, 62.5, sdr26, [X]

Shoe [] Inside [] Outside [] Other Location of shoe(s)

Temp casing [] Yes Dia From To

(7) PERFORATIONS/SCREENS

Perforations Method Screens Type Johnson V-Wire Material Stainless Steel

Table with columns: Perf/Screen, Casing/Liner, Dia, From, To, Scrm/slot width, Slot length, # of slots, Tele/pipe size. Row 1: 8, 62.5, 72.5, .041, 8

(8) WELL TESTS: Minimum testing time is 1 hour

[X] Pump [] Bailer [] Air [] Flowing Artesian

Table with columns: Yield gal/min, Drawdown, Drill stem/Pump depth, Duration (hr). Row 1: 2.6, 2.5, 75, 1

Temperature 53 °F Lab analysis [] Yes By

Water quality concerns? [] Yes (describe below)

Table with columns: From, To, Description, Amount, Units

(9) LOCATION OF WELL (legal description)

County Twp 27.00 N/S Range 14.00 E/W WM

Sec 20 1/4 of the 1/4 Tax Lot 400

Tax Map Number Lot

Lat " or DMS or DD

Long " or DMS or DD

[X] Street address of well [] Nearest address

no # vacant Whiskey Run Road, Bandon

(10) STATIC WATER LEVEL

Table with columns: Date, SWL(psi), SWL(ft). Row 1: 03-26-2007, 59.5

Flowing Artesian? [] Dry Hole? []

WATER BEARING ZONES

Depth water was first found 46.75

Table with columns: SWL Date, From, To, Est Flow, SWL(psi), SWL(ft). Row 1: 03-22-2007, 59.5, 74, 10, 59.5

(11) WELL LOG

Ground Elevation 150

Table with columns: Material, From, To. Rows: Cemented sand orange brown (0-3), Sand fine tan (3-8), etc.

Date Started 01-10-2007 Completed 03-26-2007

(unbonded) Water Well Constructor Certification

I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards.

License Number Date

Electronically Filed

Signed

(bonded) Water Well Constructor Certification

I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above.

License Number 1493 Date 03-27-2007

Electronically Filed

Signed JAMES A MACK SR (E-filed)

Contact Info (optional) BANDON WELL & PUMP COMPANY (541) 347-7867

(5) BORE HOLE CONSTRUCTION

BORE HOLE			Material	SEAL		Amt	sacks/ lbs
Dia	From	To		From	To		

FILTER PACK

From	To	Material	Size

(6) CASING/LINER

Casing	Liner	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd
○	○						○	○		
○	○						○	○		
○	○						○	○		
○	○						○	○		
○	○						○	○		
○	○						○	○		

(7) PERFORATIONS/SCREENS

Perf/Screen	Casing/Liner	Screen Dia	From	To	Scr/slot width	Slot length	# of slots	Tele/pipe size

(8) WELL TESTS: Minimum testing time is 1 hour

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)

Water Quality Concerns

From	To	Description	Amount	Units

(10) STATIC WATER LEVEL

Water Bearing Zones

SWL Date	From	To	Est Flow	SWL(psi)	+	SWL(ft)

(11) WELL LOG

Material	From	To
Gravel fine-coarse w/sand coarse-fine brown green	53	57
Gravel fine-medium w/sand coarse-fine brown red	57	62
Gravel fine-medium w/sand coarse-fine brown green	62	67
Gravel fine-coarse w/sand coarse-fine brown	67	72
Gravel fine-coarse w/sandy clay tan	72	74
Sandy clay gray	74	74.5
Claystone gray	74.5	76

Comments/Remarks

At the time test hole and piezometer were drilled in January 07 the SWL was 46.75'

WELL DRILLED BY:
BANDON WELL & PUMP COMPANY
(541) 347-7867

Golder Associates Inc.

1430 W. Broadway, Suite 108
Tempe, Arizona USA 85282
Telephone: (480) 966-0153
Fax: (480) 966-0193



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DEC 04 2007

December 3, 2007

**WATER RESOURCES DEPT
SALEM, OREGON**

Our Ref.: 023-1206.300

Oregon Water Resources Department
Attn: Water Right Permit Extensions
725 Summer Street NE, Suite A
Salem, Oregon 97301

**RE: EXTENSION OF TIME APPLICATION FOR WATER RIGHT PERMIT G15437
BALLY BANDON SHEEP RANCH**

Golder Associates Inc. has prepared the enclosed application for the extension of time for water right permit G15437, issued to Mr. Phil Friedmann and the Bally Bandon Sheep Ranch (BBSR). The application requests an additional five years in order to satisfy OWRD stream monitoring requirements, and complete the water construction project that will allow BBSR to fully use the permitted quantity of water. Also attached is a check for the statutory fee of \$350.

If you have any questions regarding the application and accompanying materials, or need additional information, please do not hesitate to contact the authorized contact, Ron Blegen, at 480-966-0153 and rblegen@golder.com.

Sincerely,

GOLDER ASSOCIATES INC.

A handwritten signature in blue ink that reads 'Ronald P. Blegen'.

Ronald P. Blegen, RG., CWRE
Senior Project Hydrogeologist

RPB/rpb



Oregon Water Resources Department
 725 Summer Street NE, Suite A
 Salem Oregon 97301
 (503) 986-0900
 www.wrd.state.or.us

Application for Extension of Time for a Water Right Permit

TO THE DIRECTOR OF THE OREGON WATER RESOURCES DEPARTMENT

*A separate extension application must be submitted for each permit as per
 OAR 690-315-0020(2).*

*This application and a summary of review criteria and procedures that are generally applicable to this
 application are available at <http://www.wrd.state.or.us/OWRD/PUBS/forms.shtml>.*

I, Phil Friedmann c/o Bally Bandon Sheep Ranch (BBSR)
 NAME OF PERMIT HOLDER [OAR 690-315-0020(1) and (3)(a)]

875 North Michigan Avenue, St. 3928 Chicago IL 60611
 ADDRESS CITY STATE ZIP

312-794-8481
 PHONE E-MAIL ADDRESS

the permit holder of: Application Number - G-15697

Permit Number - G-15437
 [OAR 690-315-0020(3)(b)]

do hereby request that the time in which to:

complete construction (of diversion/appropriation works and/or purchase and installation of the
 equipment necessary to the use of water), which time now expires on October 1, 2007, be
 extended to October 1, 2012,

and/or the time in which to:

apply water to full beneficial use under the terms and conditions of the permit, which time now
 expires on October 1, 2007, be extended to October 1, 2012.

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**WATER RESOURCES DEPT
 SALEM, OREGON**

Before submitting your Application for Extension of Time, make sure the following items are included:

- This completed Application for Extension of Time.
- Statutory fee of \$350.
- Signature page (last page of this Application for Extension of Time).
- All supporting documentation and/or evidence referenced in the Application for Extension of Time.

MAIL COMPLETED APPLICATION

along with the

\$350 STATUTORY FEE TO:

**Water Resources Department
Attn: Water Right Permit Extensions
725 Summer Street NE, Suite A
Salem, Oregon 97301**



GENERAL TIPS:

- Request the reasonable amount of time necessary to fully complete the water construction project and/or to fully use the permitted quantity of water under the terms and conditions of your permit. Should this request be approved, it will be OWRD's expectation that you will complete your project within the new time period allowed. Future extensions may not be granted.
- A separate Application for Extension of Time must be submitted for each permit. OAR 690-315-0020(2).
- An instruction sheet (Instructions for Filling Out Extension of Time Application for Permits) provides details that will help you answer each question on the application. Permit extensions are evaluated under OAR Chapter 690, Division 315. These rules may be viewed at: <http://www.wrd.state.or.us/OWRD/LAW/index.shtml>.

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SALEM, OREGON**

- You may provide OWRD with any additional information or evidence that will aid us in making our decision. Please note that OWRD may require other information that is necessary to evaluate the application. OAR 315-0020(3)(n).
- After careful review of the Application for Extension of Time, you may contact OWRD at (503) 986-0900, to ask questions and request assistance from a Permit Extensions Specialist in the Water Rights and Adjudications Division.
- Once an Application for Extension of Time is received by OWRD, it will be reviewed for completeness. OWRD will return any incomplete or deficient applications to the applicant. OAR 690-315-0040(1)(a).

Reference Materials Needed to Complete this Application:

- The water right permit. If needed, a copy of the water right permit can be downloaded from the Department's Website at <http://www.wrd.state.or.us> (find the link to the Water Rights Information System (WRIS)). Or, a copy of the permit (or other documents) may be requested by water right application number from the Water Rights Division at 503-986-0900 (copy fees will apply).
- Documentation which demonstrates compliance with permit conditions (for example, well construction logs; static water level measurement reports; annual water use reports; ODFW fish screen certification; a plan to monitor the effect of water use on ground water aquifers utilized under the permit; etc.).

Answer the Following Questions to Complete this Application for Extension of Time

[OAR 690-315-0020(3)(d)]

1. Did the actual construction of the water system/well drilling begin within the time specified in the permit? [yes/no] Yes



TIP: *Not all permits specify a date by which construction was to begin.*

Date construction began is: November 2001

Details of construction: There are no provisions in the permit stating a date by which construction is to begin. See attached pages for additional information on dates of construction.

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SALEM, OREGON**

2. Permits typically contain standard or special conditions that must be satisfied to lawfully develop and use permitted water. In the development of this water right, have you satisfied the conditions contained in your permit? [yes/no] Yes

A) Describe how you have complied with each condition contained in the original permit [and, if applicable, each condition contained in any order approving a permit amendment and/or a final order approving a prior extension of time]. Include the date when the condition was satisfied.



TIP: The instruction sheet for the Application for Extension of Time provides an explanation of the typical conditions that must be addressed in this question.

CHART-A

Condition No.**	Date Satisfied	Describe How Permit Condition Has Been Satisfied
		See attached pages for details.

** Condition No: Hand-number each condition on a copy of your permit (and, if applicable, permit amendment and prior extension).

B) If you have NOT complied with all applicable conditions, explain the reasons why and indicate with a date certain (in the near future) when compliance will occur.

CHART-B

Condition No.**	Date Will Comply	Explain Why Each Permit Condition Has NOT Been Satisfied
n/a		The degree of the water system buildout has not matched the original planned rate due, in part, to the requirement that Bally Bandon Sheep Ranch monitor the effect of groundwater pumping on Whiskey Run Creek for 5 years, and the resulting uncertainty regarding the future availability of water for the golf course. Monitoring to date has indicated no impact of pumping on creek flow, but permit conditions require monitoring beyond the "C-date" on the permit before the OWRD will make a determination as to impact on the stream.

** Condition No: Hand-number each condition on a copy of your permit (and, if applicable, permit amendment and prior extension).

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3. Provide evidence of physical progress made toward completion of the water system, and of progress made toward making beneficial use of water within the permitted time period (CHART-C); and if applicable, within the time period of the most recent extension granted (CHART-D).

A) CHART-C (below) must be completed for all Application for Extension of Time requests. Use chronological order.

CHART-C

INSERT DATES	WORK ACCOMPLISHED BEFORE PERMIT WAS ISSUED <i>List any work done before the permit was issued – eg. well drilled.</i>	COST*
	See Attached Pages	
INSERT DATES	WORK ACCOMPLISHED AFTER PERMIT WAS ISSUED and PRIOR TO DATE SPECIFIED IN PERMIT FOR COMPLETE APPLICATION OF WATER <i>List work/actions done during the permitted time period.</i>	COST*
	The permit was signed - find date above signature on last page of permit.	
	See Attached Pages	
	The permit specified "Actual Construction Work" shall begin ("A-Date") - not all permits contain this date.	
<u>10/1/2007</u>	The permit specified complete application of water to the use shall be made ("C-Date") - all permits contain this date.	
INSERT DATES	WORK ACCOMPLISHED AFTER "C-DATE" <i>COMPETE ONLY IF THIS IS YOUR 1st APPLICATION FOR EXTENSION OF TIME: List work done after the date specified in the permit for complete application of water up to the date of this Application for Extension of Time.</i>	COST*
	See Attached Pages	
Total Cost to Date		\$500K to \$650K

* If exact cost is not known, you must provide your best estimate.

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- B) If this is not your 1st Application for Extension of Time request, fill out CHART-D below (in addition to CHART-C above). Use chronological order.

CHART-D

INSERT DATES	WORK ACCOMPLISHED DURING THE LAST EXTENSION PERIOD <i>List all work done during the last authorized extension period.</i>	COST*
10/1/____	"Extended From" date for complete application of water used in the 1 st (or the most recent) Application for Extension of Time.	
	NOT APPLICABLE	
10/1/____	"Extended To" date for complete application of water resulting from the 1 st (or the most recent) Application for Extension of Time.	

INSERT DATES	WORK ACCOMPLISHED AFTER THE LAST EXTENSION PERIOD EXPIRED <i>List all work done after the last authorized date for complete application of water up to the date of this Application for Extension of Time.</i>	COST*
	NOT APPLICABLE	
Total Cost to Date		

* If exact cost is not known, you must provide your best estimate.

[OAR 690-315-0020(3)(f)]

4. Cost of project to date: \$500,000 to \$650,000
(The total cost from CHART-C and CHART-D)

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[OAR 690-315-0020(3)(e)(B)]

- 5. Provide the maximum rate, or duty if applicable, of water diverted for beneficial use under this permit and/or prior extensions of time, if any, made to date.



TIP: Report the rate in the same units of measurement as specified in the permit, being cfs (cubic feet per second), gpm (gallons per minute) or AF (acre-feet – usually only specified on a reservoir water right). Do not provide daily, monthly or annual water use totals.

Maximum rate = _____ cfs (cubic feet per second) or,

Maximum rate = 125 gpm (gallons per minute) or,

Acre Feet Stored = _____ AF

[OAR 690-315-0020(3)(e)(C)]

- 6. Provide the total number of acres irrigated to date under this permit.

Total acres irrigated to date: 15 (currently)

[OAR 690-315-0020(3)(j)]

- 7. Provide a summary of your future plans and schedule to complete the construction of the water system, and/or apply water to full beneficial use under the terms and conditions of the permit.

CHART-E

APPROXIMATE DATE RANGE (projected)	WORK OR ACTION TO BE ACCOMPLISHED (projected)	ESTIMATED COST (projected)
2008	Bring second irrigation well on line and install pipe to pond.	\$50,000
2009 - 2010	Design and install underground sprinkler system on golf course.	\$100,000
2008 - 2012	Complete construction of remaining 5 holes on current course and	\$300,000
	apply water accordingly. Install pumping station at pond.	
Year: 2012	Intend to apply water to full beneficial use under the terms and conditions of this permit.	
Total Cost		\$450,000

[OAR 690-315-0020(3)(g)]

- 8. Estimated remaining cost to complete the project: \$450,000 to \$500,000
(The total cost from CHART-E)

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9. List the reasons why the project was not constructed, and/or water was not beneficially used within permit time limits. Provide supporting information for the reason(s) that best fits your circumstances.

A) The project is of a size and scope that was originally planned to be phased in over a time frame longer than the one allowed in the permit.

The rate of development on the course and related facilities has been dependent on the ability to demonstrate that a reliable long-term water source will be available. Until the issue regarding potential impacts to Whiskey Run Creek are resolved (which requires 5 years of monitoring) BallyBandon Sheep Ranch is unlikely to be prepared to invest heavily in water development infrastructure. Creek monitoring is scheduled to continue through at least August 2008.

B) The financial resources needed to develop the project precluded completion of the project within authorized time frames.

Not applicable.

C) Good faith attempts to comply with permit conditions and/or acquire permits from other agencies, or otherwise comply with government regulations, delayed completion of the project.

Bally Bandon Sheep Ranch has made good faith attempts to comply with all permit conditions. Whiskey Run Creek monitoring is required to continue into 2008, beyond the "C-date." Ground-water exploration work has been completed and we have concluded that no more than the two existing irrigation well locations are suitable for development.

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WATER RESOURCES DEPT
SALEM, OREGON

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D) Acts of God or other unforeseen events delayed full development of the water system and use of water within the authorized time frames.

Not applicable

[OAR 690-315-0020(3)(k)]

10. Justify the time requested to complete the project and/or apply the water to full beneficial use. Your justification should combine information from your answers from Questions 2, 3-A, 3-B, 7 and 9 of this Application for Extension of Time, and should also include any other information or evidence to establish that the requested amount of time is sufficient and that you will be able to complete the project within the amount of time requested.

The requested amount of time will extend the time permitted beyond the end of the 5-year stream monitoring date. Assuming OWRD declares that the pumping has a negligible impact on Whiskey Run Creek, the remainder of the extension period should provide enough time to build out the irrigation system as originally envisioned and complete the construction of the golf course and related infrastructure.

11. Provide any other information you wish OWRD to consider while evaluating your Extension of Time Application.

Most importantly, the period of stream monitoring requires Bally Bandon Sheep Ranch to monitor stream flow beyond the time allotted in the current permit. At a minimum an extension is needed to cover this extra time. Due to the uncertainty regarding impacts of pumping to the creek, Bally Bandon Sheep Ranch has been unable to commit to building the system out.

I am the permit holder, or have authorization from the permit holder, to apply for an extension of time under this permit. I understand that false or misleading statements in this extension application are grounds for OWRD to suspend processing of the request and/or reason to deny the extension.

Ronald P. Bly, R.G., CWRE
Signature

12/03/07
Date

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Permit Conditions Amendment

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WATER RESOURCES DEPT
SALEM, OREGON

The following sections correspond to portions of the attached Extension of Time Application for Permit G-15437, providing additional project detail as needed and where space was insufficient within application form. The numbered headings correspond to section numbers within the application form and the subsequent text and tables provide additional detail pertaining to water system construction, compliance with permit requirements, and justification for this request for an extension of time.

1. Details of Water System Construction

There are no provisions in Permit G15437 that dictate when water system construction at the Bally Bandon Sheep Ranch (BBSR) was to begin. The priority date on the permit is February 4, 2002. A subsequent settlement agreement, which included additional work provisions to be added to the standard permit conditions, was issued on May 5, 2003.

Construction of the water system began in 2001 with the drilling and construction of irrigation well COOS-52219 (L-51164). The well is equipped with a submersible pump capable of producing 125 gallons per minute (gpm), and an in-line flow meter. A second irrigation well, COOS-53868 (L-81718) was installed in 2007, but does not currently include a pumping system and has not been used for irrigation. Test boreholes were drilled at eight other locations on the property. Data from these wells indicated that water production rates would likely be very low at these locations. The boreholes were converted to piezometers. Well logs for each of the irrigation wells and piezometers are attached.

A lined storage pond was constructed in 2001. The pond is 270 feet long and 140 feet wide, with a maximum depth of 16 feet. It has an estimated capacity of 2.5 million gallons (7.67 acre-feet). At the present time, the water stored in the pond is for emergency use only. The level in the pond is topped off periodically with water from the well. Water is pumped from the well to the storage pond through 750 feet of four-inch diameter flexible water hose. A site beside the pond has been prepared for the installation of a pump, but at the present time, a pump has not been installed. Water is distributed to the irrigated portions of the golf course is conducted via a 1,000-gallon water truck, flexible hoses, and sprinklers.



Irrigation Well COOS52219. Note flow meter.



Irrigation Storage Pond.

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BBSR installed a continuous reading gaging station on Whiskey Run Creek during the summer of 2003. Permit conditions require that flow be monitored for a minimum of five years before OWRD reviews the data and prepares a ruling on continued monitoring. BBSR has reported stream flow and irrigation well pumping rate data to OWRD in a series of annual reports for water years 2004, 2005, and 2006 (attached). *[The report for water year 2007 is in production as of the submission date of this application. It will be submitted to OWRD in December 2007.]*

2. Compliance with Permit Conditions (Chart A)

The BBSR has complied with all of the standard and permit specific conditions presented in Permit G15437. For reference, a copy of the permit is attached to this application package with conditions labeled. The information provided in the following sections provides the data and information requested in Chart A of the application form.

Condition 1

Source of Water: Six Wells in Whiskey Run Creek Basin

Statement of Compliance

To date BBSR has installed two irrigation wells and 8 test borings or monitoring wells on the property. The first irrigation well was installed in 2001, prior to the permit priority date. The second well was installed in March 2007. A test well program conducted between September 2006 and March 2007 revealed no other candidate sites that would produce sufficient water for the operation of the golf course. Copies of OWRD well reports for all wells constructed on the BBSR site are attached.

Condition 2

Purpose of Use: Irrigation of 95.0 acres.

Statement of Compliance

To date, BBSR has completed turf development for 13 of the 18 planned holes on the course. At present, only the greens and the areas immediately surrounding the greens are irrigated. This represents approximately 15 acres of the 95 acres allowed under the permit. BBSR is planning to develop additional lands to accommodate the remaining golf holes and supporting facilities in order to fully develop the allowed use of water under this permit. This may include additional pumping locations.

Condition 3

Maximum Rate: 0.45 cubic foot per second (201.96 gpm).

Statement of Compliance

The maximum rate of discharge that has been measured at the irrigation well is 125 gpm. Additional capacity may be developed to supplement this discharge rate.

Condition 4

Period of Use: March 1 through October 31

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WATER RESOURCES DEPT
SALEM, OREGON

Statement of Compliance

Pumping records presented in annual reports prepared by Golder Associates Inc. on behalf of BBSR indicate that irrigation is only conducted during the designated irrigation season of March 1 through October 31 of each year.

Condition 5

The amount of water used for irrigation under this right, together with the amount secured under any other right existing for the same lands, is limited to a diversion of one-eightieth of one cubic foot per second (or its equivalent) and 2.5 acre-feet for each acre irrigated during the irrigation season of each year.

Statement of Compliance

Actual water use is monitored at the wellhead with an in-line totalizing flow meter. Data gathered has been summarized in the annual water year reports (attached).

$$\text{Maximum Rate of Use: } \frac{1}{80} \left(\frac{1cfs}{acre} \right) = \frac{1}{80} \left(\frac{448.8gpm}{acre} \right) = 5.61 \frac{gpm}{acre}$$

$$\text{Duty: } (2.5 \text{ acre} \cdot \text{feet}) \times 95 \text{ acres} = 237.5 \frac{\text{acre} \cdot \text{feet}}{\text{year}}$$

Total water pumped during the 2006 irrigation season was 15.18 acre feet to irrigate a total of 15 acres (~1 acre-foot/acre). The maximum reported pumping discharge rate was 125 gpm. Water pumped from the well was used to fill a 1,000 gallon water truck (or to top off the level in the pond), from which water is distributed to the 15 irrigated acres via water truck and hose at a much lower rate.

Condition 6

Applicant is to pay for the installation and operation of a continuous record gaging station at a suitable location near the mouth of Whiskey Run Creek. The gaging station is to be run for no less than five years, and the data collected to the USGS standard. The record from this gaging station will be used to define the 80-percent exceedance natural streamflow for Whiskey Run creek. If the Department determines at the end of five years that streamflow is insufficient to meet the demands of the instream water right and the proposed use, the gaging station will be continued in operation at the applicant's expense for the purpose of regulating the use of water in Whiskey Run creek according to the prior appropriation doctrine. If the Department determines at the end of five years that the streamflow in Whiskey run Creek is sufficient to meet the demands of the instream water right and the proposed use, the applicant may discontinue operation of the gaging station.

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Sutron gauging station, Whiskey Run Cr.



Staff gauge, Whiskey Run Cr. near gauging St.

Statement of Compliance

Streamflow data on Whiskey Run Creek are measured using a Swiffer current meter. A continuous record gaging station was installed in August 2003, as described in the attached annual monitoring reports. With the exception of a period between August 2003 and March 2004 (when a variety of factors indicated the data were unreliable) and short periods in 2007 (when new BBSR staff were being trained to download the data), stream gage data have been collected reliably and continuously since the time of installation. The attached annual water year reports present the water level and flow data collected each year. The streamflow data will continue to be collected until at least August 2008 when the Department is scheduled to make a determination of the 80% exceedance natural streamflow for Whiskey Run Creek.

Condition 7

Prior to use of water under this permit, the permittee shall obtain OWRD approval for a plan to monitor and report the impacts of this use on water levels within the aquifer utilized under this permit. The plan shall include locating two or more dedicated observation wells between the permitted wells and offsite wells to address water level impacts on senior ground water users.

Statement of Compliance

In September 2003, BBSR submitted a monitoring plan to OWRD in order to meet the terms and conditions of groundwater permit G-15437. The plan included monitoring groundwater levels at the existing irrigation well on the BBSR property, two other piezometers located on the property, and at an off-site domestic well located on Tokyo Lane. Well logs for each well included in the monitoring program were submitted with the monitoring plan. The plan also includes provisions that govern the monitoring of groundwater withdrawals from the BBSR irrigation well, and monitoring surface water flow in Whiskey Run Creek. Monitoring activity has been in compliance with this plan

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and the data indicates that pumping from the well has no discernable effect on surface flows in Whiskey Run Creek (see attached monitoring reports).

Condition 8

If substantial interference with a senior water right occurs due to the withdrawal of water from any well listed on this permit, then use of water from the well(s) shall be discontinued or reduced and/or the schedule of withdrawal shall be regulated until or unless the Department approves or implements an alternative administrative action to mitigate the interference.

Statement of Compliance:

BBSR has been monitoring water levels in on-site piezometers and off-site domestic wells, as well as flow rates in Whiskey Run Creek. To date, there have been no discernable impacts to groundwater levels in nearby wells, potential senior water right holders, or flow in the creek when pumping from the BBSR irrigation wells occurs.

Condition 9

The wells shall be constructed in accordance with the General Standards for the Construction and Maintenance of Water Wells in Oregon.

Statement of Compliance:

The wells installed by BBSR are in compliance with the General Standards. Well logs are attached for reference.

3. Evidence of Physical Progress (Chart C)

Insert Dates	Work Accomplished Before Permit Was Issued	Cost (Estimated)
2001	Construction and testing of irrigation well COOS-52219. Drill and install piezometer COOS-52220	\$20,000
2001	Construct irrigation storage pond	\$500,000

Insert Dates	Work Accomplished After Permit Was Issued and Prior to Date Specified in Permit for Complete Application of Water	Cost (Estimated)
2003	Install continuous monitoring gaging station on Whiskey Run Creek and begin monitoring.	20,000
2002 to 2007	Drill and install one irrigation well and nine exploration borings and piezometers.	\$35,000
10/1/2007	("C-Date")	

Insert Dates	Work Accomplished After C-Date	Cost (Estimated)
	Not Applicable	

Total Estimated Cost to Date: \$500,000 to \$600,000

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Permit G-15437 Extension of Time Application
Bally Bandon Sheep Ranch (BBSR)

December 2007
023-1206.003

Permit G-15437

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SALEM, OREGON

STATE OF OREGON

COUNTY OF COOS

PERMIT TO APPROPRIATE THE PUBLIC WATERS

THIS PERMIT IS HEREBY ISSUED TO

PHIL FRIEDMANN for BALLY BANDON SHEEP RANCH
PO BOX 1756.
BANDON, OREGON 97411

(541) 530-6839

The specific limits and conditions of the use are listed below.

APPLICATION FILE NUMBER: G-15697

- 1 SOURCE OF WATER: SIX WELLS IN WHISKY RUN CREEK BASIN
- 2 PURPOSE OR USE: IRRIGATION OF 95.0 ACRES
- 3 MAXIMUM RATE: 0.45 CUBIC FOOT PER SECOND
- 4 PERIOD OF USE: MARCH 1 THROUGH OCTOBER 31

DATE OF PRIORITY: FEBRUARY 4, 2002

WELL LOCATIONS:

WELL #1A NW $\frac{1}{4}$ SW $\frac{1}{4}$, SECTION 20, T27S, R14W, W.M.; 2450 FEET
NORTH & 350 FEET EAST FROM SW CORNER, SECTION 20

WELL #2A NW $\frac{1}{4}$ NW $\frac{1}{4}$, SECTION 20, T27S, R14W, W.M.; 4600 FEET
NORTH & 550 FEET EAST FROM SW CORNER, SECTION 20

WELL #1B NW $\frac{1}{4}$ SW $\frac{1}{4}$, SECTION 20, T27S, R14W, W.M.; 1,350 FEET
NORTH & 325 FEET EAST FROM SW CORNER, SECTION 20

WELL #2B SE $\frac{1}{4}$ NW $\frac{1}{4}$, SECTION 20, T27S, R14W, W.M.; 1950 FEET
SOUTH & 2250 FEET EAST FROM NW CORNER, SECTION 20

WELL #3B NE $\frac{1}{4}$ NW $\frac{1}{4}$, SECTION 20, T27S, R14W, W.M.; 750 FEET SOUTH
& 1650 FEET EAST FROM NW CORNER, SECTION 20

WELL #4B NW $\frac{1}{4}$ NE $\frac{1}{4}$, SECTION 20, T27S, R14W, W.M.; 750 FEET SOUTH
& 1800 FEET WEST FROM NE CORNER, SECTION 20

Application G-15697 Water Resources Department

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5 The amount of water used for irrigation under this right, together with the amount secured under any other right existing for the same lands, is limited to a diversion of ONE-EIGHTIETH of one cubic foot per second (or its equivalent) and 2.5 acre-feet for each acre irrigated during the irrigation season of each year.

THE PLACE OF USE IS LOCATED AS FOLLOWS:

SE ¼ NE ¼ 2.2 ACRES
SECTION 19
NW ¼ NE ¼ 4.9 ACRES
NE ¼ NW ¼ 16.3 ACRES
NW ¼ NW ¼ 13.7 ACRES
SW ¼ NW ¼ 21.8 ACRES
SE ¼ NW ¼ 3.7 ACRES
NE ¼ SW ¼ 4.4 ACRES
NW ¼ SW ¼ 19.6 ACRES
SW ¼ SW ¼ 8.3 ACRES
SE ¼ SW ¼ 0.1 ACRES
SECTION 20

TOWNSHIP 27 SOUTH, RANGE 14 WEST, W.M.

Measurement, recording and reporting conditions:

- A. Before water use may begin under this permit, the permittee shall install a meter or other suitable measuring device as approved by the Director. The permittee shall maintain the meter or measuring device in good working order, shall keep a complete record of the amount of water used each month and shall submit a report which includes the recorded water use measurements to the Department annually or more frequently as may be required by the Director. Further, the Director may require the permittee to report general water use information, including the place and nature of use of water under the permit.
- B. The permittee shall allow the watermaster access to the meter or measuring device; provided however, where the meter or measuring device is located within a private structure, the watermaster shall request access upon reasonable notice.

6 Applicant is to pay for the installation and operation of a continuous record gaging station at a suitable location near the mouth of Whiskey Run Creek. The gaging station is to be run for no less than five

Application G-15697 Water Resources Department

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years, and the data collected to the USGS standard. The record from this gaging station will be used to define the 80-percent exceedance natural streamflow for Whiskey Run Creek. If it is determined at the end of five years that streamflow is insufficient to meet the demands of the instream water right and the proposed use, the gaging station will be continued in operation at the applicant's expense for the purpose of regulating the use of water in Whiskey Run Creek according to the prior appropriation doctrine. If it is determined at the end of five years that streamflow is sufficient to meet the demands of the instream water right and the proposed use, the gaging station will be discontinued.

- 7 Prior to use of water under this permit, the permittee shall obtain OWRD approval for a plan to monitor and report the impacts of this use on water levels within the aquifer utilized under this permit. The plan shall include locating two or more dedicated observation wells between the permitted wells and offsite wells to address water level impacts on senior ground water users.

STANDARD CONDITIONS

- 8 If substantial interference with a senior water right occurs due to withdrawal of water from any well listed on this permit, then use of water from the well(s) shall be discontinued or reduced and/or the schedule of withdrawal shall be regulated until or unless the Department approves or implements an alternative administrative action to mitigate the interference. The Department encourages junior and senior appropriators to jointly develop plans to mitigate interferences.
- 9 The wells shall be constructed in accordance with the General Standards for the Construction and Maintenance of Water Wells in Oregon. The works shall be equipped with a usable access port, and may also include an air line and pressure gauge adequate to determine water level elevation in the well at all times.

The use shall conform to such reasonable rotation system as may be ordered by the proper state officer.

Prior to receiving a certificate of water right, the permit holder shall submit the results of a pump test meeting the department's standards, to the Water Resources Department. The Director may require water level or pump test results every ten years thereafter.

Application G-15697 Water Resources Department

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Failure to comply with any of the provisions of this permit may result in action including, but not limited to, restrictions on the use, civil penalties, or cancellation of the permit.

This permit is for the beneficial use of water without waste. The water user is advised that new regulations may require the use of best practical technologies or conservation practices to achieve this end.

By law, the land use associated with this water use must be in compliance with statewide land-use goals and any local acknowledged land-use plan.


The use of water shall be limited when it interferes with any prior surface or ground water rights.

The Director finds that the proposed use(s) of water described by this permit, as conditioned, will not impair or be detrimental to the public interest.

Complete application of the water to the use shall be made on or before October 1, 2007. If the water is not completely applied before this date, and the permittee wishes to continue development under the permit, the permittee must submit an application for extension of time, which may be approved based upon the merit of the application.

Within one year after complete application of water to the proposed use, the permittee shall submit a claim of beneficial use, which includes a map and report, prepared by a Certified Water Rights Examiner (CWRE).

Issued May 16, 2003


Paul R. Cleary, Director
Water Resources Department

REAL ESTATE TRANSACTIONS: Pursuant to ORS 537.330, in any transaction for the conveyance of real estate that includes any portion of the lands described in this permit, the seller of the real estate shall, upon accepting an offer to purchase that real estate, also inform the

Application G-15697
Basin 17
AMH

Water Resources Department
Volume 3 BASIN 17 MISC

PERMIT G-15437

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purchaser in writing whether any permit, transfer approval order, or certificate evidencing the water right is available and that the seller will deliver any permit, transfer approval order or certificate to the purchaser at closing, if the permit, transfer approval order or certificate is available.

CULTURAL RESOURCES PROTECTION LAWS: Permittees involved in ground-disturbing activities should be aware of federal and state cultural resources protection laws. ORS 358.920 prohibits the excavation, injury, destruction or alteration of an archeological site or object, or removal of archeological objects from public and private lands without an archeological permit issued by the State Historic Preservation Office. 16 USC 470, Section 106, National Historic Preservation Act of 1966 requires a federal agency, prior to any undertaking to take into account the effect of the undertaking that is included on or eligible for inclusion in the National Register. For further information, contact the State Historic Preservation Office at 503-378-4168, extension 232.



Application G-15697
Basin 17
AMH

Water Resources Department
Volume 3 BASIN 17 MISC

PERMIT G-15437

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FIGURES

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LEGEND

- ▲ Watershed Boundary
 - ▲ Stream Gaging Station
 - Private/Domestic Well or Piezometer
 - Irrigation Well
- (See Appendix A for well logs)



Scale: 1" = 1500 Feet
 Map Projection: Oregon State Plane, NAD 83, South Zone, Feet
 Source: Regional Ecosystem Organization

Site Map With Measurement Locations			
BALLY BSR/GROUNDWATER SERVICES/OR			
Drawn: KBD	Revised: 4	Nov. 10, 2006	Figure: 1

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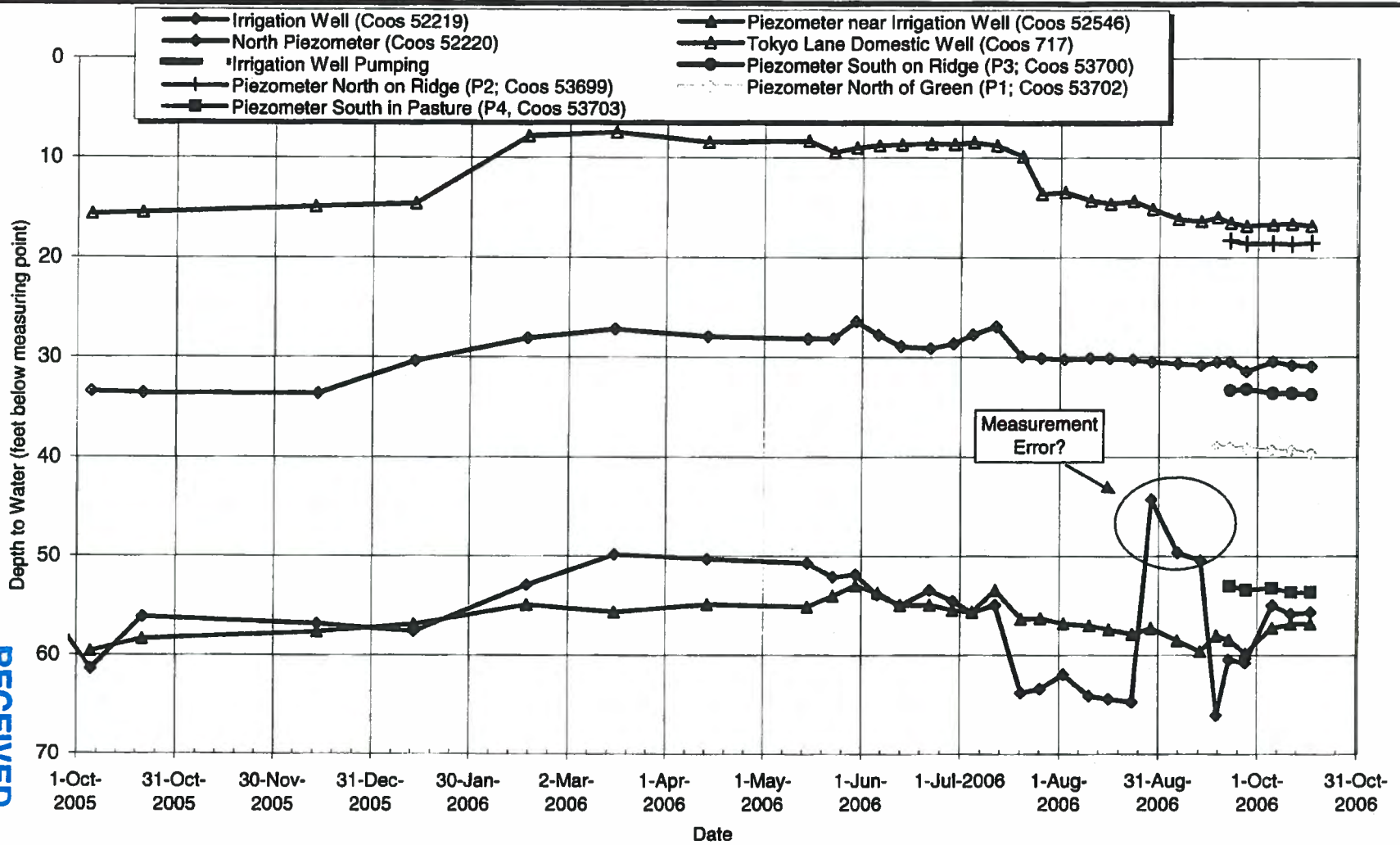
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SALEM, OREGON**

Golder Associates

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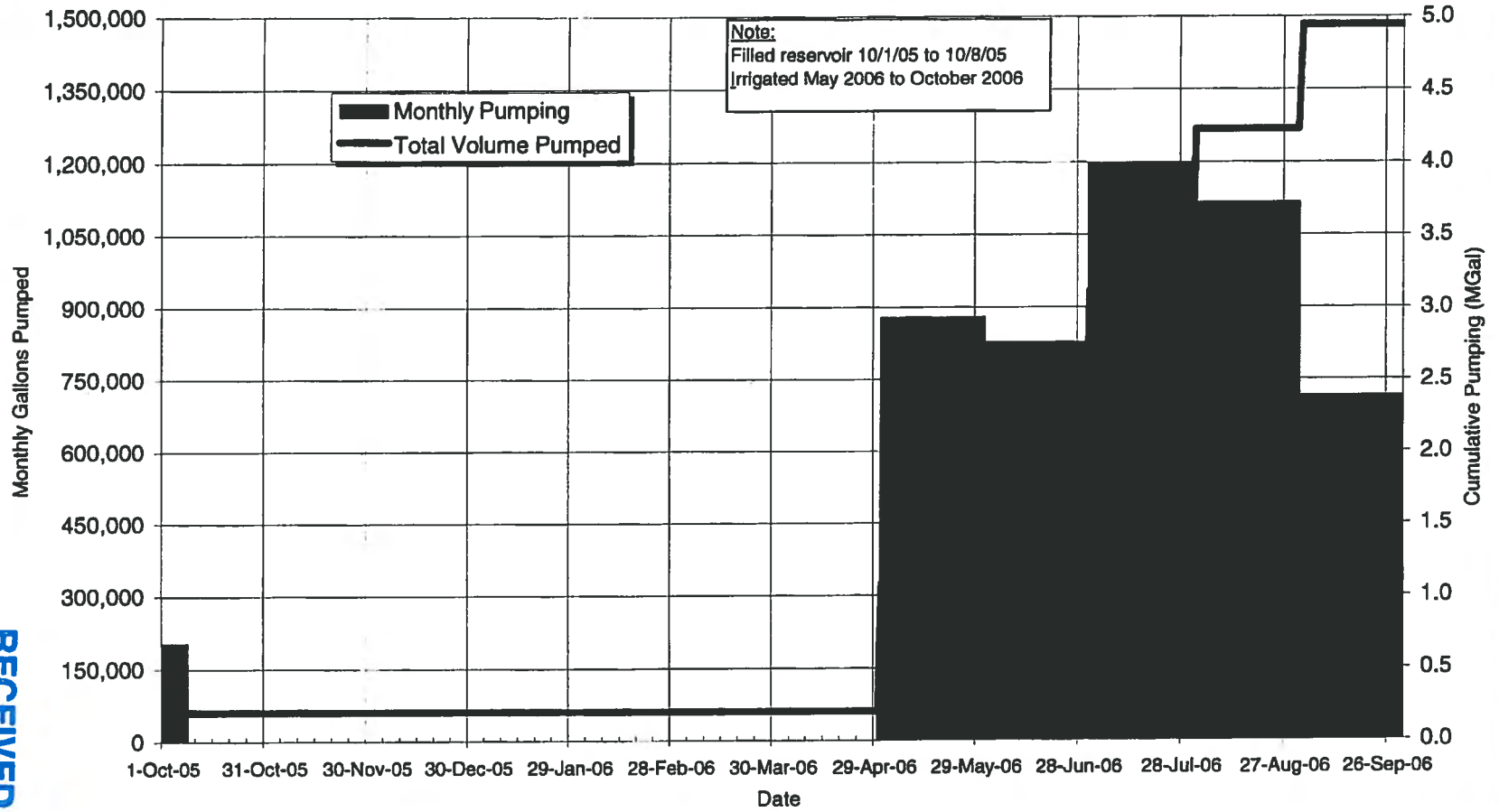
TITLE
Well Hydrographs Water Year 2006

**Bally Bandon Sheep Ranch/2006
Annual Report**

DRAWN	MPK	DATE	Nov-06	JOB NO.	023-1206.004
CHECKED	MPK	SCALE	na	DWG. NO.	na
REVIEWED	DB	FILE NO.	Hydrograph 2006.xls	FIGURE NO.	2

DEC 04 2007

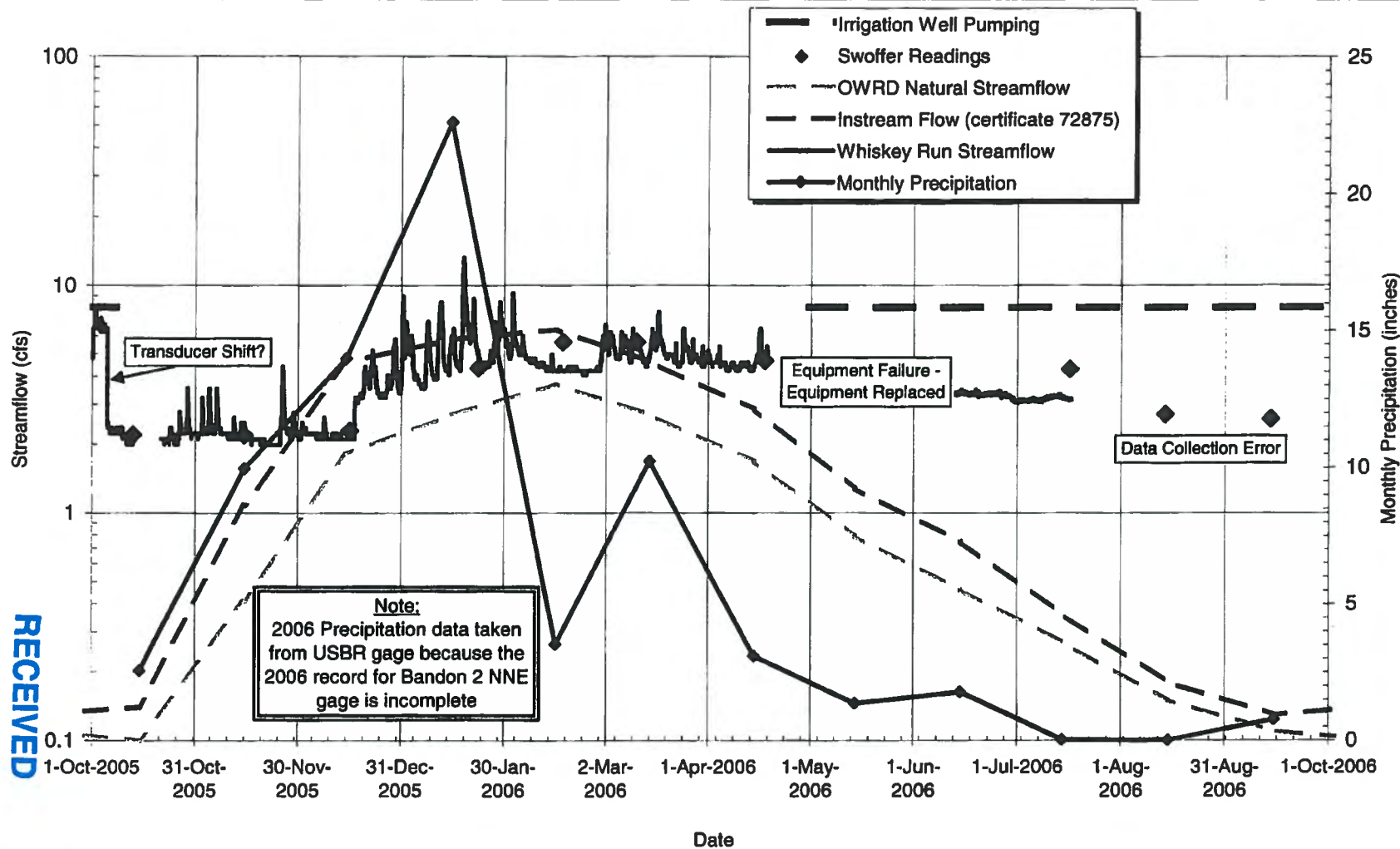
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**Bally Bandon Sheep Ranch/2006
Annual Report**

TITLE Irrigation Well Production Water Year 2006			
DRAWN	MPK	DATE	Nov-06
CHECKED	MPK	SCALE	na
REVIEWED	DB	FILE NO.	Hydrograph 2006.xls
		JOB NO.	023-1206.004
		DWG. NO.	na
		FIGURE NO.	3

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TITLE

Whiskey Run Creek Streamflow and Bandon Precipitation Water Year 2006

**Bally Bandon Sheep Ranch/2006
Annual Report**

DRAWN	MPK	DATE	Nov-06	JOB NO.	023-1206.004
CHECKED	MPK	SCALE	na	DWG. NO.	na
REVIEWED	DB	FILE NO	Hydrograph 2006.xls	FIGURE NO.	4

ATTACHMENT A
WELL LOGS FOR NEW PIEZOMETERS

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WATER RESOURCES DEPT
SALEM, OREGON

STATE OF OREGON
MONITORING WELL REPORT

(as required by ORS 537.765 & OAR 690-240-0395)

WELL LABEL # L 80268

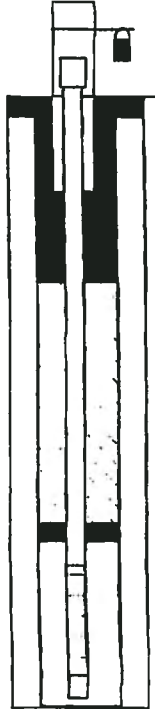
START CARD # 182714

(1) LAND OWNER Owner Well I.D. 1151
First Name Dennis Last Name Olson
Company BANDON BALLY SHEEP RANCH
Address PO Box 1756
City Bandon State OR Zip 97411

(2) TYPE OF WORK New Deepening Conversion
 Alteration (repair/recondition) Abandonment

(3) DRILL METHOD
 Rotary Air Rotary Mud Cable Hollow Stem Auger Cable Mud
 Reverse Rotary Other

(4) CONSTRUCTION Piezometer Well
Depth of Completed Well 65 ft. Special Standard



MONUMENT/VAULT Above Ground
From 1.25 To 4

BORE HOLE
Diameter 6 From 0 To 65

CASING
Dia. 2 From 1.25 To 36
Gauge Sch. 40 Wld Thrd
Material Steel Plastic

LINER
Dia. 2 From 46 To 65
Gauge Sch. 40 Wld Thrd
Material Steel Plastic

SEAL
From 0 1.37 To 26 1.46
Material Bentonite / cement
Amount 12 S Grout weight
1 5x cement

SCREEN
Casing/Liner Casing Material PVC
Diameter 2 From 36 To 46
Slot Size .02

FILTER
From 26 To 37 Material Sand Size of pack 10/20

(5) WELL TESTS

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)
2		50	1

Temperature 53 °F Lab analysis Yes By

Supervising Geologist/Engineer

Water quality concerns? Yes (describe below)

From	To	Description	Amount	Units

(6) LOCATION OF WELL (legal description)
County COOS Twp 27 S N/S Range 14 W E/W WM
Sec 28 NE 1/4 of the NW 1/4 Tax Lot 100
Tax Map Number Lot
Lat ° 0 ' or DMS or DD
Long ° 0 ' or DMS or DD
 Street address of well Nearest address
no/(vacant) off Whiskey Run

(7) STATIC WATER LEVEL

Existing Well / Predeepening	Date	SWL (psi)	+ SWL (ft)
Completed Well	09-15-2006		38.3

Flowing Artesian? Dry Hole?

WATER BEARING ZONES Depth water was first found

SWL Date	From	To	Est Flow	SWL (psi)	+ SWL (ft)
09-15-2006	38.3	46	2		38.3

(8) WELL LOG Ground Elevation 300

Material	From	To
Cemented sand brown	0	1
Sandy clay brown	1	3
Cemented sand brown	3	7
Sandy clay white	7	8
Cemented sand orange & brown	8	11
Sand fine - coarse w/ gravel fine brown	11	14
Cemented sand orange & brown	14	15
Sand fine-coarse w/gravel fine brown	15	24
Cemented sand brown	24	27
Sandy clay tan w/peat & sand coarse-fine	27	31
Gravel fine w/sand coarse-fine gray	31	38
Peat	38	43
Sand fine-coarse w/gravel fine gray brown	43	46
Peat	46	47
Sandy clay white w/gravel fine-medium gray	47	56
Clay gray	56	60
Claystone gray	60	65

Date Started 09-13-2006 Completed 09-15-2006

(unbonded) Monitor Well Constructor Certification
I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon monitoring well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.
License Number _____ Date _____
Password: (if filing electronically) _____
Signed _____

(bonded) Monitor Well Constructor Certification
I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon monitoring well construction standards. This report is true to the best of my knowledge and belief.
License Number 1493 Date 9/18/06
Password: (if filing electronically) _____
Signed Joe Meek Sr.
Contact info (optional) BANDON WELL & PUMP COMPANY (541) 347-7867

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SALEM, OREGON

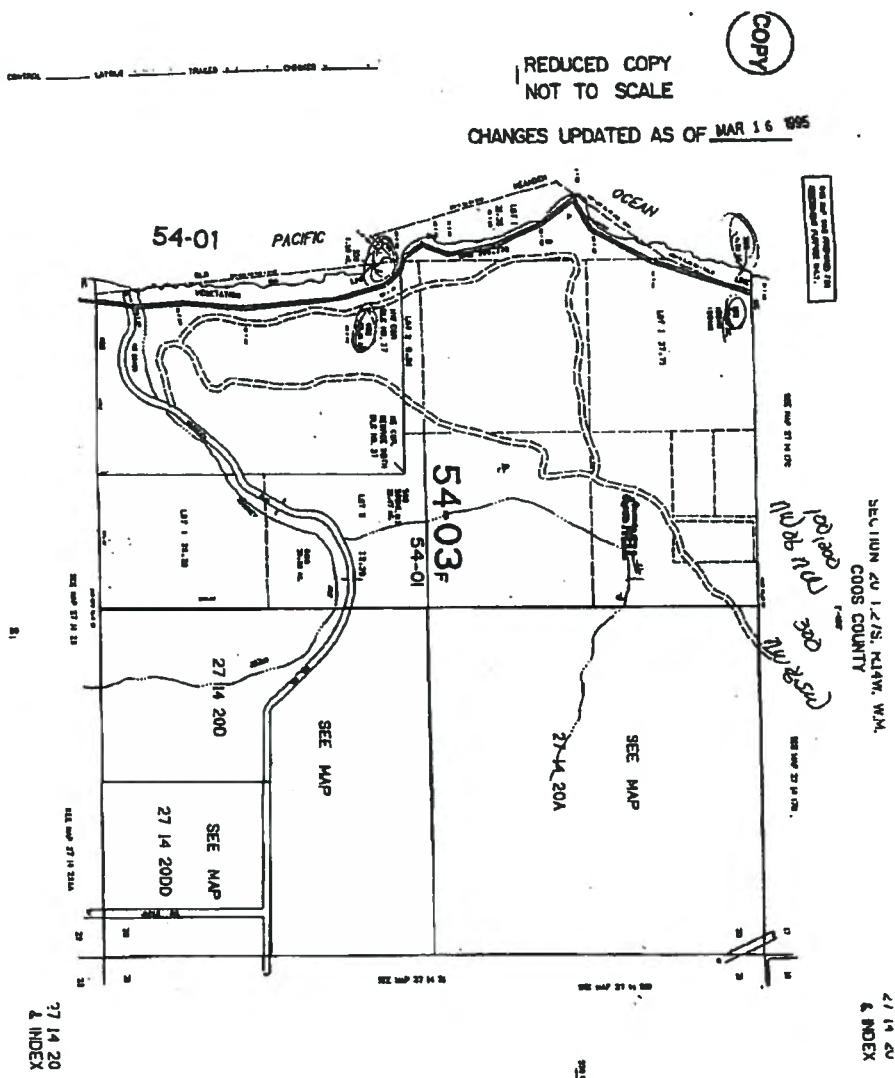
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MONITORING WELL REPORT -
continuation page

WELL I.D. # L 80268

START CARD # 182714

Map of well



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SALEM, OREGON

STATE OF OREGON
MONITORING WELL REPORT

(as required by ORS 537.765 & OAR 690-240-0395)

WELL LABEL # L 80259

START CARD # 182715

(1) LAND OWNER Owner Well I.D. 1152
 First Name Dennis Last Name Olson
 Company BANDON BALLY SHEEP RANCH
 Address PO Box 1756
 City Bandon State OR Zip 97411

(2) TYPE OF WORK New Deepening Conversion
 Alteration (repair/recondition) Abandonment

(3) DRILL METHOD
 Rotary Air Rotary Mud Cable Hollow Stem Auger Cable Mud
 Reverse Rotary Other

(4) CONSTRUCTION Piezometer Well
 Depth of Completed Well 55 ft. Special Standard



MONUMENT/VAULT Above Ground
 From 1.3 To 4

BORE HOLE
 Diameter 6 From 0 To 55

CASING
 Dia. 2 From 1 To 40
 Gauge Sch40 Wld Thrd
 Material Steel Plastic

LINER
 Dia. _____ From _____ To _____
 Gauge _____ Wld Thrd
 Material Steel Plastic

SEAL
 From 0 To 29
 Material Bentonite
 Amount 11 S Grout weight _____

SCREEN
 Casing/Liner Casing _____ Material PVC
 Diameter 2 From 40 To 45
 Slot Size .020

FILTER
 From 29 To 46 Material Sand Size of pack 10/20

(5) WELL TESTS
 Pump Bailer Air Flowing Artesian

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)
<u>4</u>		<u>50</u>	<u>1</u>

Temperature 53 °F Lab analysis Yes By _____

Supervising Geologist/Engineer _____
 Water quality concerns? Yes (describe below)

From	To	Description	Amount	Units

(6) LOCATION OF WELL (legal description)
 County COOS Twp 27 S N/S Range 14 W E/W WM
 Sec 20 NE 1/4 of the NW 1/4 Tax Lot 100
 Tax Map Number _____ Lot _____
 Lat _____ ° _____ ' _____ " or _____ DMS or DD
 Long _____ ° _____ ' _____ " or _____ DMS or DD
 Street address of well Nearest address
 no#(vacant) off Whiskey Run, Bandon

(7) STATIC WATER LEVEL

Date	SWL(psi)	+ SWL(ft)
Existing Well / Predeepening		
Completed Well <u>09-18-2006</u>		<u>16.6</u>

Flowing Artesian? Dry Hole?

WATER BEARING ZONES Depth water was first found

SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(ft)
<u>09-18-2006</u>	<u>18</u>	<u>45</u>	<u>4</u>		<u>16.6</u>

(8) WELL LOG Ground Elevation 300

Material	From	To
Sandy clay brown	0	1
Cemented sand brown	1	2
Sand tan fine	2	5
Wood & sand fine tan	5	6
Sand fine tan	6	7
Sand fine-course tan	7	8
Sand fine-course w/gravel fine brown	8	13
Gravel fine w/sandy clay orange brown	13	17
Peat	17	18
Sand fine-course brown	18	23
Sandy clay tan w/peat	23	30
Sand fine-course tan	30	34
Sandy clay tan orange w/peat	34	39
Sand fine-course w/gravel fine tan	39	40
Sand fine-course w/gravel fine-medium tan	40	45
Sandy clay tan orange	45	45.5
Sandy clay white	45.5	46
Clay gray	46	48
Continued on page 2	46	48

Date Started 09-15-2006 Completed 09-18-2006

(unbonded) Monitor Well Constructor Certification
 I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon monitoring well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

License Number _____ Date _____
 Password : (if filing electronically) _____
 Signed _____

(bonded) Monitor Well Constructor Certification
 I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon monitoring well construction standards. This report is true to the best of my knowledge and belief.

License Number 1493 Date 9/19/06
 Password : (if filing electronically) _____
 Signed [Signature]
 Contact Info (optional) BANDON WELL & PUMP COMPANY (541) 347-7867

THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK
 WATER RESOURCES DEPT SALEM, OREGON

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WATER RESOURCES DEPT
 SALEM, OREGON

COOS 53699

MONITORING WELL REPORT -
continuation page

WELL I.D. # L 80259

START CARD # 182715

(4) CONSTRUCTION

BORE HOLE			FILTER PACK			
Dia	From	To	From	To	Material	Size

Material	From	To	Amt	sacks/ lbs	grout weight
Cement	46	55	1.5	8	

CASING/LINER

Casing Liner	Dia	+	From	To	Gauge	Sid	Plsic	Wid	Thrd
<input checked="" type="checkbox"/>	2	<input type="checkbox"/>	45	55	Sch40	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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SCREENS

Perf/ Screen	Casing/ Screen	Dia	From	To	Scrn size/ slot width	Slot length	# of slots	Tele/ pipe size

(5) WELL TESTS

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)

Water Quality Concerns

From	To	Description	Amount	Units

(7) STATIC WATER LEVEL

Water Bearing Zones

SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(ft)

(8) WELL LOG

Material	From	To
Claystone gray	48	52
Sandstone gray	52	53
Claystone gray	53	55

Comments/Remarks

Well drilled by Bandon Well & Pump Co.
(541) 347-7867

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SEP 21 2006

RECEIVED

COOS 53699

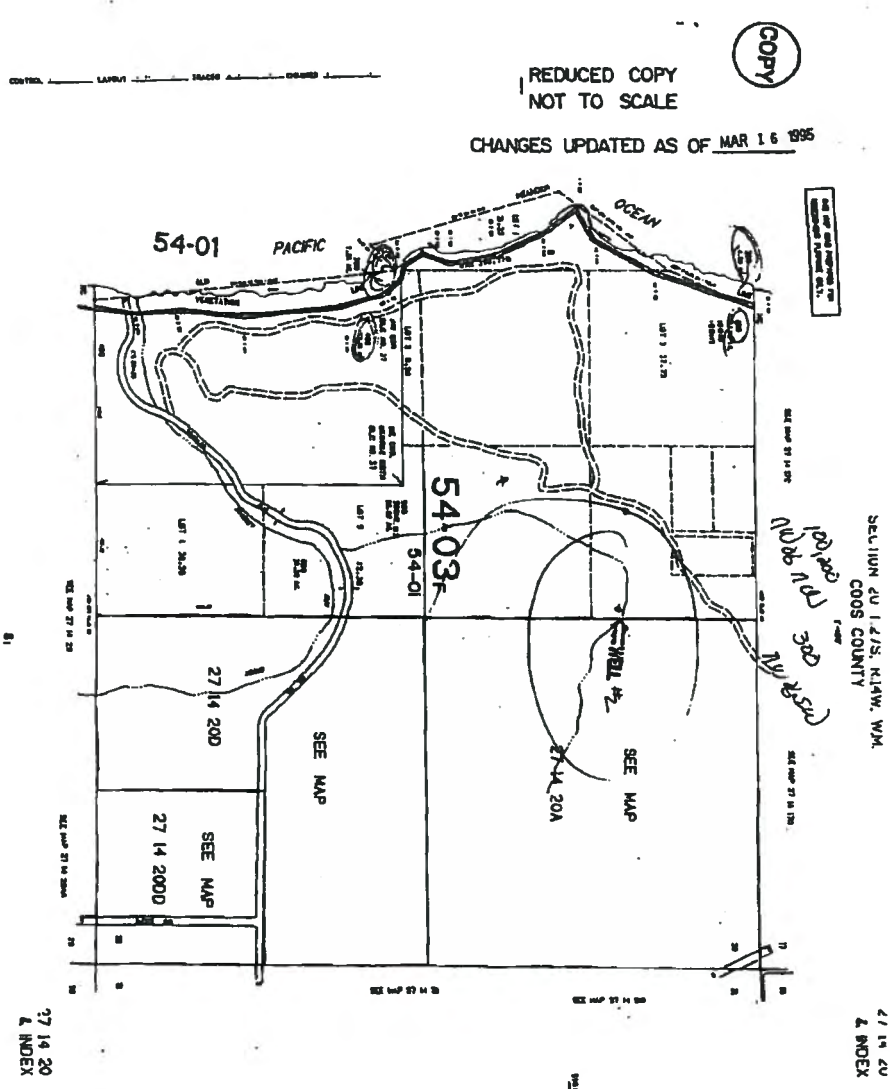
MONITORING WELL REPORT -

Map with location identified must be attached and shall include an approximate scale and north arrow

WELL I.D. # L 80259

START CARD # 182715

Map of well



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SALEM, OREGON

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SALEM, OREGON

STATE OF OREGON
MONITORING WELL REPORT

(as required by ORS 537.765 & OAR 690-240-0395)

WELL LABEL # L 80266

START CARD # 182716

(1) LAND OWNER Owner Well I.D. 1153
 First Name Dennis Last Name Olson
 Company BALLY BANDON SHEEP RANCH
 Address PO Box 1756
 City Bandon State OR Zip 97411

(2) TYPE OF WORK New Deepening Conversion
 Alteration (repair/recondition) Abandonment

(3) DRILL METHOD
 Rotary Air Rotary Mud Cable Hollow Stem Auger Cable Mud
 Reverse Rotary Other

(4) CONSTRUCTION Piezometer Well
 Depth of Completed Well 63.08 ft. Special Standard



MONUMENT/VAULT Above Ground
 From 1.3 To 4

BORE HOLE
 Diameter 6 From 0 To 65

CASING
 Dia. 2 From 1 To 43
 Gauge Sch40 Wid Thrd
 Material Steel Plastic

LINER
 Dia. _____ From _____ To _____
 Gauge _____ Wid Thrd
 Material Steel Plastic

SEAL
 From 0 To 30
 Material Bentonite
 Amount 12 S Grout weight _____

SCREEN
 Casing/Liner Casing Material PVC
 Diameter 2 From 43 To 53
 Slot Size .020

FILTER
 From 30 To 54 Material Sand Size of pack 10/20

(5) WELL TESTS
 Pump Bailor Air Flowing Artesian

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)
<u>3</u>		<u>60</u>	

Temperature 53 °F Lab analysis Yes By _____

Supervising Geologist/Engineer _____

Water quality concerns? Yes (describe below)

From	To	Amount	Units

(6) LOCATION OF WELL (legal description)
 County COOS Twp 27 S N/S Range 14 W E/W WM
 Sec 20 SE 1/4 of the NW 1/4 Tax Lot 100
 Tax Map Number _____ Lot _____
 Lat _____ " or _____ DMS or DD
 Long _____ " or _____ DMS or DD
 Street address of well Nearest address
po#(vacant)Whiskey Run, Bandon

(7) STATIC WATER LEVEL

Existing Well / Predeepening	Date	SWL(psi)	+ SWL(ft)
Completed Well	<u>09-19-2006</u>		<u>32.6</u>

 Flowing Artesian? Dry Hole?
 WATER BEARING ZONES Depth water was first found 32.6

SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(ft)
<u>09-19-2006</u>	<u>32.6</u>	<u>53.5</u>	<u>3</u>		<u>32.6</u>

(8) WELL LOG Ground Elevation 300

Material	From	To
Cemented sand w/sand fine tan	0	4
Sand fine tan	4	9
Sandy clay tan w/gravel fine	9	10
Sand fine-coarse tan	10	16
Sand fine-coarse w/gravel fine tan	16	17
Sandy clay tan	17	18
Sand fine-coarse w/gravel fine tan	18	21
Sandy clay tan/orange w/peat	21	25
Sand fine-coarse w/gravel fine brown	25	38
Sandy clay tan/orange w/peat	38	41
Sand fine-coarse w/gravel f-m & cemented sand balls	41	45
Sand fine-coarse w/gravel fine tan	45	53
Gravel fine-medium w/sand fine-coarse tan	53	53.5
Sandy clay tan/orange	53.5	54
Clay tan & orange	54	56
Clay gray	56	57
Claystone gray	57	65

Date Started 09-18-2006 Completed 09-19-2006

(unbonded) Monitor Well Constructor Certification
 I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon monitoring well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.
 License Number _____ Date _____
 Password: (if filing electronically) _____
 Signed _____

(bonded) Monitor Well Constructor Certification
 I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon monitoring well construction standards. This report is true to the best of my knowledge and belief.
 License Number 1493 Date 9/20/06
 Password: (if filing electronically) _____
 Signed Jim Mack, Jr. MGE
 Contact Info (optional) BANDON WELL & PUMP COMPANY (541) 347-7867

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WATER RESOURCES DEPT
 SALEM, OREGON

COOS 53700

MONITORING WELL REPORT -
continuation page

WELL I.D. # L 80266

START CARD # 182716

(4) CONSTRUCTION

BORE HOLE

Dia	From	To

FILTER PACK

From	To	Material	Size

SEAL

Material	From	To	Amt	sacks/ lbs	grout weight
Cement	54	65	1.5	S	

(7) STATIC WATER LEVEL

Water Bearing Zones

SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(ft)

CASING/LINER

Casing	Liner	Dia	+	From	To	Gauge	Sd	Plstc	Wld	Thrd
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	<input type="checkbox"/>	53	63	Sch40	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

SCREENS

Perf/Screen	Casing/Screen	Dia	From	To	Scrn size/ slot width	Slot length	# of slots	Tele/ pipe size

(5) WELL TESTS

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)

Water Quality Concerns

From	To	Description	Amount	Units

(8) WELL LOG

Material	From	To

Comments/Remarks

Well Drilled By
Bandon Well & Pump Co.
(541) 347-7867

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SALEM, OREGON

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WATER RESOURCES DEPT
SALEM, OREGON

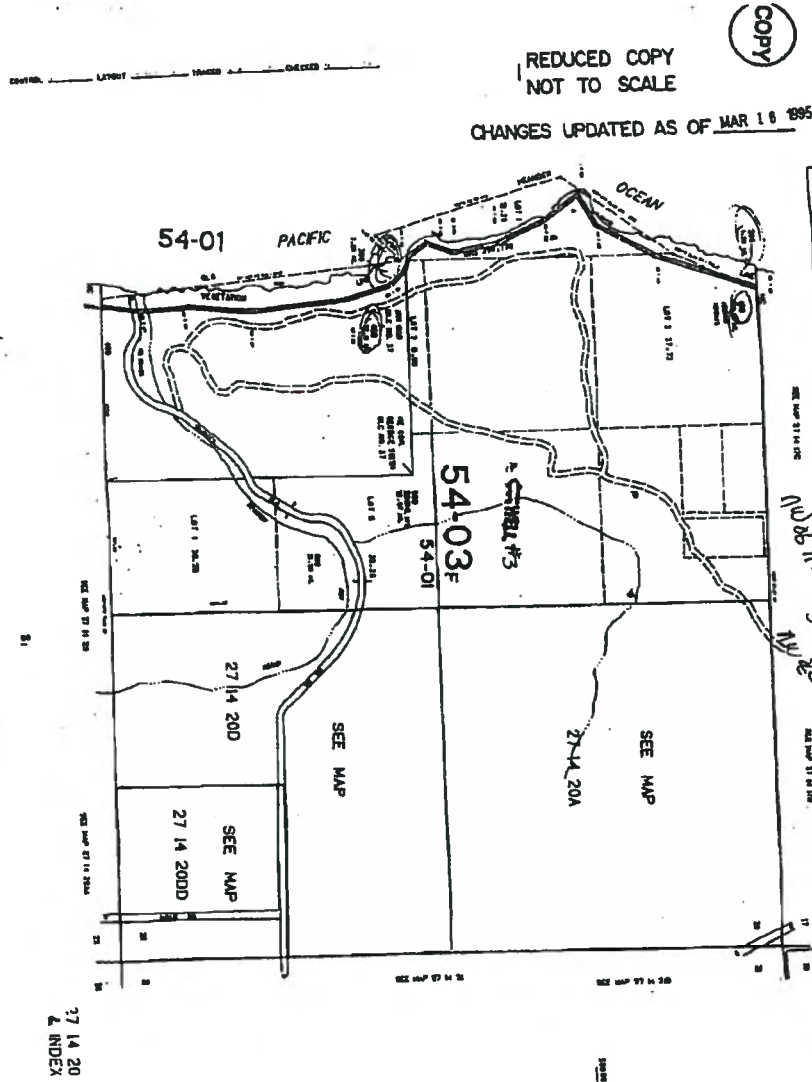
COOS 53700

MONITORING WELL REPORT -
continuation page

WELL I.D. # L 80266

START CARD # 182716

Map of well



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SALEM, OREGON

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SALEM, OREGON

STATE OF OREGON
MONITORING WELL REPORT

(as required by ORS 537.765 & OAR 690-240-0395)

WELL LABEL # L 80265

START CARD # 182719

(1) LAND OWNER Owner Well I.D. 1154
 First Name Dennis Last Name Olson
 Company BALLY BANDON SHEEP RANCH
 Address PO Box 1756
 City Bandon State OR Zip 97411

(2) TYPE OF WORK New Deepening Conversion
 Alteration (repair/recondition) Abandonment

(3) DRILL METHOD Rotary Air Rotary Mud Cable Hollow Stem Auger Cable Mud
 Reverse Rotary Other

(4) CONSTRUCTION Piezometer Well
 Depth of Completed Well 72.6 ft. Special Standard



MONUMENT/VAULT Above Ground
 From 1.3 To 4

BORE HOLE
 Diameter 6 From 0 To 73

CASING
 Dia. 2 From 1 To 54.4
 Gauge Sch40 Wild Thrd
 Material Steel Plastic

LINER
 Dia. _____ From _____ To _____
 Gauge _____ Wild Thrd
 Material Steel Plastic

SEAL
 From 0 To 41
 Material Bentonite
 Amount 15 S Grout weight _____

SCREEN
 Casing/Liner Casing Material PVC
 Diameter 2 From 54.4 To 64
 Slot Size .02

FILTER
 From 41 To 65 Material Sand Size of pack 10/20

(5) WELL TESTS
 Pump Bailor Air Flowing Artesian
 Yield gal/min Drawdown Drill stem/Pump depth Duration (hr)

		72	

Temperature 53 °F Lab analysis Yes By _____

Supervising Geologist/Engineer
 Water quality concerns? Yes (describe below)

From	To	Description	Amount	Units

(6) LOCATION OF WELL (legal description)
 County COOS Twp 27 S N/S Range 14 W E/W WM
 Sec 20 NW 1/4 of the SW 1/4 Tax Lot 400
 Tax Map Number _____ Lot _____
 Lat _____ ° 0 ' _____ " or _____ DMS or DD
 Long _____ ° 0 ' _____ " or _____ DMS or DD
 Street address of well Nearest address

off Whiskey Run Road nonvacant

(7) STATIC WATER LEVEL

Existing Well / Predeepening	Date	SWL(psi)	+ SWL(R)
Completed Well	09-21-2006		51.4

Flowing Artesian? Dry Hole?
 Depth water was first found 51.4

WATER BEARING ZONES

SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(R)
09-21-2006	51.4	68	20		51.4

(8) WELL LOG Ground Elevation 200

Material	From	To
Sandy clay brown	0	1
Cemented sand brown	1	7
Sandy clay tan	7	7.5
Cemented sand brown	7.5	9
Sand tan fine	9	11
Sandy clay white	11	12
Sandy clay tan/orange	12	13
Sand fine tan	13	21
Sandy clay white	21	22
Sand fine-coarse brown	22	29
Sandy clay tan/orange	29	30
Sand fine-coarse w/gravel fine brown	30	35
Sandy clay orange	35	36
Sand fine-coarse w/gravel fine brown	36	43
Sandy clay tan	43	44
Sand fine-coarse w/gravel finebrown	44	46
Cemented sand red	46	48
Sand fine-coarse w/gravel fine brown	48	53
Continued on page 2	48	53

Date Started 09-20-2006 Completed 09-21-2006

(unbonded) Monitor Well Constructor Certification
 I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon monitoring well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

License Number _____ Date _____
 Password: (if filing electronically) _____
 Signed _____

(bonded) Monitor Well Constructor Certification
 I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon monitoring well construction standards. This report is true to the best of my knowledge and belief.

License Number 1493 Date 9/22/06
 Password: (if filing electronically) _____
 Signed *John M. McEwen*
 Contact Info (optional) BANDON WELL & PUMP COMPANY (541) 347-7867

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ORIGINAL - WATER RESOURCES DEPARTMENT
 THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK
 SEP 27 2006

WATER RESOURCES DEPT
 SALEM, OREGON

DEC 04 2007

WATER RESOURCES DEPT
 SALEM, OREGON

COOS 53703

MONITORING WELL REPORT -
continuation page

WELL I.D. # L 80265





START CARD # 182719

(4) CONSTRUCTION

BORE HOLE			FILTER PACK			
Dia	From	To	From	To	Material	Size

		SEAL		sacks/ grout	
Material	From	To	Amt	lbs	weight
Cement	66	73	1	S	

CASING/LINER

Casing Liner	Dia	+	From	To	Gauge	Stl	Ptstc	Wld	Thrd
	2	<input type="checkbox"/>	65	72.6	Sch40			<input checked="" type="checkbox"/>	

SCREENS

Perf/ Screen	Casing/ Screen Liner	Screen Dia	From	To	Scrn size/ slot width	Slot length	# of slots	Tele/ pipe size

(5) WELL TESTS

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)

Water Quality Concerns

From	To	Description	Amount	Units

(7) STATIC WATER LEVEL

Water Bearing Zones

SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(ft)

(8) WELL LOG

Material	From	To
Gravel fine-medium w/sand fine-coarse multi-colored	53	64
Clay brown	64	64.5
Sandy clay gray	64.5	66
Wood w/gravel & sandy clay gray (Loss circulation)	66	68
Sandstone gray	68	71
Claystone gray	71	73

Comments/Remarks

Well drilled by:
BANDON WELL & PUMP COMPANY
(541) 347-7867

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SEP 27 2006

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SALEM, OREGON

COOS 53703

MONITORING WELL REPORT -
continuation page

WELL I.D.# L 80265

START CARD# 182719

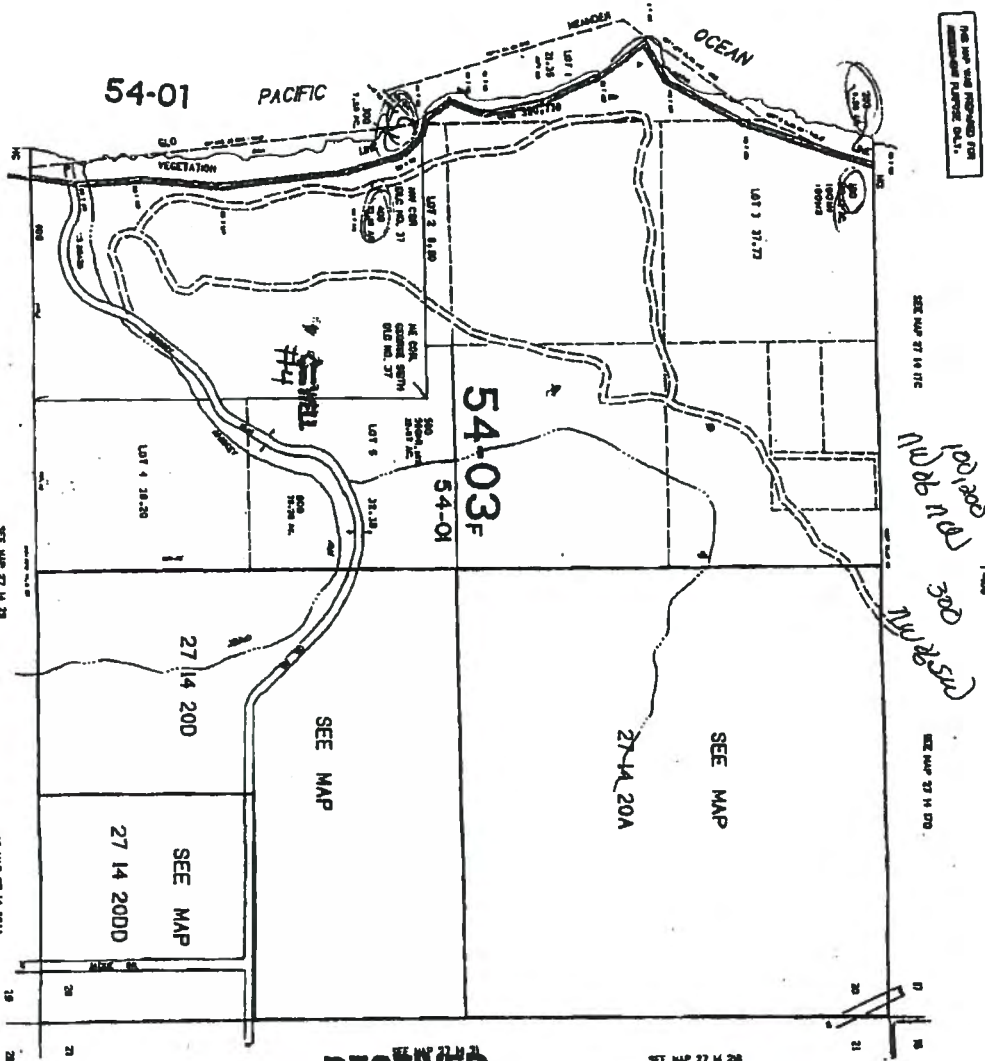
Map of well

CONTROL LAYOUT TRACED CHECKED

REDUCED COPY
NOT TO SCALE

27-14-20
COPY

CHANGES UPDATED AS OF MAR 16 1995



THIS MAP WAS REPRODUCED FROM THE ORIGINAL PLAT/RECORD COPY.

SECTION 20 14/S. R14W. W.M.
COOS COUNTY

100' x 300'
100' x 300'
100' x 300'

81

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SALEM, OREGON

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SALEM, OREGON

27 14 20
& INDEX

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SALEM, OREGON

**Well Construction Summary Table
And OWRD Well Logs**

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SALEM, OREGON

BALLY BANDON SHEEP RANCH
IRRIGATION AND MONITORING WELL DETAILS

OWRD Well No.	OWRD Well Tag No.	Completion Date	Well Type	Total Depth (feet)	Top of Screen (feet)	Bottom of Screen (feet)	Casing/Screen Diameter (Inches)	Static Water Level (feet)	Estimated GPM
COOS 52219	L51164	12/20/2001	Irrigation	110	66	81	8	56	100
COOS 52220	-	1/7/2002	Piezo	78	35	35	2	30.4	n/a
COOS 52546	-	10/8/2002	Piezo	75	60	75	2	58.3	n/a
COOS 53700	L80266	9/20/2006	Piezo	65	43	53	2	32.6	n/a
COOS 53703	L80265	9/21/2006	Piezo	73	54.4	64	2	51.4	n/a
COOS 53828	L81702	1/9/2007	Piezo	71	52.6	62.6	2	36	n/a
COOS 53827	L81703	1/15/2007	Piezo	75	65	75	2	46.8	n/a
COOS 53826	L81704	1/16/2007	Piezo	55	31.3	50	2	31.3	n/a
COOS 53863	L81722	3/26/2007	Irr/Piezo	76	62.5	72.5	8	59.5	10
COOS 53868	L81718	3/29/2007	Irrigation	70	52.5	62.5	8	34	100

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WATER RESOURCES DEPT
SALEM, OREGON

12/3/2007

JAN 10 2002

27-14-20

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765)

WATER RESOURCES DEPT.
SALEM, OREGON

WELL I.D. # L 51164
START CARD # 123874

Instructions for completing this report are on the last page of this form.

(1) OWNER: Well Number 808
Name Billy Bandon Sheep Ranch
Address PO Box 1756
City Bandon State OR Zip 97411

(2) TYPE OF WORK
 New Well Deepening Alteration (repair/recondition) Abandonment

(3) DRILL METHOD:
 Rotary Air Rotary Mud Cable Auger
 Other

(4) PROPOSED USE:
 Domestic Community Industrial Irrigation
 Thermal Injection Livestock Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval Yes No Depth of Completed Well 89 ft.
Explosives used Yes No Type _____ Amount _____

HOLE		SEAL					
Diameter	From	To	Material	From	To	Sacks or pounds	
14"	0	20	Bentonite	C			
12 1/4"	20	89	Bentonite	C	35	40 SX	
6"	89	110	Cement	90	110	3 SX	

How was seal placed: Method A B C D E
 Other Bentonite poured from surface
Backfill placed from _____ ft. to _____ ft. Material _____
Gravel placed from 35 ft. to 89 ft. Size of gravel 6/19

(6) CASING/LINER:

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing: 8"	+1	66	5490	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8"	81	89	5444	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10"	+1'4"	4'	1250	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(Protective Casings)							
Liner:				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Final location of shoe(s) _____

(7) PERFORATIONS/SCREENS:

Perforations Method Attached to Casing
 Screens Type Johnson Wire Material SS

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
66'	81'	1070		8"	Pipe	<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>

(8) WELL TESTS: Minimum testing time is 1 hour

Yield gal/min	Drawdown	Drill stem at	Flowing Time
73	9'	89	1 hr.
100'	14'	89	2 hrs

Temperature of water 52° Depth Artesian Flow Found _____
Was a water analysis done? Yes By whom Butt J
Did any strata contain water not suitable for intended use? Too little
 Salty Muddy Odor Colored Other _____
Depth of strata: _____

Bandon Well & Septic Co., Inc.

(9) LOCATION OF WELL by legal description:
County COOS Latitude _____ Longitude _____
Township 27 N or (S) Range 14 E or (W) WM.
Section 20 NW 1/4 SW 1/4
Tax Lot 400 Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) Whiskey Run Rd. Bandon

(10) STATIC WATER LEVEL:
56' ft. below land surface. Date 12/20/01
Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:
Depth at which water was first found 56'

From	To	Estimated Flow Rate	SWL
56	83	100	56
Specific Cap 0.1 gal/FT of DP			

(12) WELL LOG: Ground Elevation +/- 100'

Material	From	To	SWL
Topsoil	0	2	
Sandy Clay brown	2	8	
Sandy Clay tan	8	10	
Sand Fine brown	10	25	
Sandy Clay tan white	25	26	
Sand Fine-med brown	26	60	
Sand Fine-fine w/ gravel	60	64	
Fine gray brown (Loss Circulation)			
Gravel CRS-Fine w/ sand	64	70	
Fine CRS brown (Loss Circulation)			
Gravel med-fine w/ sand	70	80	
CRS-Fine Gray brown			
Sandy Clay Gray	80	82	
WOOD	82	83	
Claystone Gray	83	110	

Date started 11/21/01 Completed 12/20/01

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.
Signed Chris Keising WWC Number 1759 Date 1/4/02

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.
Signed Jim Mack WWC Number 1493 Date 1/4/02

DEC 04 2007

WATER RESOURCES DEPT
SALEM, OREGON

STATE OF OREGON
GEOTECHNICAL HOLE REPORT
 (as required by OAR 690-240-035)

COOS
 52220

(Pg 1)

(1) OWNER/PROJECT: Hole Number 810

Name Bally Bandon Sheep Ranch
 Address PO Box 1756
 City Bandon State OR Zip 97411

(2) TYPE OF WORK

New Deepening Alteration (repair/recondition) Abandonment

(3) CONSTRUCTION:

Rotary Air Hand Auger Hollow Stem Auger
 Rotary Mud Cable Tool Push Probe Other

(4) TYPE OF HOLE:

Uncased Temporary Cased Permanent
 Uncased Permanent Slope Stability Other

(5) USE OF HOLE: Formation Samples

(9) LOCATION OF HOLE by legal description:

County Coos Latitude _____ Longitude _____
 Township 27 N or S Range 14 E or W. W.M.
 Section 20 1/4 1/4 1/4
 Tax Lot 100 Lot _____ Block _____ Subdivision _____
 Street Address of Well (or nearest address) Whiskey Run Rd, Bandon

Map with location identified must be attached

(10) STATIC WATER LEVEL:

30'5" ft. below land surface. Date 12/21/01
 Artesian pressure _____ lb. per square inch. Date _____

(11) SUBSURFACE LOG:

Ground Elevation +1-100'

Material Description	From	To	SWL
Topsoil	0	1	
Sand Fine brown	1	3	
Sand Fine tan	3	12	
Clay brown	12	14	
Sandy Clay tan	14	15	
Sand Fine tan	15	18	
Sandy Clay white	18	20	
Sand Fine tan	20	30	

Continued on Page #2
 Date Started 11/29/01 Date Completed 12/21/01

(6) BORE HOLE CONSTRUCTION:

Special Construction approval Yes No Depth of Completed Hole 78' ft.

HOLE			SEAL			Sacks or pounds
Diameter	From	To	Material	From	To	
6"	0	78	Cement	0	78	25x
			Bentonite	0	35	18.5x

Backfill placed from _____ ft. to _____ ft. Material _____
 Filter Pack placed from _____ ft. to _____ ft. Size of pack _____

(7) CASING/SCREEN:

Diameter	From	To	Gauge	Steel				Threaded
				Plastic	Welded	Welded	Threaded	
Casing: <u>2"</u>	<u>+1</u>	<u>35</u>	<u>5/8</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Screen:				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(8) WELL TEST:

Pump Bailer Air Flowing Artesian
 Permeability _____ Yield _____ GPM _____
 Conductivity _____ PH _____
 Temperature of water _____ °F/C Depth artesian flow found _____ ft.
 Was water analysis done? Yes No
 By whom? _____
 Depth of strata analyzed. From _____ ft. to _____ ft.
 Remarks: _____

(12) ABANDONMENT LOG:

Material Description	From	To	Sacks or Pounds
<p>RECEIVED JAN 10 2002 WATER RESOURCES DEPT. SALEM, OREGON</p>			

Professional Certification

(to be signed by a licensed water supply or monitoring well constructor, or Oregon registered geologist or civil engineer).

I accept responsibility for the construction, alteration, or abandonment work performed during the construction dates reported above. All work performed during this time is in compliance with Oregon's geotechnical hole construction standards. This report is true to the best of my knowledge and belief.

License or Registration Number 1493
 Signed Jim Mack Date 1/7/02
 Affiliation Bandon Well & Septic Co. inc

THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

ORIGINAL - WATER RESOURCES DEPARTMENT FIRST COPY - CONSTRUCTOR SECOND COPY - CUSTOMER

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WATER RESOURCES DEPT
 SALEM, OREGON

STATE OF OREGON
GEOTECHNICAL HOLE REPORT
 (as required by OAR 690-240-035)

(Pg 2)

COOS
 52220

(1) OWNER/PROJECT: Hole Number 810
 Name Bally Bandon Sheep Ranch
 Address PO Box 1756
 City Bandon State OR Zip 97911

(2) TYPE OF WORK
 New Deepening Alteration (repair/recondition) Abandonment

(3) CONSTRUCTION:
 Rotary Air Hand Auger Hollow Stem Auger
 Rotary Mud Cable Tool Push Probe Other

(4) TYPE OF HOLE:
 Uncased Temporary Cased Permanent
 Uncased Permanent Slope Stability Other

(5) USE OF HOLE:

(6) BORE HOLE CONSTRUCTION:
 Special Construction approval Yes No Depth of Completed Hole _____ ft.

HOLE			SEAL			Sacks or pounds
Diameter	From	To	Material	From	To	

Backfill placed from _____ ft. to _____ ft. Material _____
 Filter Pack placed from _____ ft. to _____ ft. Size of pack _____

(7) CASING/SCREEN:

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Screen:				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Slot size _____

(8) WELL TEST:
 Pump Bailer Air Flowing Artesian
 Permeability _____ Yield _____ GPM _____
 Conductivity _____ PH _____
 Temperature of water _____ °F/C Depth artesian flow found _____ ft.
 Was water analysis done? Yes No
 By whom? _____
 Depth of strata analyzed. From _____ ft. to _____ ft.
 Remarks: _____

(9) LOCATION OF HOLE by legal description:
 County Coos Latitude _____ Longitude _____
 Township d7 N or S Range 14 E or W WM.
 Section 20 NW 1/4 NW 1/4
 Tax Lot 100 Lot _____ Block _____ Subdivision _____
 Street Address of Well (or nearest address) Whiskey Run Rd
Bandon

Map with location identified must be attached

(10) STATIC WATER LEVEL:
 _____ ft. below land surface. Date _____
 Artesian pressure _____ lb. per square inch. Date _____

(11) SUBSURFACE LOG:
 Ground Elevation _____

Material Description	From	To	SWL
Sand Fine-med Tan	30	37	
Sandy Clay brn w/sand Fine	37	45	
Peat Brown	45	46	
wood/sand Fine brown	46	48	
Sand Fine-med tan	48	53	
Gravel med cks Brn Red w/sand	53	60	
Sand Fine w/gravel Fine cks Gravel	60	65	
Sandy Clay Gray	65	66	
Claystone Gray	66	78	

Date Started 11/29/01 Date Completed 12/21/01

(12) ABANDONMENT LOG:

Material Description	From	To	Sacks or Pounds

Date started _____ Date Completed _____

Professional Certification
 (to be signed by a licensed water supply or monitoring well constructor, or Oregon registered geologist or civil engineer).
 I accept responsibility for the construction, alteration, or abandonment work performed during the construction dates reported above. All work performed during this time is in compliance with Oregon's geotechnical hole construction standards. This report is true to the best of my knowledge and belief.
 License or Registration Number 1493
 Signed Jan Muckler MGCW Date 11/7/02
 Affiliation Bandon Well + Septic Co inc.

THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

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WATER RESOURCES DEPT
 SALEM, OREGON

COOS 52220

27-14-20

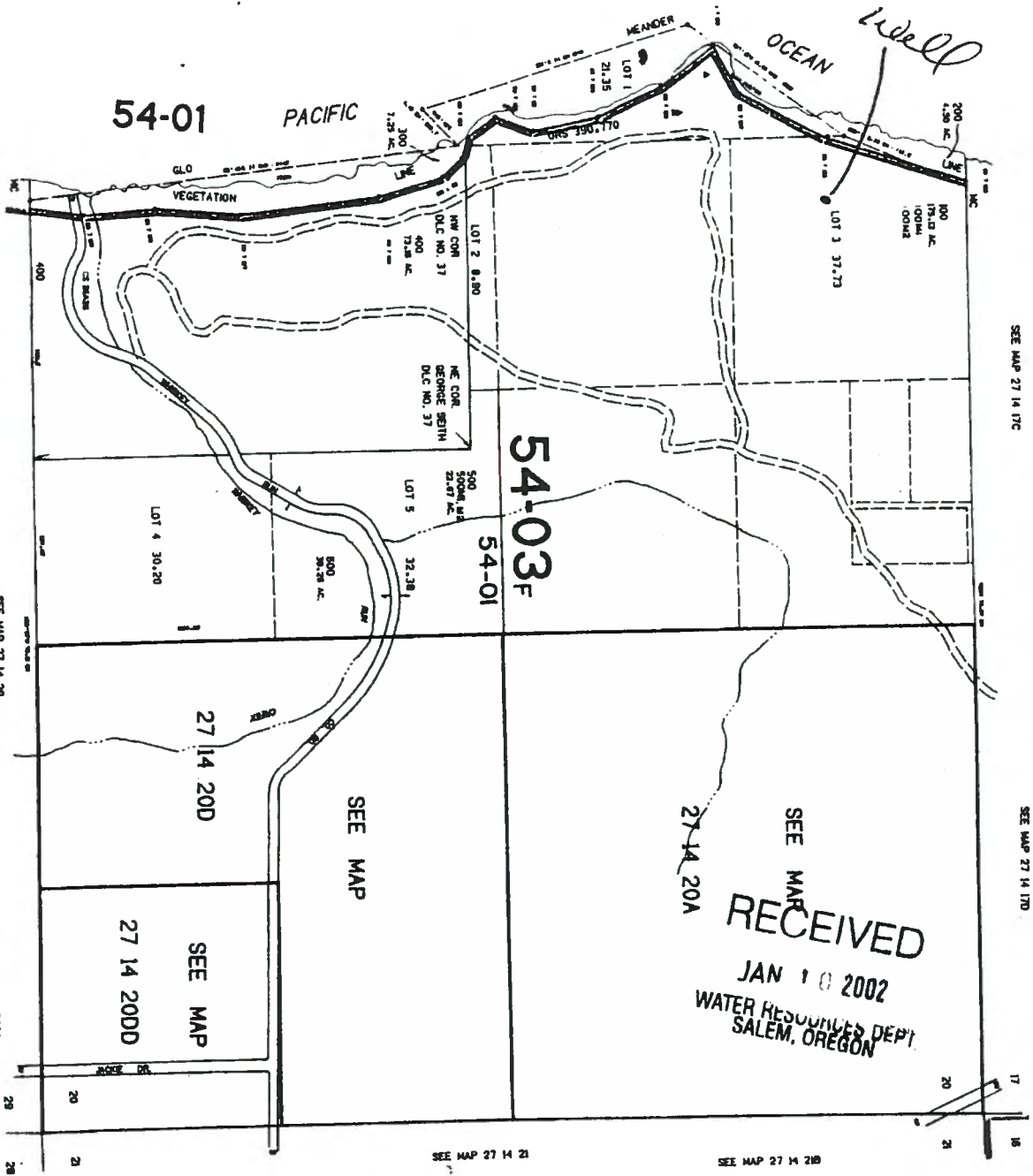
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CHANGES UPDATED AS OF MAR 16 1995

CONTROL LAYOUT TRACED CHECKED

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COOS COUNTY
T-400

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STATE OF OREGON
 GEOTECHNICAL HOLE REPORT
 (as required by OAR 690-240-035)

OCT 11 2002
 WATER RESOURCES DEPT.
 SALEM, OREGON

COOS
 52546

07-14-20 NW SW

(1) OWNER/PROJECT: Hole Number 856
 Name Bally Bardon Sheep Ranch
 Address PO Box 1756
 City Bardon State OR Zip 97411

(2) TYPE OF WORK
 New Deepening Alteration (repair/recondition) Abandonment

(3) CONSTRUCTION:
 Rotary Air Hand Auger Hollow Stem Auger
 Rotary Mud Cable Tool Push Probe Other

(4) TYPE OF HOLE:
 Uncased Temporary Cased Permanent
 Uncased Permanent Slope Stability Other

(5) USE OF HOLE: Piezometer

(6) BORE HOLE CONSTRUCTION:
 Special Construction approval Yes No Depth of Completed Hole 76'8" TOC

HOLE			SEAL			Sacks or pounds
Diameter	From	To	Material	From	To	
6"	0	75	Bentonite	0	40	13

Backfill placed from _____ ft. to _____ ft. Material _____
 Filter Pack placed from 40 ft. to 75 ft. Size of pack 10/20

(7) CASING/SCREEN:

Diameter	From	To	Gauge	Material			
				Steel	Plastic	Welded	Threaded
Casing: 2"	+1	60	54	40	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Screen: 2"	60	75	54	40	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Slot size 1020

(8) WELL TEST:
 Pump Bailer Air Flowing Artesian
 Permeability _____ Yield _____ GPM 56PM
 Conductivity _____ PH _____
 Temperature of water 53° °F/C Depth artesian flow found _____ ft.
 Was water analysis done? Yes No
 By whom? _____
 Depth of strata analyzed. From _____ ft. to _____ ft.
 Remarks: _____

(9) LOCATION OF HOLE by legal description:
 County COOS Latitude _____ Longitude _____
 Township d7 N or S Range 14 E or W. WM.
 Section 20 NW 1/4 SW 1/4
 Tax Lot 400 Lot _____ Block _____ Subdivision _____
 Street Address of Well (or nearest address) Whistry Run Rd. Bardon

Map with location identified must be attached

(10) STATIC WATER LEVEL:
58'4" ft. below land surface. Date 10/8/02
 Artesian pressure _____ lb. per square inch. Date _____

(11) SUBSURFACE LOG:
 Ground Elevation +1-300'

Material Description	From	To	SWL
Sandy Topsoil	0	1	
Cemented Sand Brown	1	2	
Sand brown Fine	2	9	
Sandy tan Clay	9	11	
Cemented sand tan	11	15	
Sandy Clay white	15	16	
Sand Fine tan	16	19	
Sandy Clay orange	19	20	
Sand tan Fine-med	20	29	

Date Started 10/07/02 Date Completed 10/08/02

(12) ~~LOG:~~ LOG: Cont.
Subsurface

Material Description	From	To	SWL
Sandy Clay white + orange	29	30	
Gravel Fine w/ Sand Brn	30	36	
Sand Fine-med Tan	36	40	
Sand Fine (Crs w/ Fine gravel)	40	61	58'4"
Sand Fine (Crs w/ gravel Med-Fine)	61	65	
Gravel Fine (Crs w/ sand)	65	74	
Crs-Fine Gray brn	74	75	
Clay Gray			

Date started 10/07/02 Date Completed 10/08/02

Professional Certification
 (to be signed by a licensed water supply or monitoring well constructor, or Oregon registered geologist or civil engineer).
 I accept responsibility for the construction, alteration, or abandonment work performed during the construction dates reported above. All work performed during this time is in compliance with Oregon's geotechnical hole construction standards. This report is true to the best of my knowledge and belief.
 License or Registration Number 1493
 Signed Jim Meek of M6wc Date 10/09/02
 Affiliation Bardon Well + Septic Co inc.

THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

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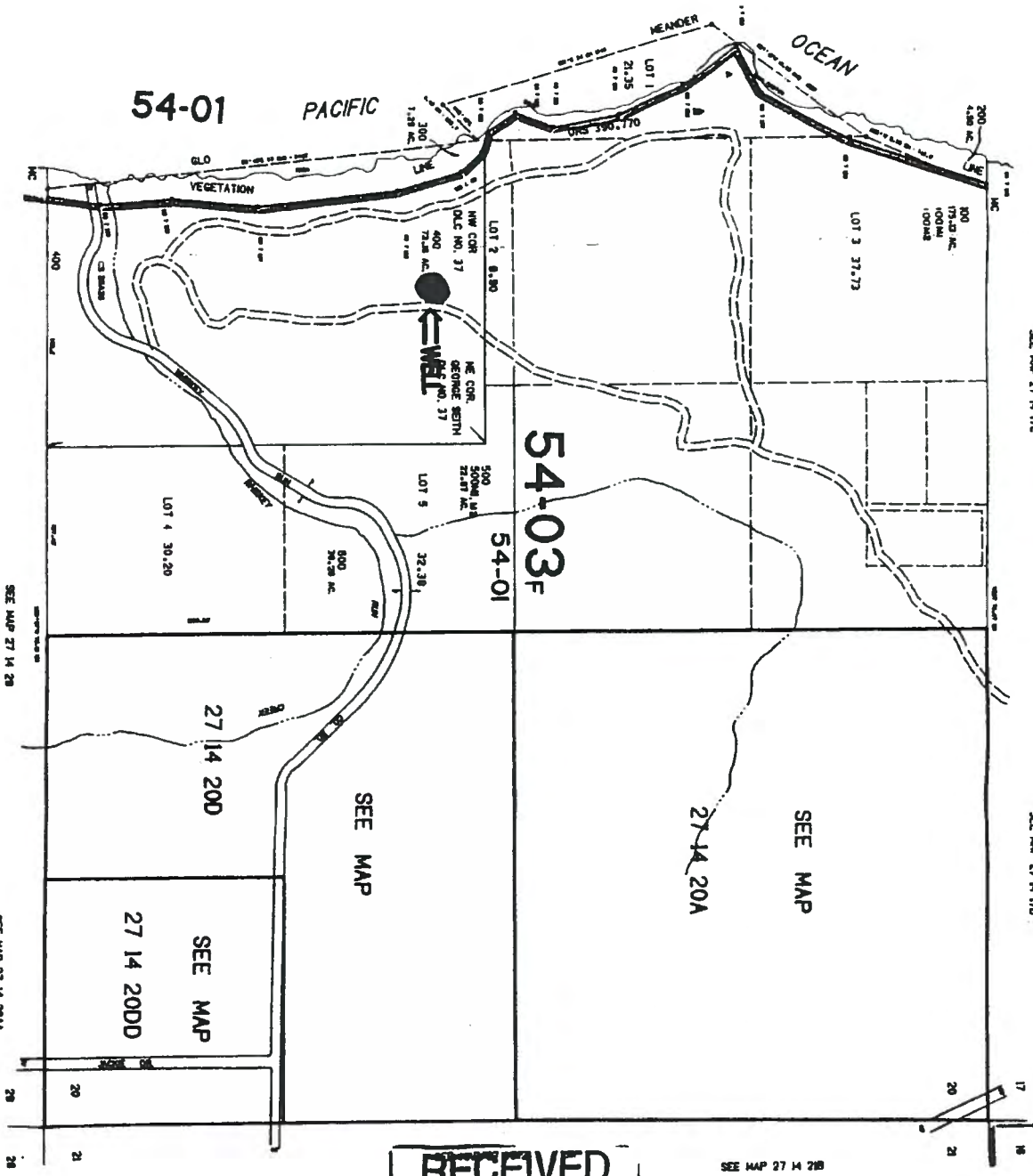
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TRACED LAYOUT TRACED CHECKED

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INDEX

COOS 53700

**STATE OF OREGON
MONITORING WELL REPORT**

(as required by ORS 537.765 & OAR 690-240-0395)

WELL LABEL # L 80266

START CARD # 182716

(1) LAND OWNER Owner Well I.D. 1153
 First Name Dennis Last Name Olson
 Company BALLY BANDON SHEEP RANCH
 Address PO Box 1756
 City Bandon State OR Zip 97411

(2) TYPE OF WORK New Deepening Conversion
 Alteration (repair/recondition) Abandonment

(3) DRILL METHOD
 Rotary Air Rotary Mud Cable Hollow Stem Auger Cable Mud
 Reverse Rotary Other _____

(4) CONSTRUCTION Piezometer Well

Depth of Completed Well 63.08 ft. Special Standard



MONUMENT/VAULT Above Ground
 From 1.3 To 4

BORE HOLE
 Diameter 6 From 0 To 65

CASING
 Dia. 2 From 1 To 43
 Gauge Sch40 Wid Thrd _____
 Material Steel Plastic

LINER
 Dia. _____ From _____ To _____
 Gauge _____ Wid Thrd _____
 Material Steel Plastic

SEAL
 From 0 To 30
 Material Bentonite
 Amount 12 S Grout weight _____

SCREEN
 Casing/Liner Casing Material PVC
 Diameter 2 From 43 To 53
 Slot Size .020

FILTER
 From 30 To 54 Material Sand Size of pack 10/20

(5) WELL TESTS

Pump Bailer Air Flowing Artesian

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)
3		60	

Temperature 53 °F Lab analysis Yes By _____

Supervising Geologist/Engineer _____

Water quality concerns? Yes (describe below)

From	To	D	Amount	Units

(6) LOCATION OF WELL (legal description)
 County COOS Twp 27 S N/S Range 14 W E/W WM
 Sec 20 SE 1/4 of the NW 1/4 Tax Lot 100
 Tax Map Number _____ Lot _____
 Lat _____ ° 0' _____ " or _____ DMS or DD
 Long _____ ° 0' _____ " or _____ DMS or DD
 Street address of well Nearest address

no#(vacant)Whiskey Run, Bandon

(7) STATIC WATER LEVEL

Existing Well / Predeepening	Date	SWL(psi)	+ SWL(ft)
Completed Well	09-19-2006		32.6

Flowing Artesian? Dry Hole?
 Depth water was first found 32.6

WATER BEARING ZONES

SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(ft)
09-19-2006	32.6	53.5	3		32.6

(8) WELL LOG Ground Elevation 300

Material	From	To
Cemented sand w/sand fine tan	0	4
Sand fine tan	4	9
Sandy clay tan w/gravel fine	9	10
Sand fine-coarse tan	10	16
Sand fine-coarse w/gravel fine tan	16	17
Sandy clay tan	17	18
Sand fine-coarse w/gravel fine tan	18	21
Sandy clay tan/orange w/peat	21	25
Sand fine-coarse w/gravel fine brown	25	38
Sandy clay tan/orange w/peat	38	41
Sand fine-coarse w/gravel f-m & cemented sand balls	41	45
Sand fine-coarse w/gravel fine tan	45	53
Gravel fine-medium w/sand fine-coarse tan	53	53.5
Sandy clay tan/orange	53.5	54
Clay tan & orange	54	56
Clay gray	56	57
Claystone gray	57	65

Date Started 09-18-2006 Completed 09-19-2006

(unbonded) Monitor Well Constructor Certification
 I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon monitoring well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

License Number _____ Date _____
 Password : (if filing electronically) _____
 Signed _____

(bonded) Monitor Well Constructor Certification
 I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon monitoring well construction standards. This report is true to the best of my knowledge and belief.

License Number 1493 Date 9/20/06
 Password : (if filing electronically) _____
 Signed John Mack, Jr. M6we
 (optional) BANDON WELL & PUMP COMPANY (541) 347-7867

COOS 53700

MONITORING WELL REPORT -
continuation page












WELL I.D. # L 80266
START CARD # 182716

(4) CONSTRUCTION

BORE HOLE			FILTER PACK			
Dia	From	To	From	To	Material	Size

Material	From	To	Amt	sacks/ lbs	grout weight
Cement	54	65	1.5	S	

CASING/LINER

Casing Liner	Dia	+	From	To	Gauge	Std	Plstc	Wld	Thrd
	2	<input type="checkbox"/>	53	63	Sch40			<input checked="" type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>						<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>						<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>						<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>						<input type="checkbox"/>	<input type="checkbox"/>

SCREENS

Perf/ Screen	Casing/ Liner	Screen Dia	From	To	Scrn size/ slot width	Slot length	# of slots	Tele/ pipe size

(5) WELL TESTS

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)

Water Quality Concerns

From	To	Description	Amount	Units
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SALEM, OREGON

(7) STATIC WATER LEVEL

Water Bearing Zones						
SWL Date	From	To	Est Flow	SWL(psi)	+	SWL(ft)

(8) WELL LOG

Material	From	To

Comments/Remarks

Well Drilled By
Bandon Well & Pump Co.
(541) 347-7867

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MONITORING WELL REPORT -
continuation page

WELL I.D. # L 80266

START CARD # 182716

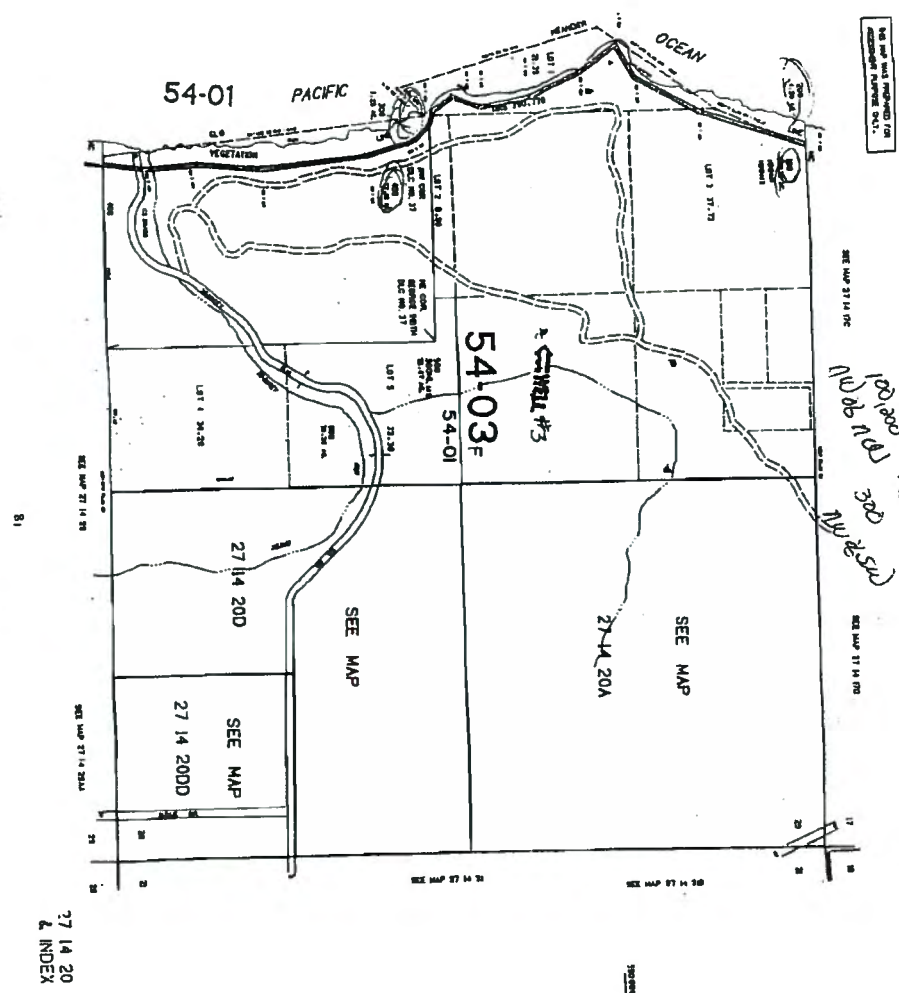
Map of well

CONTROL LAYOUT TRACED CHECKED

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SALEM, OREGON

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WATER RESOURCES DEPT
SALEM, OREGON

STATE OF OREGON
MONITORING WELL REPORT

(as required by ORS 537.765 & OAR 690-240-0395)

WELL LABEL # L 80265

START CARD # 182719

(1) LAND OWNER Owner Well I.D. 1154
 First Name Dennis Last Name Olson
 Company BALLY BANDON SHEEP RANCH
 Address PO Box 1756
 City Bandon State OR Zip 97411

(2) TYPE OF WORK New Deepening Conversion
 Alteration (repair/recondition) Abandonment

(3) DRILL METHOD
 Rotary Air Rotary Mud Cable Hollow Stem Auger Cable Mud
 Reverse Rotary Other

(4) CONSTRUCTION Piezometer Well
 Depth of Completed Well 72.6 ft. Special Standard

MONUMENT/VAULT Above Ground
 From 1.3 To 4
 BORE HOLE
 Diameter 6 From 0 To 73
 CASING
 Dia. 2 From 1 To 54.4
 Gauge Sch40 Wld Thrd
 Material Steel Plastic
 LINER
 Dia. From To
 Gauge Wld Thrd
 Material Steel Plastic
 SEAL
 From 0 To 41
 Material Bentonite
 Amount 15 S Grout weight
 SCREEN
 Casing/Liner Casing Material PVC
 Diameter 2 From 54.4 To 64
 Slot Size .02
 FILTER
 From 41 To 65 Material Sand Size of pack 10/20

(6) LOCATION OF WELL (legal description)
 County COOS Twp 27 S N/S Range 14 W E/W WM
 Sec 20 NW 1/4 of the SW 1/4 Tax Lot 400
 Tax Map Number Lot
 Lat ° 0 ' " or DMS or DD
 Long ° 0 ' " or DMS or DD
 Street address of well Nearest address

off Whiskey Run Road no#vacant

(7) STATIC WATER LEVEL
 Date SWL(psi) + SWL(ft)
 Existing Well / Predeepening
 Completed Well 09-21-2006 51.4
 Flowing Artesian? Dry Hole?
 WATER BEARING ZONES Depth water was first found 51.4

SWL Date	From	To	Est Flow	SWL (psi)	+ SWL (ft)
09-21-2006	51.4	68	20		51.4

(8) WELL LOG Ground Elevation 200

Material	From	To
Sandy clay brown	0	1
Cemented sand brown	1	7
Sandy clay tan	7	7.5
Cemented sand brown	7.5	9
Sand tan fine	9	11
Sandy clay white	11	12
Sandy clay tan/orange	12	13
Sand fine tan	13	21
Sandy clay white	21	22
Sand fine-coarse brown	22	29
Sandy clay tan/orange	29	30
Sand fine-coarse w/gravel fine brown	30	35
Sandy clay orange	35	36
Sand fine-coarse w/gravel fine brown	36	43
Sandy clay tan	43	44
Sand fine-coarse w/gravel fine brown	44	46
Cemented sand red	46	48
Sand fine-coarse w/gravel fine brown	48	53
Continued on page 2	48	53

Date Started 09-20-2006 Completed 09-21-2006

(unbonded) Monitor Well Constructor Certification
 I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon monitoring well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

License Number _____ Date _____
 Password: (if filing electronically) _____
 Signed _____

(bonded) Monitor Well Constructor Certification
 I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon monitoring well construction standards. This report is true to the best of my knowledge and belief.

License Number 1493 Date 9/22/06
 Password: (if filing electronically) _____
 Signed *John Mack...*
 Contact Info (optional) BANDON WELL & PUMP COMPANY (541) 347-7867

(5) WELL TESTS
 Pump Bailer Air Flowing Artesian

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)
		72	1

Temperature 53 °F Lab analysis Yes By _____

Supervising Geologist/Engineer _____

Water quality concerns? Yes (describe below)

From	To	Description	Amount	Units

COOS 53703

MONITORING WELL REPORT -
continuation page

WELL I.D. # L 80265

START CARD # 182719

(4) CONSTRUCTION

BORE HOLE

Dia	From	To






FILTER PACK

From	To	Material	Size

SEAL

Material	From	To	Amt	sacks/ lbs	grout weight
Cement	66	73	1	S	

CASING/LINER

Casing Liner	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd
	2		65	72.6	Sch40				

SCREENS

Perf/ Screen	Casing/Screen Liner	Dia	From	To	Scrn size/ slot width	Slot length	# of slots	Tele/ pipe size

(5) WELL TESTS

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)

Water Quality Concerns

From	To	Description	Amount	Units

(7) STATIC WATER LEVEL

Water Bearing Zones

SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(ft)

(8) WELL LOG

Material	From	To
Gravel fine-medium w/sand fine-coarse multi-colored	53	64
Clay brown	64	64.5
Sandy clay gray	64.5	66
Wood w/gravel & sandy clay gray (Loss circulation)	66	68
Sandstone gray	68	71
Claystone gray	71	73

Comments/Remarks

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Well drilled by:
BANDON WELL & PUMP COMPANY
(541) 347-7867

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SALEM, OREGON

COOS 53703

MONITORING WELL REPORT -
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WELL I.D. # L 80265
START CARD # 182719

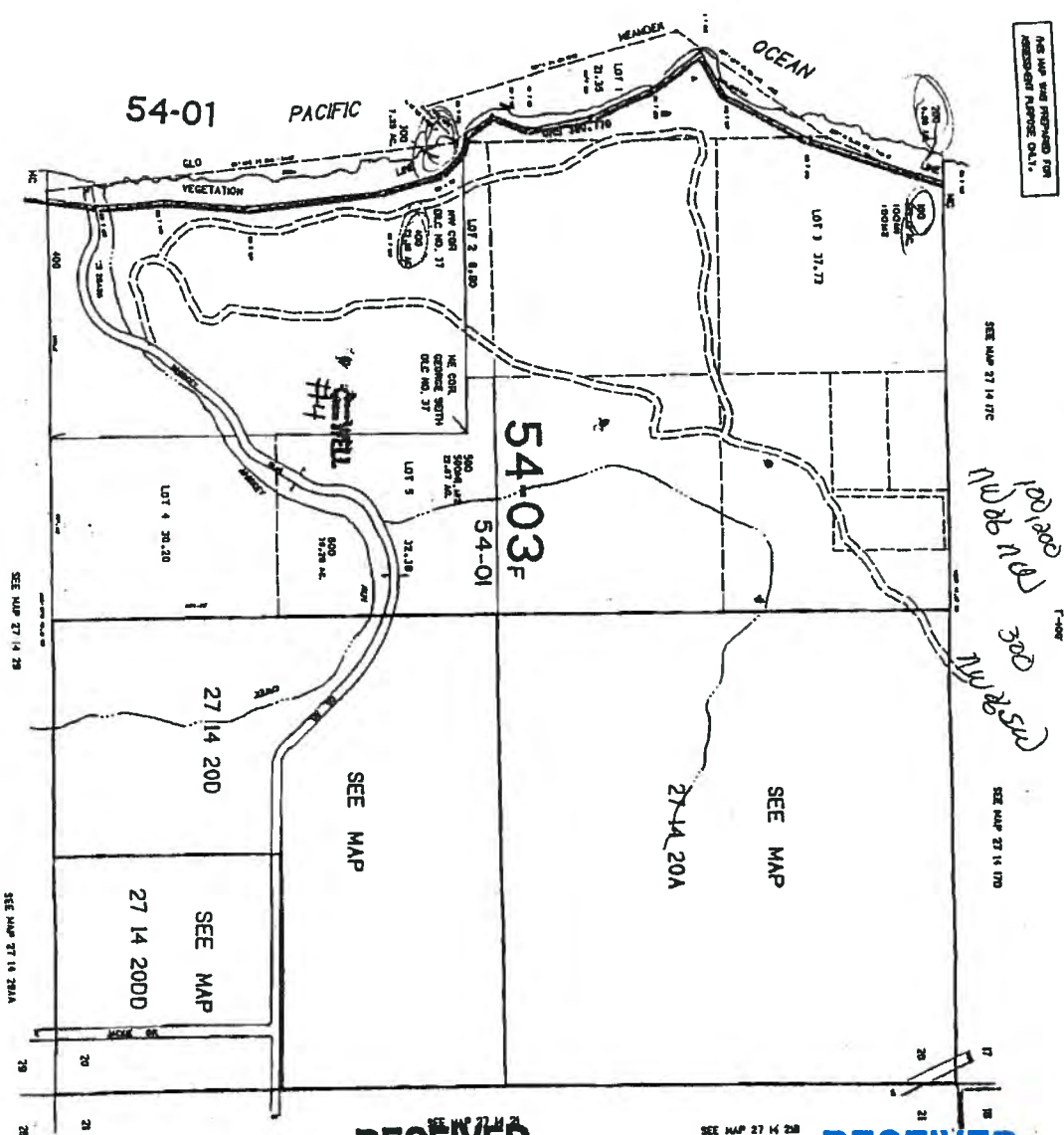
Map of well

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THIS MAP WAS PREPARED FOR
RECORDATION NUMBER 201-1

SECTION 20 12/S. 14W. W.M.
COOS COUNTY

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see map 27-14-200D

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SALEM, OREGON

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STATE OF OREGON
MONITORING WELL REPORT

(as required by ORS 537.765 & OAR 690-240-0395)

WELL LABEL # L 81702

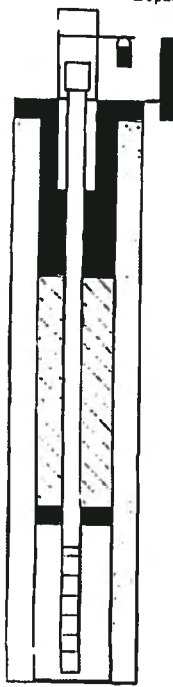
START CARD # 1000457

(1) LAND OWNER
Owner Well I.D. 1179-6
First Name Dennis Last Name Olson
Company BALLY BANDON SHEEP RANCH
Address PO Box 1756
City Bandon State OR Zip 97411

(2) TYPE OF WORK New Deepening Conversion
 Alteration (repair/recondition) Abandonment

(3) DRILL METHOD
 Rotary Air Rotary Mud Cable Hollow Stem Auger Cable Mud
 Reverse Rotary Other

(4) CONSTRUCTION Piezometer Well
Depth of Completed Well 70.58 ft. Special Standard



MONUMENT/VAULT Above Ground
From 1.5 To 4

BORE HOLE
Diameter 10 From 0 To 4

CASING
Dia. 2 From 1 To 52.58
Gauge Sch40 Wid Thrd
Material Steel Plastic

LINER
Dia. From To
Gauge Wid Thrd
Material Steel Plastic

SEAL
From 0 To 50
Material Bentonite Chips
Amount 10 S Grout weight

SCREEN
Casing/Liner Casing Material PVC
Diameter 2 From 52.58 To 62.58
Slot Size .011

FILTER
From 50 To 71 Material Sand Size of pack 10/20

(5) WELL TESTS

Pump Bailor Air Flowing Artesian

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)
10		65	1

Temperature 54 °F Lab analysis Yes By

Supervising Geologist/Engineer

Water quality concerns? Yes (describe below)

From	To	Description

(6) LOCATION OF WELL (Legal description)
County COOS Twp 27 S N/S Range 14 W E/W WM
Sec 20 SE 1/4 of the NW 1/4 Tax Lot 100
Tax Map Number Lot
Lat 0 or DMS or DD
Long 0 or DMS or DD

(7) STATIC WATER LEVEL
Date SWL (psi) + SWL (ft)
Existing Well / Predeepening
Completed Well 01-09-2007 36
Flowing Artesian? Dry Hole?
WATER BEARING ZONES Depth water was first found 36

SWL Date	From	To	Est Flow	SWL (psi)	+ SWL (ft)
01-09-2007	36	62	10		36

(8) WELL LOG Ground Elevation 200

Material	From	To
Sandy topsoil	0	2
Cemented sand orange brown	2	3
Peat w/wood	3	4
Cemented sand orange brown	4	5
Sand fine-medium brown	5	16
Sandy clay white & orange	16	18
Sand fine-medium orange brown	18	20
Sandy clay orange	20	21
Sand fine-coarse brown	21	30
Sandy clay tan	30	31
Sand fine-coarse gray brown	31	38
Sandy clay tan	38	40
Sand fine-coarse gray brown w/sandy clay tan	40	48
Gravel fine w/sand coarse-fine orange brown	48	53
Gravel fine-medium w/sand coarse-fine gray brown	53	58
Gravel fine-medium w sand c-f & sandy clay orange	58	60
Gravel fine-medium w/sand coarse-fine gray brown	60	62
Claystone blue gray	62	64
Claystone lt brown	64	71

Date Started 01-09-2007 Completed 01-09-2007

(unbonded) Monitor Well Constructor Certification
I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon monitoring well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

License Number Date
Password: (if filing electronically)
Signed

(bonded) Monitor Well Constructor Certification
I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon monitoring well construction standards. This report is true to the best of my knowledge and belief.

License Number 1493 Date 11/10/07
Password: (if filing electronically)
Signed
Contact Info (optional) BANDON WELL & PUMP COMPANY (541) 347-7867

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MONITORING WELL REPORT -
continuation page

WELL I.D. # L #1702

START CARD # 1000457

(4) CONSTRUCTION

BORE HOLE			FILTER PACK			
Dia	From	To	From	To	Material	Size
6	4	71				

SEAL		sacks/ grout			
Material	From	To	Amt	lbs	weight

CASING/LINER

Casing Liner	Dia	+	From	To	Gauge	Stl	Pstc	Wid	Thrd
2			62.58	70.58	Sch40				

SCREENS

Perf/ Screen	Casing/ Screen Liner	Dia	From	To	Scm size/ slot width	Slot length	# of slots	Tele/ pipe size

(7) STATIC WATER LEVEL

Water Bearing Zones					
SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(ft)

(8) WELL LOG

Material	From	To

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 SALEM, OREGON

(5) WELL TESTS

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)

Water Quality Concerns

From	To	Description	Amount	Units

Comments/Remarks

Piezometer well drilled by:
Bandon Well & Pump Co.

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SALEM, OREGON

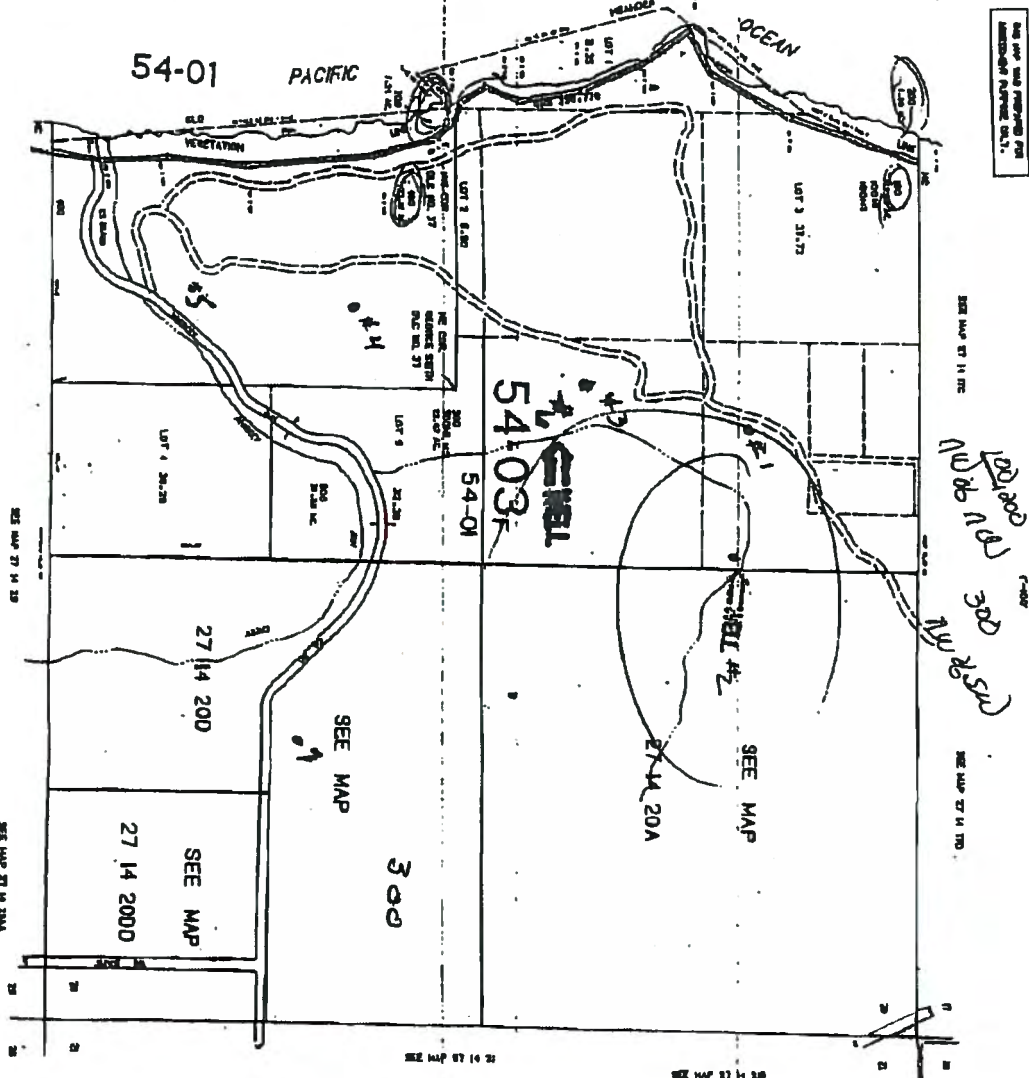
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COOS COUNTY

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WATER RESOURCES DEPT
SALEM, OREGON

STATE OF OREGON
MONITORING WELL REPORT

(as required by ORS 537.765 & OAR 690-240-0395)

WELL LABEL # L 81703

START CARD # 1000472

(1) LAND OWNER Owner/Well I.D. 1182 P-5
First Name Dennis Last Name Olson
Company BALLEY BANDON SHEEP RANCH
Address PO Box 1756
City Bandon State OR Zip 97411

(2) TYPE OF WORK New Deepening Conversion
 Alteration (repair/recondition) Abandonment

(3) DRILL METHOD
 Rotary Air Rotary Mud Cable Hollow Stem Auger Cable Mud
 Reverse Rotary Other

(4) CONSTRUCTION Piezometer Well
Depth of Completed Well 75.08 ft. Special Standard



MONUMENT/VAULT Above Ground
From 1.5 To 4

BORE HOLE
Diameter 10 From 0 To 4

CASING
Dia. 2 From 1 To 65
Gauge Sch 40 Wid Thrd
Material Steel Plastic

LINER
Dia. _____ From _____ To _____
Gauge _____ Wid Thrd
Material Steel Plastic

SEAL
From 0 To 62
Material Bentonite Chips
Amount 13 S Grout weight

SCREEN
Casing/Liner Casing Material PVC
Diameter 2 From 65 To 75
Slot Size .011

FILTER
From 62 To 75.08 Material Sand Size of pack 10/20

(5) WELL TESTS
 Pump Bailor Air Flowing Artesian
Yield gal/min Drawdown Drill stem/Pump depth Duration (hr)
5 75 1

Temperature 54 °F Lab analysis Yes By _____

Supervising Geologist/Engineer
Water quality concerns? Yes (describe below)
From To Description
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(6) LOCATION OF WELL (legal description)
County COOS Twp 27 S N/S Range 14 W E/W WM
Sec 20 SW 1/4 of the SW 1/4 Tax Lot 400
Tax/Map Number Lot
Lat _____ or _____ DMS or DD
Long _____ or _____ DMS or DD
 Street address of well Nearest address
not vacant; Whiskey Run Road, Bandon

(7) STATIC WATER LEVEL
Date SWL (psi) + SWL (ft)
Existing Well / Predeepening _____
Completed Well 01-15-2007 _____ 46.8
Flowing Artesian? Dry Hole?
WATER BEARING ZONES Depth water was first found 46.75
SWL Date From To Est Flow SWL (psi) + SWL (ft)
01-15-2007 46.75 74 5 _____ 46.75

(8) WELL LOG Ground Elevation 200

Material	From	To
Topsoil	0	1
Sand fine orange brown	1	3
Sand fine brown	3	9
Sandy clay brown	9	10
Cemented sand orange brown	10	13
Sand fine-medium orange brown	13	16
Sandy clay w/cemented sand lenses tan	16	20
Sand fine-medium tan	20	22
Cemented sand w/sandy clay lenses tan	22	24
Sand fine-coarse brown	24	30
Sand coarse-fine gray brown	30	39
Sandy clay tan	39	40
Sand coarse-fine w/gravel fine gray brown	40	49
Gravel fine w/sand c-f & sandy clay brown	49	51
Gravel fine w/sand coarse-fine gray brown	51	54
Gravel fine-medium w/sand coarse-fine orange brown	54	61
Sandy clay tan w/gravel f-m & sand c-f orange brown	61	63
Sandy clay orange brown w/gravel f-m & sand brown	63	66

Continued on page 2

Date Started 01-15-2007 Completed 01-15-2007

(unbonded) Monitor Well Constructor Certification
I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon monitoring well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.
License Number _____ Date _____
Password: (if filing electronically) _____
Signed _____

(bonded) Monitor Well Constructor Certification
I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon monitoring well construction standards. This report is true to the best of my knowledge and belief.
License Number 1493 Date 1/16/07
Password: (if filing electronically) _____
Signed [Signature] Bandon Well & Pump Company (541) 347-7867

THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK
SALEM, OREGON Form Version: 0.31

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WATER RESOURCES DEPT
SALEM, OREGON

COOS 53827

MONITORING WELL REPORT -
continuation page

WELL I.D. # L 81703

START CARD # 1000472

(4) CONSTRUCTION

BORE HOLE			FILTER PACK			
Dia	From	To	From	To	Material	Size
6	4	75.08				

SEAL			sacks/ grout		
Material	From	To	Amt	lbs	weight

CASING/LINER

Casing Liner	Dia	+	From	To	Gauge	Stl	Plste	Wld	Thrd

SCREENS

Pcr/ Screen	Casing/ Screen	Dia	From	To	Scrn size/ slot width	Slot length	# of slots	Tele/ pipe size

(5) WELL TESTS

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)

Water Quality Concerns

From	To	Description	Amount	Units

(7) STATIC WATER LEVEL

Water Bearing Zones

SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(ft)

(8) WELL LOG

Material	From	To
Sandy clay tan w/gravel fine & sand c-f orange brown	66	68
Gravel fine-medium w/sand c-f gray brown	68	74
Claystone gray	74	75.08

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SALEM, OREGON

Comments/Remarks

Piezometer Well Drilled By: Bandon Well & Pump Co. (541)347-7867
--

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SALEM, OREGON

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CHANGES UPDATED AS OF MAR 18 1996

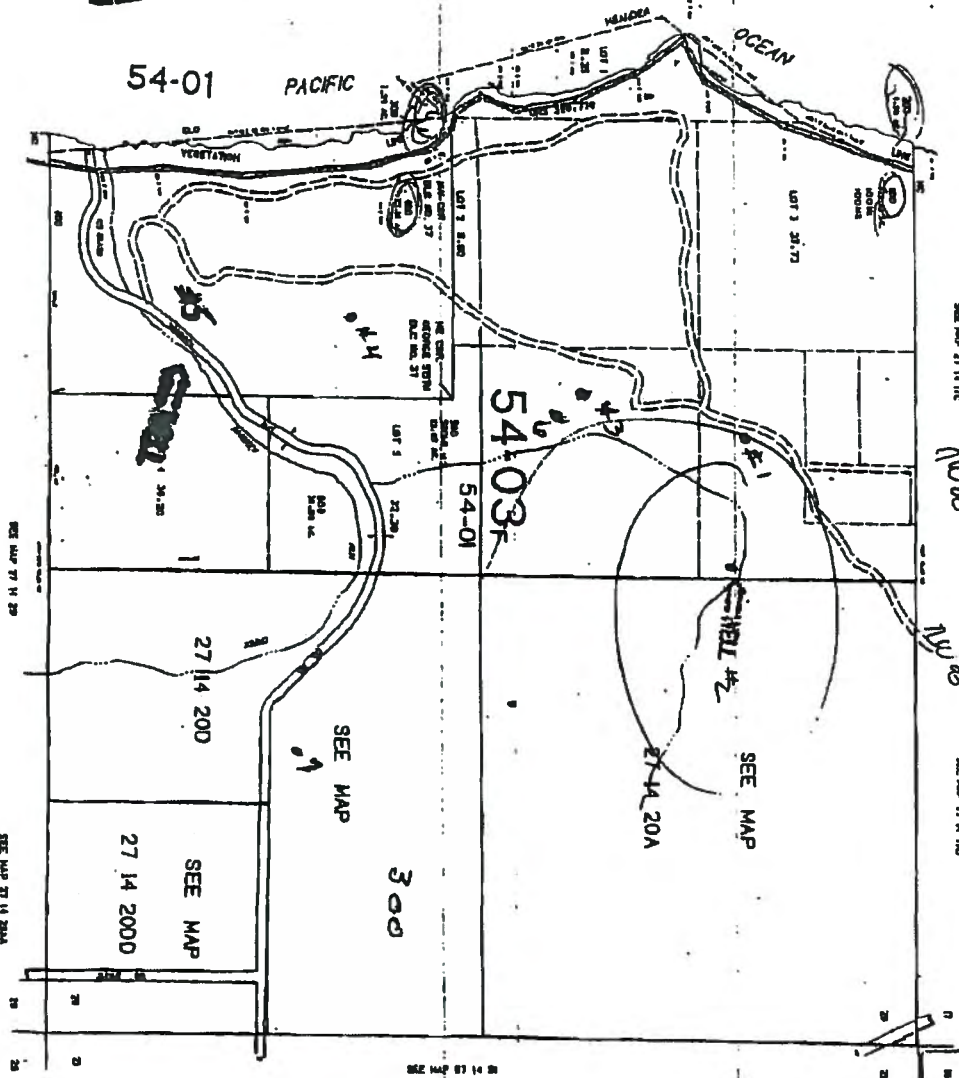
COOS 53827

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SALEM, OREGON

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THIS MAP WAS PREPARED FOR
LANDSCAPE PLANNING ONLY.



SECTION 20 12/15. K.M.W. W.M.
COOS COUNTY

Handwritten notes:
2000
27-14 200
27-14 200

27 14 20
& INDEX

81

27 14 20
& INDEX

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WATER RESOURCES DEPT
SALEM, OREGON

COOS 53826

**STATE OF OREGON
MONITORING WELL REPORT**

(as required by ORS 537.765 & OAR 690-240-0395)

WELL LABEL # L 81704

START CARD # 1000459

(1) LAND OWNER Owner Well I.D. 1181 P-7

First Name Dennis Last Name Olson
 Company BALLY BANDON SHEEP RANCH
 Address PO Box 1756
 City Bandon State OR Zip 97411

(2) TYPE OF WORK New Deepening Conversion
 Alteration (repair/recondition) Abandonment

(3) DRILL METHOD
 Rotary Air Rotary Mud Cable Hollow Stem Auger Cable Mud
 Reverse Rotary Other _____

(4) CONSTRUCTION Piezometer Well

Depth of Completed Well 54.66 ft. Special Standard

MONUMENT/VAULT Above Ground
 From 1.5 To 4

BORE HOLE
 Diameter 10 From 0 To 4

CASING
 Dia. 2 From 1 To 39.66
 Gauge Sch 40 Wld Thrd _____
 Material Steel Plastic

LINER
 Dia. _____ From _____ To _____
 Gauge _____ Wld Thrd _____
 Material Steel Plastic

SEAL
 From 0 To 36
 Material Bentonite Chips
 Amount 7 S Grout weight _____

SCREEN
 Casing/Liner Casing Material PVC
 Diameter 2 From 39.66 To 49.66
 Slot Size .011

FILTER
 From 36 To 55 Material Sand Size of pack 10/20

(6) LOCATION OF WELL (legal description)

County COOS Twp 27 S N/S Range 14 W E/W WM
 Sec 20 NW 1/4 of the SE 1/4 Tax Lot 300
 Tax Map Number _____ Lot _____
 Lat _____ " or _____ DMS or DD
 Long _____ " or _____ DMS or DD
 Street address of well Nearest address

no# vacant, Whiskey Run Road, Bandon

(7) STATIC WATER LEVEL

Existing Well / Predeepening	Date	SWL (psi)	+ SWL (ft)
Completed Well	<u>01-16-2007</u>		<u>31.3</u>

Flowing Artesian? Dry Hole?
 Depth water was first found 31.3

SWL Date	From	To	Est Flow	SWL (psi)	+ SWL (ft)
<u>01-16-2007</u>	<u>31.3</u>	<u>50</u>	<u>5</u>		<u>31.3</u>

(8) WELL LOG Ground Elevation 200

Material	From	To
Sandy clay tan	0	3
Cemented sand orange brown & tan	3	6
Sand fine brown	6	8
Sandy clay tan	8	9
Sand fine-coarse gray brown w/sandy clay white	9	19
Sand coarse-fine gray brown w/sandy clay tan	19	21
Sandy clay w/sand fine-coarse brown	21	24
Sand c-f gray brown w/sandy clay brown	24	33
Cemented sand black & brown	33	40
Sand fine-coarse gray brown	40	45
Sand coarse-fine w/gravel fine-coarse gray brown	45	50
Sandy clay orange	50	51
Claystone gray brown	51	55

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 WATER RESOURCES DEPT.
 SALEM, OREGON

Date Started 01-16-2007 Completed 01-16-2007

(unbonded) Monitor Well Constructor Certification
 I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon monitoring well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

License Number _____ Date _____
 Password: (if filing electronically) _____
 Signed _____

(bonded) Monitor Well Constructor Certification
 I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon monitoring well construction standards. This report is true to the best of my knowledge and belief.

License Number 1493 Date 1/17/07
 Password: (if filing electronically) _____
 Signed [Signature]
 Contact Info (optional) BANDON WELL & PUMP COMPANY (541) 347-7867

(5) WELL TESTS

Pump Bailer Air Flowing Artesian

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)
<u>5</u>		<u>54</u>	<u>1</u>

Temperature 54 °F Lab analysis Yes By _____

Supervising Geologist/Engineer _____

Water quality concerns? Yes (describe below)

From	To	Description	Amount	Units

WATER RESOURCES DEPT
SALEM, OREGON

COOS 53826

MONITORING WELL REPORT -
continuation page

WELL I.D. # L 81704

START CARD # 1000459

(4) CONSTRUCTION

BORE HOLE

Dia	From	To
6	4	55

FILTER PACK

From	To	Material	Size

SEAL

Material	From	To	Amnt	sacks/ lbs	grout weight

CASING/LINER

Casing Liner	Dia	+	From	To	Gauge	Stl	Plstc	Wid	Thrd
⊙ ⊙ ⊙ ⊙ ⊙ ⊙		⊗				⊙ ⊙ ⊙ ⊙ ⊙ ⊙			

SCREENS

Perf/ Screen	Casing/ Liner	Screen Dia	From	To	Scr size/ slot width	Slot length	# of slots	Tele/ pipe size

(5) WELL TESTS

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)

Water Quality Concerns

From	To	Description	Amount	Units

(7) STATIC WATER LEVEL

Water Bearing Zones

SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(ft)

(8) WELL LOG

Material	From	To

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WATER RESOURCES DEPT.
SALEM, OREGON

Comments/Remarks

Piezometer Well Drilled By:
Bandon Well & Pump Co.
(541) 347-7867

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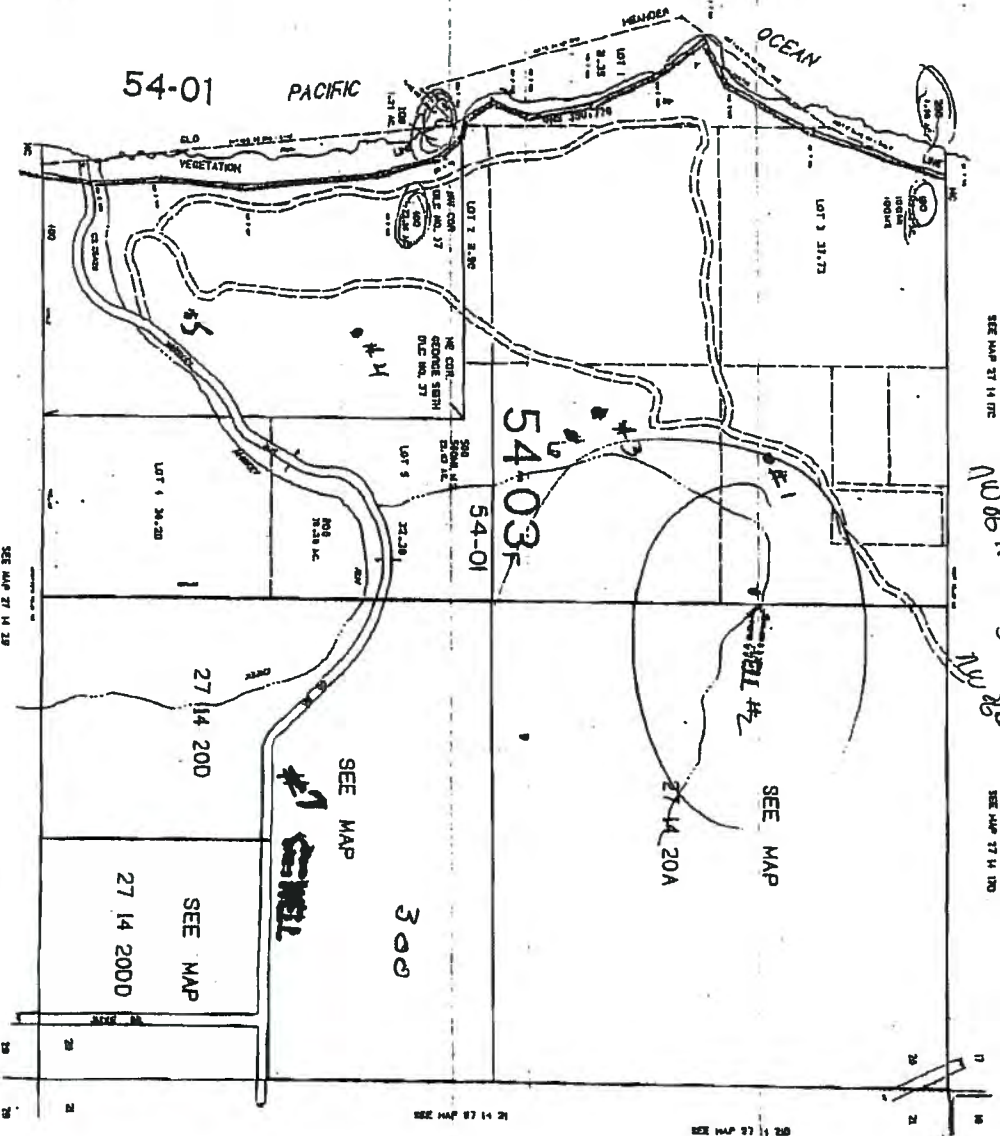
CHANGES UPDATED AS OF MAR 16 1995

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SALEM, OREGON

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SEE MAP FOR REVISIONS FOR
REVISION NUMBER ONLY.



SECTION 20 1 & 5, R14W, W4,
COOS COUNTY

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200 300
27 14 200
27 14 200A
27 14 2000

27 14 20
& INDEX

81

27 14 20
& INDEX

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WATER RESOURCES DEPT
SALEM, OREGON

STATE OF OREGON
WATER SUPPLY WELL REPORT

(as required by ORS 537.765 & OAR 690-205-0210)

03-27-2007

WELL LABEL # L 81722

START CARD # 1000458

(1) LAND OWNER Owner Well I.D. 1180 W-5

First Name Dennis Last Name Olson
Company Bally Bandon Sheep Ranch
Address PO Box 1756
City Bandon State OR Zip 97411

(2) TYPE OF WORK New Well Deepening Conversion
 Alteration (repair/recondition) Abandonment

(3) DRILL METHOD
 Rotary Air Rotary Mud Cable Auger Cable Mud
 Reverse Rotary Other

(4) PROPOSED USE Domestic Irrigation Community
 Industrial/ Commercial Livestock Dewatering
 Thermal Injection Other

(5) BORE HOLE CONSTRUCTION Special Standard Attach copy
Depth of Completed Well 75.00 ft.

BORE HOLE			SEAL			Amt	lbs
Dia	From	To	Material	From	To		
12.25	0	76	Bentonite	0	32	28	S

How was seal placed: Method A B C D E
 Other Pour from surface
Backfill placed from _____ ft. to _____ ft. Material _____
Filter pack from 32 ft. to 75 ft. Material Sand Size 8/12
Explosives used: Yes Type _____ Amount _____

(6) CASING/LINER

Casing	Liner	Dia	From	To	Gauge	Std	Plstc	Wld	Thrd
<input checked="" type="checkbox"/>	<input type="checkbox"/>	8	1.3	62.5	sdr26	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	8	72.5	75	sdr26	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	10	1.5	4	.250	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Shoe Inside Outside Other Location of shoe(s) _____
Temp casing Yes Dia _____ From _____ To _____

(7) PERFORATIONS/SCREENS
Perforations Method _____
Screens Type Johnson V-Wire Material Stainless Steel

Perf/ Screen	Casing/ Liner Dia	Screen Dia	From	To	Scr/slot width	Slot length	# of slots	Tele/ pipe size
Screen	8	8	62.5	72.5	.041			8

(8) WELL TESTS: Minimum testing time is 1 hour

Pump Bailer Air Flowing Artesian

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)
2.6	2.5	75	1
10	10	75	1

Temperature 53 °F Lab analysis Yes By _____
Water quality concerns? Yes (describe below)
From _____ To _____ Description _____ Amount _____ Units _____

(9) LOCATION OF WELL (legal description)

County Coos Twp 27.00 S N/S Range 14.00 W E/W WM
Sec 20 SW 1/4 of the SW 1/4 Tax Lot 400
Tax Map Number _____ Lot _____
Lat _____ " or _____ DMS or DD
Long _____ " or _____ DMS or DD
 Street address of well Nearest address
no # vacant Whiskey Run Road, Bandon

(10) STATIC WATER LEVEL

Existing Well / Predeepening	Date	SWL (psi)	+ SWL (ft)
Completed Well	03-26-2007		59.5

Flowing Artesian? Dry Hole?

WATER BEARING ZONES Depth water was first found 46.75

SWL Date	From	To	Est Flow	SWL (psi)	+ SWL (ft)
03-22-2007	59.5	74	10		59.5

(11) WELL LOG Ground Elevation 150

Material	From	To
Cemented sand orange brown	0	3
Sand fine tan	3	8
Cemented sand tan	8	9
Sandy clay tan	9	10
Cemented sand orange & brown	10	11
Sand fine brown	11	15
Sandy clay white	15	16
Sandy clay orange	16	17
Sand fine-medium tan	17	23
Sandy clay lt. gray	23	24
Sand fine-medium tan	24	32
Cemented sand orange & tan	32	33
Sand fine-coarse w/gravel fine tan	33	38
Sandy clay orange	38	39
Sandy clay tan	39	42
Sand fine-coarse tan	42	44
Sand fine-coarse w/gravel fine brown black	44	49
Gravel fine-medium w/sand coarse-fine brown	49	53
Continued on page 2	49	53

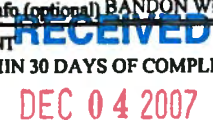
Date Started 01-10-2007 Completed 03-26-2007

(unbonded) Water Well Constructor Certification
I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

License Number _____ Date _____
Electronically Filed
Signed _____

(bonded) Water Well Constructor Certification
I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.

License Number 1493 Date 03-27-2007
Electronically Filed
Signed JAMES A MACK SR (E-filed)
Contact Info (optional) BANDON WELL & PUMP COMPANY (541) 347-7867



(5) BORE HOLE CONSTRUCTION

BORE HOLE			SEAL				sacks/ lbs
Dia	From	To	Material	From	To	Amt	

FILTER PACK

From	To	Material	Size

(6) CASING/LINER

Casing Liner	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd

(7) PERFORATIONS/SCREENS

Perf/ Screen	Casing/ Liner	Screen Dia	From	To	Scrm/slot width	Slot length	# of slots	Tele/ pipe size

(8) WELL TESTS: Minimum testing time is 1 hour

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)

Water Quality Concerns

From	To	Description	Amount	Units

(10) STATIC WATER LEVEL

Water Bearing Zones

SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(ft)

(11) WELL LOG

Material	From	To
Gravel fine-coarse w/sand coarse-fine brown green	53	57
Gravel fine-medium w/sand coarse-fine brown red	57	62
Gravel fine-medium w/sand coarse-fine brown green	62	67
Gravel fine-coarse w/sand coarse-fine brown	67	72
Gravel fine-coarse w/sandy clay tan	72	74
Sandy clay gray	74	74.5
Claystone gray	74.5	76

Comments/Remarks

At the time test hole and piezometer were drilled in January 07 the SWL was 46.75'

 WELL DRILLED BY:
 BANDON WELL & PUMP COMPANY
 (541) 347-7867

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STATE OF OREGON
WATER SUPPLY WELL REPORT

(as required by ORS 537.765 & OAR 690-205-0210)

03-30-2007

WELL LABEL # L 81718

START CARD # 1000477

(1) LAND OWNER Owner Well I.D. 1183 W-6

First Name Dennis Last Name Olson
Company BALLY BANDON SHEEP RANCH
Address PO BOX 1756
City BANDON State OR Zip 97411

(2) TYPE OF WORK New Well Deepening Conversion
 Alteration (repair/recondition) Abandonment

(3) DRILL METHOD
 Rotary Air Rotary Mud Cable Auger Cable Mud
 Reverse Rotary Other

(4) PROPOSED USE Domestic Irrigation Community
 Industrial/ Commercial Livestock Dewatering
 Thermal Injection Other

(5) BORE HOLE CONSTRUCTION Special Standard Attach copy
Depth of Completed Well 65.00 ft.

BORE HOLE			SEAL				
Dia	From	To	Material	From	To	Amt	sacks/ lbs
16	0	4	Bentonite	0	4	3	S
12.25	4	65	Bentonite	4	32	22	S
6	65	70					

How was seal placed: Method A B C D E
 Other Pour from surface
Backfill placed from _____ ft. to _____ ft. Material _____
Filter pack from 32 ft. to 70 ft. Material Sand Size 8/12
Explosives used: Yes Type _____ Amount _____

(6) CASING/LINER

Casing	Liner	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	10	<input checked="" type="checkbox"/>	1.5	4	.250	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	8	<input checked="" type="checkbox"/>	1.08	52.5	sdr26	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	8	<input type="checkbox"/>	62.5	65	sdr26	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Shoe Inside Outside Other Location of shoe(s) _____
Temp casing Yes Dia _____ From _____ To _____

(7) PERFORATIONS/SCREENS
Perforations Method _____
Screens Type Johnson V-Wire Material Stainless Steel

Perf/ Screen	Casing/ Liner	Screen Dia	From	To	Scrn/slot width	Slot length	# of slots	Tele/ pipe size
Screen		8	52.5	62.5	.061			8

(8) WELL TESTS: Minimum testing time is 1 hour
 Pump Bailer Air Flowing Artesian
Yield gal/min Drawdown Drill stem/Pump depth Duration (hr)
83.8 11.5 63 1
83.5 11.9 63 2

Temperature 53 °F Lab analysis Yes By _____
Water quality concerns? Yes (describe below)
From To Description Amount Units

(9) LOCATION OF WELL (legal description)

County Coos Twp 27.00 S N/S Range 14.00 W E/W WM
Sec 20 SW 1/4 of the SW 1/4 Tax Lot 400
Tax Map Number _____ Lot _____
Lat _____ " or _____ DMS or DD
Long _____ " or _____ DMS or DD
 Street address of well Nearest address

88500 Whisky Run Road, Bandon

(10) STATIC WATER LEVEL

Date SWL(psi) + SWL(ft)
Existing Well / Predeepening _____
Completed Well 03-29-2007 _____ 34
Flowing Artesian? Dry Hole?

WATER BEARING ZONES Depth water was first found 34

SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(ft)
03-29-2007	34	62	100		34

(11) WELL LOG

Ground Elevation 200

Material	From	To
Topsoil	0	2
Cemented sand brown	2	3
Wood & peat	3	4
Cemented sand brown	4	5
Sand fine-medium tan	5	16
Sandy clay tan & orange	16	18
Sand fine-coarse brown	18	31
Sandy clay tan w/sand fine-coarse brown	31	32
Sand fine-coarse brown	32	44
Sand fine-coarse w/gravel fine brown	44	50
Sandy clay tan w/gravel fine & sand f-c brown	50	52
Gravel fine w/sand coarse-fine brown	52	55
Gravel fine w/sand c-f & sandy clay orange brown	55	57
Gravel fine-medium w/sand coarse-fine gray brown	57	60
Gravel fine-medium w/sand c-f & sandy clay tan	60	61
Gravel fine-medium w/sand coarse-fine gray brown	61	62
Claystone gray	62	70

Date Started 01-11-2007 Completed 03-29-2007

(unbonded) Water Well Constructor Certification
I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

License Number _____ Date _____
Electronically Filed
Signed _____

(bonded) Water Well Constructor Certification
I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.

License Number 1493 Date 03-30-2007
Electronically Filed
Signed JAMES A MACK SR (E-filed)
Contact Info (optional) BANDON WELL & PUMP COMPANY (541) 347-7867

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SAI FM OREGON

**Water Year Reports
for
2004, 2005, and 2006**

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WATER RESOURCES DEPT
SALEM, OREGON

**Water Year Reports
for
2004, 2005, and 2006**

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WATER RESOURCES DEPT
SALEM, OREGON

Golder Associates Inc.

18300 NE Union Hill Road, Suite 200
Redmond, WA USA 98052-3333
Telephone (425) 883-0777
Fax (425) 882-5498
www.golder.com

COPY



November 5, 2004

Our Ref.: 023-1206.004

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WATER RESOURCES DEPT
SALEM, OREGON

Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, OR 97301-1271

Attention: Douglas Woodcock

RE: ANNUAL MONITORING REPORT FOR WATER YEAR 2004, BALLY BANDON SHEEP RANCH, GROUNDWATER PERMIT G-15437

Dear Doug:

Groundwater permit G-15437 was issued to the Bally Bandon Sheep Ranch (Sheep Ranch) on May 16, 2004. The permit allows the Sheep Ranch to irrigate 95 acres from up to six wells, at a combined maximum pumping rate of 0.45 cfs (202 gallons per minute) from March 1 through October 31. As part of the terms of the settlement agreement for the permit, installation of a continuous record streamflow gaging station on Whisky Run Creek, collection of irrigation well pumping quantities, and collection of groundwater level data from the irrigation well(s) and two or more observation wells were required. Collection of the data is described in the monitoring plan submitted to OWRD on September 3, 2003¹. Groundwater levels, pumping quantities, and streamflow data are collected by Sheep Ranch personnel. At this time, one irrigation well has been developed and is being used.

1.0 GROUNDWATER LEVELS

Groundwater levels were measured manually in the irrigation well and observation wells using an electric water level tape. Groundwater levels were collected on a monthly to weekly basis in the following wells:

- Bally Bandon Sheep Ranch irrigation well (Coos 52219);
- Bally Bandon Sheep Ranch northern piezometer (Coos 52220);
- Bally Bandon Sheep Ranch piezometer adjacent to irrigation well (Coos 52549); and
- Tokyo Lane well (Coos 717).

The well locations are shown on Figure 1. Groundwater levels were measured weekly when the irrigation well was being used, and monthly during the remainder of the year. Well construction information for these wells is summarized on Table 1.

¹ Golder Associates Inc., 2003, Monitoring Plan, Bally Bandon Sheep Ranch, Water Right Permit G-15437, September 3, 2003.



A 2004 water year hydrograph for these wells is shown on Figure 2. The annual water level fluctuation in the non-pumping wells was between about three and seven feet. Based on the data collected to date, pumping from the irrigation well has not affected the water level in the offsite well (Tokyo Lane Well) or in the northern piezometer. The groundwater level data does not indicate any long-term water level decline.

2.0 GROUNDWATER PUMPING

The irrigation well was used in October 2003 and from June 2004 through October 2004. In water year 2004, 2.65 million gallons (8.1 acre-feet) was pumped from the irrigation well. The monthly pumping totals are summarized on Table 1. Monthly average pumping rates ranged between about 10 and 19 gallons per minute (0.022 to 0.042 cfs). Daily pumping and cumulative pumping for water year 2004 are shown on Figure 3.

3.0 WHISKY RUN CREEK STREAMFLOW

Streamflow data on Whisky Run Creek are measured using a Swiffer current meter. A continuous record gaging station was established using pressure transducer to measure stream stage height. A rating curve was developed based on the Swiffer current meter readings and the transducer stage to estimate streamflows. Precipitation in water year 2004 was about 63 inches, about four inches more than the long-term annual average precipitation of about 59.3 inches².

The transducer was installed in August, 2003. Evaluation of the data collected between August 2003 and the beginning of March 2004 indicates the stage data are unreliable because of a number of factors, including beaver activity at the gage location, changes in channel depth at the gage from gold panning activity, and a blocked vent tube in the transducer assembly, causing erratic readings that cannot be corrected. Therefore, reliable continuous readings are not available until the beginning of March 2004.

The streamflow data are shown on Figure 4, along with monthly precipitation data collected at Bandon. As shown on Figure 4, streamflow increases in Whisky Run Creek shortly after precipitation events, but otherwise remains relatively constant, declining only slightly from about 3 cfs in March 2004 to about 2.7 cfs at the end of September 2004. The constant streamflow indicates that flows in Whisky Run Creek are sustained by relatively constant groundwater discharge over the year, rather than surface runoff.

OWRD established minimum instream flows (MISF) on Whisky Run Creek (certificate 72875). The instream flows are shown on Figure 4 (red dashed line). As shown on Figure 4, the gaged flows exceed the MISF after about April 15, 2004. Withdrawals from the irrigation well started on about June 15, 2004, when gaged streamflow was about 2.8 cfs, above the MISF for June of 1.28 cfs. The flow in Whisky Run Creek was always above the MISF when the irrigation well was pumped. Also shown on Figure 4 is the OWRD estimated natural streamflow for Whisky Run Creek based on 80% exceedance³ (blue dashed line). The MISF exceeds the estimated natural streamflow over the entire year. As shown on Figure 4, the measured streamflow was higher than the OWRD natural streamflow over the period of reliable gage readings (March through September).

² <http://www.wrcc.dri.edu/cgi-bin/cliMAIN.pl?orband>

³ <telnet://wars.wrd.state.or.us/>

4.0 CLOSURE

Per the permit requirements, streamflow and groundwater levels will be measured and reported for the next four water years to define the 80% exceedance natural streamflow in Whisky Run Creek and groundwater level impacts on senior groundwater users. Please contact us if you have any questions or need additional information.

Sincerely,

GOLDER ASSOCIATES INC.

Michael Klisch, R.G.
Project Hydrogeologist

Andreas Kammereck
Senior Engineer

David Banton, R.G.
Principal Hydrogeologist

MK/AK/DB/se

cc: Phil Friedmann, Recycled Paper Greetings
Dennis Olsen, Bally Bandon Sheep Ranch

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Figure 3 Irrigation Well Water Production Water Year 2004
Figure 4 Whisky Run Creek Streamflow and Bandon Precipitation Water Year 2004

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SALEM, OREGON

TABLES

November 5, 2004

TABLE 1

023-1206.004

Irrigation and Observation Well Information

Well Name	Depth Drilled (feet bgs)	Depth of Completed Well (feet bgs)	Open or Screened Interval (feet bgs)	Distance from Irrigation Well (feet)	Ground Surface Elevation (ft amsl)	Depth to Water (ft bgs)	Groundwater Elevation (ft amsl)	Date
Irrigation Well (Coos 52219)	110	83	66-81	0	123	55.4	67.6	9/23/2004
Northern Piezometer (Coos 52220)	78	35	34.5-35	2,700	119	33.2	85.8	9/23/2004
Irrigation Well Piezometer (Coos 52549)	75	75	60-75	81	124	57.7	66.4	9/23/2004
Tokyo Lane Well (Coos 717)	47	47	27-47	4,500	170	16.9	153.2	9/23/2004

Notes

Elevations for Sheep Ranch irrigation well and piezometers estimated from GIS site map.

Elevations for Toyko Lane well estimated from 7.5 Minute USGS Topographic Quadrangle

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WATER RESOURCES DEPT
SALEM, OREGON

November 5, 2004

TABLE 2

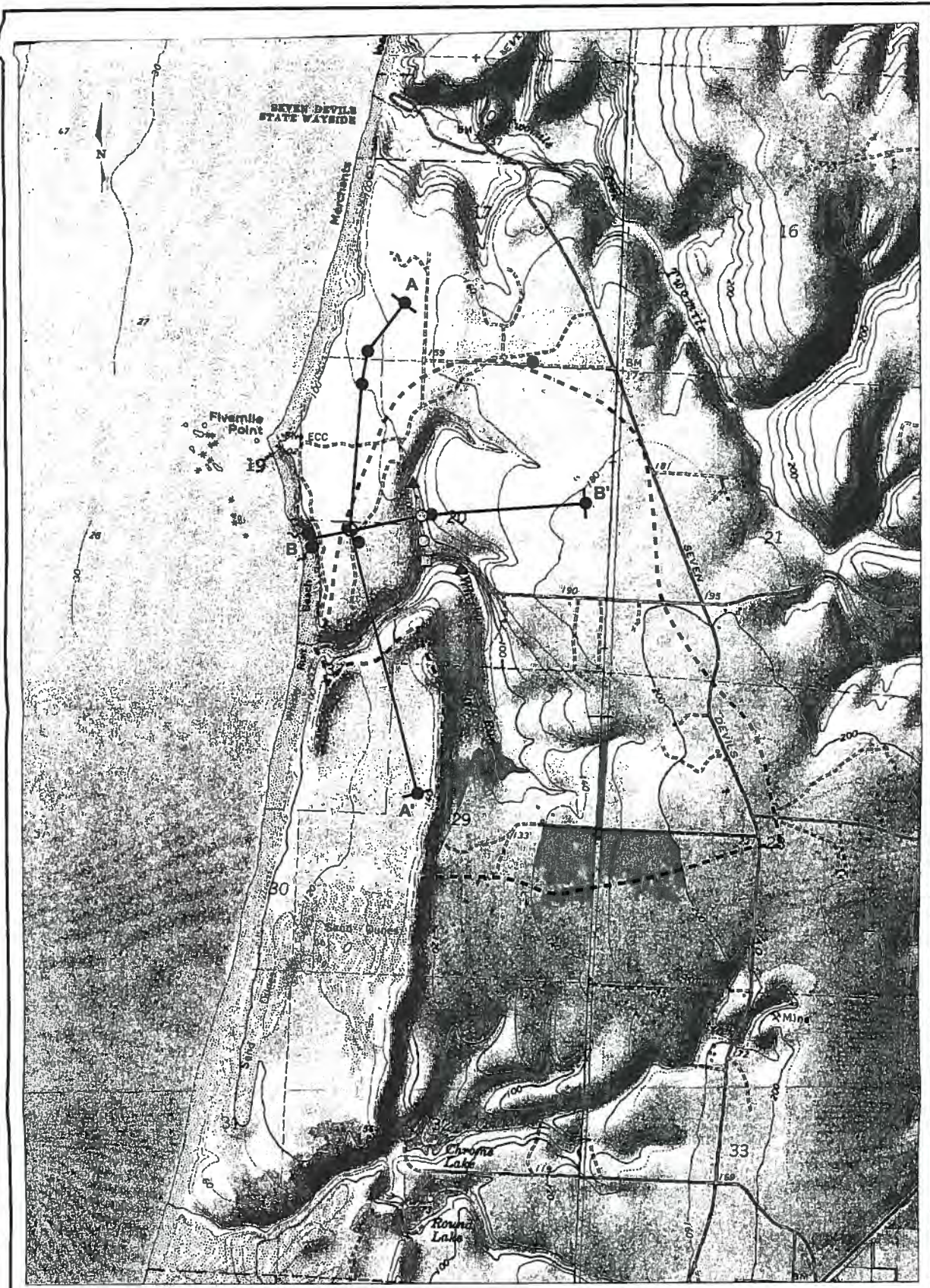
023-1206.004

2004 Pumping Data Bally Bandon Sheep Ranch Well No. 1

Month	Gallons Pumped	Average Pumping Rate (gpm)
October 2003	269,200	12.5
June 2004	414,300	19.2
July 2004	733,500	16.4
August 2004	790,500	17.7
September 2004	443,900	10.3
Total for Year	2,651,400	15.2

FIGURES

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WATER RESOURCES DEPT
SALEM, OREGON



LEGEND

- Watershed Boundary
- Monitored Groundwater Seep
- Stream Gaging Location w/o Mini Piezometer
- Stream Gaging Location w/ Mini Piezometer
- Bucket Flow Measurement Location
- Mini Piezometer Locations
- Pumping Wells
- Private/Domestic Well or Piezometer
- Cross-Section Locations (See Appendix B)

0 1500
 Scale: 1" = 1500 Feet
 Map Projection:
 Oregon State Plane, NAD 83,
 North Zone, Feet
 Source: Regional Ecosystem
 Organization

**Site Map With
 Measurement Locations**
 BALLY BSR/GROUNDWATER SERVICES/OR

Dept: ATB	Revision: 2	Date: Oct. 31, 2002	Figure: 1
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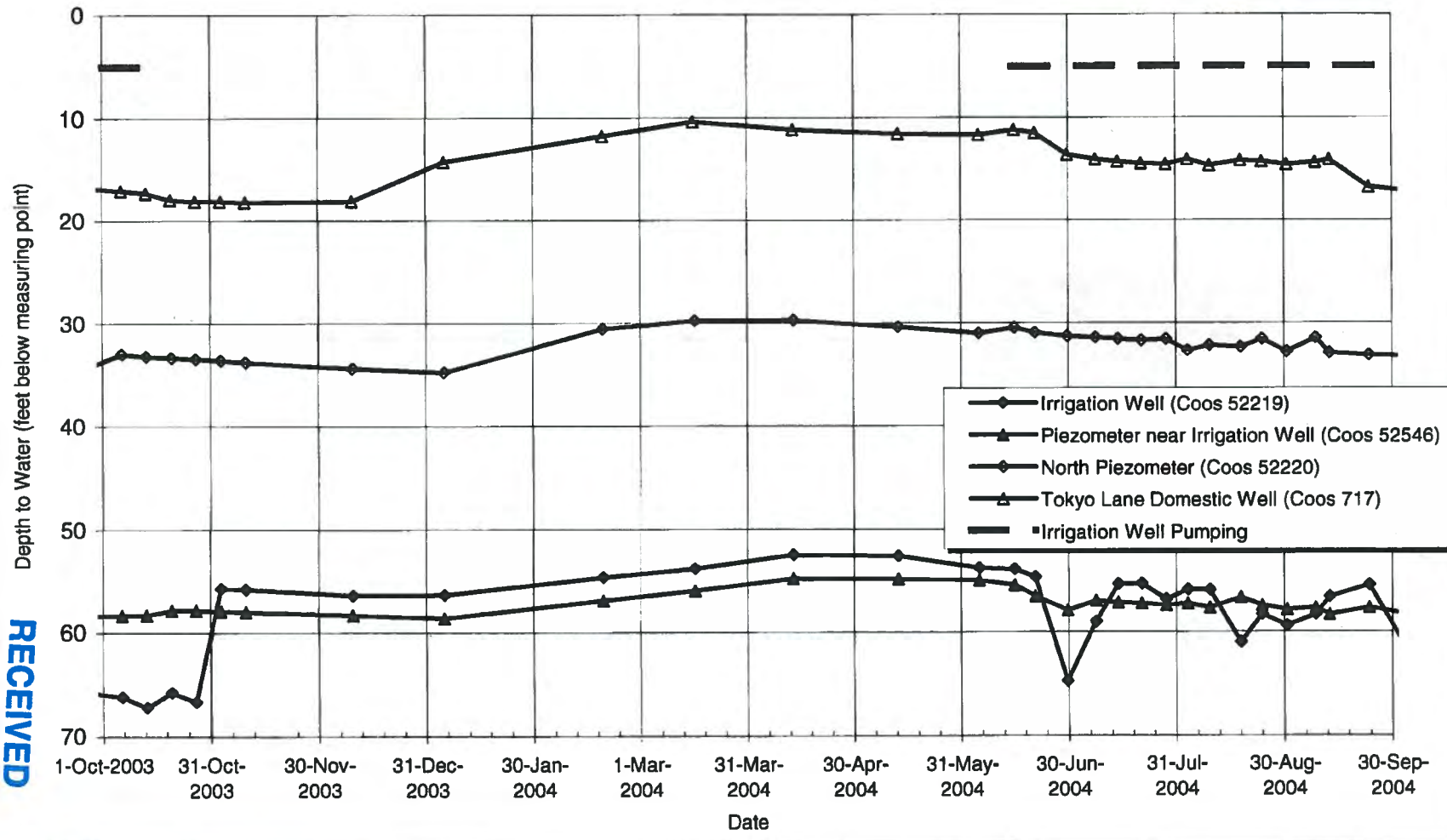


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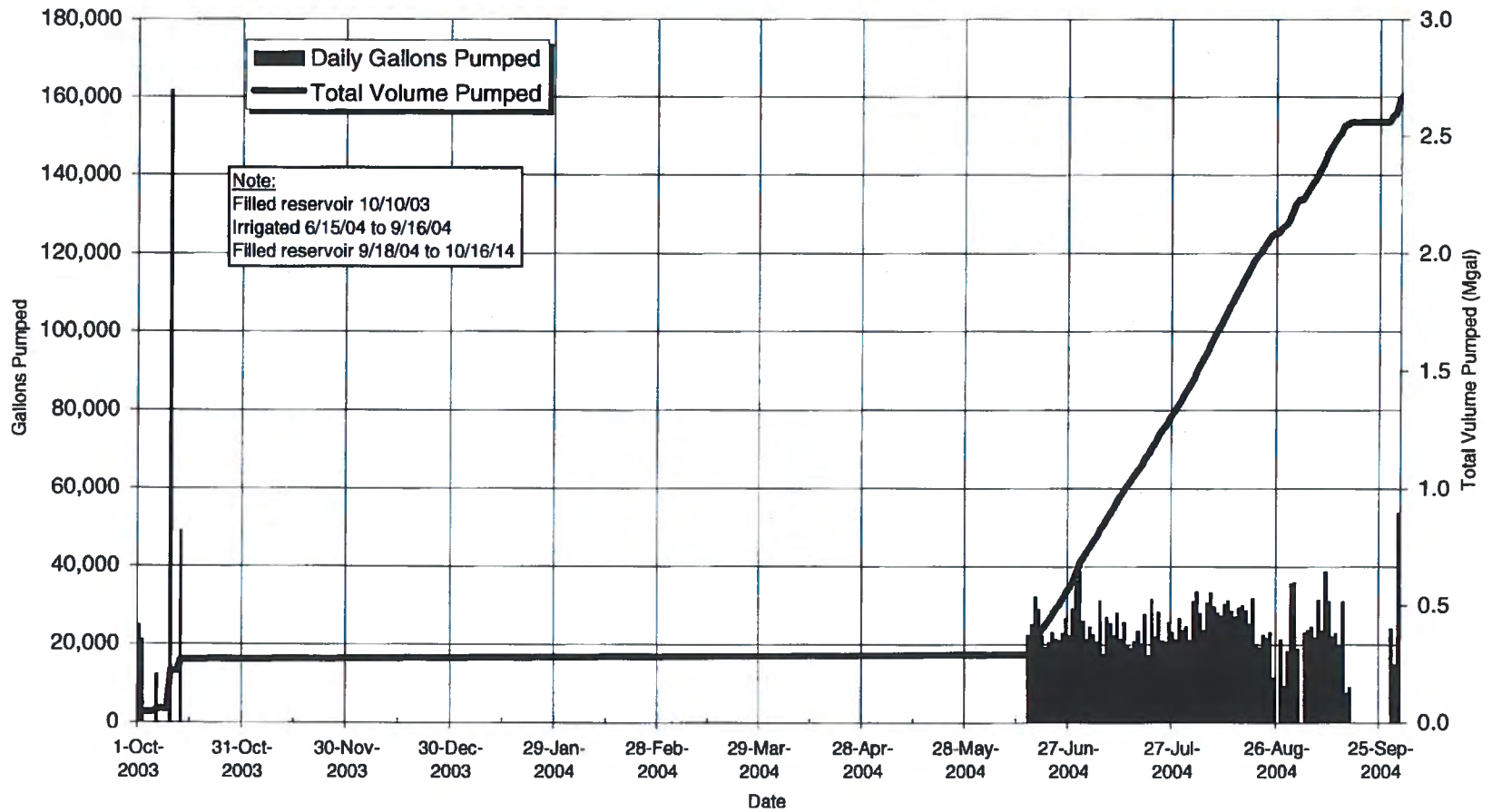
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Bally Bandon Sheep Ranch

TITLE		
Well Hydrographs Water Year 2004		
DRAWN MPK	DATE Nov-04	JOB NO. 023-1206.004
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REVIEWED DB	FILE NO. Hydrograph.xls	FIGURE NO. 2



TITLE

Irrigation Well Production Water Year 2004

Bally Bandon Sheep Ranch

DRAWN MPK

DATE Nov-04

JOB NO. 023-1206.004

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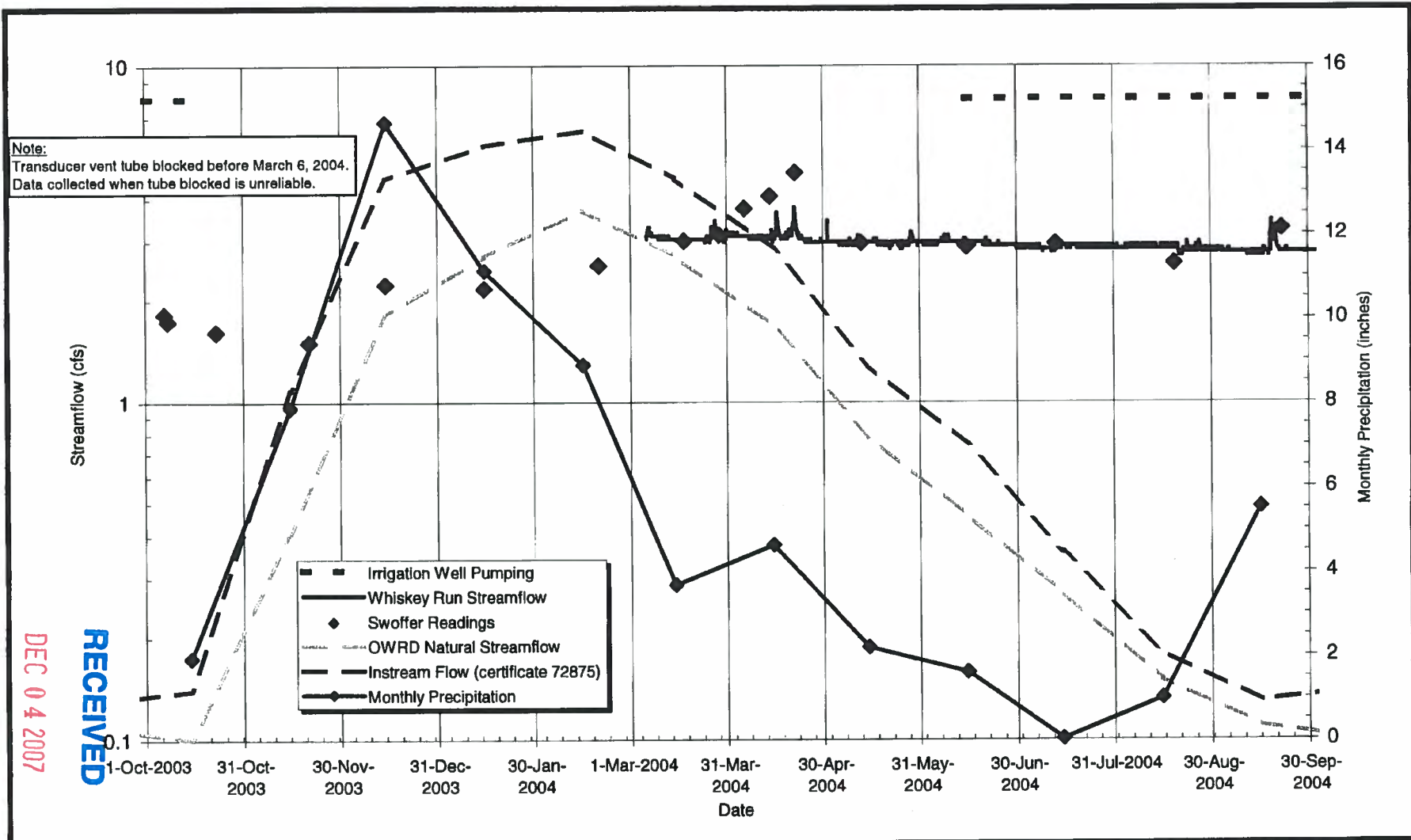
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FIGURE NO. 3

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SALEM, OREGON

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Bally Bandon Sheep Ranch

TITLE

Whiskey Run Creek Streamflow and Bandon Precipitation Water Year 2004

DRAWN MPK

DATE Nov-04

JOB NO. 023-1206.004

CHECKED DB

SCALE na

DWG. NO. na

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FILE NO. Hydrograph.xls

FIGURE NO. 4

Golder Associates Inc.

18300 NE Union Hill Road, Suite 200
Redmond, WA USA 98052-3333
Telephone (425) 883-0777
Fax (425) 882-5498
www.golder.com

COPY



February 13, 2006

Our Ref.: 023-1206.006

Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, OR 97301-1271

Attention: Mr. Douglas Woodcock

RE: ANNUAL MONITORING REPORT FOR WATER YEAR 2005, BALLY BANDON SHEEP RANCH, GROUNDWATER PERMIT G-15437

Dear Doug:

Groundwater permit G-15437 was issued to the Bally Bandon Sheep Ranch (Sheep Ranch) on May 16, 2004. The permit allows the Sheep Ranch to irrigate 95 acres from up to six wells, at a combined maximum pumping rate of 0.45 cfs (202 gallons per minute) from March 1 through October 31. As part of the terms of the settlement agreement for the permit, installation of a continuous record streamflow gaging station on Whisky Run Creek, collection of irrigation well pumping quantities, and collection of groundwater level data from the irrigation well(s) and two or more observation wells were required. Collection of the data is described in the monitoring plan submitted to OWRD on September 3, 2003¹. Groundwater levels, pumping quantities, and streamflow data are collected by Sheep Ranch personnel. At this time, one irrigation well has been developed and is being used.

This letter describes groundwater and surface water data collected from October 1, 2004 through September 30, 2005. Data collected over the previous year was reported in the Water Year 2004 report².

1.0 GROUNDWATER LEVELS

Groundwater levels were measured manually in the irrigation well and observation wells using an electric water level tape. Groundwater levels were collected on a monthly to weekly basis in the following wells:

- Bally Bandon Sheep Ranch irrigation well (Coos 52219);
- Bally Bandon Sheep Ranch northern piezometer (Coos 52220);
- Bally Bandon Sheep Ranch piezometer adjacent to irrigation well (Coos 52549); and
- Tokyo Lane well (Coos 717).

¹ Golder Associates Inc., 2003, Monitoring Plan, Bally Bandon Sheep Ranch, Water Right Permit G-15437, September 3, 2003.

² Golder Associates Inc., 2004, Annual Monitoring Report for Water Year 2004, Bally Bandon Sheep Ranch, Groundwater Permit G-15437, November 17, 2004.

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The well locations are shown on Figure 1. Groundwater levels were measured weekly when the irrigation well was being used, and monthly during the remainder of the year. Well construction information for these wells is summarized on Table 1.

A 2005 Water Year hydrograph for these wells is shown on Figure 2. The annual water level fluctuation in the non-pumping wells was between about three and five feet. Based on the data collected to date, pumping from the irrigation well has not affected the water level in the offsite well (Tokyo Lane Well) or in the northern piezometer. The groundwater level data does not indicate any long-term water level decline.

2.0 GROUNDWATER PUMPING

The irrigation well was used in October 2004 and from May 2005 through September 2005. In Water Year 2005, 4.18 million gallons (12.8 acre-feet) was pumped from the irrigation well. The monthly pumping totals are summarized on Table 1. Monthly average pumping rates ranged between about 14 and 23 gallons per minute (0.031 to 0.051 cfs). Daily pumping and cumulative pumping for water year 2005 are shown on Figure 3.

3.0 WHISKY RUN CREEK STREAMFLOW

Streamflow data on Whisky Run Creek are measured using a Swoffer current meter. A continuous record gaging station was established using a pressure transducer to measure stream stage height. A rating curve was developed based on the Swoffer current meter readings and the transducer stage to estimate streamflows. Precipitation in Water Year 2005 was about 52.3 inches, about seven inches less than the long-term annual average precipitation of about 59.3 inches³.

The transducer was installed in August 2003. Evaluation of the data collected between August 2003 and the beginning of March 2004 indicates the stage data were unreliable because of a number of factors, including beaver activity at the gage location, changes in channel depth at the gage from gold panning activity, and a blocked vent tube in the transducer assembly, causing erratic readings that could not be corrected. Therefore, reliable continuous readings are not available until the beginning of March 2004. Streamflow measurements were not affected by outside influences in Water Year 2005. A period of missing data is present in Water Year 2005, between October 11 and November 17, attributable to errors in downloading the datalogger.

The streamflow data are shown on Figure 4, along with monthly precipitation data collected at Bandon. As shown on Figure 4, streamflow tends to increase in Whisky Run Creek after precipitation events, but otherwise remains relatively constant. Over the course of Water Year 2005, streamflows ranged from to 4.1 cfs in June 2005 to 2.4 cfs in September 2005. The constant streamflow indicates that flows in Whisky Run Creek are sustained by relatively constant groundwater discharge over the year, rather than surface runoff.

OWRD established minimum instream flows (MISF) on Whisky Run Creek (certificate 72875). The instream flows are shown on Figure 4 (red dashed line). As shown on Figure 4, the gaged flows exceed the MISF after about April 15, 2004. Withdrawals from the irrigation well started on about May 23, 2005, when gaged streamflow was about 3.1 cfs, above the MISF for May of 1.28 cfs. The flow in Whisky Run Creek was always above the MISF when the irrigation well was pumped. Also

³ <http://www.wrcc.dri.edu/cgi-bin/cliMAIN.pl?orband>

TABLES

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WATER RESOURCES DEPT
SALEM, OREGON

February 13, 2006

TABLE 1

023-1206.006

Irrigation and Observation Well Information

Well Name	Depth Drilled (feet bgs)	Depth of Completed Well (feet bgs)	Open or Screened Interval (feet bgs)	Distance from Irrigation Well (feet)	Ground Surface Elevation (ft amsl)	Depth to Water (ft bgs)	Groundwater Elevation (ft amsl)	Date
Irrigation Well (Coos 52219)	110	83	66-81	0	123	57.8	65.3	9/27/2005
Northern Piezometer (Coos 52220)	78	35	34.5-35	2,700	119	33.5	85.5	9/27/2005
Irrigation Well Piezometer (Coos 52549)	75	75	60-75	81	124	59.0	65.0	9/27/2005
Tokyo Lane Well (Coos 717)	47	47	27-47	4,500	170	15.5	154.5	9/27/2005

Notes:

Elevations for Sheep Ranch irrigation well and piezometers estimated from GIS site map.

Elevations for Toyko Lane well estimated from 7.5 Minute USGS Topographic Quadrangle

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SALEM, OREGON**

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February 13, 2006

TABLE 2

023-1206.004

Water Year 2005 Pumping Data Bally Bandon Sheep Ranch Well No. 1

Month	Gallons Pumped	Average Pumping Rate (gpm)
October 2004	350,300	14.3
May 2005	230,700	17.8
June 2005	693,150	16.0
July 2005	986,500	22.1
August 2005	1,006,700	22.6
September 2005	707,660	16.4
October 2005	203,400	17.7
Total for Water Year	4,178,410	18.6

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FIGURES

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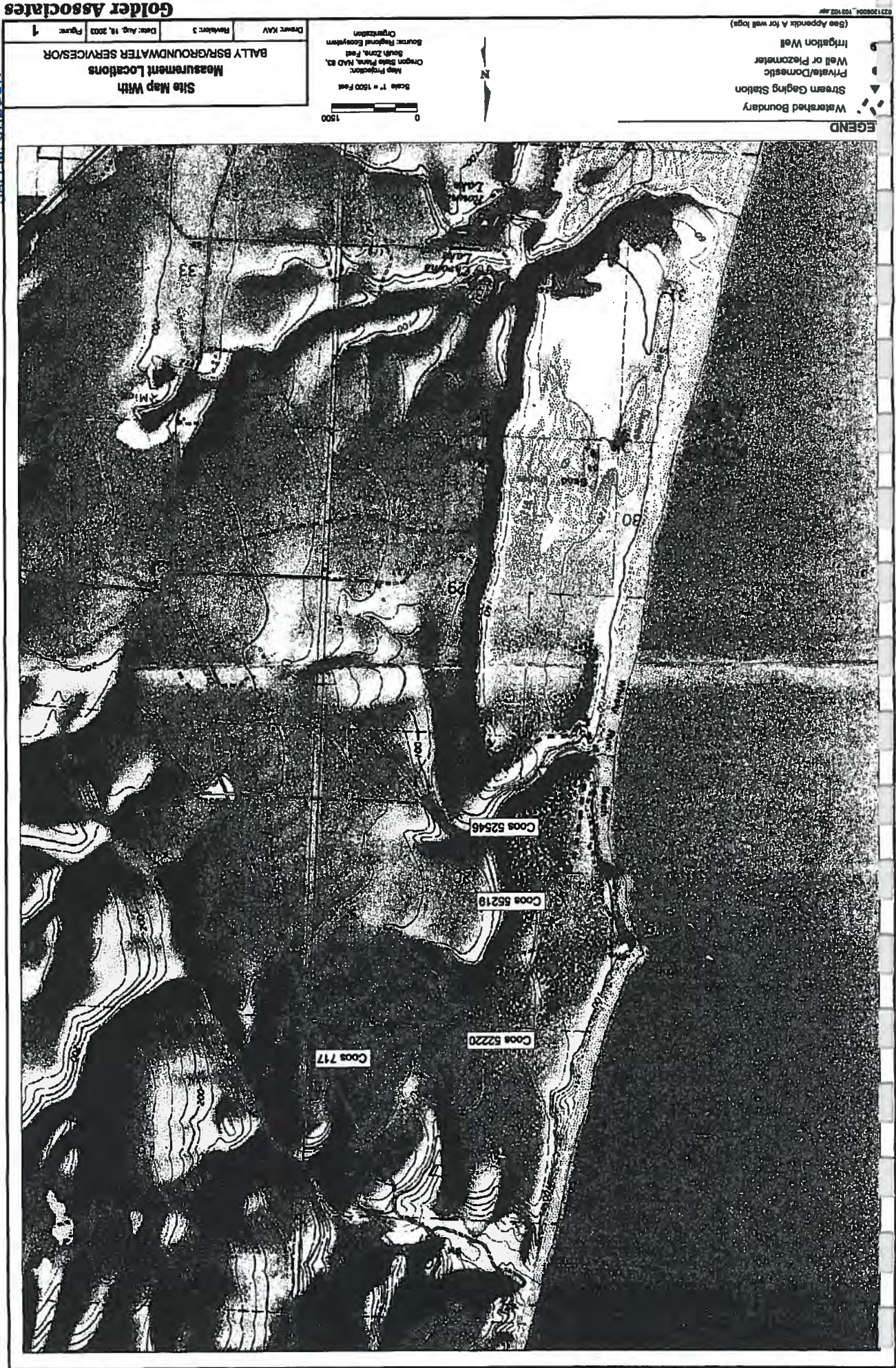
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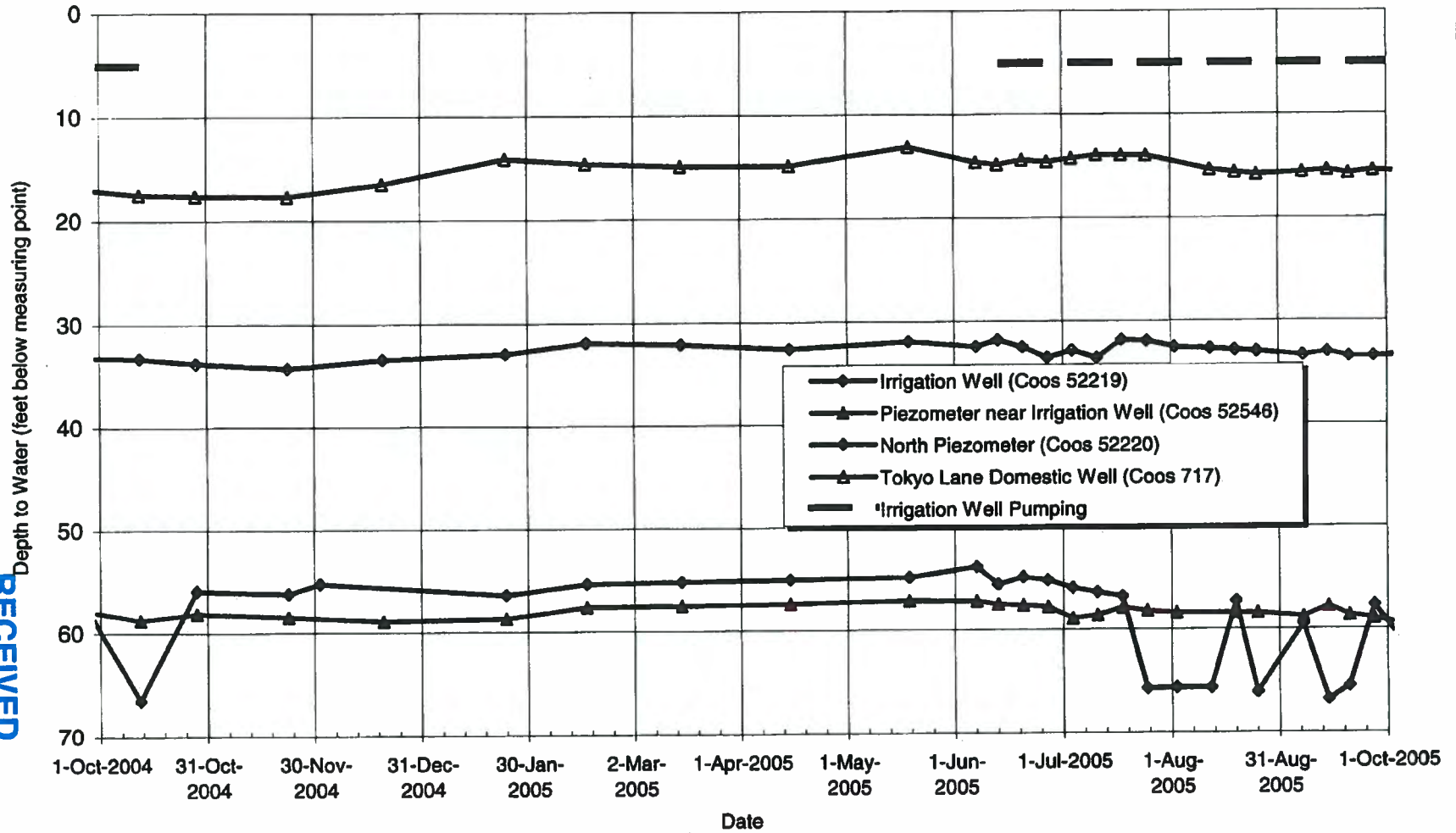
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Bally Bandon Sheep Ranch

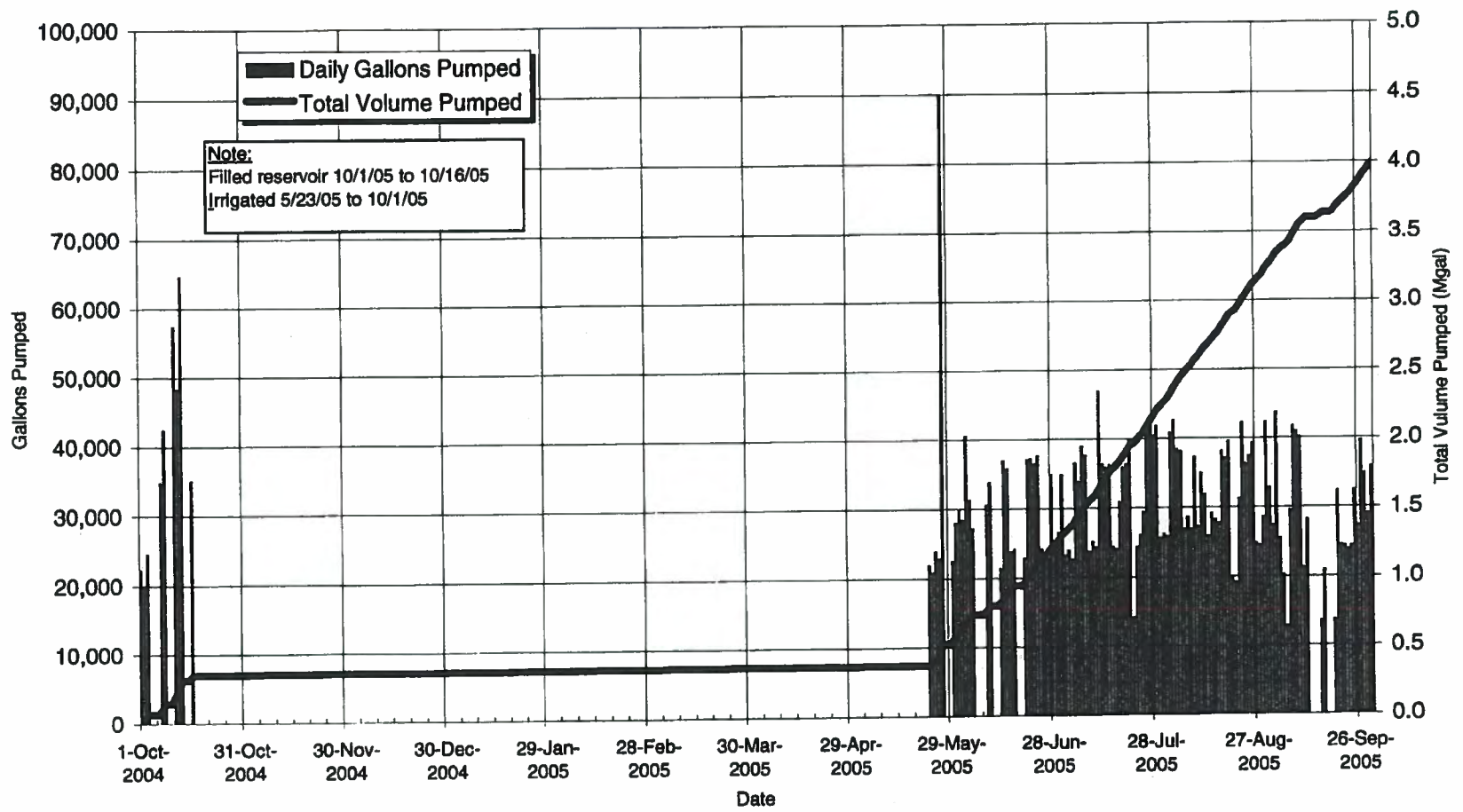
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REVIEWED DB

DATE Feb-06
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JOB NO. 023-1206.004
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FIGURE NO. 2



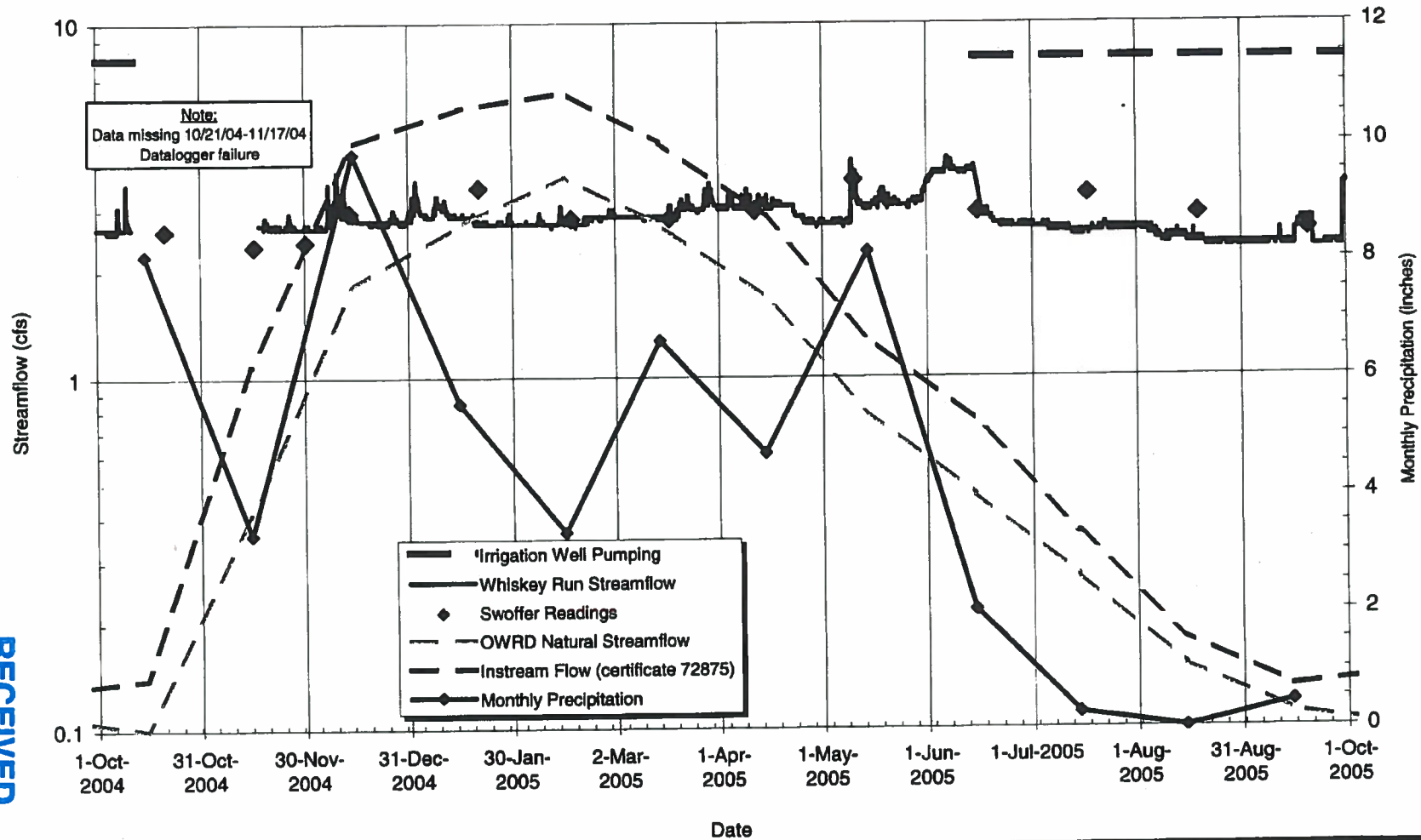
Bally Bandon Sheep Ranch

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REVIEWED DB	FILE NO. Hydrograph 2005_jp.xls	FIGURE NO. 3	

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Bally Bandon Sheep Ranch

TITLE		
Whiskey Run Creek Streamflow and Bandon Precipitation Water Year 2005		
DRAWN JP	DATE Feb-06	JOB NO. 023-1206.004
CHECKED MPK	SCALE na	DWG. NO. na
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Golder Associates Inc.
18300 NE Union Hill Road, Suite 200
Redmond, Washington 98052
Telephone: (425) 883 0777
Fax: (425) 882 5498

COPY



November 27, 2006

Our Ref.: 023-1206.006

Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, OR 97301-1271

Attention: Douglas Woodcock

RE: ANNUAL MONITORING REPORT FOR WATER YEAR 2006, BALLY BANDON SHEEP RANCH, GROUNDWATER PERMIT G-15437

Dear Doug:

Groundwater permit G-15437 was issued to the Bally Bandon Sheep Ranch (Sheep Ranch) on May 16, 2004. The permit allows the Sheep Ranch to irrigate 95 acres from up to six wells, at a combined maximum pumping rate of 0.45 cfs (202 gallons per minute) from March 1 through October 31. As part of the terms of the settlement agreement for the permit, installation of a continuous record streamflow gaging station on Whisky Run Creek, collection of irrigation well pumping quantities, and collection of groundwater level data from the irrigation well(s) and two or more observation wells were required. Collection of the data is described in the monitoring plan submitted to OWRD on September 3, 2003¹. Groundwater levels, pumping quantities, and streamflow data are collected by Sheep Ranch personnel. At this time, one irrigation well has been developed and is being used.

This letter describes groundwater and surface water data collected from October 1, 2005 through September 30, 2006. Data collected over the previous years was reported in the Water Year 2004 and Water Year 2005 reports^{2,3}.

1.0 GROUNDWATER LEVELS

Groundwater levels were measured manually in the irrigation well and observation wells using an electric water level tape. Groundwater levels were collected on a monthly to weekly basis in the following wells:

¹ Golder Associates Inc., 2003, Monitoring Plan, Bally Bandon Sheep Ranch, Water Right Permit G-15437, September 3, 2003.

² Golder Associates Inc., 2004, Annual Monitoring Report for Water Year 2004, Bally Bandon Sheep Ranch, Groundwater Permit G-15437, November 17, 2004.

³ Golder Associates Inc., 2005, Annual Monitoring Report for Water Year 2005, Bally Bandon Sheep Ranch, Groundwater Permit G-15437, November 23, 2005.

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WATER RESOURCES DEPT
SALEM, OREGON

- Bally Bandon Sheep Ranch irrigation well (Coos 52219);
- Bally Bandon Sheep Ranch northern piezometer (Coos 52220);
- Bally Bandon Sheep Ranch piezometer adjacent to irrigation well (Coos 52549); and
- Tokyo Lane well (Coos 717).

In addition to these wells, the Sheep Ranch installed four piezometers in exploratory borings completed at the golf course in September 2006 (P-1 through P-4, inclusive). The well and piezometer locations are shown on Figure 1, and the well logs are included in Attachment A. Groundwater levels were measured weekly when the irrigation well was being used, and monthly during the remainder of the year. Well construction information for these wells is summarized on Table 1.

A 2006 Water Year hydrograph for these wells is shown on Figure 2. The annual water level fluctuation in the non-pumping wells was between about three and five feet. Based on the data collected to date, pumping from the irrigation well has not affected the water level in the offsite well (Tokyo Lane Well) or in the northern piezometer (Coos 52220). The groundwater level data does not indicate any long-term water level decline.

2.0 GROUNDWATER PUMPING

The irrigation well was used in October 2005 and from May 2006 through September 2006. In Water Year 2006, 4.95 million gallons (15.18 acre-feet) was pumped from the irrigation well. The monthly pumping totals are summarized on Table 2. Monthly average pumping rates ranged between about 17 and 27 gallons per minute (0.038 to 0.060 cfs). Monthly pumping for water year 2006 is shown on Figure 3. In comparison, pumping in water years 2004 and 2005 was 8.1 acre-feet and 12.8 acre-feet, respectively (Table 2).

3.0 WHISKY RUN CREEK STREAMFLOW

Streamflow data on Whisky Run Creek are measured using a Swiffer current meter. A continuous record gaging station was established using a pressure transducer to measure stream stage height. A rating curve was developed based on the Swiffer current meter readings and the transducer stage to estimate streamflows. Precipitation in Water Year 2006 was about 69.9 inches, about ten inches more than the long-term annual average precipitation of about 59.3 inches⁴.

Two periods of missing data are present in Water Year 2006. The first was between April 19 and June 13, and the second was between July 17 and September 30 (Figure 4). The first period of missing data is a result of failure of the pressure transducer. The pressure transducer was replaced on June 13, 2006. The second period of missing data is the result of errors in downloading the new datalogger, which was unfamiliar to Sheep Ranch personnel. Manual streamflow measurements collected between July 17 and September 30 were consistent with streamflow measurements collected in 2004 and 2005 over the same period. The new pressure transducer and datalogger were successfully restarted on October 31, 2006.

The streamflow data are shown on Figure 4, along with monthly precipitation data collected at Bandon. As shown on Figure 4, streamflow tends to increase in Whisky Run Creek after

⁴ <http://www.wrcc.dri.edu/cgi-bin/cliMAIN.pl?orband>

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precipitation events, but otherwise remains relatively constant. Over the course of Water Year 2006, streamflows ranged from over 10 cfs in January 2006 to 2.1 cfs in October 2005. The observed flows in January 2006 were the highest observed since gaging started in 2003. About 22 inches of precipitation were recorded in January 2006. The constant streamflow over most of the year indicates that flows in Whisky Run Creek are sustained by relatively constant groundwater discharge over the year, rather than surface runoff.

OWRD established minimum instream flows (MISF) on Whisky Run Creek (certificate 72875). The instream flows are shown on Figure 4 (red dashed line). As shown on Figure 4, the gaged flows exceed the MISF after about March 15, 2006. Withdrawals from the irrigation well started in May 2006, when gaged streamflow was likely about 3 to 4 cfs (estimated because of equipment failure), compared to the MISF for May of 1.28 cfs. The flow in Whisky Run Creek was always above the MISF when the irrigation well was pumped. Also shown on Figure 4 is the OWRD estimated natural streamflow for Whisky Run Creek based on 80% exceedance⁵ (blue dashed line). The MISF exceeds the estimated natural streamflow over the entire year. As shown on Figure 4, the measured streamflow was higher than the OWRD natural streamflow over the entire irrigation season (May through September).

4.0 CLOSURE

Per the permit requirements, streamflow and groundwater levels will be measured and reported for the next two water years to define the 80% exceedance natural streamflow in Whisky Run Creek and groundwater level impacts on senior groundwater users. Please contact us if you have any questions or need additional information.

Sincerely,

GOLDER ASSOCIATES INC.

Michael Klisch, R.G.
Senior Project Hydrogeologist

David Banton, R.G.
Principal Hydrogeologist

List of Tables

Table 1	Irrigation and Observation Well Information
Table 2	Water Year 2005 Pumping Data Bally Bandon Sheep Ranch Well No. 1

⁵ telnet://wars.wrd.state.or.us/

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List of Figures

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- Figure 3 Irrigation Well Water Production Water Year 2004
- Figure 4 Whisky Run Creek Streamflow and Bandon Precipitation Water Year 2004

List of Attachments

Attachment A Well Logs for New Piezometers

cc: Phil Friedmann, Recycled Paper Greetings
Dennis Olsen, Bally Bandon Sheep Ranch

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**WATER RESOURCES DEPT
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Irrigation and Observation Well Information

Well Name	Depth Drilled (feet bgs)	Depth of Completed Well (feet bgs)	Open or Screened Interval (feet bgs)	Distance from Irrigation Well (feet)	Ground Surface Elevation (ft amsl)	Depth to Water (ft bgs)	Groundwater Elevation (ft amsl)	Date
Irrigation Well (Coos 52219)	110	83	66-81	0	123	50.4	72.6	9/13/2006
Northern Piezometer (Coos 52220)	78	35	34.5-35	2,700	119	30.5	88.5	9/18/2006
Irrigation Well Piezometer (Coos 52549)	75	75	60-75	81	124	59.6	64.4	9/13/2006
Tokyo Lane Well (Coos 717)	47	47	27-47	4,500	170	16.0	154.0	9/18/2006
Piezometer P-1 (Coos 53702)	65	65	36-46	3,300	141	38.96	102.0	9/18/2006
Piezometer P-2 (Coos 53699)	55	55	40-45	4,400	161	18.30	142.7	9/22/2006
Piezometer P-3 (Coos 53700)	65	53	43-53	3,700	157	33.3	123.7	9/22/2006
Piezometer P-4 (Coos 53703)	73	72.6	54-64	1,100	91	53.0	38.0	9/22/2006

Notes

Elevations for Sheep Ranch irrigation well and piezometers estimated from GIS site map.

Elevations for Tokyo Lane well and piezometers estimated from 7.5 Minute USGS Topographic Quadrangle

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SALEM, OREGON

Water Year 2006 Pumping Data Bally Bandon Sheep Ranch Well No. 1

Month	Gallons Pumped	Acre-Feet	Average Pumping Rate (gpm)
October 2006	203,400	0.62	17.7
May 2006	880,100	2.70	20.4
June 2006	827,565	2.54	18.5
July 2006	1,200,100	3.68	26.9
August 2006	1,117,840	3.43	25.0
September 2006	716,200	2.20	16.6
Total for Water Year 2006	4,945,205	15.18	22.0
Total for Water Year 2005	4,178,410	12.82	18.60
Total for Water Year 2004	2,651,400	8.14	15.20

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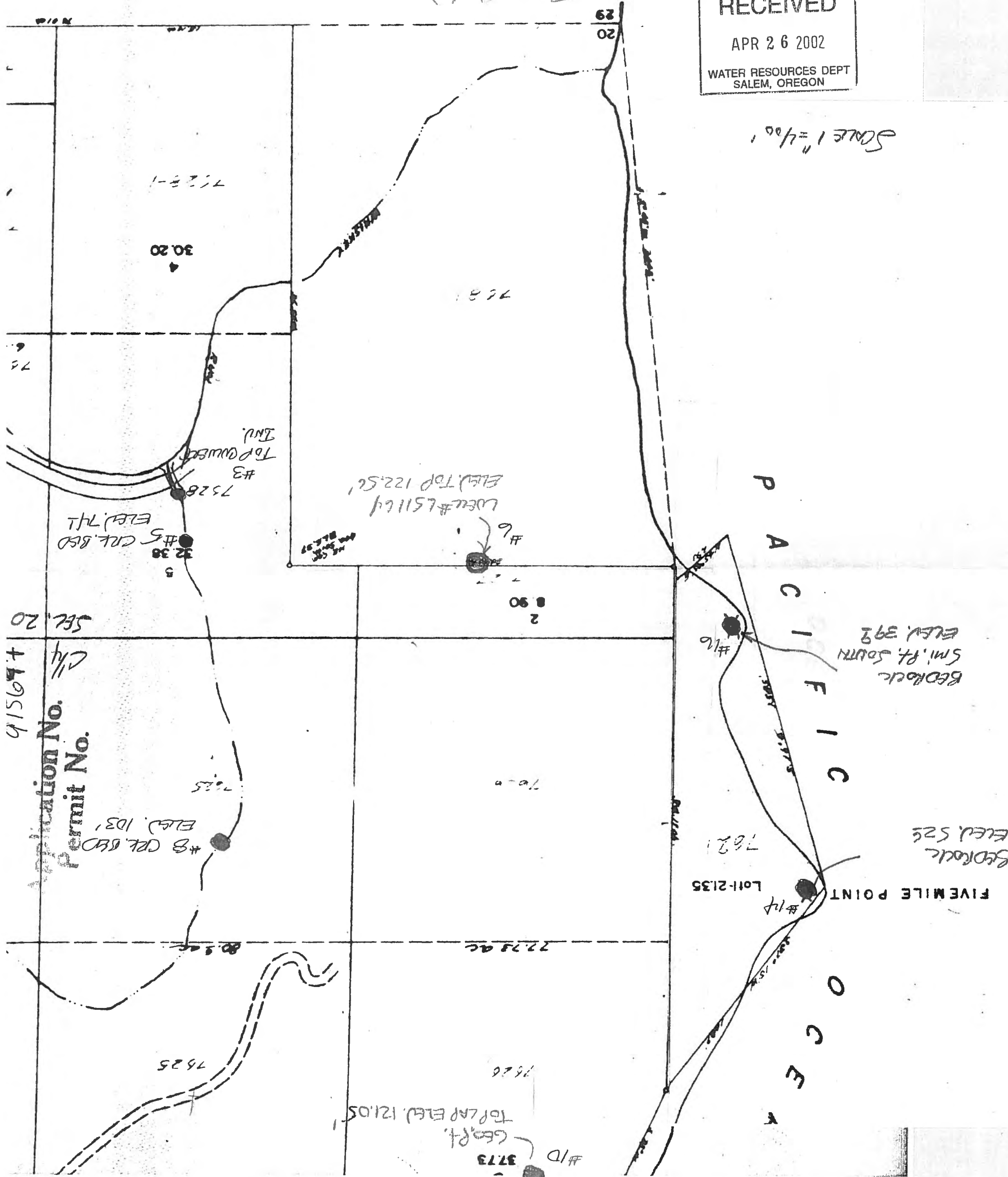
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SALEM, OREGON

SCALE 1" = 400'

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Permit No. C/4

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TOP QUARRY
INL
7328

#5
CRL. BED
ELEV. 741
7328

WELL #651164
ELEV. TOP 122.56'

#6
ELEV. 8.90

#2
ELEV. 70.0

#8
CRL. BED
ELEV. 103'

7625

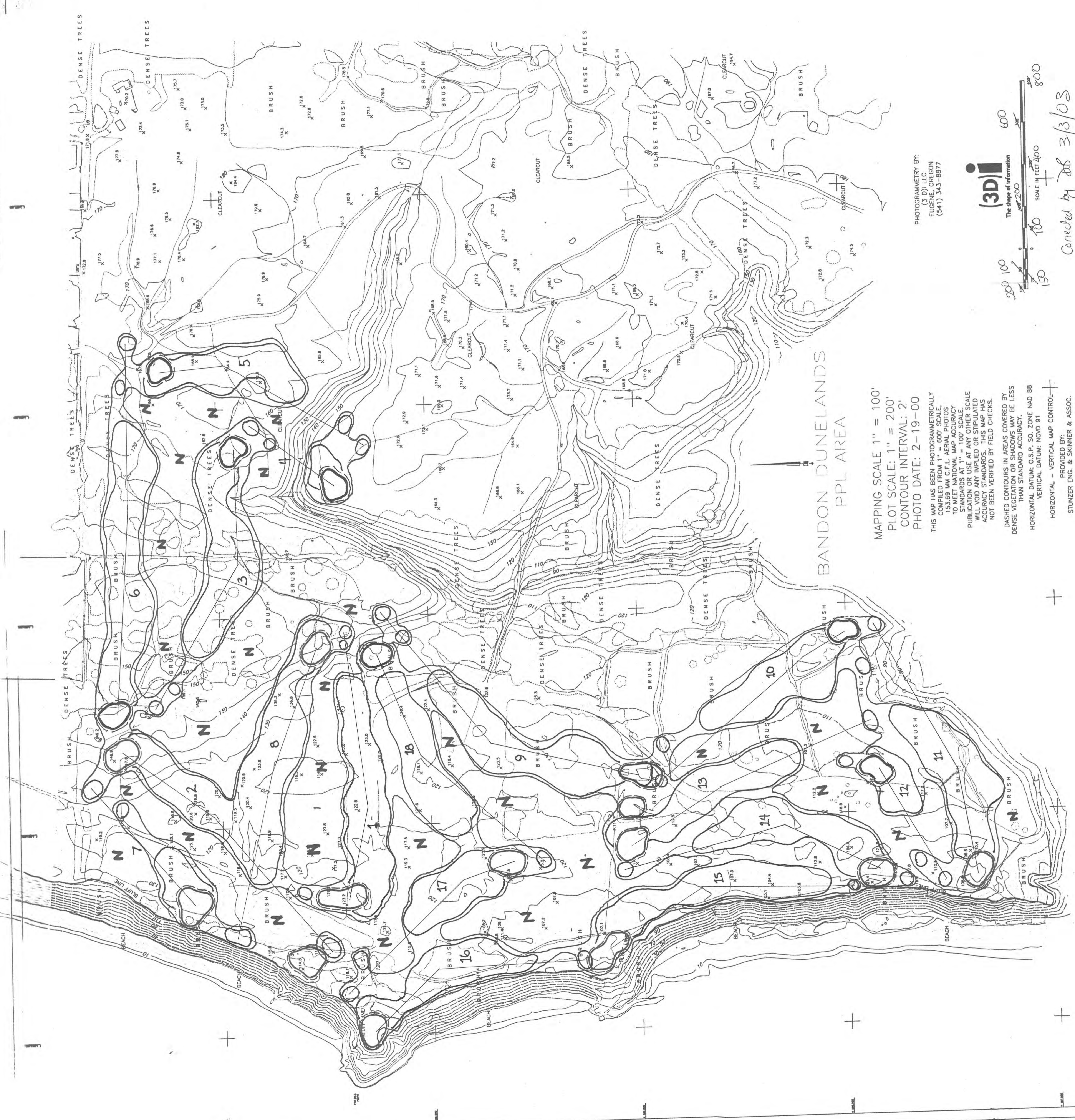
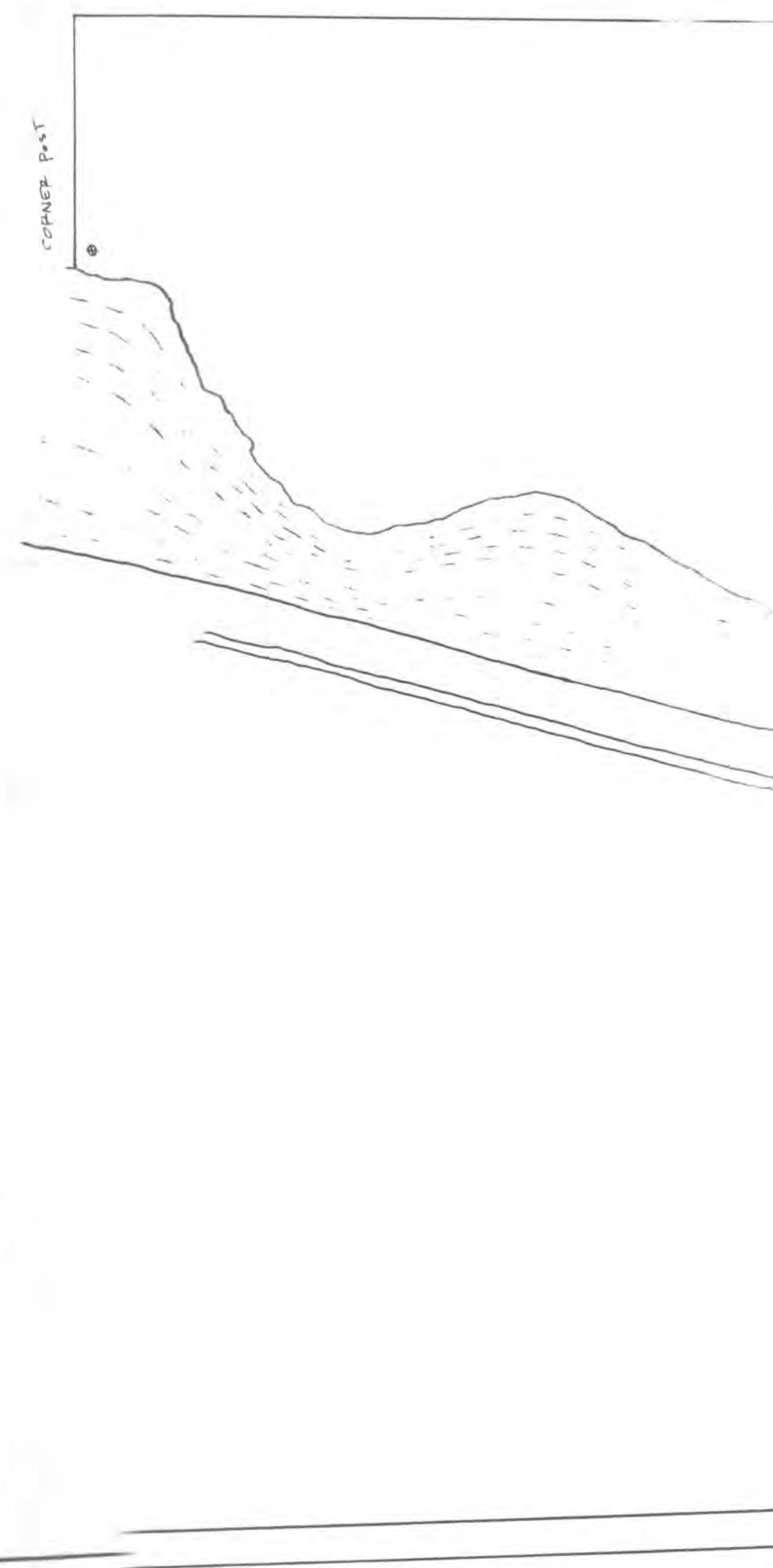
#10
Cape Pt.
TOP LAP ELEV. 121.05'

#10
3773

#16
BEDROCK
5 MI. N. SOUTH
ELEV. 392

#14
FIVE MILE POINT
BEDROCK
ELEV. 525
L011-2135
7621

OCEAN



BANDON DUNELANDS
PPL AREA

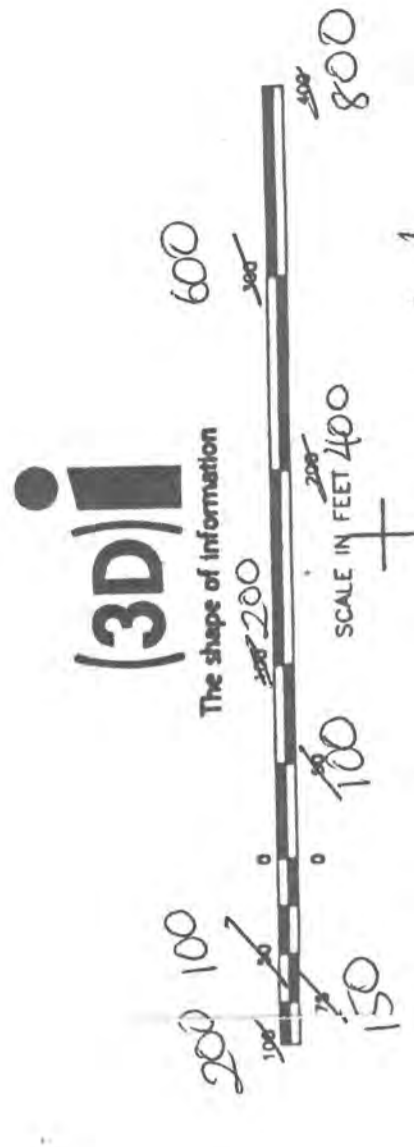
MAPPING SCALE 1" = 100'
 PLOT SCALE: 1" = 200'
 CONTOUR INTERVAL: 2'
 PHOTO DATE: 2-19-00

PHOTOGRAMMETRY BY:
 (3D) LLC
 EUGENE, OREGON
 (541) 343-8877

THIS MAP HAS BEEN PHOTOGRAMMETRICALLY
 COMPILED FROM 1" = 600' SCALE,
 153.69 MM C.F.L. AERIAL PHOTOS
 TO MEET NATIONAL MAP ACCURACY
 STANDARDS AT 1" = 100' SCALE.
 USUAL PUBLICATION PRACTICES FOR
 PUBLICATION MAY HAVE BEEN USED OR STIPULATED
 ACCURACY STANDARDS. THIS MAP HAS
 NOT BEEN VERIFIED BY FIELD CHECKS.

DASHED CONTOURS IN AREAS COVERED BY
 DENSE VEGETATION OR SHADOWS MAY BE LESS
 THAN STANDARD ACCURACY.
 HORIZONTAL DATUM: O.S.P. SO. ZONE NAD 88
 VERTICAL DATUM: NGVD 81

HORIZONTAL - VERTICAL MAP CONTROL
 PROVIDED BY:
 STUNZER ENG. & SKINNER & ASSOC.



Corrected by *ds* 3/3/03

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 SALEM, OREGON



Oregon

Theodore R. Kulongoski, Governor

Water Resources Department

Commerce Building
158 12th Street NE
Salem, OR 97301-4172
503-378-3739
FAX 503-378-8130

May 5, 2003

Phil Friedmann
Bally Bandon Sheep Ranch
PO Box 1756
Bandon, OR 97411

Re: Application G-15697 settlement

Dear Mr. Friedmann:

Please find enclosed a revised settlement agreement and draft permit to resolve your protest to the Proposed Final Order the Oregon Water Resources Department ("Department") issued for Application G-15697. I have made the changes requested by David Banton.

If you are satisfied with the settlement agreement, please sign it and return it to me. The Department will then issue you a permit consistent with the draft permit and settlement agreement.

If you have any questions, please contact me. My telephone number is (503) 378-8455, extension 236.

Sincerely,

Kimberly Grigsby
Agency Representative

enclosure

c: David Banton

BEFORE THE OREGON WATER RESOURCES DEPARTMENT

In the Matter of Water Right Application)
G-15697 in the Name of Bally Bandon) SETTLEMENT
Sheep Ranch and Phil Friedmann,) AGREEMENT
 Applicant and Protestant)

The Oregon Water Resources Department (“OWRD”) and Bally Bandon Sheep Ranch/Phil Friedmann (“Applicant”) do hereby stipulate and agree as follows:

Background

- I. On February 4, 2002, Applicant submitted an application to OWRD for 0.44 cubic feet per second (“cfs”) of water from two wells in the Whisky Run Creek Basin, for irrigation of 359.2 acres in Coos County.
- II. On November 12, 2002, OWRD issued a Proposed Final Order (“PFO”) recommending denial of application G-15697. The PFO stated that the proposed groundwater use would have the potential for substantial interference with Whisky Run Creek and that groundwater would not be available in the amounts requested without injury to prior rights and/or within the capacity of the resource. The PFO also found that water was not available at any time of the year.
- III. On December 20, 2002, Applicant submitted a timely protest to the PFO for application G-15697 challenging OWRD’s water availability analysis for Whiskey Run Creek and proposing OWRD issue a permit for the application with a condition requiring a monitoring plan.
- IV. On November 18, 2002, Applicant provided OWRD with a “Report on Pumping Test Bally Bandon Sheep Ranch Irrigation Well” prepared by Golder Associates Inc. After reviewing the report, OWRD concluded that the water availability model significantly underestimates stream flows in Whiskey Run Creek in late summer and early fall and that such flows probably exceed 1.5 cfs during this period at least 80 percent of the time, however, stream flow measurements were needed to verify this conclusion. Consequently, OWRD concluded that if stream flows in summer exceed 1.5 cfs at least 80 percent of the time, then water is available for appropriation for the proposed use as well as the instream water right.
- V. On March 3, 2003, Golder Associates Inc. sent a letter to OWRD on behalf of Applicant, requesting amendment of Application G-15697. The letter requested reduction of the area to be irrigated from 359.2 acres to 95 acres and the addition of four additional points of appropriation under this right to include the four wells identified in Application G-15920. The additional wells appropriate water from the same aquifer as those wells initially included in Application G-15697. Finally, the letter clarified the annual quantity of water requested and stated that

the instantaneous rate of appropriation from all six wells combined would remain at 200 gpm. OWRD also received Applicant's map locating all six wells.

- VI. On March 18, 2003, OWRD received Applicant's map indicating the total acreage to be irrigated under the proposed use to be 95.0 acres.
- VII. OWRD and Applicant agree that the issues raised in Applicant's protest can be resolved solely on the following terms.

Terms of the Agreement

1. The parties of this Settlement Agreement waive the opportunity to file exceptions to this Final Order Incorporating Settlement Agreement and any right to judicial review of this agreement and final order.
2. In signing this Settlement Agreement, Applicant withdraws its protest against the PFO for application G-15967 and withdraws its request for a contested case hearing.
3. In signing this Settlement Agreement, Applicant withdraws Application G-15920.
4. The Department shall issue a permit consistent with the attached draft permit and including the following conditions:
 - a. Applicant is to pay for the installation and operation of a continuous record gaging station at a suitable location near the mouth of Whiskey Run Creek. The gaging station is to be run for no less than five years, and the data collected to the USGS standard. The record from this gaging station will be used to define the 80-percent exceedance natural streamflow for Whiskey Run Creek. If the Department determines at the end of five years that streamflow is insufficient to meet the demands of the instream water right and the proposed use, the gaging station will be continued in operation at the applicant's expense for the purpose of regulating the use of water in Whiskey Run Creek according to the prior appropriation doctrine. If the Department determines at the end of five years that the streamflow in Whiskey Run Creek is sufficient to meet the demands of the instream water right and the proposed use, the applicant may discontinue operation of the gaging station.
 - b. Prior to use of water under this permit, the permittee shall obtain OWRD approval for a plan to monitor and report the impacts of this use on water levels within the aquifer utilized under this permit. The plan shall include locating two or more dedicated observation wells between the permitted wells and offsite wells to address water level impacts on senior ground water users.

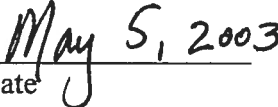
5. The parties agree to entry of the Final Order Incorporating Settlement Agreement and issuance of a permit consistent with the attached draft permit.

Phil Friedmann
Bally Bandon Sheep Ranch

Date



On Behalf of the Oregon Water Resources
Department



Date

DRAFT

This is not a permit!!!

DRAFT

STATE OF OREGON

COUNTY OF COOS

DRAFT PERMIT TO APPROPRIATE THE PUBLIC WATERS

THIS DRAFT PERMIT IS HEREBY ISSUED TO

PHIL FRIEDMANN for BALLY BANDON SHEEP RANCH
PO BOX 1756
BANDON, OREGON 97411

(541) 530-6839

The specific limits and conditions of the use are listed below.

APPLICATION FILE NUMBER: G-15697

SOURCE OF WATER: SIX WELLS IN WHISKY RUN CREEK BASIN

PURPOSE OR USE: IRRIGATION OF 95.0 ACRES

MAXIMUM RATE: 0.45 CUBIC FOOT PER SECOND

PERIOD OF USE: MARCH 1 THROUGH OCTOBER 31

DATE OF PRIORITY: FEBRUARY 4, 2002

WELL LOCATIONS:

WELL #1A NW ¼ SW ¼, SECTION 20, T27S, R14W, W.M.; 2450 FEET
NORTH & 350 FEET EAST FROM SW CORNER, SECTION 20

WELL #2A NW ¼ NW ¼, SECTION 20, T27S, R14W, W.M.; 4600 FEET
NORTH & 550 FEET EAST FROM SW CORNER, SECTION 20

WELL #1B NW ¼ SW ¼, SECTION 20, T27S, R14W, W.M.; 1,350 FEET
NORTH & 325 FEET EAST FROM SW CORNER, SECTION 20

WELL #2B SE ¼ NW ¼, SECTION 20, T27S, R14W, W.M.; 1950 FEET
SOUTH & 2250 FEET EAST FROM NW CORNER, SECTION 20

WELL #3B NE ¼ NW ¼, SECTION 20, T27S, R14W, W.M.; 750 FEET SOUTH
& 1650 FEET EAST FROM NW CORNER, SECTION 20

WELL #4B NW ¼ NE ¼, SECTION 20, T27S, R14W, W.M.; 750 FEET SOUTH
& 1800 FEET WEST FROM NE CORNER, SECTION 20

Application G-15697 Water Resources Department

PERMIT DRAFT

years, and the data collected to the USGS standard. The record from this gaging station will be used to define the 80-percent exceedance natural streamflow for Whiskey Run Creek. If it is determined at the end of five years that streamflow is insufficient to meet the demands of the instream water right and the proposed use, the gaging station will be continued in operation at the applicant's expense for the purpose of regulating the use of water in Whiskey Run Creek according to the prior appropriation doctrine. If it is determined at the end of five years that streamflow is sufficient to meet the demands of the instream water right and the proposed use, the gaging station will be discontinued.

Prior to use of water under this permit, the permittee shall obtain OWRD approval for a plan to monitor and report the impacts of this use on water levels within the aquifer utilized under this permit. The plan shall include locating two or more dedicated observation wells between the permitted wells and offsite wells to address water level impacts on senior ground water users.

STANDARD CONDITIONS

If substantial interference with a senior water right occurs due to withdrawal of water from any well listed on this permit, then use of water from the well(s) shall be discontinued or reduced and/or the schedule of withdrawal shall be regulated until or unless the Department approves or implements an alternative administrative action to mitigate the interference. The Department encourages junior and senior appropriators to jointly develop plans to mitigate interferences.

The wells shall be constructed in accordance with the General Standards for the Construction and Maintenance of Water Wells in Oregon. The works shall be equipped with a usable access port, and may also include an air line and pressure gauge adequate to determine water level elevation in the well at all times.

The use shall conform to such reasonable rotation system as may be ordered by the proper state officer.

Prior to receiving a certificate of water right, the permit holder shall submit the results of a pump test meeting the department's standards, to the Water Resources Department. The Director may require water level or pump test results every ten years thereafter.

accepting an offer to purchase that real estate, also inform the purchaser in writing whether any permit, transfer approval order, or certificate evidencing the water right is available and that the seller will deliver any permit, transfer approval order or certificate to the purchaser at closing, if the permit, transfer approval order or certificate is available.

CULTURAL RESOURCES PROTECTION LAWS: Permittees involved in ground-disturbing activities should be aware of federal and state cultural resources protection laws. ORS 358.920 prohibits the excavation, injury, destruction or alteration of an archeological site or object, or removal of archeological objects from public and private lands without an archeological permit issued by the State Historic Preservation Office. 16 USC 470, Section 106, National Historic Preservation Act of 1966 requires a federal agency, prior to any undertaking to take into account the effect of the undertaking that is included on or eligible for inclusion in the National Register. For further information, contact the State Historic Preservation Office at 503-378-4168, extension 232.

KimG

From: Banton, David [DBanton@golder.com]
Sent: Thursday, April 24, 2003 10:26 AM
To: Kimberly Grigsby (E-mail)
Cc: Philip Friedmann (E-mail)
Subject: Comments on Bally Bandon Settlement Agreement

Kim

Thank you for sending me the draft agreement. As promised, here are some corrections to the document.

1. The spelling of Mr. Friedmann's name is with two n's. Mr. Friedmann's name is spelt correctly on the Draft Permit, but not on the Settlement Agreement.
2. Item IV - Background references application G-15218. This is not an application by Mr. Friedmann for Bally Bandon. Please delete this paragraph.
3. Item V - Background. The correct reference is "Golder Associates Inc." (not Golder and Associates).
4. Item 4. a. (Terms of Agreement) - "Application" is to pay for the installationshould be "Applicant". Suggest the addition of the following at the end of this paragraph - "If it is determined at the end of five years that streamflow is sufficient to meet the demands of the instream water right and the proposed use, the gaging station will be discontinued".
5. Partial paragraph - top of page 3, line 4 on Draft Permit. The word "of" is spelt "fo". Please add the same language in Item 4 above to this paragraph.

I note that the agreement refers to "Whisky Creek Basin" in some paragraphs and "Whisky Run Creek" elsewhere. I want to make sure the Department is using the correct terminology for the creek and the basin. For example, Paragraph I of the Settlement Agreement says that the wells are in the Whisky Creek Basin, but the Draft Permit says that the wells are in the Whisky Run Creek Basin. Can you check and confirm how the basin and creek should be identified.

If you have any questions, please give me a call

Thank you
David

David Banton, L.HG.
Principal Hydrogeologist
Golder Associates Inc.
Tel: (425) 883-0777
Fax: (425) 882-5498
Cell: (425) 503-9331

<<http://www.golder.com/>>



April 27, 2012

113-92829

Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301

**RE: APPLICATION FOR EXTENSION OF TIME FOR A WATER RIGHT PERMIT
WATER RIGHT PERMIT G-15437
BALLY BANDON SHEEP RANCH, BANDON, COOS COUNTY, OREGON**

To Whom It May Concern:

On behalf of our client, Mr. Philip Friedmann, Golder Associates Inc. (Golder) is submitting the enclosed Application for Extension of Time for a Water Right Permit. With this application Mr. Friedmann is requesting an extension of time required to apply water to full beneficial use under permit number G-15437 on his Bally Bandon Sheep Ranch property until at least October 1, 2017. The current permit expires on October 1, 2012.

The enclosed application includes Mr. Friedmann's original signature on Page 9 and a Check for \$500.00 (Check Number 3439) to cover the application fee.

Also enclosed is a pump test report for the operating well at the Bally Bandon Sheep Ranch property. This fulfills the pump test requirement under the standard conditions of Permit G-15437.

If you have any questions regarding the application and supporting documentation, please do not hesitate to contact me at 480-966-0153 or rblegen@golder.com. Thank you for your consideration of this application.

Sincerely,

GOLDER ASSOCIATES INC.

A handwritten signature in blue ink, appearing to read "Ronald P. Blegen".

Ronald P. Blegen, RG, CWRE
Senior Hydrogeologist

cc: Philip Friedmann, Bally Bandon Sheep Ranch
David Banton, Golder Associates Inc. (Redmond)

Attachments or Enclosures: Application for Extension of Time for a Water Right Permit
Application Fee

RPB/ch

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APR 30 2012

WATER RESOURCES DEPT
SALEM, OREGON

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Golder Associates Inc.
1430 W. Broadway Road, Suite 108
Tempe, AZ 85282 USA
Tel: (480) 966-0153 Fax: (480) 966-0193 www.golder.com



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SALEM, OREGON



Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem Oregon 97301
(503) 986-0900
www.wrd.state.or.us

Application for
Extension of Time
for a Water Right Permit
(Non-Municipal / Non-Quasi-municipal Water Use)

TO THE DIRECTOR OF THE OREGON WATER RESOURCES DEPARTMENT

I, Phil Friedmann c/o Bally Bandon Sheep Ranch (BBSR)

NAME OF PERMIT HOLDER [OAR 690-315-0020(1) and (3)(a)]

P.O. Box 1756

ADDRESS

CITY Bandon

STATE OR

ZIP 97411

541-530-6839

PHONE

Pfriedmann1@gmail.com

E-MAIL ADDRESS

the permit holder of:

Application Number G-15697

Permit Number G-15437

[OAR 690-315-0020(3)(b)]

do hereby request that the time in which to:

complete construction (of diversion/appropriation works and/or purchase and installation of the equipment necessary to the use of water), which time now expires on October 1, _____, be extended to October 1, _____,

N/A (Check this box if the permit does not specify a date by when construction must be completed.)

and/or the time in which to:

apply water to full beneficial use under the terms and conditions of the permit, which time now expires on October 1, 2012, be extended to October 1, 2017.

Reference Materials Needed to Complete this Application:

- The water right permit. If needed, a copy of the water right permit can be downloaded from the Department's Website at <http://www.wrd.state.or.us> (find the link to the Water Rights Information System (WRIS). Or, a copy of the permit (or other documents) may be requested by water right application number from the Water Rights Division at 503-986-0900 (copy fees will apply).

A copy of Permit G-15437 and the associated map are included as Attachment A. A copy of the Final Order for Extension of Time for permit Number G-15437 is included as Attachment B.

- Documentation which demonstrates compliance with permit conditions (for example, well construction logs; static water level measurement reports; annual water use reports; ODFW fish screen certification; a plan to monitor the effect of water use on ground water aquifers utilized under the permit; etc.).

Documents related to compliance with specific permit conditions are referenced in Chart-A, below.

Answer the Following Questions to Complete this Application for Extension of Time

[OAR 690-315-0020(3)(d)]

1. **Did the actual construction of the water system/well drilling begin within the time specified in the permit?** Yes No

Date construction began is: November 2001

Details of construction: Permit G-15437 did not specify a date by which construction was to begin. Drilling of the first irrigation well (L-51164) began November 21st, 2001. Additional work related to development of this Permit is described below.

[OAR 690-315-0020(3)(e)(A)]

2. **Permits typically contain standard or special conditions that must be satisfied to lawfully develop and use permitted water. In the development of this water right, have you satisfied the conditions contained in your permit?** Yes No

2-A) Describe how you have complied with each condition contained in the original permit [and, if applicable, each condition contained in any order approving a permit amendment and/or a final order approving a prior extension of time]. Include the date when the condition was satisfied.

CHART-A

Condition No. **	Date Satisfied	Describe How Permit Condition Has Been Satisfied
1	Ongoing	A totalizing flow meter was installed at the operational production well in 2002. A complete record of monthly water use has been maintained, and annual records of water use have been submitted to the Department's Measurement and Reporting Section.
2	11/2009	A continuous record gauging station was installed on Whiskey Run Creek in August 2003 and streamflow was periodically measured using a Swoffer current meter. Streamflow measurement reports were provided to the Department annually for a five-year period including WY2004 through WY2008. The Department reviewed the data provided and "determined that the holder of permit G-15437 has met the obligation of five years of data collection on Whiskey Run, and it is not necessary to continue running the

		gage for the purpose of meeting the permit conditions under that permit.” (OWRD, November 19, 2009, Attachment C)
3	09/2003	In September 2003, BBSR submitted a monitoring plan (Plan) to OWRD in order to meet the terms and conditions of groundwater permit G-15437. The Plan included collection of groundwater levels at the operational irrigation well on the BBSR property, two piezometers located on the property, and an off-site domestic well located on Tokyo Lane. Well logs for groundwater monitoring locations were submitted with the monitoring plan. The Plan also included collection of groundwater pumping rates and volumes from the operational irrigation well, and monitoring of surface water flow in Whiskey Run Creek. Monitoring activity has been in compliance with this plan and collected data indicated that pumping from the irrigation well has no discernable effect on surface flows in Whiskey Run Creek or water levels in the Tokyo Lane well (Golder, 2003, Attachment D)
4	Ongoing	BBSR has been monitoring water levels in on-site piezometers and off-site domestic wells, as well as flow rates in Whiskey Run Creek (through 2009). To date there have been no discernable impacts to groundwater levels in nearby wells, to senior water right holders, or to flow in Whiskey Run Creek when pumping from the BBSR irrigation well occurs.
5	03/2007	To date BBSR has installed 9 wells associated with this permit, two production wells and 7 exploration/monitoring wells. The two irrigation wells have been constructed in compliance with the General Standards for the Construction and Maintenance of Water Wells in Oregon. Well logs are attached for reference. (Attachment E)
6	n/a	A rotation system has not been necessary or ordered.
7	10/2002	A pumping test has been completed at Irrigation Well #1A (Well Tag L51164). The results of a pumping test have been submitted to the Department’s Measurement and Reporting Section.

**** Condition No:** Hand-number each condition on a copy of your permit (and, if applicable, permit amendment and prior extension). Include a copy of your hand-numbered permit with the application. Included as (Attachment A)

2-B) If you have NOT complied with all applicable conditions, explain the reasons why and indicate with a date certain (in the near future) when compliance will occur.

CHART-B

Condition No.**	Date Will Comply	Explain Why Each Permit Condition Has NOT Been Satisfied

--	--	--

**** Condition No:** Hand-number each condition on a copy of your permit (and, if applicable, permit amendment and prior extension. Include a copy of your hand-numbered permit with the application.

[OAR 690-315-0020(3)(e)]

3. Provide evidence of physical progress made toward completion of the water system, and of progress made toward making beneficial use of water within the permitted time period (CHART-C); and if applicable, within the time period of the most recent extension granted (CHART-D).

3-A) CHART-C (below) must be completed for all Application for Extension of Time requests. Use chronological order.

CHART-C

DATE	WORK ACCOMPLISHED BEFORE PERMIT WAS ISSUED <i>List any work done before the permit was issued – eg. well drilled.</i>	COST*
12/2001	Construction and testing of irrigation well COOS-52219 (L51164). Drill and install piezometer COOS-52220.	\$20,000
2001	Construct irrigation storage pond.	\$500,000
10/2002	Drill and install piezometer COOS-52546.	\$10,000

DATE	WORK ACCOMPLISHED AFTER PERMIT WAS ISSUED <i>and PRIOR TO DATE SPECIFIED IN PERMIT FOR COMPLETE APPLICATION OF WATER</i> <i>List work/actions done during the permitted time period.</i>	COST*
05/16/2003	Date the permit was signed - find date above signature on last page of permit.	
09/2003	Install continuous monitoring gaging station on Whiskey Run Creek.	\$20,000
2006 to 2007	Drill and install one irrigation well and six exploration/monitoring wells.	\$35,000
n/a	Date the permit specified "Actual Construction Work" shall begin ("A-Date") -not all permits contain this date.	
10/1/2007	Date the permit specified complete application of water to the use shall be made ("C-Date") - all permits contain this date.	

CHART-C (continued)

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SALEM, OREGON

WORK ACCOMPLISHED AFTER "C-DATE"		
DATE	<i>COMPETE ONLY IF THIS IS YOUR 1st APPLICATION FOR EXTENSION OF TIME: List work done after the date specified in the permit for complete application of water up to the date of this Application for Extension of Time.</i>	COST*
	n/a (this is the second application for extension of time for permit G-15437)	
Total Cost for Chart-C		

* If exact cost is not known, you must provide your best estimate.

3-B) If this is not your 1st Application for Extension of Time request, fill out CHART-D below (in addition to CHART-C above). Use *chronological order*.

CHART-D

DATE	WORK ACCOMPLISHED DURING THE LAST EXTENSION PERIOD <i>List all work done during the last authorized extension period.</i>	COST*
10/1/2007	"Extended From" date for complete application of water used in the 1 st (or the most recent) Application for Extension of Time.	
	No physical work was completed during this period due to financial hardships related to the economic down-turn. See Section 2-A for a description of permit condition compliance (non-physical work) completed during this time period and Section 9-B for an explanation of the pause in golf course and irrigation system build-out.	
10/1/2012	"Extended To" date for complete application of water resulting from the 1 st (or the most recent) Application for Extension of Time.	

CHART-D (Continued)

DATE	WORK ACCOMPLISHED AFTER THE LAST EXTENSION PERIOD EXPIRED <i>List all work done after the last authorized date for complete application of water up to the date of this Application for Extension of Time.</i>	COST*
	n/a (last authorized date of completion has not yet passed)	

APR 30 2012

WATER RESOURCES DEPT
SALEM, OREGON

Total Cost of Chart-D		

* If exact cost is not known, you must provide your best estimate.

[OAR 690-315-0020(3)(f)]

4. **Cost of project to date:** Approximately \$550,000 to \$650,000
(The total combined cost from CHART-C and CHART-D)

[OAR 690-315-0020(3)(e)(B)]

5. **Provide evidence of the maximum rate (or duty, if applicable) of water diverted for beneficial use under this permit and/or prior extensions of time (if any) made to date.**

5-A) For Surface Water Permit Extensions (e.g. S-XXXX or R-XXXX):

Maximum rate used to date = _____ cfs (cubic feet per second) *or*,

Maximum rate used to date = _____ gpm (gallons per minute) *or*,

Acre-feet stored to date = _____ AF

5-B) For Ground Water Permit Extensions (e.g. G-XXXX):

CHART-E

Well # as identified on Permit	Water User's Well #	Has this well been drilled?	IF DRILLED					
			Well Log Number e.g. MORR 50473	Well Tag Number e.g. # 27566 or N/A	Is the actual drilled location authorized on this permit or on a permit amendment? (See 5-C below)	Maximum instantaneous rate used from this well -- under <u>this permit only</u> (CFS or GPM)	Is this well authorized or utilized under any OTHER water rights?	If yes, provide the Permit, Certificate, or Transfer No.
1A	Irrigation Well	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	COOS 52219	L 51164	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	125 gpm	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	- -
2A		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			Yes <input type="checkbox"/> No <input type="checkbox"/>		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	- -
1B		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			Yes <input type="checkbox"/> No <input type="checkbox"/>		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	- -
2B	Irrigation Well 6	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	COOS 53868	L 81718	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	n/a (no pump installed)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	- -
3B		Yes <input type="checkbox"/>			Yes <input type="checkbox"/>		Yes <input type="checkbox"/>	-

	No <input checked="" type="checkbox"/>		No <input type="checkbox"/>		No <input checked="" type="checkbox"/>	
4B	Yes <input type="checkbox"/>		Yes <input type="checkbox"/>		Yes <input type="checkbox"/>	-
	No <input checked="" type="checkbox"/>		No <input type="checkbox"/>		No <input checked="" type="checkbox"/>	
Total instantaneous rate from all wells utilized under this permit					125 gpm	

Note that several exploration bores were drilled and completed as monitoring wells over the course of the permit period. See summary table and driller's logs of wells related to the BBSR development program included as Attachment E.

5-C) If the drilled location of a well is not authorized on this permit, please specify its location below, or provide a map showing its location. Has or will a permit amendment application been/be filed? Yes No

If a Permit Amendment Application has been filed: Transfer No. T-_____

Well # _____: Actual location: _____

Well # _____: Actual location: _____

[OAR 690-315-0020(3)(e)(C)]

6. Provide the total number of acres irrigated to date under this permit (if applicable).

Total acres irrigated to date: 15

Ground Water Permits: Please specify which wells are being utilized for this irrigation.

Well # 1A Acres 15 Well # _____ Acres _____

Well # _____ Acres _____ Well # _____ Acres _____

[OAR 690-315-0020(3)(j)]

7. Provide a summary of your future plans and schedule to complete the construction of the water system, and/or apply water to full beneficial use under the terms and conditions of the permit.

CHART-F

APPROXIMATE DATE RANGE (projected)	WORK OR ACTION TO BE ACCOMPLISHED (projected)	ESTIMATED COST (projected)
2013-2014	Bring second irrigation well on line and install distribution pipe to holding pond.	\$50,000
2014-2015	Design and install expanded underground distribution lines and sprinkler system on golf course.	\$100,000
2015	Install pumping station at pond.	\$50,000
2013 – 2017	Complete construction of remaining 5 holes on current course, including sprinkler system extension, and apply water as required.	\$300,000

Year: 2017	Date intend to apply water to full beneficial use under the terms and conditions of this permit.	
Total Cost		\$500,000

[OAR 690-315-0020(3)(g)]

8. **Estimated remaining cost to complete the project: \$500,000 to 650,000**
(The total cost from CHART-F)

[OAR 690-315-0020(3)(h)]

9. **List the reasons why the project was not constructed, and/or water was not beneficially used within permit time limits. Provide supporting information for the reason(s) that best fits your circumstances (A, B, C or D).**

9-A) The project is of a size and scope that was originally planned to be phased in over a time frame longer than the one allowed in the permit.

The rate of development of the BBSR golf course and related irrigation infrastructure was dependent on the ability to demonstrate that a reliable long-term water source would be available. Investment in irrigation infrastructure was planned to occur after the potential for impacts to Whiskey Run Creek were resolved. Issues regarding potential impacts to Whiskey Run Creek were resolved during the current extension period in November 2009 (see discussion of Condition #2 in Section 2-A above). However, by the time BBSR received assurances that water was available to support build-out of the planned irrigation system financial resources had become a limiting issue (see Section 9-B) due to the economic downturn.

9-B) The financial resources needed to develop the project precluded completion of the project within authorized time frames.

The global recession has impacted the actual and potential number of visitors to the BBSR golf course since the current extension period was approved in April 2008. The reduction in visitors has limited BBSR's financial ability to continue to invest in golf course and irrigation system development over the course of the current extension period.

9-C) Good faith attempts to comply with permit conditions and/or acquire permits from other agencies, or otherwise comply with government regulations, delayed completion of the project.

Streamflow measurements were collected and reported to the Department during the current extension period to comply with permit conditions (see Section 2-A). All other applicable conditions have been met. Groundwater exploration work has been completed and BBSR

expects that the two existing irrigation wells are suitable for full development of the permitted rate of appropriation.

9-D) Acts of God or other unforeseen events delayed full development of the water system and use of water within the authorized time frames.

n/a

[OAR 690-315-0020(3)(k)]

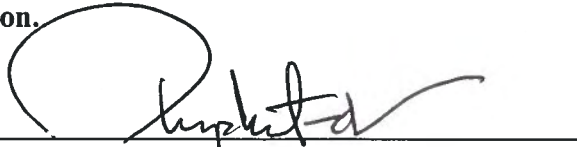
10. Justify the time requested to complete the project and/or apply the water to full beneficial use. Your justification should combine information from your answers from Questions 2-B, 7, 8, and 9 of this Application for Extension of Time, and should also include any other information or evidence to establish that the requested amount of time is sufficient and that you will be able to complete the project within the amount of time requested.

Economic recession has limited BBSR's ability to continue golf course and irrigation system development during the current extension period. However, during the current period, BBSR has worked in good faith to meet all permit conditions, and production wells capable of producing the full permitted amount of water are in place. Continued economic improvement over the course of the next five years and the recovery of golf-tourism to the southern Oregon coast would allow BBSR to continue to invest in completing the golf course and associated irrigation infrastructure, resulting in full beneficial use of water under permit G-15437.

11. Provide any other information you wish OWRD to consider while evaluating your Extension of Time Application.

I am the permit holder, or have authorization from the permit holder, to apply for an extension of time under this permit. I understand that false or misleading statements in this extension application are grounds for OWRD to suspend processing of the request and/or reason to deny the extension.

Signature



Date

4-12-12

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**WATER RESOURCES DEPT
SALEM, OREGON**

**ATTACHMENT A
PERMIT G15437**

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STATE OF OREGON

COUNTY OF COOS

WATER RESOURCES DEPT
SALEM, OREGON

PERMIT TO APPROPRIATE THE PUBLIC WATERS

THIS PERMIT IS HEREBY ISSUED TO

PHIL FRIEDMANN for BALLY BANDON SHEEP RANCH
PO BOX 1756.
BANDON, OREGON 97411

(541) 530-6839

The specific limits and conditions of the use are listed below.

APPLICATION FILE NUMBER: G-15697

SOURCE OF WATER: SIX WELLS IN WHISKY RUN CREEK BASIN

PURPOSE OR USE: IRRIGATION OF 95.0 ACRES

MAXIMUM RATE: 0.45 CUBIC FOOT PER SECOND

PERIOD OF USE: MARCH 1 THROUGH OCTOBER 31

DATE OF PRIORITY: FEBRUARY 4, 2002

WELL LOCATIONS:

WELL #1A NW $\frac{1}{4}$ SW $\frac{1}{4}$, SECTION 20, T27S, R14W, W.M.; 2450 FEET
NORTH & 350 FEET EAST FROM SW CORNER, SECTION 20

WELL #2A NW $\frac{1}{4}$ NW $\frac{1}{4}$, SECTION 20, T27S, R14W, W.M.; 4600 FEET
NORTH & 550 FEET EAST FROM SW CORNER, SECTION 20

WELL #1B NW $\frac{1}{4}$ SW $\frac{1}{4}$, SECTION 20, T27S, R14W, W.M.; 1,350 FEET
NORTH & 325 FEET EAST FROM SW CORNER, SECTION 20

WELL #2B SE $\frac{1}{4}$ NW $\frac{1}{4}$, SECTION 20, T27S, R14W, W.M.; 1950 FEET
SOUTH & 2250 FEET EAST FROM NW CORNER, SECTION 20

WELL #3B NE $\frac{1}{4}$ NW $\frac{1}{4}$, SECTION 20, T27S, R14W, W.M.; 750 FEET SOUTH
& 1650 FEET EAST FROM NW CORNER, SECTION 20

WELL #4B NW $\frac{1}{4}$ NE $\frac{1}{4}$, SECTION 20, T27S, R14W, W.M.; 750 FEET SOUTH
& 1800 FEET WEST FROM NE CORNER, SECTION 20

Application G-15697 Water Resources Department

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PAGE 2

The amount of water used for irrigation under this right, together with the amount secured under any other right existing for the same lands, is limited to a diversion of ONE-EIGHTIETH of one cubic foot per second (or its equivalent) and 2.5 acre-feet for each acre irrigated during the irrigation season of each year.

THE PLACE OF USE IS LOCATED AS FOLLOWS:

SE ¼ NE ¼ 2.2 ACRES
SECTION 19
NW ¼ NE ¼ 4.9 ACRES
NE ¼ NW ¼ 16.3 ACRES
NW ¼ NW ¼ 13.7 ACRES
SW ¼ NW ¼ 21.8 ACRES
SE ¼ NW ¼ 3.7 ACRES
NE ¼ SW ¼ 4.4 ACRES
NW ¼ SW ¼ 19.6 ACRES
SW ¼ SW ¼ 8.3 ACRES
SE ¼ SW ¼ 0.1 ACRES
SECTION 20
TOWNSHIP 27 SOUTH, RANGE 14 WEST, W.M.

Measurement, recording and reporting conditions:

- 1 A. Before water use may begin under this permit, the permittee shall install a meter or other suitable measuring device as approved by the Director. The permittee shall maintain the meter or measuring device in good working order, shall keep a complete record of the amount of water used each month and shall submit a report which includes the recorded water use measurements to the Department annually or more frequently as may be required by the Director. Further, the Director may require the permittee to report general water use information, including the place and nature of use of water under the permit.
 - B. The permittee shall allow the watermaster access to the meter or measuring device; provided however, where the meter or measuring device is located within a private structure, the watermaster shall request access upon reasonable notice.
- 2 Applicant is to pay for the installation and operation of a continuous record gaging station at a suitable location near the mouth of Whiskey Run Creek. The gaging station is to be run for no less than five

Application G-15697 Water Resources Department

PERMIT G-15437

years, and the data collected to the USGS standard. The record from this gaging station will be used to define the 80-percent exceedance natural streamflow for Whiskey Run Creek. If it is determined at the end of five years that streamflow is insufficient to meet the demands of the instream water right and the proposed use, the gaging station will be continued in operation at the applicant's expense for the purpose of regulating the use of water in Whiskey Run Creek according to the prior appropriation doctrine. If it is determined at the end of five years that streamflow is sufficient to meet the demands of the instream water right and the proposed use, the gaging station will be discontinued.

- 3 Prior to use of water under this permit, the permittee shall obtain OWRD approval for a plan to monitor and report the impacts of this use on water levels within the aquifer utilized under this permit. The plan shall include locating two or more dedicated observation wells between the permitted wells and offsite wells to address water level impacts on senior ground water users.

STANDARD CONDITIONS

- 4 If substantial interference with a senior water right occurs due to withdrawal of water from any well listed on this permit, then use of water from the well(s) shall be discontinued or reduced and/or the schedule of withdrawal shall be regulated until or unless the Department approves or implements an alternative administrative action to mitigate the interference. The Department encourages junior and senior appropriators to jointly develop plans to mitigate interferences.
- 5 The wells shall be constructed in accordance with the General Standards for the Construction and Maintenance of Water Wells in Oregon. The works shall be equipped with a usable access port, and may also include an air line and pressure gauge adequate to determine water level elevation in the well at all times.
- 6 The use shall conform to such reasonable rotation system as may be ordered by the proper state officer.
- 7 Prior to receiving a certificate of water right, the permit holder shall submit the results of a pump test meeting the department's standards, to the Water Resources Department. The Director may require water level or pump test results every ten years thereafter.

Application G-15697 Water Resources Department

PERMIT G-15437

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Failure to comply with any of the provisions of this permit may result in action including, but not limited to, restrictions on the use, civil penalties, or cancellation of the permit.

This permit is for the beneficial use of water without waste. The water user is advised that new regulations may require the use of best practical technologies or conservation practices to achieve this end.

By law, the land use associated with this water use must be in compliance with statewide land-use goals and any local acknowledged land-use plan.


The use of water shall be limited when it interferes with any prior surface or ground water rights.

The Director finds that the proposed use(s) of water described by this permit, as conditioned, will not impair or be detrimental to the public interest.

Complete application of the water to the use shall be made on or before October 1, 2007. If the water is not completely applied before this date, and the permittee wishes to continue development under the permit, the permittee must submit an application for extension of time, which may be approved based upon the merit of the application.

Within one year after complete application of water to the proposed use, the permittee shall submit a claim of beneficial use, which includes a map and report, prepared by a Certified Water Rights Examiner (CWRE).

Issued May 16, 2003


Paul R. Creary, Director
Water Resources Department

REAL ESTATE TRANSACTIONS: Pursuant to ORS 537.330, in any transaction for the conveyance of real estate that includes any portion of the lands described in this permit, the seller of the real estate shall, upon accepting an offer to purchase that real estate, also inform the

Application G-15697
Basin 17
AMH

Water Resources Department
Volume 3 BASIN 17 MISC

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**WATER RESOURCES DEPT
SALEM, OREGON**

purchaser in writing whether any permit, transfer approval order, or certificate evidencing the water right is available and that the seller will deliver any permit, transfer approval order or certificate to the purchaser at closing, if the permit, transfer approval order or certificate is available.

CULTURAL RESOURCES PROTECTION LAWS: Permittees involved in ground-disturbing activities should be aware of federal and state cultural resources protection laws. ORS 358.920 prohibits the excavation, injury, destruction or alteration of an archeological site or object, or removal of archeological objects from public and private lands without an archeological permit issued by the State Historic Preservation Office. 16 USC 470, Section 106, National Historic Preservation Act of 1966 requires a federal agency, prior to any undertaking to take into account the effect of the undertaking that is included on or eligible for inclusion in the National Register. For further information, contact the State Historic Preservation Office at 503-378-4168, extension 232.

Application G-15697
Basin 17
AMH

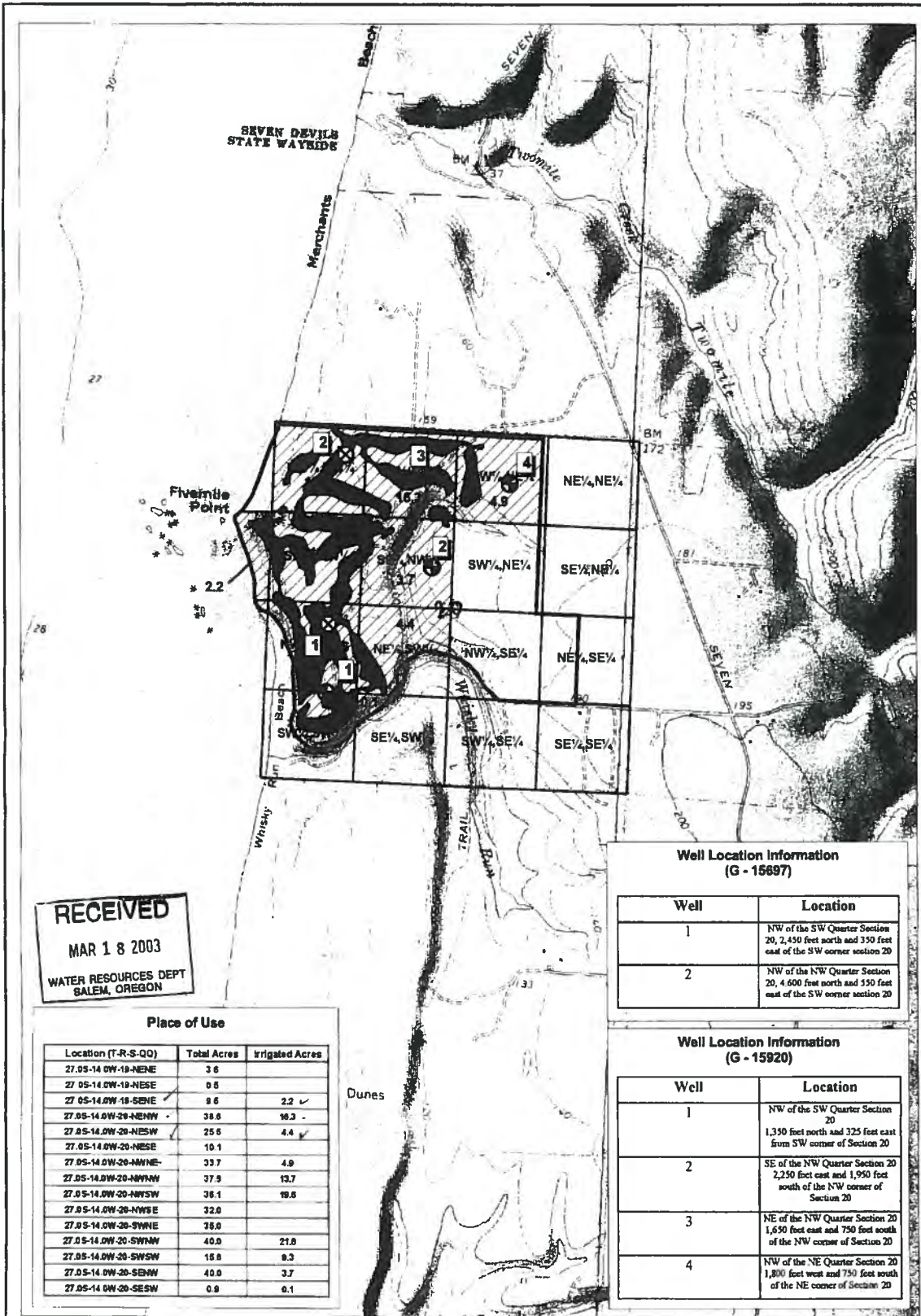
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Volume 3 BASIN 17 MISC

PERMIT G-15437

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SALEM, OREGON



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Place of Use		
Location (T-R-S-QQ)	Total Acres	Irrigated Acres
27.05-14.0W-19-NENE	3.6	
27.05-14.0W-19-NESE	0.6	
27.05-14.0W-19-SENE	9.6	2.2 ✓
27.05-14.0W-20-NENN	38.8	10.3
27.05-14.0W-20-NESW	25.6	4.4 ✓
27.05-14.0W-20-NESE	10.1	
27.05-14.0W-20-NWNE	33.7	4.9
27.05-14.0W-20-NWNW	37.9	13.7
27.05-14.0W-20-NWSW	36.1	19.6
27.05-14.0W-20-NWSE	32.0	
27.05-14.0W-20-SWNE	76.0	
27.05-14.0W-20-SWNW	40.0	21.6
27.05-14.0W-20-SWSW	15.8	9.3
27.05-14.0W-20-SENW	40.0	3.7
27.05-14.0W-20-SESW	0.9	0.1

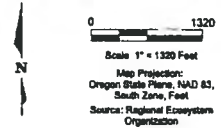
Well Location Information (G - 15697)	
Well	Location
1	NW of the SW Quarter Section 20, 2,450 feet north and 350 feet east of the SW corner section 20
2	NW of the NW Quarter Section 20, 4,600 feet north and 150 feet east of the SW corner section 20

Well Location Information (G - 15920)	
Well	Location
1	NW of the SW Quarter Section 20, 1,350 feet north and 325 feet east from SW corner of Section 20
2	SE of the NW Quarter Section 20, 2,250 feet east and 1,950 feet south of the NW corner of Section 20
3	NE of the NW Quarter Section 20, 1,650 feet east and 750 feet south of the NW corner of Section 20
4	NW of the NE Quarter Section 20, 1,800 feet west and 750 feet south of the NE corner of Section 20

LEGEND

- Place of Use
- PLSS Quarter, C
- Proposed Irrigat
- Proposed Irrigat

Total acres are 95^e



Site Map With Proposed Irrigation Areas
 BALLY BSR/GROUNDWATER SERVICES/OR

Drawn: ATB Revision: 4 Date: Mar 17, 2003 Figure: 1

app# G-15697 Permit # G-15437

Golder Associates

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**ATTACHMENT B
FINAL ORDER
EXTENSION OF TIME FOR PERMIT NUMBER G-15437 (2008)**

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**WATER RESOURCES DEPT
SALEM, OREGON**

Oregon Water Resources Department
Water Rights Division

Water Rights Application
Number G-15697

**Final Order
Extension of Time for Permit Number G-15437**

Appeal Rights

This is a final order in other than contested case. This order is subject to judicial review under ORS 183.484. Any petition for judicial review must be filed within the 60 day time period specified by ORS 183.484(2). Pursuant to ORS 536.075 and OAR 137-004-0080 you may either petition for judicial review or petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the Director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied.

Application History

The Department issued Permit G-15437 on May 16, 2003. The permit called for complete application of water to beneficial use by October 1, 2007. On December 4, 2007, Bally Bandon Sheep Ranch; Phil Friedmann submitted to the Department an Application for Extension of Time for Permit G-15437. In accordance with OAR 690-315-0050(2), on January 15, 2008, the Department issued a Proposed Final Order proposing to extend the time to fully apply water to beneficial use to October 1, 2012. The protest period closed February 29, 2008, in accordance with OAR 690-315-0060(1). No protest was filed.

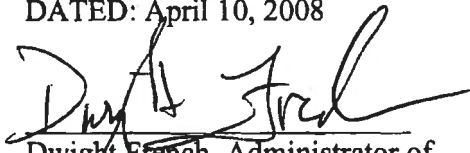
At time of issuance of the Proposed Final Order the Department concluded that, based on the factors demonstrated by the applicant, the permit may be extended subject to no additional conditions.

The applicant has demonstrated good cause for the permit extension pursuant to ORS 537.630, 539.010(5) and OAR 690-315-0040(2).

Order

The extension of time for Application G-15697, Permit G-15437, therefore, is approved. The deadline for applying water to full beneficial use is extended to October 1, 2012.

DATED: April 10, 2008



Dwight French, Administrator of
Water Rights and Adjudications

for

Phillip C. Ward, Director

-
- If you have any questions about statements contained in this document, please contact Ann Reece at (503) 986-0827.
 - If you have other questions about the Department or any of its programs, please contact our Water Resources Customer Service Group at (503) 986-0900
-

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**WATER RESOURCES DEPT
SALEM, OREGON**

ATTACHMENT C
WHISKEY RUN CREEK DATA COMPLIANCE LETTER (NOVEMBER 19, 2009)



Oregon

Theodore R. Kulongoski, Governor

Water Resources Department

North Mall Office Building

725 Summer Street NE, Suite A

Salem, OR 97301-1266

503-986-0900

FAX 503-986-0904

November 19, 2009

Ron Blegen
Senior Project Hydrogeologist
Golder Associates Inc.
1430 West Broadway Road, Suite 108
Tempe, Arizona, 85282

Dear Ron,

This is a follow up letter to our recent conversation regarding the surface water data collection on Whiskey Run in Coos County, Oregon. Attached is a short data analysis report by our Senior Hydrographer that speaks to the quality of data collected on Whiskey Run.

The data collected over the last five years are not of sufficient quality to cause the Department to update the water availability tables for Whiskey Run. The data do, however, clearly demonstrate there is more water year-round in the drainage than the water availability model presents. For this reason, the Department has determined that the holder of permit G-15437 has met the obligation of five years of data collection on Whiskey Run, and it is not necessary to continue running the gage for the purpose of meeting the permit conditions under that permit.

The Department acknowledges that the current water availability model under-reports the flow in Whiskey Run. However, there is insufficient data to revise the water availability tables at this time. If future uses around Whiskey Run should require a more precise water availability analysis, that entity will, in all likelihood, be asked to install a gaging station and collect data to USGS surface water gaging standards sufficient to provide data necessary to refine the water availability numbers. This may be best accomplished through engaging a company that professionally manages surface water gaging stations.

The Department is available to meet with you to discuss the attached data assessment or other questions you may have about this matter.

Sincerely,

Lloyd Van Gordon

Manager

Hydrographics, Measurement and Reporting

Cc: Bruce Sund

Enc. Data analysis summary

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SALEM, OREGON**



Memorandum

To: Lloyd VanGordon

From: Rich Marvin

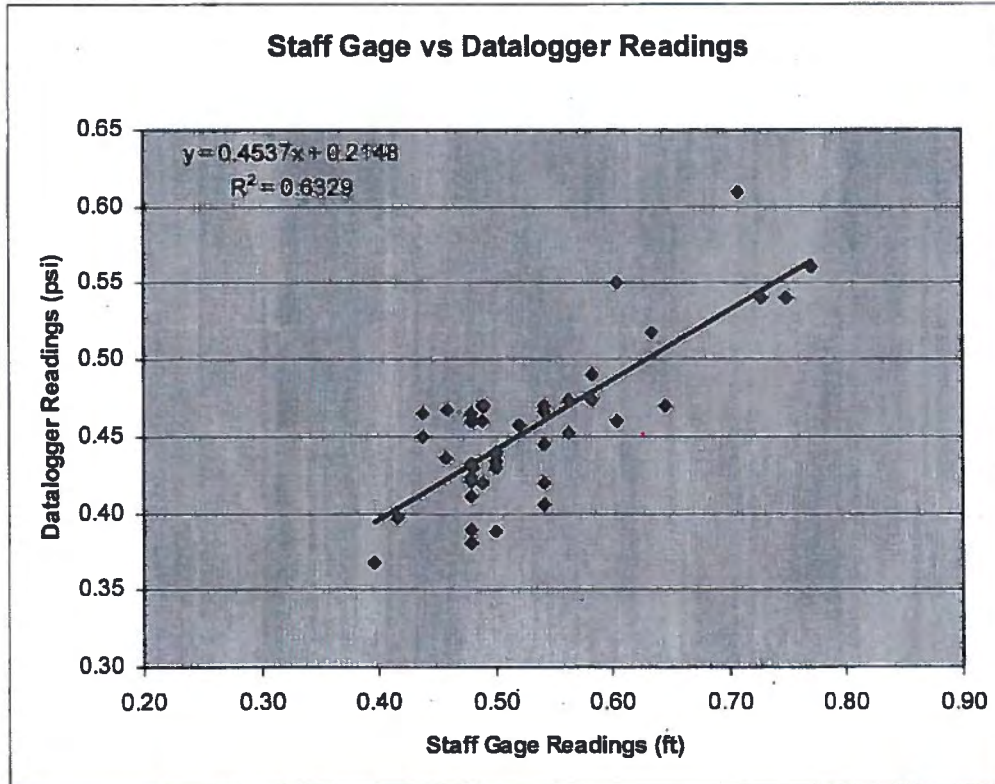
Date: Nov 5, 2009

Re: Discharge data from Whisky Run near Bandon

Below is a brief analysis of the data collected from Whisky Run near Bandon from wy 2004-2008 by Bally Bandon Golf Course.

Transducer Record:

Below is a graph of staff gage versus recorder readings. Normally a regression line fit through the points would have a correlation coefficient (r^2) close to 1.0. The r^2 for the regression line below is 0.63, which is relatively low. The most likely reason the correlation is low is that the recorder was not functioning properly during the study. There are several notes in the spreadsheet provided to me that suggest the accuracy of the logged record was an issue.



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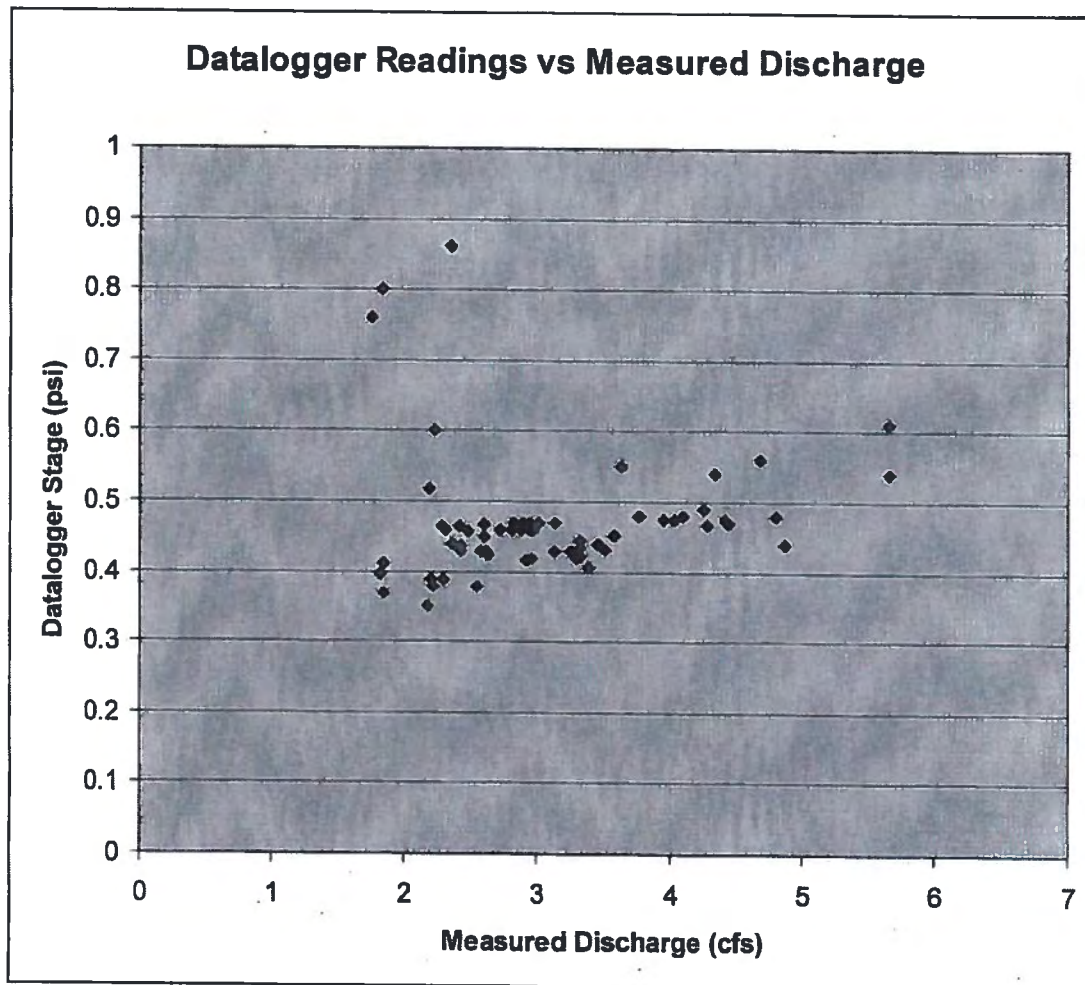
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A second item to note about the graph is that the slope of the regression line is 0.45. Normally the slope would be equal to 1.0, which would indicate that for each 0.01 ft rise or fall in stage, the recorder would respond with a 0.01 rise or fall as well. The slope may not equal 1.0 for two reasons: 1) the record is not calibrated to record feet of water, and 2) the staff gage may not be in the same stream pool as the pressure sensor. It is likely that the problem at this site is a combination of the two possibilities. Recorder readings are noted in the spreadsheet as having units of "psi"; also, on Mar 23, 2006, Tyler Burks of the Oregon Water Resources Dept. noted that the outside gage was in a different pool than the transducer.

Stage-Discharge Relationship:

Below is a graph of recorder readings plotted against measured discharge. The points should define a logarithmic curve; instead, there is substantial scatter.

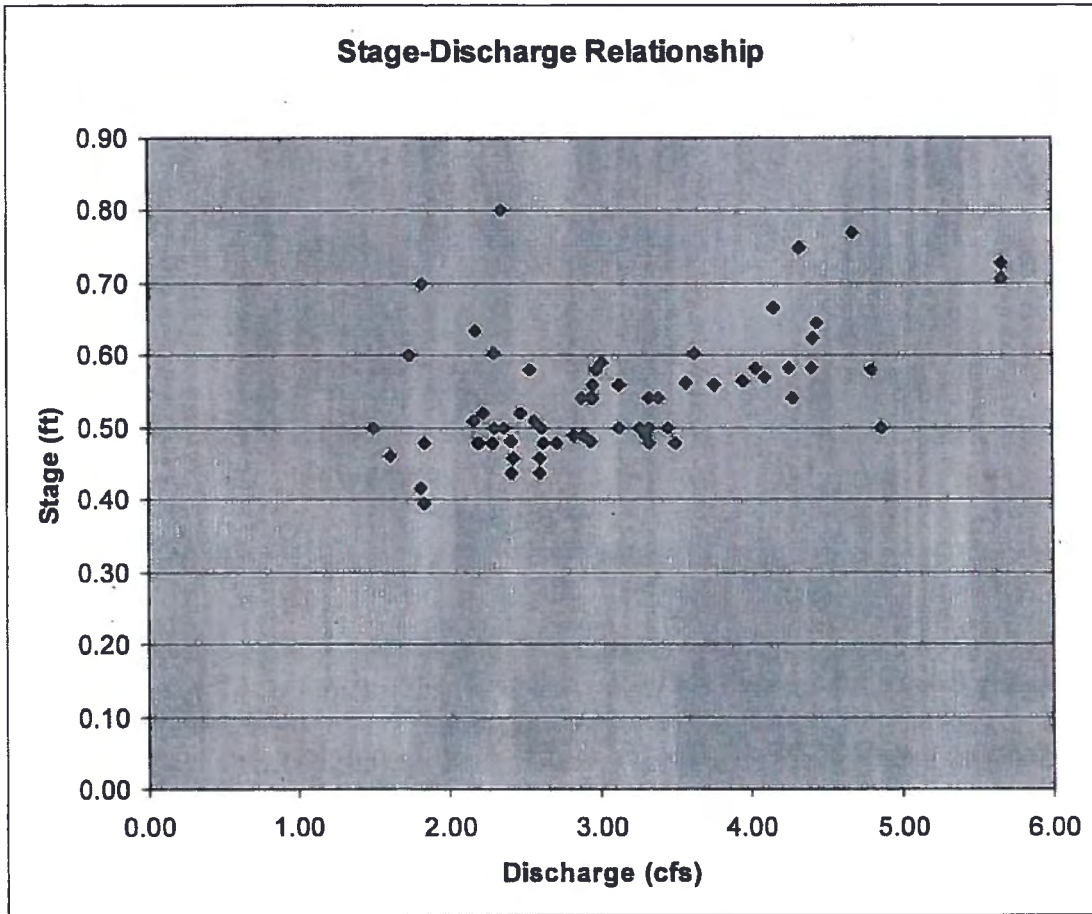


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The next graph shows measured discharge plotted against observed outside gage readings. Again there is substantial scatter.

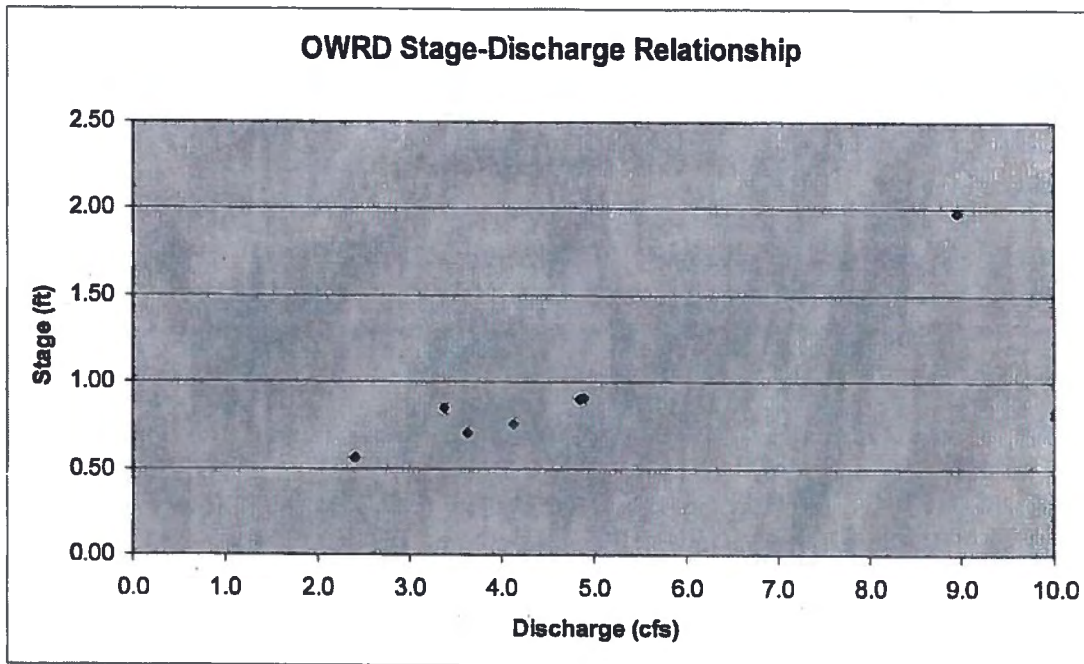


The next graph shows the stage-discharge relationship for 6 miscellaneous measurements that OWRD staff made in wy 2006. Although the points hint at 2 possible rating curves during this time, there are too few observations to develop any curve with certainty.

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The above graphs suggest that either the control is unstable or the measurements, particularly those made by staff from Bally Bandon Golf Course, are of very poor quality. Any discharge records computed from a stage-discharge relationship defined by the measurements supplied by Bally Bandon would necessarily be rated very poor.

Discharge Record:

Discharge records submitted by Bally Bandon are computed using a separate regression equation for each water year. The regressions relate transducer readings in pounds per square inch (psi) to discharge in cubic feet per second (cfs). No shifts were applied. Printouts of the hydrographs are attached.

I reprocessed the record using a rating developed on the stage-discharge relationship defined by all available measurements. Shifts were applied and estimates were developed, primarily by linear interpolation. The records are still very poor, but at least they pass close to most measurements. Printouts of the hydrographs are attached.

Summary:

The records collected at the Whisky Run site are very poor. The recorder data and the gage height observations do not hold together well and the measurements are of questionable quality and do not define a clear stage-discharge relationship. If the measurements and recorder data are accepted, about the best conclusion that can be drawn is that the discharge of Whisky Run is generally 2-4 cfs during this time period.

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**ATTACHMENT D
MONITORING PLAN**

MONITORING PLAN

BALLY BANDON SHEEP RANCH

WATER RIGHT PERMIT G-15437

Submitted to:

*Bally Bandon Sheep Ranch
P.O. Box 1756
Bandon, OR 97411*

Prepared by:

*Golder Associates Inc.
18300 NE Union Hill Road, Suite 200
Redmond, Washington 98052*

Distribution:

- 1 Copy - Bally Bandon Sheep Ranch
- 1 Copy - Phil Friedmann, Recycled Paper Greetings
- 1 Copy - Oregon Water Resources Department
- 2 Copies - Golder Associates Inc., Redmond, Washington

September 2003

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**WATER RESOURCES DEPT
SALEM, OREGON**

023-1206.004

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2.1 Groundwater Level Monitoring..... 1
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3.0 STREAMFLOW MONITORING..... 3

LIST OF FIGURES

Figure 1 Location Map

LIST OF APPENDICES

Appendix A Well Logs
Appendix B Monitoring Forms

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**WATER RESOURCES DEPT
SALEM, OREGON**

1.0 INTRODUCTION

This monitoring plan has been prepared to meet the terms and conditions of groundwater permit G-15437, issued to Mr. Phil Friedmann on May 16, 2003 for irrigation at the Bally Bandon Sheep Ranch golf course. The permit allows the instantaneous withdrawal of up to 202 gpm (0.45 cfs) for the irrigation of 95 acres. The permit requires a monitoring plan to be submitted to document and report the following:

- Groundwater levels in the onsite and selected offsite wells;
- Quantities of groundwater pumped from the onsite irrigation well(s); and
- Streamflow in Whisky Run Creek.

The purpose of the monitoring plan is to collect data that can be used to evaluate the availability of groundwater in the Whisky Run Creek basin and evaluate the potential impacts of groundwater use on other groundwater users and surface water in the area.

1.1 Background

Bally Bandon Sheep Ranch installed one well for the purpose of supplying irrigation water to the golf course. They are also planning to install up to five additional wells for irrigation supply. The existing well is completed in marine terrace sands. Future wells are planned to be completed in the marine terrace sands. The locations of the existing irrigation well and other nearby wells are shown on Figure 1, and well logs are included in Appendix A. .

2.0 GROUNDWATER MONITORING

Groundwater monitoring will consist of groundwater level monitoring in onsite and offsite wells and groundwater pumping monitoring from the onsite irrigation well(s).

2.1 Groundwater Level Monitoring

Groundwater levels will be monitored in the following wells:

- Existing irrigation well (Coos 55219);
- Test well/piezometer (Coos 52220);
- Piezometer adjacent to irrigation well (Coos 52546); and
- Tokyo Lane domestic well (Coos 717).

Well logs for each of these wells are included in Appendix A. The well locations are shown on Figure 1. Groundwater levels will also be measured in new irrigation wells as they are developed.

Groundwater levels will be measured in each of the wells using the following procedure:

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**WATER RESOURCES DEPT
SALEM, OREGON**

- A permanent measuring point will be designated and marked on each well. The measuring point will be surveyed for location and elevation to the nearest 0.01 foot. All measurements will be taken from the same location at each well;
- The water level probe shall be cleaned before and after each water level measurement;
- The water level will be measured in each well using a clean electronic water level meter. The depth to water shall be measured and recorded to the nearest hundredth (0.01) of a foot. The date, time, and operational status of each well at the time of measurement (pumping or static) should be recorded;
- Any change in the measuring point, well condition, pumping rate, or other any other changes in well operation or performance should be noted; and
- The data shall be entered into a spreadsheet or database.

Groundwater levels shall be measured and recorded in all wells on a monthly basis. If new wells are drilled and installed, groundwater levels shall be measured and recorded at the same frequency.

Forms to record groundwater levels are included in Appendix B. The water level data shall be reported to the Oregon Water Resources Department annually.

2.2 Groundwater Pumping

The quantity of water pumped at the existing well shall be measured and recorded. An instantaneous and totalizing flowmeter shall be installed on any new wells prior to putting the wells into service. The quantity of water pumped from any new wells shall also be measured and recorded.

The quantity of water pumped shall be measured and recorded using the following procedure:

- The date and time of each measurement shall be recorded;
- The totalizing flowmeter on each well shall be read and recorded. The operational status of the well (pumping or static) shall be recorded. If the well is pumping, the instantaneous pumping rate shall be recorded;
- The water level shall be measured and recorded at the same time as the flow measurement; and
- The data shall be entered into a spreadsheet or database.

Groundwater pumping shall be read and recorded on a monthly basis. Forms to record groundwater pumping information are included in Appendix B. The groundwater pumping data shall be reported to the Oregon Water Resources Department annually.

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**WATER RESOURCES DEPT
SALEM, OREGON**

3.0 STREAMFLOW MONITORING

A continuous recording stream gaging station has been established on Whiskey Run Creek immediately upstream of the culvert at the Whisky Run Road crossing (Figure 1). The gage consists of an automated data collection system to measure stream stage and a staff gage.

The surface water monitoring shall be conducted according to the following procedure:

- The staff gage will be read and recorded to the nearest 0.01 foot;
- The automated data collection system will be downloaded. The downloaded data will be plotted in the field to evaluate the data and determine if any problems exist with the monitoring equipment;
- The automated data collection system will be evaluated to ensure proper operation and overall function, including battery life and available datalogger memory, over the next data collection interval. The gage site will be evaluated and any debris affecting operation of the station will be cleared.
- The streamflow shall be measured manually and recorded at the gauging station. The station cross section will be compared to previous cross sections to determine if any changes in channel geometry occurred. The streamflow shall be measured twice during each monitoring event;
- The streamflow data shall be entered into a spreadsheet or database. A rating curve will be developed for the station based on the stage measurements and flow measurements.

Streamflow shall be measured and recorded on a monthly basis. Forms to record streamflow data are included in Appendix B. The streamflow data shall be reported to the Oregon Water Resources Department annually.

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**WATER RESOURCES DEPT
SALEM, OREGON**

FIGURES

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APPENDIX A

WELL LOGS

Existing Irrigation Well

(Coos 55219)

Test Well/Piezometer

(Coos 52220)

Piezometer Adjacent to Irrigation Well

(Coos 52546)

**ATTACHMENT E
IRRIGATION AND OBSERVATION WELLS
OWRD WELL REPORTS**

**TABLE E-1
IRRIGATION AND OBSERVATION WELL INFORMATION**

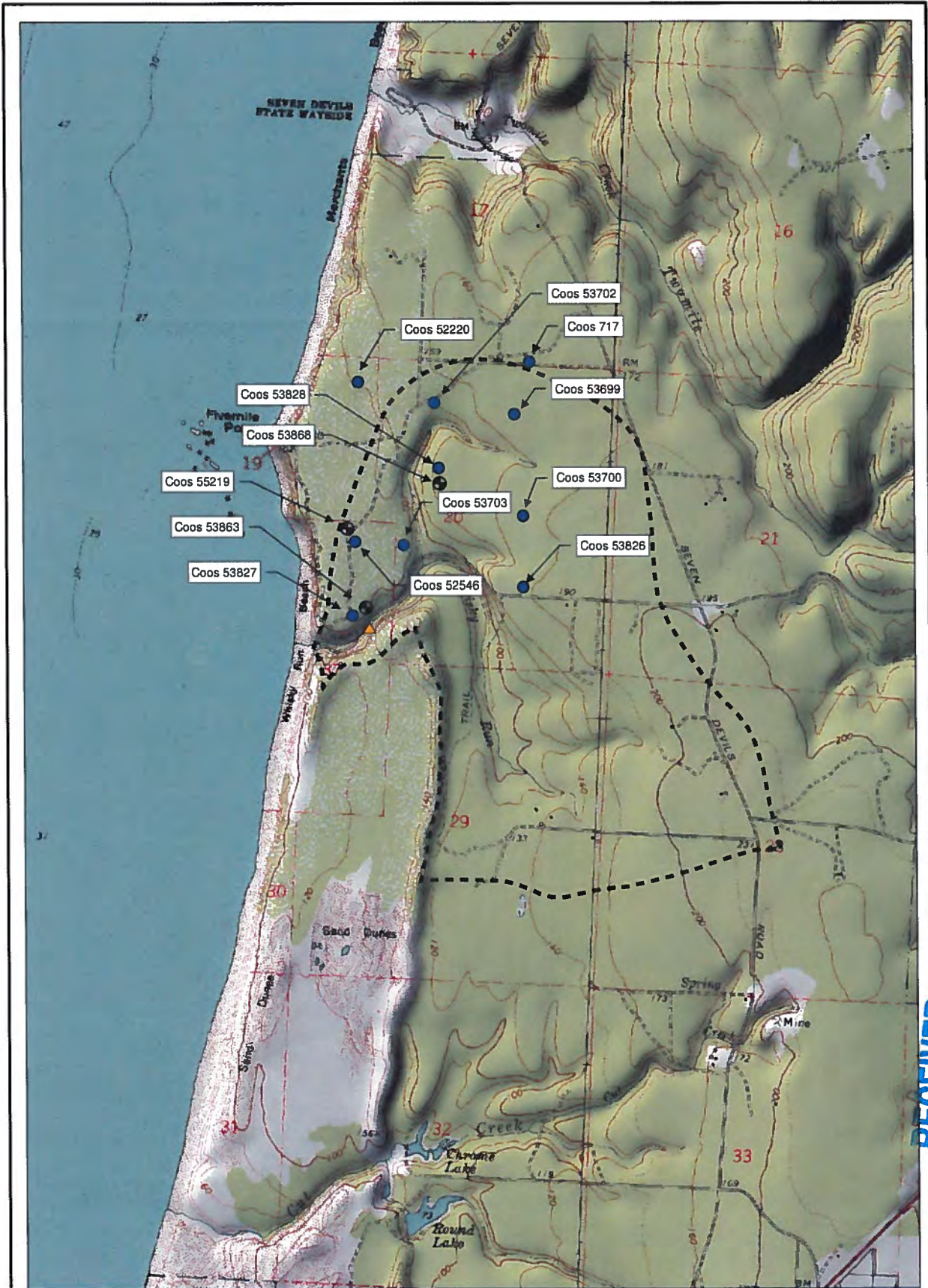
Owner's Well Name	Well Log ID	Well Label	POD ID in Permit G-15437	Well Type	Depth Drilled (feet bgs)	Depth of Completed Well (feet bgs)	Open or Screened Interval (feet bgs)	TRS Location
Irrigation Well	Coos 52219	L51164	Well #1A	Production Well	110	83	66-81	T27S/R14W-20 NW/SW
Northern Piezometer	Coos 52220	-	-	Monitoring Well	78	35	34.5-35	T27S/R14W-20 NW/NW
Irrigation Well Piezometer	Coos 52546	-	-	Monitoring Well	75	75	60-75	T27S/R14W-20 NW/SW
Tokyo Lane Well	Coos 717	-	-	Domestic Well (Monitored)	47	47	27-47	T27S/R14W-17 SW/NE
Piezometer P-1	Coos 53702	L80268	-	Monitoring Well	65	65	36-46	T27S/R14W-20 NE/NW
Piezometer P-2	Coos 53699	L80259	-	Monitoring Well	55	55	40-45	T27S/R14W-20 NE/NW
Piezometer P-3	Coos 53700	L80266	-	Monitoring Well	65	53	43-53	T27S/R14W-20 SE/NW
Piezometer P-4	Coos 53703	L80265	-	Monitoring Well	73	72.6	54-64	T27S/R14W-20 NW/SW
Piezometer P-5	Coos 53827	L81703	-	Monitoring Well	75	75	65-75	T27S/R14W-20 SW/SW
Piezometer P-6	Coos 53828	L81702	-	Monitoring Well	71	62.58	52.58-62.58	T27S/R14W-20 SE/NW
Piezometer P-7	Coos 53826	L81704	-	Monitoring Well	55	49.66	39.66-49.66	T27S/R14W-20 NW/SE
Irrigation Well 5	Coos 53863	L81722	-	Monitoring Well	76	75	62.5-72.5	T27S/R14W-20 SW/SW
Irrigation Well 6	Coos 53868	L81718	Well #2B	Production Well	70	65	52.5-62.6	T27S/R14W-20 SE/NW



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**WATER RESOURCES DEPT
SALEM, OREGON**



LEGEND

- Watershed Boundary
 - Stream Gaging Station
 - Private/Domestic Well or Piezometer
 - Irrigation Well
- (See Appendix A for well logs)

0 1500
 Scale 1" = 1500 Feet
 Map Projection:
 Oregon State Plane, NAD 83,
 South Zone, Feet
 Source: Regional Ecosystem
 Organization

Site Map With Measurement Locations			
BALLY BSR/GROUNDWATER SERVICES/OR			
Drawn: SJG	Revision: 5	Dec. 03, 2007	Figure: 1

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 WATER RESOURCES DEPT
 SALFEM OREGON

APR 30 2012

COOS 52219

JAN 10 2002

27-14-20

STATE OF OREGON WATER RESOURCES DEPT
WATER SUPPLY WELL REPORT
(as required by ORS 537.765)

WATER RESOURCES DEPT.
SALEM, OREGON

WELL I.D. # L 51164
START CARD # 123874

Instructions for completing this report are on the last page of this form.

(1) OWNER: Well Number 808
Name Billy Bandon Sheep Ranch
Address PO Box 1756
City Bandon State OR Zip 97411

(2) TYPE OF WORK
 New Well Deepening Alteration (repair/recondition) Abandonment

(3) DRILL METHOD:
 Rotary Air Rotary Mud Cable Auger
 Other

(4) PROPOSED USE:
 Domestic Community Industrial Irrigation
 Thermal Injection Livestock Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval Yes No Depth of Completed Well 89 ft.
Explosives used Yes No Type _____ Amount _____

HOLE SEAL

Diameter	From	To	Material	From	To	Sacks or pounds
14"	0	20	Bentonite	0	35	40 5x
12 1/4"	20	89	Cement	90	110	3 5x

How was seal placed: Method A B C D E
 Other Bentonite placed from surface Cement
Backfill placed from _____ ft. to _____ ft. Material _____
Gravel placed from 35 ft. to 89 ft. Size of gravel 6/9

(6) CASING/LINER:

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
8"	+1	66	5470	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8"	81	89	5470	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10"	+1/4	4'	1250	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(Protective Casing)

Liner:

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Final location of shoe(s)

(7) PERFORATIONS/SCREENS:

Perforations Method Attached to Casing
 Screens Type Johnson Wire Material 55

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
66'	81'	1070		8"	Pipe	<input type="checkbox"/>	<input type="checkbox"/>

(8) WELL TESTS: Minimum testing time is 1 hour

Yield gal/min	Drawdown	Drill stem at	Flowing Artesian Time
73	9'	89	1 hr.
100'	14	89	2 hrs

Temperature of water 52° Depth Artesian Flow Found _____
Was a water analysis done? Yes By whom BW+S
Did any strata contain water not suitable for intended use? Too little
 Salty Muddy Odor Colored Other _____
Depth of strata: _____

Bandon Well & Septic Co., Inc.

(9) LOCATION OF WELL by legal description:
County Coos Latitude _____ Longitude _____
Township 27 N or S / Range 14 E or W. WM.
Section 20 NW 1/4 SW: 1/4
Tax Lot 400 Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) Whiskey Run Rd.
Bandon

(10) STATIC WATER LEVEL:
56' ft. below land surface. Date 12/20/01
Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:
Depth at which water was first found 56'

From	To	Estimated Flow Rate	SWL
56	83	100	56

Specific Cap 8.1 gal / FT of DP

(12) WELL LOG:
Ground Elevation +/- 100'

Material	From	To	SWL
Topsoil	0	2	
Sandy Clay brown	2	8	
Sandy Clay tan	8	10	
Sand Fine brown	10	25	
Sandy Clay tan white	25	26	
Sand Fine-med brown	26	60	
Sand Fine-Ces w/ gravel	60	64	
Fine gray brown (loss circulation)			
Gravel Ces-Fine w/ sand	64	70	
Fine-Ces brown (loss circulation)			
Gravel med-Fine w/ sand	70	80	
Ces-Fine Gray brown			
Sandy Clay Gray	80	82	
Wood	82	83	
Claystone Gray	83	110	

Date started 11/21/01 Completed 12/20/01

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

Signed Chad Keasing WWC Number 1759 Date 1/4/02

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.

Signed Jim Mack WWC Number 1493 Date 1/7/02

STATE OF OREGON
GEOTECHNICAL HOLE REPORT
 (as required by OAR 690-240-035)

Coos
 52220

(Pg 1)

(1) OWNER/PROJECT: Hole Number 810
 Name Bally Brandon Sheep Ranch
 Address PO Box 1756
 City Brandon State OR Zip 97411

(2) TYPE OF WORK
 New Deepening Alteration (repair/recondition) Abandonment

(3) CONSTRUCTION:
 Rotary Air Hand Auger Hollow Stem Auger
 Rotary Mud Cable Tool Push Probe Other

(4) TYPE OF HOLE:
 Uncased Temporary Cased Permanent
 Uncased Permanent Slope Stability Other

(5) USE OF HOLE: Formation Samples

(6) BORE HOLE CONSTRUCTION:

Special Construction approval Yes No Depth of Completed Hole 78' ft.

HOLE			SEAL			Sacks or pounds
Diameter	From	To	Material	From	To	
6"	0	78	Cement	0	78	25x
			Bentonite	0	35	185x

Backfill placed from _____ ft. to _____ ft. Material _____
 Filter Pack placed from _____ ft. to _____ ft. Size of pack _____

(7) CASING/SCREEN:

	Diameter	From	To	Gauge				
					Steel	Plastic	Welded	Threaded
Casing:	2"	+1	35	5x40	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Screen:					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Slot size _____

(8) WELL TEST:

Pump Bailor Air Flowing Artesian
 Permeability _____ Yield _____ GPM _____
 Conductivity _____ PH _____
 Temperature of water _____ °F/C Depth artesian flow found _____ ft.
 Was water analysis done? Yes No
 By whom? _____
 Depth of strata analyzed. From _____ ft. to _____ ft.
 Remarks: _____

(9) LOCATION OF HOLE by legal description:

County Coos Latitude _____ Longitude _____
 Township 27 N or S Range 14 E or W. W.M.
 Section 20 1/4 1/4 1/4 1/4
 Tax Lot 100 Lot _____ Block _____ Subdivision _____
 Street Address of Well (or nearest address) Whiskey Run Rd, Brandon

Map with location identified must be attached

(10) STATIC WATER LEVEL:

30'5" ft. below land surface. Date 12/21/01
 Artesian pressure _____ lb. per square inch. Date _____

(11) SUBSURFACE LOG:

Ground Elevation +1-100'

Material Description	From	To	SWL
Topsoil	0	1	
Sand Fine brown	1	3	
Sand Fine Tan	3	12	
Clay brown	12	14	
Sandy Clay Tan	14	15	
Sand Fine Tan	15	18	
Sandy Clay white	18	20	
Sand Fine Tan	20	30	

Continued on Page #2

Date Started 11/29/01 Date Completed 12/21/01

(12) ABANDONMENT LOG:

Material Description	From	To	Sacks or Pounds

Date started _____ Date Completed _____

Professional Certification

(to be signed by a licensed water supply or monitoring well constructor, or Oregon registered geologist or civil engineer).

I accept responsibility for the construction, alteration, or abandonment work performed during the construction dates reported above. All work performed during this time is in compliance with Oregon's geotechnical hole construction standards. This report is true to the best of my knowledge and belief.

License or Registration Number 1493

Signed Jim Mack Sr mawc Date 1/7/02

Affiliation Brandon Well & Septic Co inc

THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

ORIGINAL - WATER RESOURCES DEPARTMENT FIRST COPY - CONSTRUCTOR SECOND COPY - CUSTOMER

STATE OF OREGON
GEOTECHNICAL HOLE REPORT
 (as required by OAR 690-240-035)

(Pg 2)

COOS
52220

(1) OWNER/PROJECT: Hole Number 810
 Name Billy Bonden Sheep Ranch
 Address PO Box 1756
 City Bandon State OR Zip 97411

(2) TYPE OF WORK
 New Deepening Alteration (repair/recondition) Abandonment

(3) CONSTRUCTION:
 Rotary Air Hand Auger Hollow Stem Auger
 Rotary Mud Cable Tool Push Probe Other

(4) TYPE OF HOLE:
 Uncased Temporary Cased Permanent
 Uncased Permanent Slope Stability Other

(5) USE OF HOLE:

(6) BORE HOLE CONSTRUCTION:
 Special Construction approval Yes No Depth of Completed Hole _____ ft.

HOLE			SEAL			Sacks or pounds
Diameter	From	To	Material	From	To	

Backfill placed from _____ ft. to _____ ft. Material _____
 Filter Pack placed from _____ ft. to _____ ft. Size of pack _____

(7) CASING/SCREEN:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Screen:					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Slot size _____

(8) WELL TEST:
 Pump Bailer Air Flowing Artesian
 Permeability _____ Yield _____ GPM _____
 Conductivity _____ PH _____
 Temperature of water _____ °F/C Depth artesian flow found _____ ft.
 Was water analysis done? Yes No
 By whom? _____
 Depth of strata analyzed. From _____ ft. to _____ ft.
 Remarks: _____

(9) LOCATION OF HOLE by legal description:
 County Coos Latitude _____ Longitude _____
 Township d7 N or S Range 14 E or W W.M.
 Section 20 NW 1/4 NW 1/4
 Tax Lot 100 Lot _____ Block _____ Subdivision _____
 Street Address of Well (or nearest address) Whiskey Run Rd
Bandon

Map with location identified must be attached

(10) STATIC WATER LEVEL:
 _____ ft. below land surface. Date _____
 Artesian pressure _____ lb. per square inch. Date _____

(11) SUBSURFACE LOG:
 Ground Elevation _____

Material Description	From	To	SWL
Sand Fine-med Tan	30	37	
Sandy Clay brn w/sand Fine	37	45	
px. 4 brown	45	46	
wood w/sand Fine brown	46	48	
Sand Fine-med tan	48	53	
Gravel med-ers Brn Red w/sand	53	60	
Sand Fine w/Gravel Fine-ers Gravel	60	65	
Sandy Clay Gray	65	66	
Claystone Gray	66	78	

Date Started 11/29/01 Date Completed 12/21/01

(12) ABANDONMENT LOG:

Material Description	From	To	Sacks or Pounds

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 JAN 10 2002
 WATER RESOURCES DEPT.
 SALEM, OREGON

Date started _____ Date Completed _____

Professional Certification

(to be signed by a licensed water supply or monitoring well constructor, or Oregon registered geologist or civil engineer).

I accept responsibility for the construction, alteration, or abandonment work performed during the construction dates reported above. All work performed during this time is in compliance with Oregon's geotechnical hole construction standards. This report is true to the best of my knowledge and belief.

License or Registration Number 1493

Signed Jim Muckler, M.G.W.C. Date 1/07/02

Affiliation Bandon Well + Septic Co. Inc.

THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

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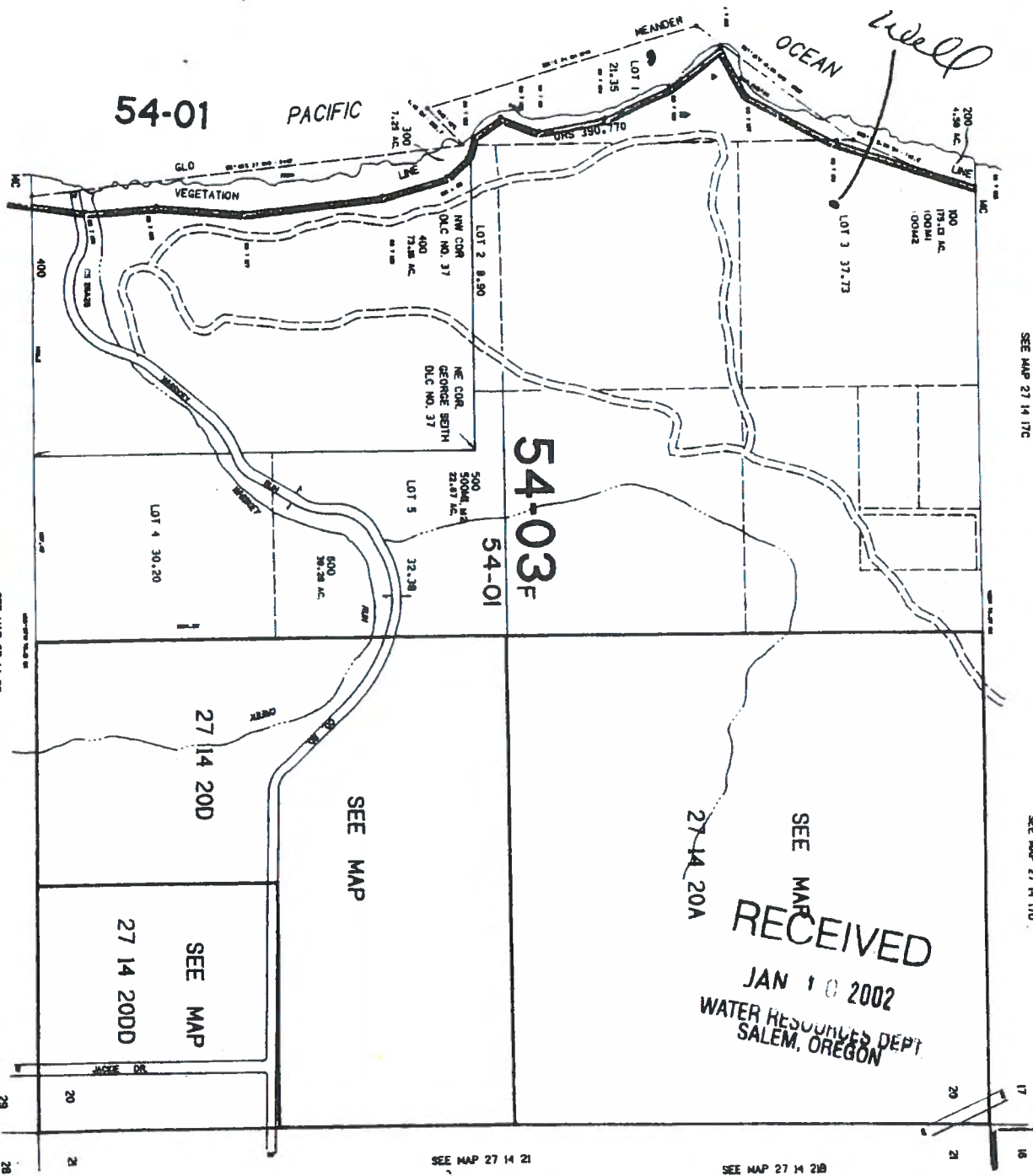
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 SALEM, OREGON

27-14-20
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CONTROL LAYOUT TRACED CHECKED

CHANGES UPDATED AS OF MAR 16 1995



THIS MAP WAS PREPARED FOR ASSESSMENT PURPOSE ONLY.

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COOS COUNTY
T-400

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SALEM, OREGON

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WATER RESOURCES DEPT
SALEM, OREGON

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STATE OF OREGON
GEOTECHNICAL HOLE REPORT
(as required by OAR 690-240-035)

OCT 11 2002

WATER RESOURCES DEPT.
SALEM, OREGON

COOS
52546

07-14-20 NW SW

(1) OWNER/PROJECT: Hole Number 856

Name Billy Bandon Sheep Ranch

Address PO BOX 1756

City Bandon State OR Zip 97411

(2) TYPE OF WORK

New Deepening Alteration (repair/recondition) Abandonment

(3) CONSTRUCTION:

Rotary Air Hand Auger Hollow Stem Auger

Rotary Mud Cable Tool Push Probe Other

(4) TYPE OF HOLE:

Uncased Temporary Cased Permanent

Uncased Permanent Slope Stability Other

(5) USE OF HOLE: Piezometer

(9) LOCATION OF HOLE by legal description:

County COOS Latitude _____ Longitude _____

Township d7 N or S Range 14 E or W W.M.

Section 20 NW 1/4 SW 1/4

Tax Lot 400 Lot _____ Block _____ Subdivision _____

Street Address of Well (or nearest address) Whiskey Run Rd

Bandon

Map with location identified must be attached

(10) STATIC WATER LEVEL:

58'4" ft. below land surface. Date 10/8/02

Artesian pressure _____ lb. per square inch. Date _____

(11) SUBSURFACE LOG:

Ground Elevation +/-300'

Material Description	From	To	SWL
Sandy Topsoil	0	1	
Cemented Sand Brown	1	2	
Sand brown Fine	2	9	
Sandy tan Clay	9	11	
Cemented sand tan	11	15	
Sandy clay white	15	16	
Sand Fine tan	16	19	
Sandy Clay orange	19	20	
Sand tan Fine-med	20	29	

Date Started 10/07/02 Date Completed 10/08/02

(12) SUBSURFACE LOG: Cont.

Material Description	From	To	SWL
Sandy Clay White + orange	29	30	
Gravel Fine w/ Sand Brn	30	36	
Sand Fine-med Tan	36	40	
Sand Fine-Crs w/ Fine gravel	40	61	58'4"
Sand Fine-Crs w/ Gravel Med-Fine	61	65	
Gravel Fine-Crs w/ sand	65	74	
Crs-Fine Gray brn	74	75	
Clay Gray			

Date started 10/6/02 Date Completed 10/08/02

(6) BORE HOLE CONSTRUCTION:

Special Construction approval Yes No Depth of Completed Hole 768'

TOC

HOLE			SEAL			Sacks or pounds
Diameter	From	To	Material	From	To	
6"	0	75	Bentonite	0	40	13

Backfill placed from _____ ft. to _____ ft. Material _____

Filter Pack placed from 40 ft. to 75 ft. Size of pack 10/20

(7) CASING/SCREEN:

	Diameter	From		To		Gauge	Steel	Plastic	Welded	Threaded
		ft.	ft.	ft.	ft.					
Casing:	2"	+1	60	75	40			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Screen:	2"	60	75	40				<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Slot size 1020

(8) WELL TEST:

Pump Bailer Air Flowing Artesian

Permeability _____ Yield _____ GPM 56pm

Conductivity _____ PH _____

Temperature of water 53° °F/C Depth artesian flow found _____ ft.

Was water analysis done? Yes No

By whom? _____

Depth of strata analyzed. From _____ ft. to _____ ft.

Remarks: _____

Professional Certification

(to be signed by a licensed water supply or monitoring well constructor, or Oregon registered geologist or civil engineer).

I accept responsibility for the construction, alteration, or abandonment work performed during the construction dates reported above. All work performed during this time is in compliance with Oregon's geotechnical hole construction standards. This report is true to the best of my knowledge and belief.

License or Registration Number 1493

Signed Jim Meek for M6WC Date 10/09/02

Affiliation Bandon Well + Septic Co inc.

THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

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SALEM, OREGON

27-14-20

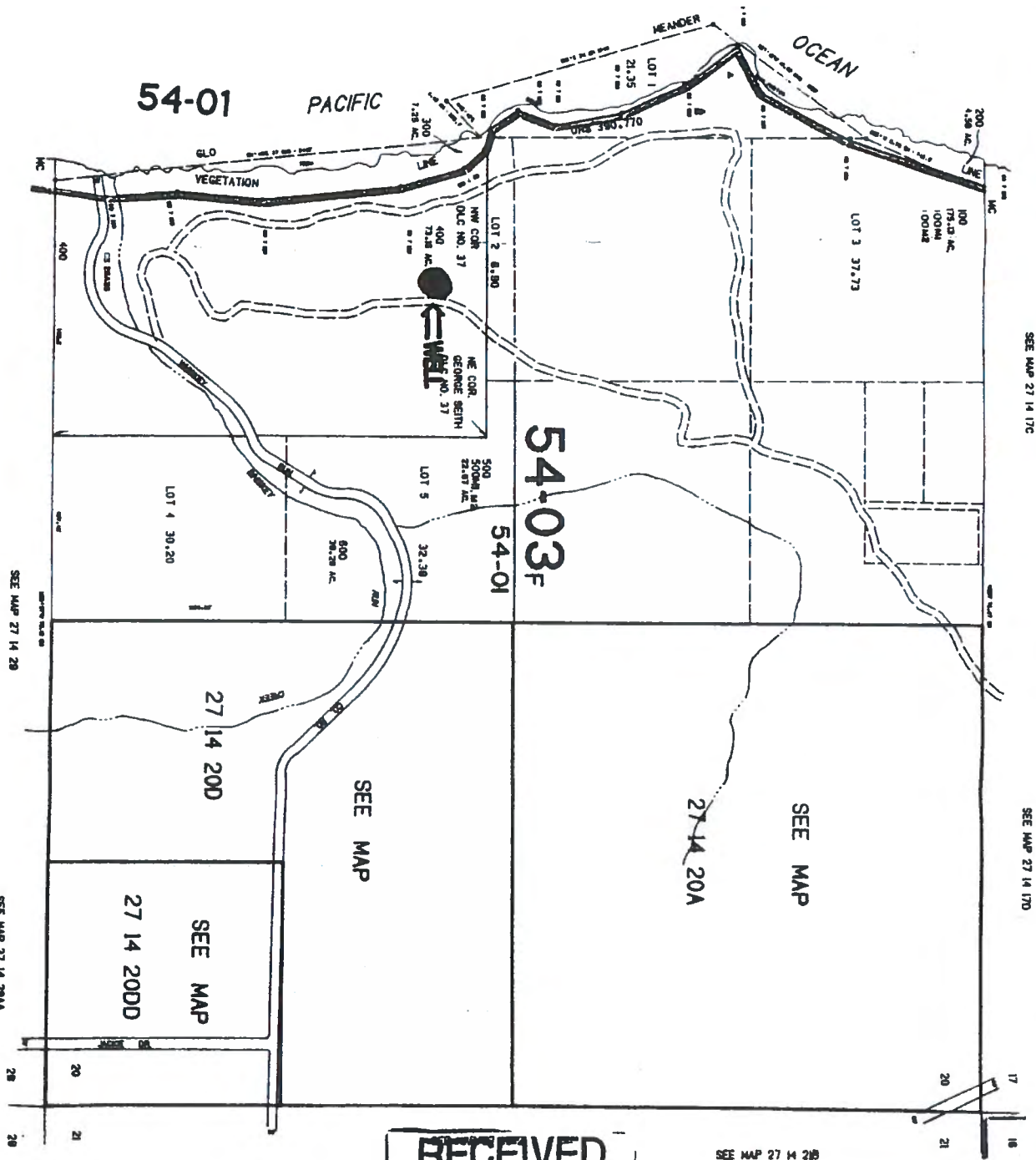
COPY

CONTROL LAYOUT TRACED CHECKED

REDUCED COPY
NOT TO SCALE

CHANGES UPDATED AS OF MAR 16 1995

THIS MAP WAS PREPARED FOR
ASSESSMENT PURPOSE ONLY.



SECTION 20 1, 2/5, R14W, W.M.
COOS COUNTY
T-400

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WATER RESOURCES DEPT
SALEM, OREGON

RECEIVED
APR 30 2012

**WATER RESOURCES DEPT
SALEM, OREGON**

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COOS
717

27S/14W/17E
48138

STATE OF OREGON
WATER WELL REPORT
(as required by ORS 537.765)

MAY 10 1993

WATER RESOURCES DEPT.

(START CARD) #

(1) OWNER:

Name Linda Roth
Address P.O. Box 1619
City Bandon State OR Zip 97411

SALEM, OREGON
Well Number _____

(2) TYPE OF WORK:

New Well Deepen Recondition Abandon

(3) DRILL METHOD:

Rotary Air Rotary Mud Cable
 Other _____

(4) PROPOSED USE:

Domestic Community Industrial Irrigation
 Thermal Injection Other _____

(5) BORE HOLE CONSTRUCTION:

Special Construction approval Yes No Depth of Completed Well 47 ft.
Explosives used Yes No Type _____ Amount _____

HOLE			SEAL			Amount sacks or pounds
Diameter	From	To	Material	From	To	
9	0	20	Cement	20	0	6
7	20	47				

How was seal placed: Method A B C D E
 Other _____

Backfill placed from _____ ft. to _____ ft. Material _____
Gravel placed from 20 ft. to 47 ft. Size of gravel pea gravel

(6) CASING/LINER:

Casing:	Diameter	From	To	Gauge	Material			
					Steel	Plastic	Welded	Threaded
	<u>4 1/2</u>	<u>+2</u>	<u>27</u>	<u>SM26</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Final location of shoe(s) _____

(7) PERFORATIONS/SCREENS:

Perforations Method _____
 Screens Type Hydrophillic Material pvc

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
<u>27</u>	<u>47</u>	<u>10/10</u>		<u>4 1/2</u>	<u>4 1/2</u>	<input type="checkbox"/>	<input type="checkbox"/>

(8) WELL TESTS: Minimum testing time is 1 hour

Pump Bailor Air Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
<u>15</u>		<u>47</u>	<u>1 hr.</u>

Temperature of Water 52° Depth Artesian Flow Found _____
Was a water analysis done? Yes By whom _____
Did any strata contain water not suitable for intended use? Too little
 Salty Muddy Odor Colored Other _____
Depth of strata: _____

(9) LOCATION OF WELL by legal description:

County COOS Latitude _____ Longitude _____
Township 27 N or S Range 14 E or W WM.
Section 17 SW 4 NE 4
Tax Lot 1500 Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) 2303 Tolkyo Rd

(10) STATIC WATER LEVEL:

21 ft. below land surface. Date 4/9/93
Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:

Depth at which water was first found 12'

From	To	Estimated Flow Rate	SWL
<u>24</u>	<u>47</u>	<u>15 gpm</u>	<u>21</u>

(12) WELL LOG:

Ground elevation _____

Material	From	To	SWL
<u>Brown sandy clay</u>	<u>0</u>	<u>24</u>	
<u>Brown sand</u>	<u>24</u>	<u>47</u>	

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WATER RESOURCES DEPT
SALEM, OREGON

Date started 4-7-93 Completed 4/9/93

(unbonded) Water Well Constructor Certification:

I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Material used and information reported above are true to my best knowledge and belief.

WWC Number _____
Signed _____ Date _____

(bonded) Water Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 136
Signed [Signature] Date 5/5/93

STATE OF OREGON
MONITORING WELL REPORT

(as required by ORS 537.765 & OAR 690-240-0395)

WELL LABEL # L 80268

START CARD # 182714

(1) LAND OWNER Owner Well I.D. 1151
First Name Dennis Last Name Olson
Company BANDON BALLY SHEEP RANCH
Address PO Box 1756
City Bandon State OR Zip 97411

(2) TYPE OF WORK New Deepening Conversion
 Alteration (repair/recondition) Abandonment

(3) DRILL METHOD
 Rotary Air Rotary Mud Cable Hollow Stem Auger Cable Mud
 Reverse Rotary Other

(4) CONSTRUCTION Piezometer Well
Depth of Completed Well 65 ft. Special Standard



MONUMENT/VAULT Above Ground
From 1.25 To 4

BORE HOLE
Diameter 6 From 0 To 65

CASING
Dia 2 From 1.25 To 36
Gauge Sch 40 Wid Thrd
Material Steel Plastic

LINER
Dia 2 From 46 To 65
Gauge Sch 40 Wid Thrd
Material Steel Plastic

SEAL
From 0 1.37 To 26 46
Material Bentonite / cement
Amount 12 S Grout weight
1 5x cement

SCREEN
Casing/Liner Casing Material PVC
Diameter 2 From 36 To 46
Slot Size .02

FILTER
From 26 To 37 Material Sand Size of pack 10/20

(5) WELL TESTS

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)
2		50	1

Temperature 53 °F Lab analysis Yes By
Supervising Geologist/Engineer
Water quality concerns? Yes (describe below)
From To Description Amount Units

(6) LOCATION OF WELL (legal description)
County COOS Twp 27 S N/S Range 14 W E/W WM
Sec 20 NE 1/4 of the NW 1/4 Tax Lot 100
Tax Map Number Lot
Lat 0 0 " or DMS or DD
Long 0 0 " or DMS or DD
 Street address of well Nearest address

no#(vacant) off Whiskey Run

(7) STATIC WATER LEVEL

Existing Well / Predeepening Completed Well	Date	SWL(psi)	+ SWL(ft)
	09-15-2006		38.3

WATER BEARING ZONES
Flowing Artesian? Dry Hole?
Depth water was first found

SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(ft)
09-15-2006	38.3	46	2		38.3

(8) WELL LOG Ground Elevation 300

Material	From	To
Cemented sand brown	0	1
Sandy clay brown	1	3
Cemented sand brown	3	7
Sandy clay white	7	8
Cemented sand orange & brown	8	11
Sand fine - coarse w/ gravel fine brown	11	14
Cemented sand orange & brown	14	15
Sand fine-coarse w/gravel fine brown	15	24
Cemented sand brown	24	27
Sandy clay tan w/peat & sand coarse-fine	27	31
Gravel fine w/sand coarse-fine gray	31	38
Peat	38	43
Sand fine-coarse w/gravel fine gray brown	43	46
Peat	46	47
Sandy clay white w/gravel fine-medium gray	47	56
Clay gray	56	60
Claystone gray	60	65

Date Started 09-13-2006 Completed 09-15-2006

(unbonded) Monitor Well Constructor Certification
I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon monitoring well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.
License Number _____ Date _____
Password: (if filing electronically) _____
Signed _____

(bonded) Monitor Well Constructor Certification
I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon monitoring well construction standards. This report is true to the best of my knowledge and belief.
License Number 1493 Date 9/18/06
Password: (if filing electronically) _____
Signed Jim Muehl Sr.
Contact Info (optional) BANDON WELL & PUMP COMPANY (541) 347-7867

WATER RESOURCES DEPT
SALEM, OREGON

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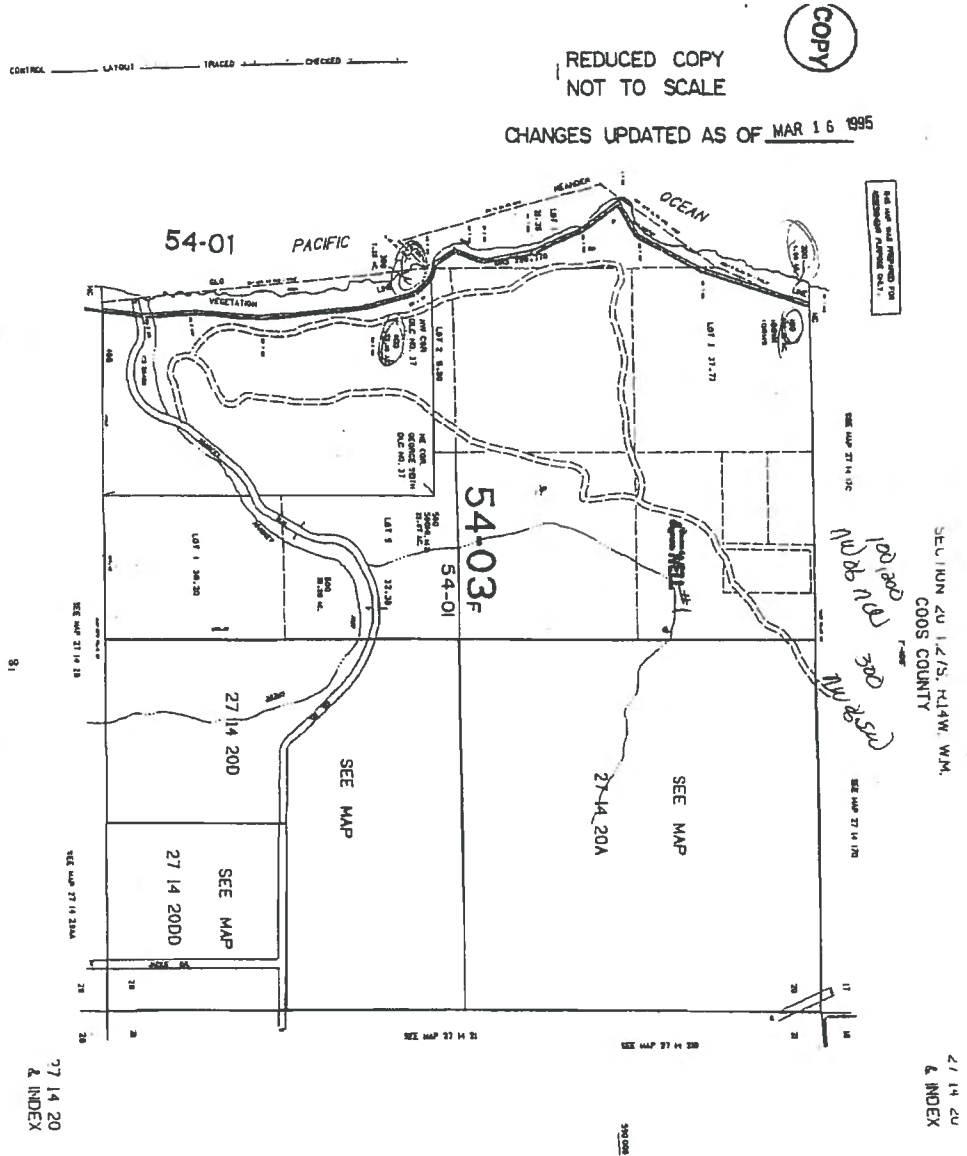
COOS 53702

MONITORING WELL REPORT -
continuation page

WELL I.D. # L 80268

START CARD # 182714

Map of well



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CHANGES UPDATED AS OF MAR 16 1995

SEE MAP AND REVISIONS FOR REVISIONS TO THIS MAP

SECTION 20 1/4 7/5, R14W, W1M,
COOS COUNTY

27 14 20
& INDEX

77 14 20
& INDEX

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SALEM, OREGON

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WATER RESOURCES DEPT
SALEM, OREGON

STATE OF OREGON
MONITORING WELL REPORT

(as required by ORS 537.765 & OAR 690-240-0395)

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WELL LABEL # L 80259

START CARD # 182715

(1) LAND OWNER

Owner Well I.D. # 1152
First Name Dennis Last Name Olson
Company BANDON BALLY SHEEP RANCH
Address PO Box 1756
City Bandon State OR Zip 97411

(2) TYPE OF WORK New Deepening Conversion
 Alteration (repair/recondition) Abandonment

(3) DRILL METHOD

Rotary Air Rotary Mud Cable Hollow Stem Auger Cable Mud
 Reverse Rotary Other

(4) CONSTRUCTION

Depth of Completed Well 55 ft. Special Standard Piezometer Well



MONUMENT/VAULT Above Ground
From 1.3 To 4

BORE HOLE
Diameter 6 From 0 To 55

CASING
Dia. 2 From 1 To 40
Gauge Sch40 Wld Thrd
Material Steel Plastic

LINER
Dia. _____ From _____ To _____
Gauge _____ Wld Thrd
Material Steel Plastic

SEAL
From 0 To 29
Material Bentonite
Amount 11 S Grout weight _____

SCREEN
Casing/Liner Casing Material PVC
Diameter 2 From 40 To 45
Slot Size .020

FILTER
From 29 To 46 Material Sand Size of pack 10/20

(5) WELL TESTS

Pump Bailer Air Flowing Artesian

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)
4		50	1

Temperature 53 °F Lab analysis Yes By _____

Supervising Geologist/Engineer _____

Water quality concerns? Yes (describe below)

From	To	Description	Amount	Units

(6) LOCATION OF WELL (legal description)

County COOS Twp 27 S N/S Range 14 W E/W WM
Sec 20 NE 1/4 of the NW 1/4 Tax Lot 100
Tax Map Number _____ Lot _____
Lat _____ " or _____ DMS or DD
Long _____ " or _____ DMS or DD
 Street address of well Nearest address

no#(vacant) off Whiskey Run, Bandon

(7) STATIC WATER LEVEL

	Date	SWL (psi)	+ SWL (ft)
Existing Well / Predeepening			
Completed Well	<u>09-18-2006</u>		<u>16.6</u>

Flowing Artesian? Dry Hole?

WATER BEARING ZONES Depth water was first found

SWL Date	From	To	Est Flow	SWL (psi)	+ SWL (ft)
<u>09-18-2006</u>	<u>18</u>	<u>45</u>	<u>4</u>		<u>16.6</u>

(8) WELL LOG

Ground Elevation 300

Material	From	To
Sandy clay brown	0	1
Cemented sand brown	1	2
Sand tan fine	2	5
Wood & sand fine tan	5	6
Sand fine tan	6	7
Sand fine-coarse tan	7	8
Sand fine-coarse w/gravel fine brown	8	13
Gravel fine w/sandy clay orange brown	13	17
Peat	17	18
Sand fine-coarse brown	18	23
Sandy clay tan w/peat	23	30
Sand fine-coarse tan	30	34
Sandy clay tan orange w/peat	34	39
Sand fine-coarse w/gravel fine tan	39	40
Sand fine-coarse w/gravel fine-medium tan	40	45
Sandy clay tan orange	45	45.5
Sandy clay white	45.5	46
Clay gray	46	48
Continued on page 2	46	48

Date Started 09-15-2006 Completed 09-18-2006

(unbonded) Monitor Well Constructor Certification

I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon monitoring well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

License Number _____ Date _____
Password : (if filing electronically) _____
Signed _____

(bonded) Monitor Well Constructor Certification

I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon monitoring well construction standards. This report is true to the best of my knowledge and belief.

License Number 1493 Date 9/19/06
Password : (if filing electronically) _____
Signed [Signature]
Contact Info (optional) BANDON WELL & PUMP COMPANY (541) 347-7867

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MONITORING WELL REPORT -
continuation page

WELL I.D. # L 80259

START CARD # 182715

(4) CONSTRUCTION

BORE HOLE

Dia	From	To

FILTER PACK

From	To	Material	Size

SEAL

Material	From	To	Amt	sacks/ lbs	grout weight
Cement	46	55	1.5	S	

(7) STATIC WATER LEVEL

Water Bearing Zones

SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(ft)

CASING/LINER

Casing Liner	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd
	2		45	55	Sch40			X	

SCREENS

Perf/ Screen	Casing/ Liner	Screen Dia	From	To	Scr n size/ slot width	Slot length	# of slots	Tele/ pipe size

(5) WELL TESTS

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)

Water Quality Concerns

From	To	Description	Amount	Units

(8) WELL LOG

Material	From	To
Claystone gray	48	52
Sandstone gray	52	53
Claystone gray	53	55

Comments/Remarks

Well drilled by Bandon Well & Pump Co.
(541) 347-7867

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SALEM, OREGON

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MONITORING WELL REPORT -

Map with location identified must be attached and shall include an approximate scale and north arrow

WELL I.D. # L 80259

START CARD # 182715

Map of well

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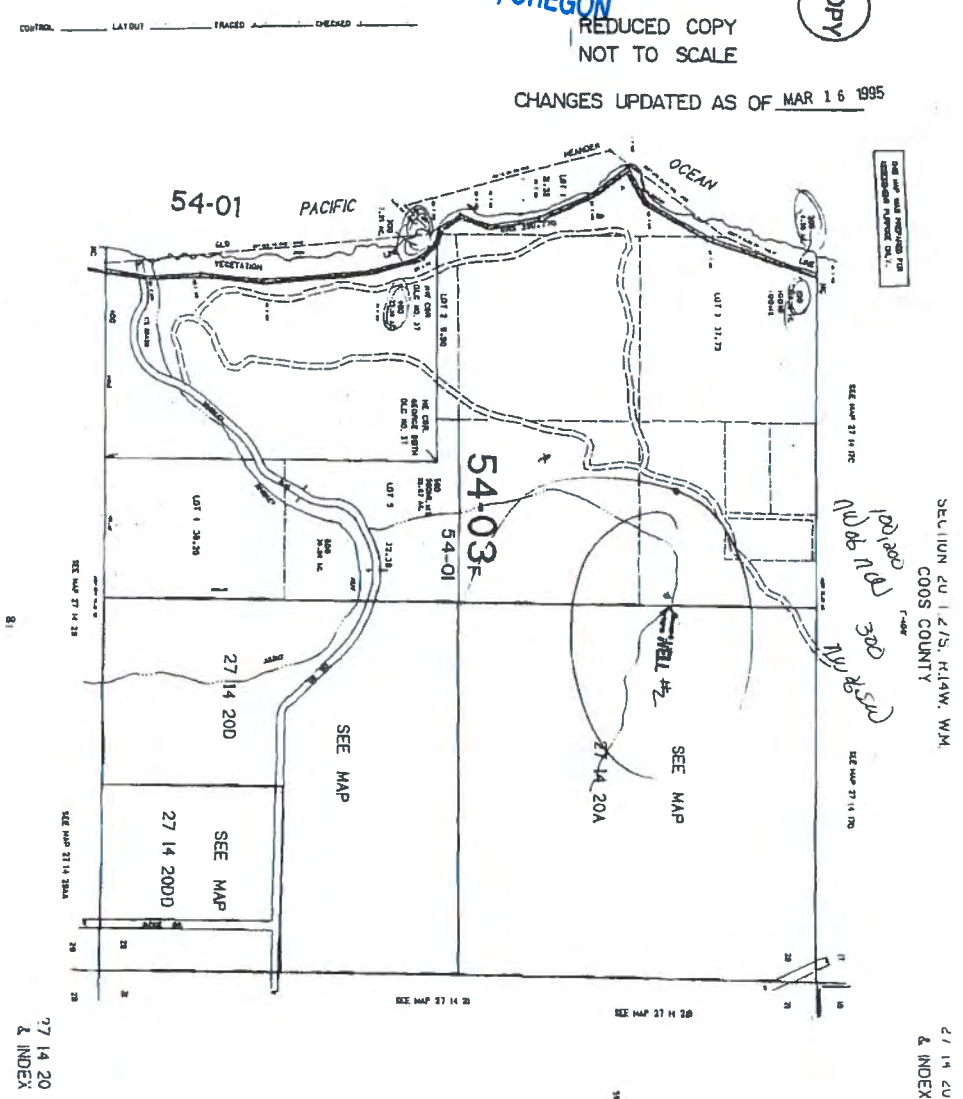
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SALEM, OREGON

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SALEM, OREGON

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STATE OF OREGON
MONITORING WELL REPORT
(as required by ORS 537.765 & OAR 690-240-0395)

WELL LABEL # L 80266

WATER RESOURCES DEPT
SALEM, OREGON

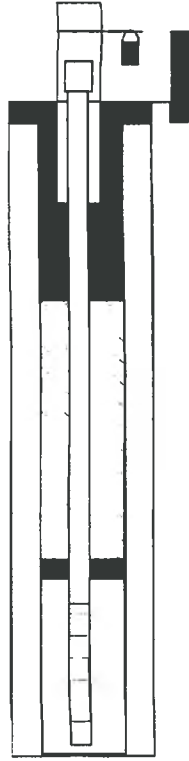
START CARD # 182716

(1) LAND OWNER Owner Well I.D. 1153
First Name Dennis Last Name Olson
Company BALLY BANDON SHEEP RANCH
Address PO Box 1756
City Bandon State OR Zip 97411

(2) TYPE OF WORK New Deepening Conversion
 Alteration (repair/recondition) Abandonment

(3) DRILL METHOD
 Rotary Air Rotary Mud Cable Hollow Stem Auger Cable Mud
 Reverse Rotary Other

(4) CONSTRUCTION Piezometer Well
Depth of Completed Well 63.08 ft. Special Standard



MONUMENT/VAULT Above Ground
From 1.3 To 4

BORE HOLE
Diameter 6 From 0 To 65

CASING
Dia. 2 From 1 To 43
Gauge Sch40 Wld Thrd
Material Steel Plastic

LINER
Dia. From To
Gauge Wld Thrd
Material Steel Plastic

SEAL
From 0 To 30
Material Bentonite
Amount 12 S Grout weight

SCREEN
Casing/Liner Casing Material PVC
Diameter 2 From 43 To 53
Slot Size .020

FILTER
From 30 To 54 Material Sand Size of pack 10/20

(5) WELL TESTS
 Pump Bailer Air Flowing Artesian
Yield gal/min Drawdown Drill stem/Pump depth Duration (hr)
3 60

Temperature 53 °F Lab analysis Yes By

Supervising Geologist/Engineer

Water quality concerns? Yes (describe below)
From To D Amount Units
SEP 21 2006

(6) LOCATION OF WELL (legal description)
County COOS Twp 27 S N/S Range 14 W E/W WM
Sec 20 SE 1/4 of the NW 1/4 Tax Lot 100
Tax Map Number Lot
Lat ° 0 ' " or DMS or DD
Long ° 0 ' " or DMS or DD
 Street address of well Nearest address

no#(vacant)Whiskey Run, Bandon

(7) STATIC WATER LEVEL
Date SWL(psi) + SWL(ft)
Existing Well / Predeepening
Completed Well 09-19-2006 32.6
Flowing Artesian? Dry Hole?

WATER BEARING ZONES
Depth water was first found 32.6

SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(ft)
09-19-2006	32.6	53.5	3		32.6

(8) WELL LOG Ground Elevation 300

Material	From	To
Cemented sand w/sand fine tan	0	4
Sand fine tan	4	9
Sandy clay tan w/gravel fine	9	10
Sand fine-coarse tan	10	16
Sand fine-coarse w/gravel fine tan	16	17
Sandy clay tan	17	18
Sand fine-coarse w/gravel fine tan	18	21
Sandy clay tan/orange w/peat	21	25
Sand fine-coarse w/gravel fine brown	25	38
Sandy clay tan/orange w/peat	38	41
Sand fine-coarse w/gravel f-m & cemented sand balls	41	45
Sand fine-coarse w/gravel fine tan	45	53
Gravel fine-medium w/sand fine-coarse tan	53	53.5
Sandy clay tan/orange	53.5	54
Clay tan & orange	54	56
Clay gray	56	57
Claystone gray	57	65

Date Started 09-18-2006 Completed 09-19-2006

(unbonded) Monitor Well Constructor Certification
I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon monitoring well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

License Number Date
Password : (if filing electronically)
Signed

(bonded) Monitor Well Constructor Certification
I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon monitoring well construction standards. This report is true to the best of my knowledge and belief.

License Number 1493 Date 9/20/06
Password : (if filing electronically)
Signed Jim Meckel Mewe
Contact Info (optional) BANDON WELL & PUMP COMPANY (541) 347-7867

COOS 53700

MONITORING WELL REPORT - continuation page

WELL I.D. # L 80266

START CARD # 182716

(4) CONSTRUCTION

BORE HOLE

Dia	From	To

FILTER PACK

From	To	Material	Size

SEAL

Material	From	To	Amt	sacks/ lbs	grout weight
Cement	54	65	1.5	S	

CASING/LINER

Casing Liner	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd
<input checked="" type="checkbox"/> <input type="checkbox"/>	2	<input type="checkbox"/>	53	63	Sch40	<input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> <input type="checkbox"/>		<input type="checkbox"/>				<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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<input type="checkbox"/> <input type="checkbox"/>		<input type="checkbox"/>				<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SCREENS

Perf/ Screen Liner	Casing/ Screen Dia	From	To	Scrn size/ slot width	Slot length	# of slots	Tele/ pipe size

(5) WELL TESTS

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)

Water Quality Concerns

From	To	Description	Amount	Units

(7) STATIC WATER LEVEL

Water Bearing Zones

SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(ft)

(8) WELL LOG

Material	From	To

Comments/Remarks

Well Drilled By
Bandon Well & Pump Co
(541) 347-7867

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WATER RESOURCES DEPT
SALEM, OREGON

COOS 53700

MONITORING WELL REPORT -
continuation page

WELL I.D. # L 80266

START CARD # 182716

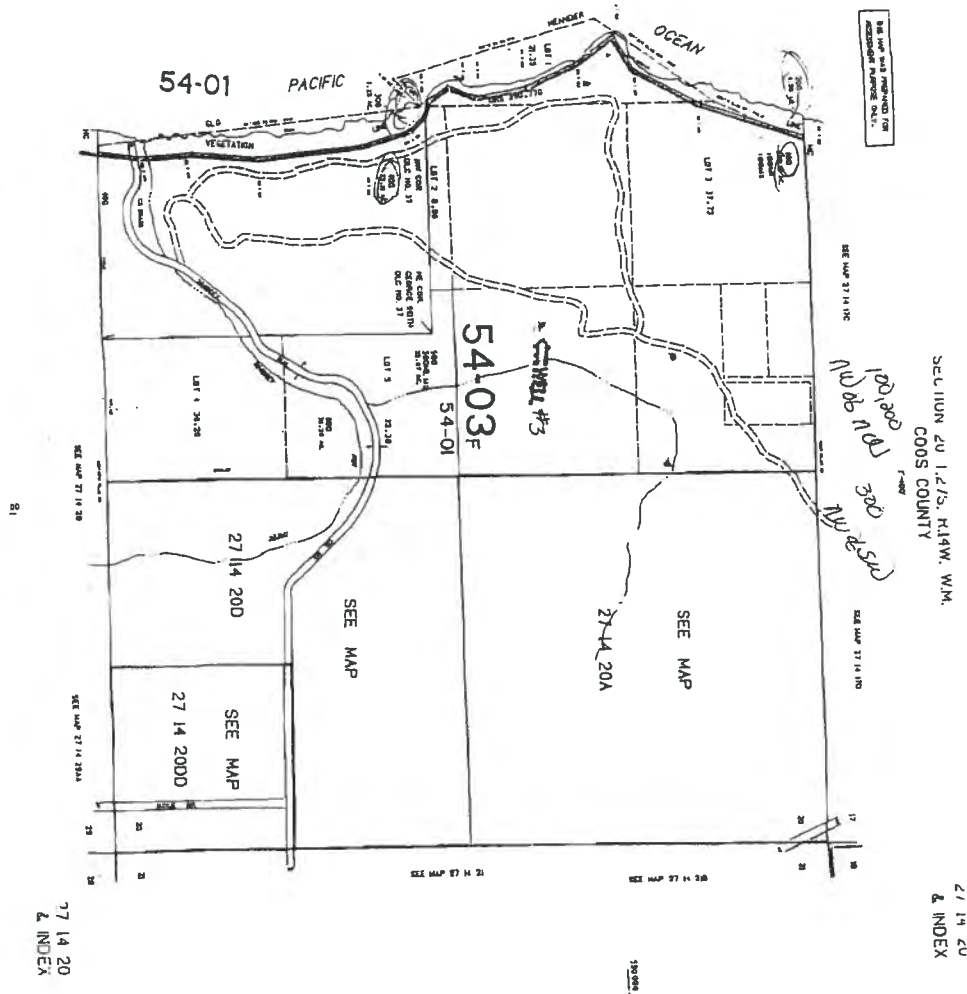
Map of well

CONTROL LAYOUT TRACED CHECKED

REDUCED COPY
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CHANGES UPDATED AS OF MAR 16 1995



SECTION 20 1, 2, 3, HIGH, W.M.
COOS COUNTY

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& INDEX

77 14 20
& INDEX

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WATER RESOURCES DEPT
SALEM, OREGON

STATE OF OREGON
MONITORING WELL REPORT

(as required by ORS 537.765 & OAR 690-240-0395)

WELL LABEL # L 80265

START CARD # 182719

(1) LAND OWNER Owner Well I.D. 1154
 First Name Dennis Last Name Olson
 Company BALLY BANDON SHEEP RANCH
 Address PO Box 1756
 City Bandon State OR Zip 97411

(2) TYPE OF WORK New Deepening Conversion
 Alteration (repair/recondition) Abandonment

(3) DRILL METHOD
 Rotary Air Rotary Mud Cable Hollow Stem Auger Cable Mud
 Reverse Rotary Other

(4) CONSTRUCTION Piezometer Well
 Depth of Completed Well 72.6 ft. Special Standard



MONUMENT/VAULT Above Ground
 From 1.3 To 4

BORE HOLE
 Diameter 6 From 0 To 73

CASING
 Dia. 2 From 1 To 54.4
 Gauge Sch40 Wld Thrd
 Material Steel Plastic

LINER
 Dia. _____ From _____ To _____
 Gauge _____ Wld Thrd
 Material Steel Plastic

SEAL
 From 0 To 41
 Material Bentonite
 Amount 15 S Grout weight _____

SCREEN
 Casing/Liner Casing _____ Material PVC
 Diameter 2 From 54.4 To 64
 Slot Size .020

FILTER
 From 41 To 65 Material Sand Size of pack 10/20

(5) WELL TESTS

<input type="radio"/> Pump	<input type="radio"/> Bailer	<input checked="" type="radio"/> Air	<input type="radio"/> Flowing Artesian
Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)
		72	1

Temperature 53 °F Lab analysis Yes By _____
 Supervising Geologist/Engineer _____

Water quality concerns? Yes (describe below)

From	To	Description	Amount	Units

(6) LOCATION OF WELL (legal description)
 County COOS Twp 27 S N/S Range 14 W E/W WM
 Sec 20 NW 1/4 of the SW 1/4 Tax Lot 400
 Tax Map Number _____ Lot _____
 Lat _____ ° 0 ' _____ " or _____ DMS or DD
 Long _____ ° 0 ' _____ " or _____ DMS or DD
 Street address of well Nearest address

off Whiskey Run Road no#vacant

(7) STATIC WATER LEVEL

Existing Well / Predeepening	Date	SWL(psi)	+ SWL(ft)
Completed Well	09-21-2006		51.4

Flowing Artesian? Dry Hole?
 WATER BEARING ZONES Depth water was first found 51.4

SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(ft)
09-21-2006	51.4	68	20		51.4

(8) WELL LOG Ground Elevation 200

Material	From	To
Sandy clay brown	0	1
Cemented sand brown	1	7
Sandy clay tan	7	7.5
Cemented sand brown	7.5	9
Sand tan fine	9	11
Sandy clay white	11	12
Sandy clay tan/orange	12	13
Sand fine tan	13	21
Sandy clay white	21	22
Sand fine-coarse brown	22	29
Sandy clay tan/orange	29	30
Sand fine-coarse w/gravel fine brown	30	35
Sandy clay orange	35	36
Sand fine-coarse w/gravel fine brown	36	43
Sandy clay tan	43	44
Sand fine-coarse w/gravel finebrown	44	46
Cemented sand red	46	48
Sand fine-coarse w/gravel fine brown	48	53
Continued on page 2	48	53

Date Started 09-20-2006 Completed 09-21-2006

(unbonded) Monitor Well Constructor Certification
 I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon monitoring well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

License Number _____ Date _____
 Password : (if filing electronically) _____
 Signed _____

(bonded) Monitor Well Constructor Certification
 I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon monitoring well construction standards. This report is true to the best of my knowledge and belief.

License Number 1493 Date 9/22/06
 Password : (if filing electronically) _____
 Signed [Signature]
 Contact Info (optional) BANDON WELL & PUMP COMPANY (541) 347-7867

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MONITORING WELL REPORT -
continuation page

WELL I.D. # L 80265

START CARD # 182719

(4) CONSTRUCTION

BORE HOLE			FILTER PACK			
Dia	From	To	From	To	Material	Size

SEAL					
Material	From	To	Amt	sacks/ lbs	grout weight
Cement	66	73	1	S	

CASING/LINER

Casing Liner	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd
<input checked="" type="checkbox"/>	2	<input type="checkbox"/>	65	72.6	Sch40	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

SCREENS

Perf/ Screen	Casing/ Liner	Screen Dia	From	To	Scrn size/ slot width	Slot length	# of slots	Tele/ pipe size

(5) WELL TESTS

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)

Water Quality Concerns

From	To	Description	Amount	Units

(7) STATIC WATER LEVEL

Water Bearing Zones

SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(ft)

(8) WELL LOG

Material	From	To
Gravel fine-medium w/sand fine-coarse multi-colored	53	64
Clay brown	64	64.5
Sandy clay gray	64.5	66
Wood w/gravel & sandy clay gray (Loss circulation)	66	68
Sandstone gray	68	71
Claystone gray	71	73

Comments/Remarks

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SALEM, OREGON

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WATER RESOURCES DEPT
SALEM, OREGON

Well drilled by:
BANDON WELL & PUMP COMPANY
(541) 347-7867

WATER RESOURCES DEPT
SALEM, OREGON

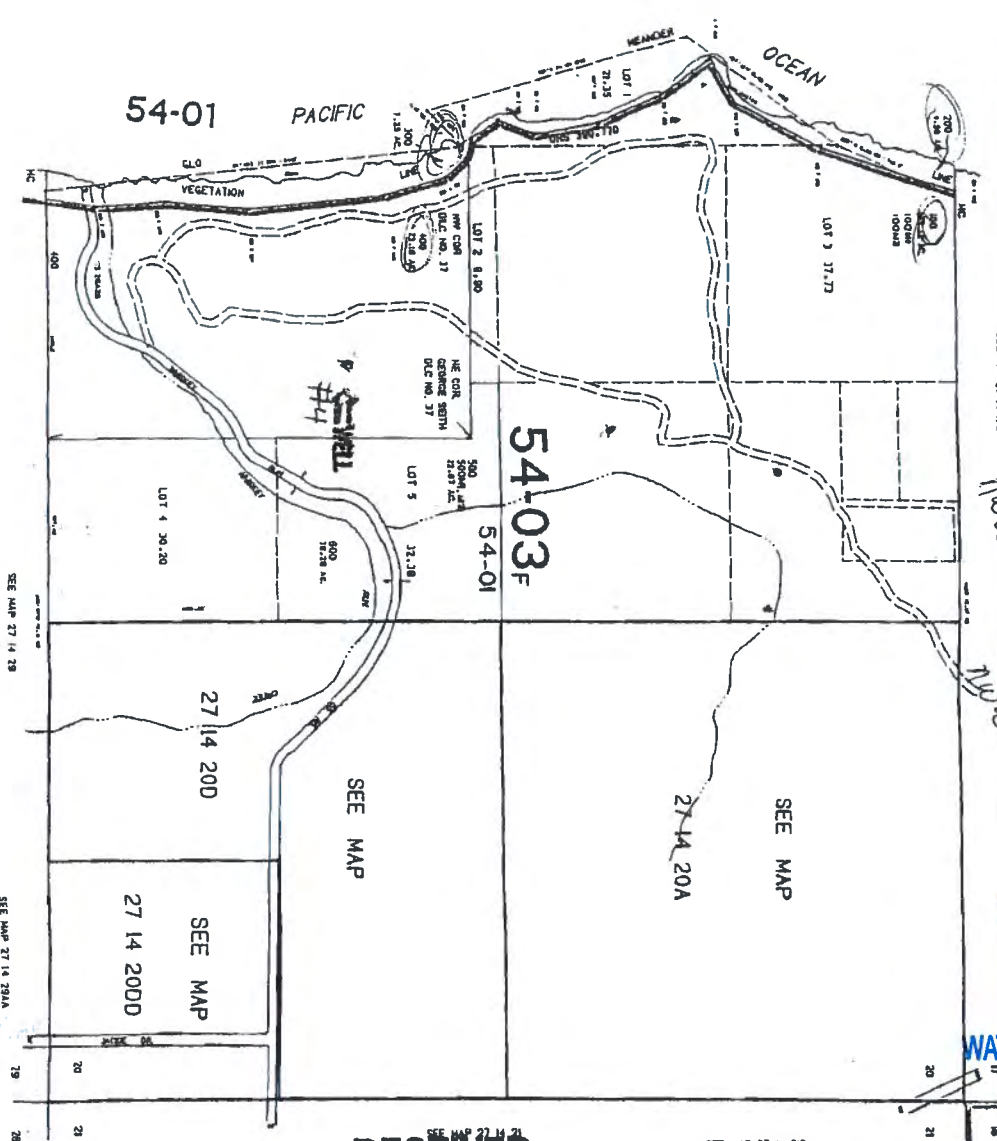
Map of well

CONTR. LAYOUT TRACED CHECKED

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27-14-20
COPY

CHANGES UPDATED AS OF MAR 16 1995



THIS MAP WAS PREPARED FOR
ACCESSION NUMBER 0411

SECTION 20 1 & 1/2 S. R14W. W.M.
COOS COUNTY
10/1/2000
27-14-200
300
27-14-200A

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WATER RESOURCES DEPT
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WATER RESOURCES DEPT
SALEM, OREGON

27 14 20
& INDEX

27 14 20
& INDEX

SEE MAP 27 14 200

590 000

COOS 53827

COOS 53827

Amended
for

STATE OF OREGON
MONITORING WELL REPORT

(as required by ORS 537.765 & OAR 690-240-0395)

WELL LABEL # L 81703

START CARD # 1000472

(1) LAND OWNER Owner Well I.D. 1182 P-5

First Name Dennis Last Name Olson
Company BALLY BANDON SHEEP RANCH
Address PO Box 1756
City Bandon State OR Zip 97411

(2) TYPE OF WORK New Deepening Conversion
 Alteration (repair/recondition) Abandonment

(3) DRILL METHOD
 Rotary Air Rotary Mud Cable Hollow Stem Auger Cable Mud
 Reverse Rotary Other

(4) CONSTRUCTION Piezometer Well
Depth of Completed Well 75.08 ft Special Standard



MONUMENT/VAULT Above Ground
From 1.5 To 4

BORE HOLE
Diameter 10 From 0 To 4

CASING
Dia 2 From 1 To 65
Gauge Sch 40 Wld Thrd
Material Steel Plastic

LINER
Dia. From To
Gauge Wld Thrd
Material Steel Plastic

SEAL
From 0 To 62
Material Bentonite Chips
Amount 13 S Grout weight

SCREEN
Casing/Liner Casing Material PVC
Diameter 2 From 65 To 75
Slot Size .011

FILTER
From 62 To 75.08 Material Sand Size of pack 10/20

(5) WELL TESTS

Pump Bailer Air Flowing Artesian
Yield gal/min Drawdown Drill stem/Pump depth Duration (hr)
5 75 1

Temperature 54 °F Lab analysis Yes By

Supervising Geologist/Engineer

Water quality concerns? Yes (describe below)
From To Amount Units
APR 04 2007

(6) LOCATION OF WELL (legal description)

County COOS Twp 27 S N/S Range 14 W E/W WM
Sec 20 SW 1/4 of the SW 1/4 Tax Lot 400
Tax Map Number Lot
Lat ° 0 ' " or DMS or DD
Long ° 0 ' " or DMS or DD
 Street address of well Nearest address

no# vacant, Whiskey Run Road, Bandon

(7) STATIC WATER LEVEL

Date SWL(psi) + SWL(ft)
Existing Well / Predeepening
Completed Well 01-15-2007 46.8
Flowing Artesian? Dry Hole?

WATER BEARING ZONES Depth water was first found 46.75

SWL Date From To Est Flow SWL(psi) + SWL(ft)
01-15-2007 46.75 74 5 46.75

(8) WELL LOG Ground Elevation 200

Material From To
Topsoil 0 1
Sand fine orange brown 1 3
Sand fine brown 3 9
Sandy clay brown 9 10
Cemented sand orange brown 10 13
Sand fine-medium orange brown 13 16
Sandy clay w/cemented sand lenses tan 16 20
Sand fine-medium tan 20 22
Cemented sand w/sandy clay lenses tan 22 24
Sand fine-coarse brown 24 30
Sand coarse-fine gray brown 30 39
Sandy clay tan 39 40
Sand coarse-fine w/gravel fine gray brown 40 49
Gravel fine w/sand c-f & sandy clay brown 49 51
Gravel fine w/sand coarse-fine gray brown 51 54
Gravel fine-medium w/sand coarse-fine orange brown 54 61
Sandy clay tan w/gravel f-m & sand c-f orange brown 61 63
Sandy clay orange brown w/gravel f-m & sand brown 63 66
Continued on page 2 63 66

Date Started 01-15-2007 Completed 01-15-2007

(unbonded) Monitor Well Constructor Certification

I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon monitoring well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

License Number Date APR 30 2012
Password: (if filing electronically)
Signed WATER RESOURCES DEPT SALEM, OREGON

(bonded) Monitor Well Constructor Certification

I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon monitoring well construction standards. This report is true to the best of my knowledge and belief.

License Number 1493 Date 4/3/07
Password: (if filing electronically)
Signed Jim Mace Mace
Contact Info (optional) BANDON WELL & PUMP COMPANY (541) 347-7867

STATE OF OREGON
MONITORING WELL REPORT

(as required by ORS 537.765 & OAR 690-240-0395)

WELL LABEL # L 81703


START CARD # 1000472

(1) LAND OWNER Owner Well I.D. 1182 P-5
 First Name Dennis Last Name Olson
 Company BALLEY BANDON SHEEP RANCH
 Address PO Box 1756
 City Bandon State OR Zip 97411

(2) TYPE OF WORK New Deepening Conversion
 Alteration (repair/recondition) Abandonment

(3) DRILL METHOD
 Rotary Air Rotary Mud Cable Hollow Stem Auger Cable Mud
 Reverse Rotary Other

(4) CONSTRUCTION Piezometer Well
 Depth of Completed Well 75.08 ft. Special Standard



MONUMENT/VAULT Above Ground
 From 1.5 To 4

BORE HOLE
 Diameter 10 From 0 To 4

CASING
 Dia. 2 From 1 To 65
 Gauge Sch 40 Wld Thrd
 Material Steel Plastic

LINER
 Dia. _____ From _____ To _____
 Gauge _____ Wld Thrd
 Material Steel Plastic

SEAL
 From 0 To 62
 Material Bentonite Chips
 Amount 13 S Grout weight _____

SCREEN
 Casing/Liner Casing Material PVC
 Diameter 2 From 65 To 75
 Slot Size .011

FILTER
 From 62 To 75.08 Material Sand Size of pack 10/20

(5) WELL TESTS
 Pump Bailor Air Flowing Artesian
 Yield gal/min Drawdown Drill stem/Pump depth Duration (hr)
 5 75 1

Temperature 54 °F Lab analysis Yes By _____
 Supervising Geologist/Engineer
 Water quality concerns? Yes (describe below)
 From To Description

(6) LOCATION OF WELL (legal description)
 County COOS Twp 27 S N/S Range 14 W E/W WM
 Sec 20 SW 1/4 of the SW 1/4 Tax Lot 400
 Tax Map Number Lot
 Lat 0 " or DMS or DD
 Long 0 " or DMS or DD
 Street address of well Nearest address
 no# vacant, Whiskey Run Road, Bandon

(7) STATIC WATER LEVEL
 Date SWL(psi) + SWL(ft)
 Existing Well / Predeepening _____
 Completed Well 01-15-2007 46.8
 Flowing Artesian? Dry Hole?
 WATER BEARING ZONES Depth water was first found 46.75

SWL Date	From	To	Est Flow	SWL (psi)	+ SWL (ft)
01-15-2007	46.75	74	5		46.75

(8) WELL LOG Ground Elevation 200

Material	From	To
Topsoil	0	1
Sand fine orange brown	1	3
Sand fine brown	3	9
Sandy clay brown	9	10
Cemented sand orange brown	10	13
Sand fine-medium orange brown	13	16
Sandy clay w/cemented sand lenses tan	16	20
Sand fine-medium tan	20	22
Cemented sand w/sandy clay lenses tan	22	24
Sand fine-coarse brown	24	30
Sand coarse-fine gray brown	30	39
Sandy clay tan	39	40
Sand coarse-fine w/gravel fine gray brown	40	49
Gravel fine w/sand c-f & sandy clay brown	49	51
Gravel fine w/sand coarse-fine gray brown	51	54
Gravel fine-medium w/sand coarse-fine orange brown	54	61
Sandy clay tan w/gravel f-m & sand c-f orange brown	61	63
Sandy clay orange brown w/gravel f-m & sand brown	63	66
Continued on page 2	63	66

Date Started 01-15-2007 Completed 01-15-2007

(unbonded) Monitor Well Constructor Certification
 I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon monitoring well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.
 License Number _____ Date _____
 Password: (if filing electronically) _____
 Signed _____

(bonded) Monitor Well Constructor Certification
 I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon monitoring well construction standards. This report is true to the best of my knowledge and belief.
 License Number 1493 Date 1/16/07
 Password: (if filing electronically) _____
 Signed *John Mack*
 Contact Info (optional) BANDON WELL & PUMP COMPANY (541) 347-7867

THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

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CHANGES UPDATED AS OF MAR 16 1995

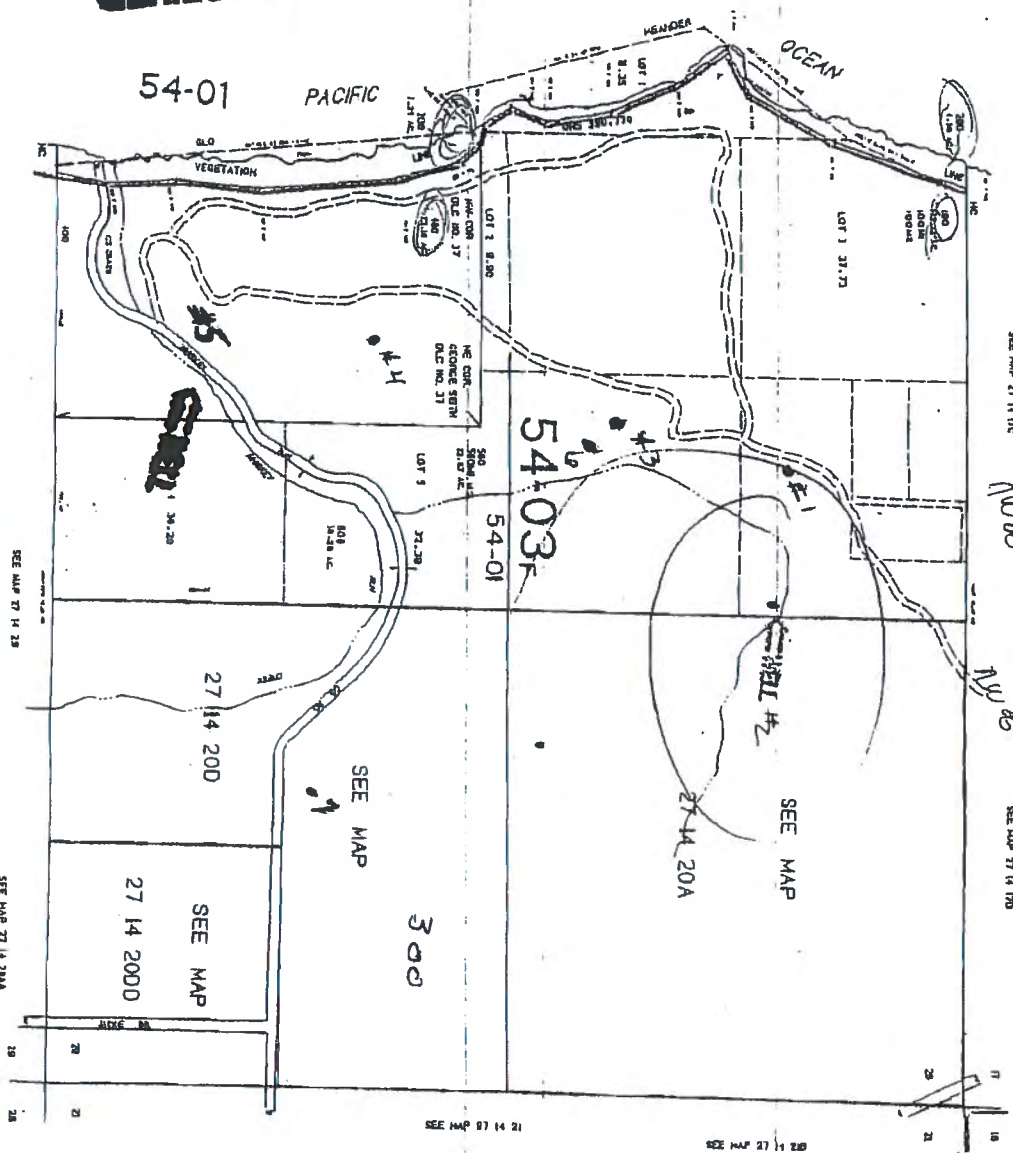
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SALEM, OREGON

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SECTION 20 12/5, R14W, W.M.
COOS COUNTY
T-400

Handwritten notes:
200000
1000 100 300
M.M.

27 14 20
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WATER RESOURCES DEPT
SALEM, OREGON

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& INDEX

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STATE OF OREGON
MONITORING WELL REPORT
(as required by ORS 537.765 & OAR 690-240-0395)

WELL LABEL # L 81702

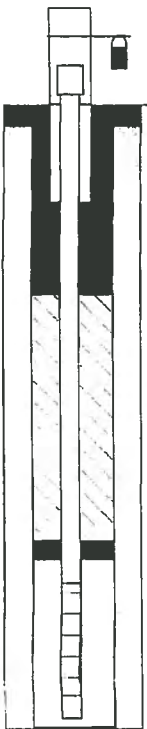
START CARD # 1000457

(1) LAND OWNER Owner Well I.D. 1179-6
First Name Dennis Last Name Olson
Company BALLY BANDON SHEEP RANCH
Address PO Box 1756
City Bandon State OR Zip 97411

(2) TYPE OF WORK New Deepening Conversion
 Alteration (repair/recondition) Abandonment

(3) DRILL METHOD
 Rotary Air Rotary Mud Cable Hollow Stem Auger Cable Mud
 Reverse Rotary Other

(4) CONSTRUCTION Piezometer Well
Depth of Completed Well 70.58 ft. Special Standard



MONUMENT/VAULT Above Ground
From 1.5 To 4

BORE HOLE
Diameter 10 From 0 To 4

CASING
Dia. 2 From 1 To 52.58
Gauge Sch40 Wld Thrd
Material Steel Plastic

LINER
Dia. From To
Gauge Wld Thrd
Material Steel Plastic

SEAL
From 0 To 50
Material Bentonite Chips
Amount 10 S Grout weight

SCREEN
Casing/Liner Casing Material PVC
Diameter 2 From 52.58 To 62.58
Slot Size 011

FILTER
From 50 To 71 Material Sand Size of pack 10/20

(5) WELL TESTS
 Pump Bailer Air Flowing Artesian
Yield gal/min Drawdown Drill stem/Pump depth Duration (hr)
10 65 1

Temperature 54 °F Lab analysis Yes By

Supervising Geologist/Engineer
Water quality concerns? Yes (describe below)
From To Description

(6) LOCATION OF WELL (legal description)
County COOS Twp 27 S N/S Range 14 W E/W WM
Sec 20 SE 1/4 of the NW 1/4 Tax Lot 100
Tax Map Number Lot
Lat ° 0 ' or DMS or DD
Long ° 0 ' or DMS or DD
 Street address of well Nearest address

no# vacant off Whiskey Run Road, Bandon

(7) STATIC WATER LEVEL
Date SWL(psi) + SWL(ft)
Existing Well / Predeepening
Completed Well 01-09-2007 36

Flowing Artesian? Dry Hole?
WATER BEARING ZONES Depth water was first found 36

SWL Date	From	To	Est Flow	SWL (psi)	+ SWL (ft)
01-09-2007	36	62	10		36

(8) WELL LOG Ground Elevation 200

Material	From	To
Sandy topsoil	0	2
Cemented sand orange brown	2	3
Peat w/wood	3	4
Cemented sand orange brown	4	5
Sand fine-medium brown	5	16
Sandy clay white & orange	16	18
Sand fine-medium orange brown	18	20
Sandy clay orange	20	21
Sand fine-coarse brown	21	30
Sandy clay tan	30	31
Sand fine-coarse gray brown	31	38
Sandy clay tan	38	40
Sand fine-coarse gray brown w/sandy clay tan	40	48
Gravel fine w/sand coarse-fine orange brown	48	53
Gravel fine-medium w/sand coarse-fine gray brown	53	58
Gravel fine-medium w sand c-f & sandy clay orange	58	60
Gravel fine-medium w/sand coarse-fine gray brown	60	62
Claystone blue gray	62	64
Claystone lt brown	64	71

Date Started 01-09-2007 Completed 01-09-2007

(unbonded) Monitor Well Constructor Certification
I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon monitoring well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

License Number Date
Password: (if filing electronically)
Signed

(bonded) Monitor Well Constructor Certification
I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon monitoring well construction standards. This report is true to the best of my knowledge and belief.

License Number 1493 Date 1/10/07
Password: (if filing electronically)
Signed
Contact Info (optional) BANDON WELL & PUMP COMPANY (541) 347-7867

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THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK
SALEM, OREGON

APR 30 2012

(4) CONSTRUCTION

BORE HOLE			FILTER PACK			
Dia	From	To	From	To	Material	Size
6	4	71				

Material	SEAL		Amt	sacks/ lbs	grout weight
	From	To			

CASING/LINER

Casing Liner	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd
<input checked="" type="checkbox"/>	2		62.58	70.58	Sch40	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	

SCREENS

Perf/ Screen	Casing/ Liner	Screen Dia	From	To	Scrn size/ slot width	Slot length	# of slots	Tele/ pipe size

(5) WELL TESTS

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)

Water Quality Concerns

From	To	Description	Amount	Units

(7) STATIC WATER LEVEL

Water Bearing Zones

SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(ft)

(8) WELL LOG

Material	From	To

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SALEM, OREGON

Comments/Remarks

Piezometer well drilled by:
Bandon Well & Pump Co.

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CHANGES UPDATED AS OF MAR 16 1996

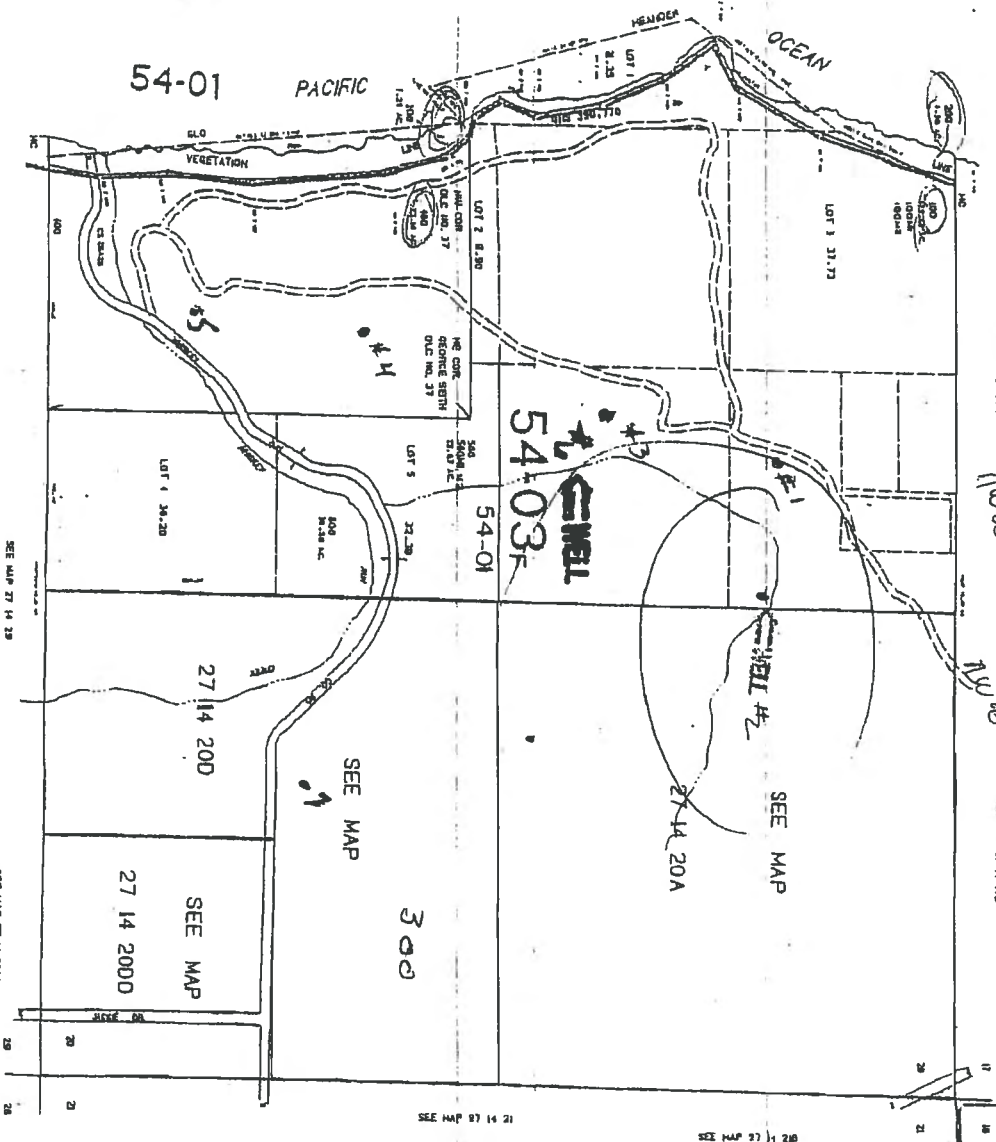
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WATER RESOURCES DEPT
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SECTION 20 1, 2/3, R14W, WM,
COOS COUNTY

27 14 20
& INDEX



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& INDEX

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WATER RESOURCES DEPT
SALEM, OREGON

STATE OF OREGON
MONITORING WELL REPORT

(as required by ORS 537.765 & OAR 690-240-0395)

WELL LABEL # L 81704

START CARD # 1000459

(1) LAND OWNER Owner Well I.D. 1181 P-7
 First Name Dennis Last Name Olson
 Company BALLY BANDON SHEEP RANCH
 Address PO Box 1756
 City Bandon State OR Zip 97411

(2) TYPE OF WORK New Deepening Conversion
 Alteration (repair/recondition) Abandonment

(3) DRILL METHOD
 Rotary Air Rotary Mud Cable Hollow Stem Auger Cable Mud
 Reverse Rotary Other

(4) CONSTRUCTION Piezometer Well
 Depth of Completed Well 54.66 ft. Special Standard

MONUMENT/VAULT Above Ground
 From 1.5 To 4

BORE HOLE
 Diameter 10 From 0 To 4

CASING
 Dia. 2 From 1 To 39.66
 Gauge Sch 40 Wld Thrd
 Material Steel Plastic

LINER
 Dia. _____ From _____ To _____
 Gauge _____ Wld Thrd
 Material Steel Plastic

SEAL
 From 0 To 36
 Material Bentonite Chips
 Amount 7 S Grout weight _____

SCREEN
 Casing/Liner Casing Material PVC
 Diameter 2 From 39.66 To 49.66
 Slot Size .011

FILTER
 From 36 To 55 Material Sand Size of pack 10/20

(6) LOCATION OF WELL (legal description)
 County COOS Twp 27 S N/S Range 14 W E/W WM
 Sec 20 NW 1/4 of the SE 1/4 Tax Lot 300
 Tax Map Number _____ Lot _____
 Lat _____ ° 0 ' " or _____ DMS or DD
 Long _____ ° 0 ' " or _____ DMS or DD
 Street address of well Nearest address

no# vacant, Whiskey Run Road, Bandon

(7) STATIC WATER LEVEL

Existing Well / Predeepening	Date	SWL (psi)	+ SWL (ft)
Completed Well	01-16-2007		31.3

WATER BEARING ZONES Flowing Artesian? Dry Hole?
 Depth water was first found 31.3

SWL Date	From	To	Est Flow	SWL (psi)	+ SWL (ft)
01-16-2007	31.3	50	5		31.3

(8) WELL LOG Ground Elevation 200

Material	From	To
Sandy clay tan	0	3
Cemented sand orange brown & tan	3	6
Sand fine brown	6	8
Sandy clay tan	8	9
Sand fine-coarse gray brown w/sandy clay white	9	19
Sand coarse-fine gray brown w/sandy clay tan	19	21
Sandy clay w/sand fine-coarse brown	21	24
Sand c-f gray brown w/sandy clay brown	24	33
Cemented sand black & brown	33	40
Sand fine-coarse gray brown	40	45
Sand coarse-fine w/gravel fine-coarse gray brown	45	50
Sandy clay orange	50	51
Claystone gray brown	51	55

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WATER RESOURCES DEPT.
SALEM, OREGON

Date Started 01-16-2007 Completed 01-16-2007

(unbonded) Monitor Well Constructor Certification
 I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon monitoring well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.
 License Number _____ Date _____
 Password: (if filing electronically) _____
 Signed _____

(bonded) Monitor Well Constructor Certification
 I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon monitoring well construction standards. This report is true to the best of my knowledge and belief.
 License Number 1493 Date 1/17/07
 Password: (if filing electronically) _____
 Signed Jim Mickel M GWC
 Contact Info (optional) BANDON WELL & PUMP COMPANY (541) 347-7867

ORIGINAL - WATER RESOURCES DEPARTMENT
 THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK Form Version: 0.31

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WATER RESOURCES DEPT
 SALEM, OREGON

COOS 53826

MONITORING WELL REPORT -
continuation page

WELL I.D. # L 81704
START CARD # 1000459

(4) CONSTRUCTION

BORE HOLE			FILTER PACK			
Dia	From	To	From	To	Material	Size
6	4	55				

Material	From	To	Amt	sacks/ lbs	grout weight

CASING/LINER

Casing Liner	Dia	From	To	Gauge	Stl	Plstc	Wld	Thrd

SCREENS

Perf/ Screen Liner	Casing/ Screen Dia	From	To	Scrn size/ slot width	Slot length	# of slots	Tele/ pipe size

(5) WELL TESTS

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)

Water Quality Concerns

From	To	Description	Amount	Units

(7) STATIC WATER LEVEL
Water Bearing Zones

SWL Date	From	To	Est Flow	SWL (psi)	+ SWL (ft)

(8) WELL LOG

Material	From	To

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WATER RESOURCES DEPT.
SALEM, OREGON

Comments/Remarks

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WATER RESOURCES DEPT.
SALEM, OREGON

Piezometer Well Drilled By:
Bandon Well & Pump Co.
(541) 347-7867

93, 2007

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CHANGES UPDATED AS OF MAR 16 1995

COOS 53826

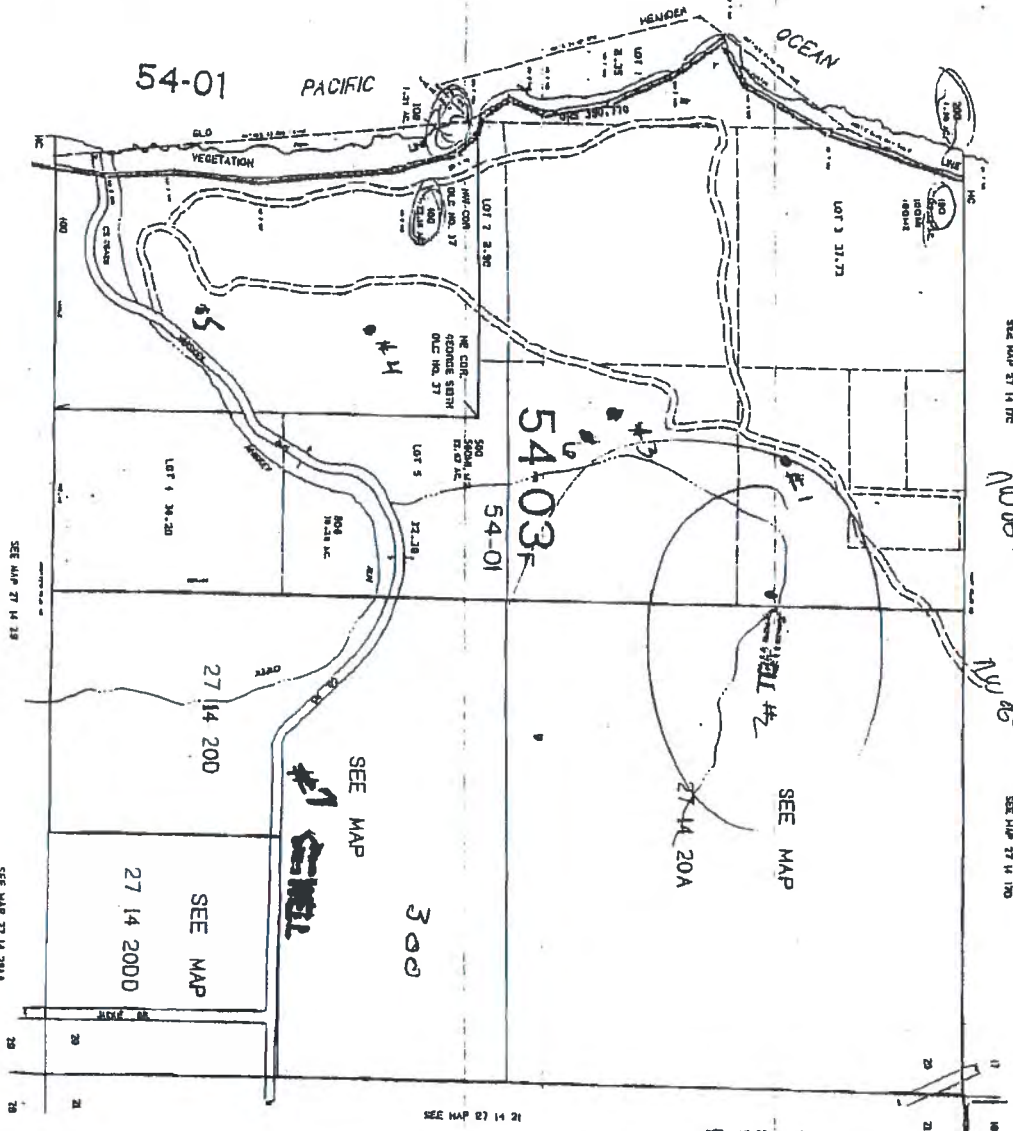
SALEM, OREGON

WATER RESOURCES DEPT
CONTROL

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ASSESSMENT PURPOSE ONLY.



SECTION 20 12/5. K14W. W.M.
COOS COUNTY

Handwritten notes:
2010/03/03
Wells 1 & 2
300
WELL #2
WELL #1

27 14 20
& INDEX

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WATER RESOURCES DEPT
SALEM, OREGON

WELL LABEL # L 81722
 START CARD # 1000458

(1) LAND OWNER Owner Well I.D. 1180 W-5
 First Name Dennis Last Name Olson
 Company Bally Bandon Sheep Ranch
 Address PO Box 1756
 City Bandon State OR Zip 97411

(2) TYPE OF WORK New Well Deepening Conversion
 Alteration (repair/recondition) Abandonment

(3) DRILL METHOD
 Rotary Air Rotary Mud Cable Auger Cable Mud
 Reverse Rotary Other

(4) PROPOSED USE Domestic Irrigation Community
 Industrial/ Commercial Livestock Dewatering
 Thermal Injection Other

(5) BORE HOLE CONSTRUCTION Special Standard (Attach copy)
 Depth of Completed Well 75.00 ft.

BORE HOLE			SEAL			sacks/	
Dia	From	To	Material	From	To	Amt	lbs
12.25	0	76	Bentonite	0	32	28	S

How was seal placed: Method A B C D E

Other Pour from surface

Backfill placed from _____ ft. to _____ ft. Material _____

Filter pack from 32 ft. to 75 ft. Material Sand Size 8/12

Explosives used: Yes Type _____ Amount _____

(6) CASING/LINER

Casing	Liner	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	8	<input checked="" type="checkbox"/>	1.3	62.5	sdr26	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	8	<input type="checkbox"/>	72.5	75	sdr26	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	10	<input checked="" type="checkbox"/>	1.5	4	.250	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Shoe Inside Outside Other Location of shoe(s) _____

Temp casing Yes Dia _____ From _____ To _____

(7) PERFORATIONS/SCREENS

Perforations Method _____
 Screens Type Johnson V-Wire Material Stainless Steel

Perf/ Screen	Casing/ Liner	Screen Dia	From	To	Sern/slot width	Slot length	# of slots	Tele/ pipe size
Screen		8	62.5	72.5	.041			8

(8) WELL TESTS: Minimum testing time is 1 hour

Pump Bailer Air Flowing Artesian

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)
2.6	2.5	75	1
10	10	75	1

Temperature 53 °F Lab analysis Yes By _____

Water quality concerns? Yes (describe below)

From	To	Description	Amount	Units

(9) LOCATION OF WELL (legal description)

County Coos Twp 27.00 S N/S Range 14.00 W E/W WM
 Sec 20 SW 1/4 of the SW 1/4 Tax Lot 400
 Tax Map Number _____ Lot _____
 Lat _____ " or _____ DMS or DD
 Long _____ " or _____ DMS or DD
 Street address of well Nearest address

no # vacant Whiskey Run Road, Bandon

(10) STATIC WATER LEVEL

Existing Well / Predeepening	Date	SWL(psi)	+	SWL(ft)
Completed Well	03-26-2007			59.5

Flowing Artesian? Dry Hole?

WATER BEARING ZONES Depth water was first found 46.75

SWL Date	From	To	Est Flow	SWL(psi)	+	SWL(ft)
03-22-2007	59.5	74	10			59.5

(11) WELL LOG

Ground Elevation 150

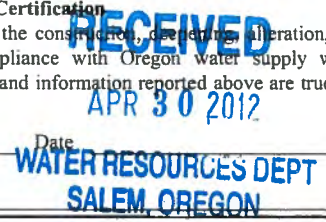
Material	From	To
Cemented sand orange brown	0	3
Sand fine tan	3	8
Cemented sand tan	8	9
Sandy clay tan	9	10
Cemented sand orange & brown	10	11
Sand fine brown	11	15
Sandy clay white	15	16
Sandy clay orange	16	17
Sand fine-medium tan	17	23
Sandy clay lt. gray	23	24
Sand fine-medium tan	24	32
Cemented sand orange & tan	32	33
Sand fine-coarse w/gravel fine tan	33	38
Sandy clay orange	38	39
Sandy clay tan	39	42
Sand fine-coarse tan	42	44
Sand fine-coarse w/gravel fine brown black	44	49
Gravel fine-medium w/sand coarse-fine brown	49	53
Continued on page 2	49	53

Date Started 01-10-2007 Completed 03-26-2007

(unbonded) Water Well Constructor Certification

I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

License Number _____
 Electronically Filed
 Signed _____



(bonded) Water Well Constructor Certification

I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.

License Number 1493 Date 03-27-2007

Electronically Filed
 Signed JAMES A MACK SR (E-filed)

Contact Info (optional) BANDON WELL & PUMP COMPANY (541) 347-7867

(5) BORE HOLE CONSTRUCTION

BORE HOLE			SEAL				sacks/
Dia	From	To	Material	From	To	Amt	lbs

FILTER PACK			
From	To	Material	Size

(6) CASING/LINER

Casing Liner	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd

(7) PERFORATIONS/SCREENS

Perf/ Screen	Casing/ Liner	Screen Dia	From	To	Scrn/slot width	Slot length	# of slots	Tele/ pipe size

(8) WELL TESTS: Minimum testing time is 1 hour

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)

Water Quality Concerns

From	To	Description	Amount	Units

(10) STATIC WATER LEVEL

Water Bearing Zones

SWL Date	From	To	Est Flow	SWL(psi)	+	SWL(ft)

(11) WELL LOG

Material	From	To
Gravel fine-coarse w/sand coarse-fine brown green	53	57
Gravel fine-medium w/sand coarse-fine brown red	57	62
Gravel fine-medium w/sand coarse-fine brown green	62	67
Gravel fine-coarse w/sand coarse-fine brown	67	72
Gravel fine-coarse w/sandy clay tan	72	74
Sandy clay gray	74	74.5
Claystone gray	74.5	76

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SALEM, OREGON**

Comments/Remarks

At the time test hole and piezometer were drilled in January 07 the SWL was 46.75'

WELL DRILLED BY:
BANDON WELL & PUMP COMPANY
(541) 347-7867

WELL LABEL # L 81718

START CARD # 1000477

(1) LAND OWNER Owner Well I.D. 1183 W-6

First Name Dennis Last Name Olson
 Company BALLY BANDON SHEEP RANCH
 Address PO BOX 1756
 City BANDON State OR Zip 97411

(2) TYPE OF WORK New Well Deepening Conversion
 Alteration (repair/recondition) Abandonment

(3) DRILL METHOD
 Rotary Air Rotary Mud Cable Auger Cable Mud
 Reverse Rotary Other

(4) PROPOSED USE Domestic Irrigation Community
 Industrial/ Commercial Livestock Dewatering
 Thermal Injection Other

(5) BORE HOLE CONSTRUCTION Special Standard (Attach copy)
 Depth of Completed Well 65.00 ft.

BORE HOLE			SEAL			sacks/	
Dia	From	To	Material	From	To	Amt	lbs
16	0	4	Bentonite	0	4	3	S
12.25	4	65	Bentonite	4	32	22	S
6	65	70					

How was seal placed: Method A B C D E
 Other Pour from surface
 Backfill placed from ft. to ft. Material
 Filter pack from 32 ft. to 70 ft. Material Sand Size 8/12
 Explosives used: Yes Type Amount

(6) CASING/LINER

Casing	Liner	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	10		1.5	4	.250	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	8		1.08	52.5	sdr26	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	8		62.5	65	sdr26	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Shoe Inside Outside Other Location of shoe(s)
 Temp casing Yes Dia From To

(7) PERFORATIONS/SCREENS
 Perforations Method
 Screens Type Johnson V-Wire Material Stainless Steel

Perf/ Screen	Casing/ Liner	Screen Dia	From	To	Scrm/slot width	Slot length	# of slots	Tele/ pipe size
Screen		8	52.5	62.5	.061			8

(8) WELL TESTS: Minimum testing time is 1 hour
 Pump Bailer Air Flowing Artesian

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)
83.8	11.5	63	1
83.5	11.9	63	2

Temperature 53 °F Lab analysis Yes No
 Water quality concerns? Yes (describe below)

From	To	Description	Amount	Units

(9) LOCATION OF WELL (legal description)

County Coos Twp 27.00 S N/S Range 14.00 W E/W WM
 Sec 20 SW 1/4 of the SW 1/4 Tax Lot 400
 Tax Map Number Lot
 Lat " or " DMS or DD
 Long " or " DMS or DD
 Street address of well Nearest address

88500 Whisky Run Road, Bandon

(10) STATIC WATER LEVEL

Existing Well / Predeepening	Date	SWL(psi)	+ SWL(ft)
Completed Well	<u>03-29-2007</u>		<u>34</u>

Flowing Artesian? Dry Hole?

WATER BEARING ZONES Depth water was first found 34

SWL Date	From	To	Est Flow	SWL (psi)	+ SWL (ft)
03-29-2007	34	62	100		34

(11) WELL LOG Ground Elevation 200

Material	From	To
Topsoil	0	2
Cemented sand brown	2	3
Wood & peat	3	4
Cemented sand brown	4	5
Sand fine-medium tan	5	16
Sandy clay tan & orange	16	18
Sand fine-coarse brown	18	31
Sandy clay tan w/sand fine-coarse brown	31	32
Sand fine-coarse brown	32	44
Sand fine-coarse w/gravel fine brown	44	50
Sandy clay tan w/gravel fine & sand f-c brown	50	52
Gravel fine w/sand coarse-fine brown	52	55
Gravel fine w/sand c-f & sandy clay orange brown	55	57
Gravel fine-medium w/sand coarse-fine gray brown	57	60
Gravel fine-medium w/sand c-f & sandy clay tan	60	61
Gravel fine-medium w/sand coarse-fine gray brown	61	62
Claystone gray	62	70

Date Started 01-11-2007 Completed 03-29-2007

(unbonded) Water Well Constructor Certification
 I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

License Number Date APR 30 2012
 Electronically Filed
 Signed

(bonded) Water Well Constructor Certification
 I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.

License Number 1493 Date 03-30-2007
 Electronically Filed
 Signed JAMES A MACK SR (E-filed)
 Contact Info (optional) BANDON WELL & PUMP COMPANY (541) 347-7867

Oregon Water Resources Department
PUMP TEST FORM COVER SHEET

Well Owner:
 Name: Phil Friedmann for Bally Bandon Sheep
 Address: P.O. Box 1756
 County: Coos
 City: Bandon State: OR Zip: _____
 Original owner (from well log): Bally Bandon Sheep Ranch POD ID: Well #1A

Well Location:
 Township: 27 N Range: 14 W
 Section: 20 1/4: SW 1/16 NW 1/64 NE
 Well depth: 110.0 Date drilled: 12/20/2001
 Owners well no. (if any): Jr Well

Water Right Information:
 Application: G-15697 Permit: G-15437 Certificate: _____
 Is this well listed on more than one water right? Yes If yes, list additional water rights below:
 Application: _____ Permit: _____ Certificate: _____
 Application: _____ Permit: _____ Certificate: _____

Pump Test:
 Test Conducted by: Michal Kilsch, R.G. Well Owner? Yes
 Company: Golder Associates Inc.
 Address: 18300 NE Union Hill Road, Suite 200 Date of Test: 10/10/2002
 City: Redmond State: WA Zip: 98052
 Daytime phone: 425.883.0777

Method of discharge measurement (see our brochure for more information): Flow meter
 Method of water-level measurement (pick one or enter other method used): Pressure transducer
 Length of air line (if used): _____

Pump type (pick one or enter other method used): Submersible
 Was the pump test conducted during normal use of the well? Yes Note: _____

Are you aware of any wells, other than domestic or stock wells, pumping within 1000 feet of the tested well during the test or within 24 hours prior to the test? Yes Note: _____
 If yes, give approximate distances to each and approximate pumping rate of each. If possible, indicate if they were turned on or off during the test: _____

Is there a lake, stream or other surface water body within 1/4 mile of the tested well? Yes If yes, give approximate distance from the well and approximate elevation difference between the surface water and the well head. Approx. distance: 650.00 ft Approx. elevation difference: 65.00 ft

Well elevation is above surface water body.

Description of measuring point (e.g. top port of 1 inch port pipe, west side) top of 1-inch pvc sounding tube

Measuring point distance above land surface 1.75 feet.

Static water level measurements: (A minimum of three measurements are required in the hour before pumping begins at no less than 20 minutes apart):

Time	Depth to water below meas. point	Depth to water below land surface
<u>10:39 am</u>	<u>56.13</u>	<u>54.38</u>
<u>11:00 am</u>	<u>56.15</u>	<u>54.40</u>

Discharge measurements: (A discharge measurement is required at the start of pumping and at least once an hour during the test; additional measurements should be noted on the Pump Test Data Sheet):

Time	Discharge Rate	Discharge Units (e.g. gpm, cfs, etc)
<u>11:12 am</u>	<u>118.00</u>	<u>gpm (gallons per minute)</u>
<u>12:14 pm</u>	<u>120.00</u>	<u>gpm (gallons per minute)</u>
<u>1:05 pm</u>	<u>120.00</u>	<u>gpm (gallons per minute)</u>
<u>2:02 pm</u>	<u>120.00</u>	<u>gpm (gallons per minute)</u>
<u>3:15 pm</u>	<u>120.00</u>	<u>gpm (gallons per minute)</u>

Time pump turned on: Date 10/10/2002 Time 11:03 am
 Time pump turned off: Date 10/12/2002 Time 11:07 am
 Total pumping time: 72 hours 4 minutes

Note: Well must be idle for at least 16 hours prior to the test.
 Additional forms can be obtained from our web site at <http://www.wrd.state.or.us>

OWRD 2/9/2000

Required Signature: 

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 SALEM, OREGON

PUMP TEST DATA SHEET

(For Submittal to the Oregon Water Resources Department)

Application: G-16697

Permit: G-16437

Certificate: NA

Pod ID: IR WELL #1A
 Owners well no.: Ir Well
 Well Tag: L51164

Drawdown Data

Recovery Data

Date/Time	Time Since Pump Started (minutes)	Depth to Water (ft below ground surface)	Comments	Date/Time	Time Since Pump Stopped (minutes)	Depth to Water (ft below ground surface)
10/10/2002 10:25						
10/10/2002 10:45						
10/10/2002 11:00		54.42				
10/10/2002 11:03		54.42	Start Test	10/13/2002 11:07	0	71.90
10/10/2002 11:04	1	64.71	Rate 116 GPM	10/13/2002 11:08	1	60.07
10/10/2002 11:05	2	65.19		10/13/2002 11:09	2	59.49
10/10/2002 11:10	7	65.36		10/13/2002 11:10	3	59.39
10/10/2002 11:15	12	65.55	118 GPM	10/13/2002 11:15	8	59.19
10/10/2002 11:20	17	65.67	118 GPM	10/13/2002 11:20	13	59.09
10/10/2002 11:25	22	65.85	120 GPM	10/13/2002 11:25	18	58.99
10/10/2002 11:30	27	66.05	120 GPM	10/13/2002 11:30	23	58.91
10/10/2002 11:45	42	66.14		10/13/2002 11:45	38	58.71
10/10/2002 12:00	57	66.23		10/13/2002 12:00	53	58.56
10/10/2002 12:15	72	66.30	120 GPM	10/13/2002 12:15	68	58.43
10/10/2002 12:30	87	66.36	120 GPM	10/13/2002 12:30	83	58.33
10/10/2002 12:45	102	66.42		10/13/2002 12:45	98	58.24
10/10/2002 13:00	117	66.53	120 GPM	10/13/2002 13:00	113	58.15
10/10/2002 14:00	177	66.82	120 GPM	10/13/2002 14:00	173	57.90
10/10/2002 15:00	237	67.00	120 GPM	10/13/2002 15:00	233	57.72
10/10/2002 16:00	297	67.16	120 GPM	10/13/2002 16:00	293	57.56
10/10/2002 17:00	357	67.32		10/13/2002 17:00	353	57.44
10/10/2002 18:00	417	67.47		10/13/2002 18:00	413	57.33
10/10/2002 19:00	477	67.63	120 GPM	10/13/2002 19:00	473	57.23
10/10/2002 20:00	537	67.76		10/13/2002 20:00	533	57.14
10/10/2002 21:00	597	67.91		10/13/2002 21:00	593	57.06
10/10/2002 22:00	657	68.04		10/13/2002 22:00	653	56.99
10/10/2002 23:00	717	68.14		10/13/2002 23:00	713	56.92
10/11/2002 0:00	777	68.26		10/14/2002 0:00	773	56.86
10/11/2002 1:00	837	68.37		10/14/2002 1:00	833	56.79
10/11/2002 2:00	897	68.48		10/14/2002 2:00	893	56.73
10/11/2002 3:00	957	68.58		10/14/2002 3:00	953	56.68
10/11/2002 4:00	1017	68.68		10/14/2002 4:00	1013	56.62
10/11/2002 5:00	1077	68.78		10/14/2002 5:00	1073	56.58
10/11/2002 6:00	1137	68.88	120 GPM	10/14/2002 6:00	1133	56.54
10/11/2002 7:00	1197	68.97		10/14/2002 7:00	1193	56.50
10/11/2002 8:00	1257	69.06	120 GPM	10/14/2002 8:00	1253	56.47
10/11/2002 9:00	1317	69.12		10/14/2002 9:00	1313	56.43
10/11/2002 10:00	1377	69.20	117 GPM	10/14/2002 10:00	1373	56.39
10/11/2002 11:00	1437	69.25		10/14/2002 11:00	1433	56.34
10/11/2002 12:00	1497	69.33	119 GPM	10/14/2002 12:00	1493	56.31
10/11/2002 13:00	1557	69.37		10/14/2002 13:00	1553	56.28
10/11/2002 14:00	1617	69.46	119 GPM	10/14/2002 14:00	1613	56.24
10/11/2002 15:00	1677	69.53		10/14/2002 15:00	1673	56.21
10/11/2002 16:00	1737	69.59		10/14/2002 16:00	1733	56.19
10/11/2002 17:00	1797	69.67	118 GPM	10/14/2002 17:00	1793	56.16
10/11/2002 18:00	1857	69.77		10/14/2002 18:00	1853	56.13
10/11/2002 19:00	1917	69.85	120 GPM	10/14/2002 19:00	1913	56.12
10/11/2002 20:00	1977	69.94		10/14/2002 20:00	1973	56.10
10/11/2002 21:00	2037	70.00		10/14/2002 21:00	2033	56.06
10/11/2002 22:00	2097	70.06		10/14/2002 22:00	2093	56.04
10/11/2002 23:00	2157	70.12		10/14/2002 23:00	2153	56.01
10/12/2002 0:00	2217	70.19		10/15/2002 0:00	2213	55.99
10/12/2002 1:00	2277	70.25		10/15/2002 1:00	2273	55.96
10/12/2002 2:00	2337	70.31		10/15/2002 2:00	2333	55.94
10/12/2002 3:00	2397	70.34		10/15/2002 3:00	2393	55.92
10/12/2002 4:00	2457	70.43		10/15/2002 4:00	2453	55.90
10/12/2002 5:00	2517	70.49		10/15/2002 5:00	2513	55.89
10/12/2002 6:00	2577	70.57		10/15/2002 6:00	2573	55.86
10/12/2002 7:00	2637	70.62		10/15/2002 7:00	2633	55.84
10/12/2002 8:00	2697	70.66	120 GPM	10/15/2002 8:00	2693	55.82
10/12/2002 9:00	2757	70.72	119 GPM	10/15/2002 9:00	2753	55.82
10/12/2002 10:00	2817	70.75		10/15/2002 10:00	2813	55.81
10/12/2002 11:00	2877	70.79	120 GPM	10/15/2002 11:00	2873	55.78
10/12/2002 12:00	2937	70.81		10/15/2002 12:00	2933	55.75
10/12/2002 13:00	2997	70.87	118 GPM	10/15/2002 13:00	2993	55.74
10/12/2002 14:00	3057	70.94	118 GPM	10/15/2002 14:00	3053	55.70
10/12/2002 15:00	3117	71.00	118 GPM	10/15/2002 15:00	3113	55.69
10/12/2002 16:00	3177	71.06		10/15/2002 16:00	3173	55.67
10/12/2002 17:00	3237	71.09	120 GPM	10/15/2002 17:00	3233	55.67
10/12/2002 18:00	3297	71.17	119 GPM	10/15/2002 18:00	3293	55.65
10/12/2002 19:00	3357	71.25		10/15/2002 19:00	3353	55.64
10/12/2002 20:00	3417	71.31		10/15/2002 20:00	3413	55.62
10/12/2002 21:00	3477	71.35		10/15/2002 21:00	3473	55.61
10/12/2002 22:00	3537	71.41		10/15/2002 22:00	3533	55.59
10/12/2002 23:00	3597	71.47		10/15/2002 23:00	3593	55.58
10/13/2002 0:00	3657	71.50		10/16/2002 0:00	3653	55.56
10/13/2002 1:00	3717	71.56		10/16/2002 1:00	3713	55.55
10/13/2002 2:00	3777	71.61		10/16/2002 2:00	3773	55.54
10/13/2002 3:00	3837	71.65		10/16/2002 3:00	3833	55.52
10/13/2002 4:00	3897	71.70		10/16/2002 4:00	3893	55.51
10/13/2002 5:00	3957	71.77		10/16/2002 5:00	3953	55.49
10/13/2002 6:00	4017	71.78		10/16/2002 6:00	4013	55.49
10/13/2002 7:00	4077	71.83	119 GPM	10/16/2002 7:00	4073	55.48
10/13/2002 8:00	4137	71.87		10/16/2002 8:00	4133	55.47
10/13/2002 9:00	4197	71.93		10/16/2002 9:00	4193	55.47
10/13/2002 10:00	4257	71.90		10/16/2002 10:00	4253	55.46
10/13/2002 11:00	4317	71.91	118 GPM	10/16/2002 11:00	4313	55.44
10/13/2002 11:07	4324	71.90	End Test			

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