

APR 13 2007

WATER RESOURCES D
SALEM, OREGON

MEMO

04-10, 2007

TO: Application G- 16751
FROM: GW: *Van Ball*
(Reviewer's Name)
SUBJECT: Scenic Waterway Interference Evaluation

YES

~~NO~~

The source of appropriation is within or above a Scenic Waterway

YES

~~NO~~

Use the Scenic Waterway condition (Condition 7J)

Per ORS 390.835, the Ground Water Section is able to calculate ground water interference with surface water that contributes to a Scenic Waterway. The calculated interference is distributed below.

Per ORS 390.835, the Ground Water Section is **unable** to calculate ground water interference with surface water that contributes to a scenic waterway; **therefore, the Department is unable to find that there is a preponderance of evidence that the proposed use will measurably reduce the surface water flows necessary to maintain the free-flowing character of a scenic waterway.**

Calculate the percentage of consumptive use by month and fill in the table below. If interference cannot be calculated, per criteria in 390.835, do not fill in the table but check the "unable" option above, thus informing Water Rights that the Department is unable to make a Preponderance of Evidence finding.

Exercise of this permit is calculated to reduce monthly flows in _____ Scenic Waterway by the following amounts expressed as a proportion of the consumptive use by which surface water flow is reduced.

[illegible]

PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

TO: Water Rights Section Date April 10, 2007

FROM: Ground Water/Hydrology Section Ivan Gall
Reviewer's Name

SUBJECT: Application G- 16751 Supersedes review of na Date of Review(s)

PUBLIC INTEREST PRESUMPTION: GROUNDWATER

OAR 690-310-130 (1) *The Department shall presume that a proposed groundwater use will ensure the preservation of the public welfare, safety and health as described in ORS 537.525. Department staff review ground water applications under OAR 690-310-140 to determine whether the presumption is established. OAR 690-310-140 allows the proposed use be modified or conditioned to meet the presumption criteria. This review is based upon available information and agency policies in place at the time of evaluation.*

A. GENERAL INFORMATION: Applicant's Name: Amy Woodruff County: Harney

A1. Applicant(s) seek(s) 6.5 cfs from 5 well(s) in the Malheur Lake Basin,
subbasin Quad Map: Dog Mountain

A2. Proposed use: Irrigation Seasonality: March 1 – October 31

A3. Well and aquifer data (attach and number logs for existing wells; mark proposed wells as such under logid):

Well	Logid	Applicant's Well #	Proposed Aquifer*	Proposed Rate(cfs)	Location (T/R-S QQ-Q)	Location, metes and bounds, e.g. 2250' N, 1200' E fr NW cor S 36
1	na	1	Alluvium/bedrock	3.34	25S/30E-01 ctr. of S 01	2640' N, 2640' W fr SE cor S 01
2	na	2	Alluvium/bedrock	3.34	25S/30E-01 E ¼ cor S 01	2640' N fr SE cor S 01
3	na	3	Alluvium/bedrock	3.34	25S/31E-01 ctr. of S 06	2640' N, 2640' E fr SW cor S 06
4	na	4	Alluvium/bedrock	3.34	25S/31E-01 ? S 06	1320' N, 2640' E fr SW cor S 06
5	na	5	Alluvium/bedrock	3.34	25S/31E-01 W 1/16 th cor S 06	1320' E fr SW cor S 06

* Alluvium, CRB, Bedrock

Well	Well Elev ft msl	First Water ft bls	SWL ft bls	SWL Date	Well Depth (ft)	Seal Interval (ft)	Casing Intervals (ft)	Liner Intervals (ft)	Perforations Or Screens (ft)	Well Yield (gpm)	Draw Down (ft)	Test Type
1	4170	na	na	na	310	0-20	0-300	na	30-300	na	na	
2	4155	na	na	na	310	0-20	0-300	na	30-300	na	na	
3	4145	na	na	na	310	0-20	0-300	na	30-300	na	na	
4	4150	na	na	na	310	0-20	0-300	na	30-300	na	na	
5	4160	na	na	na	310	0-20	0-300	na	30-300	na	na	

Use data from application for proposed wells.

A4. Comments: None of the wells have been drilled yet. Construction details are proposed.

A5. ☐ Provisions of the Malheur Lake Basin rules relative to the development, classification and/or management of ground water hydraulically connected to surface water ☐ are, or ☒ are not, activated by this application.
(Not all basin rules contain such provisions.)

Comments: Div. 512

A6. ☐ Well(s) # _____, _____, _____, _____, _____, tap(s) an aquifer limited by an administrative restriction.

Name of administrative area: _____

Comments: _____

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SALEM, OREGON

Version: 08/15/2003

B. GROUND WATER AVAILABILITY CONSIDERATIONS, OAR 690-310-130, 400-010, 410-0070

B1. Based upon available data, I have determined that ground water* for the proposed use:

- a. ☐ is over appropriated, ☐ is not over appropriated, or ☒ cannot be determined to be over appropriated during any period of the proposed use. * This finding is limited to the ground water portion of the over-appropriation determination as prescribed in OAR 690-310-130;
- b. ☐ will not or ☐ will likely be available in the amounts requested without injury to prior water rights. * This finding is limited to the ground water portion of the injury determination as prescribed in OAR 690-310-130;
- c. ☐ will not or ☐ will likely to be available within the capacity of the ground water resource; or
- d. ☒ will, if properly conditioned, avoid injury to existing ground water rights or to the ground water resource:
 - i. ☒ The permit should contain condition #(s) 7B, 7F, 7N;
 - ii. ☐ The permit should be conditioned as indicated in item 2 below.
 - iii. ☐ The permit should contain special condition(s) as indicated in item 3 below;

- B2.
- a. ☐ Condition to allow ground water production from no deeper than _____ ft. below land surface;
 - b. ☐ Condition to allow ground water production from no shallower than _____ ft. below land surface;
 - c. ☐ Condition to allow ground water production only from the _____ ground water reservoir between approximately _____ ft. and _____ ft. below land surface;
 - d. ☐ Well reconstruction is necessary to accomplish one or more of the above conditions. The problems that are likely to occur with this use and without reconstructing are cited below. Without reconstruction, I recommend withholding issuance of the permit until evidence of well reconstruction is filed with the Department and approved by the Ground Water Section.

Describe injury –as related to water availability– that is likely to occur without well reconstruction (interference w/ senior water rights, not within the capacity of the resource, etc): _____

B3. Ground water availability remarks: _____

The two wells are located immediately south of Wrights Point, a lava-filled valley remaining today as a topographic high after softer material was eroded away. Surficial deposits at the site are mapped as Qa (alluvium along streams), and are bordered immediately on all sides and below by Tvs, a Pliocene sequence of volcanic, pyroclastic, and sedimentary rocks. The alluvial deposits consist of fine- to coarse-grained material, generally being coarser near the valley margins and fining towards the valley center. At this site the alluvial sediments are limited in extent. There are no well logs in GRID for 25S/30E-01, and only 6 well logs in 25S/31E-06 (attached). Data from these well logs gives alluvial thickness ranging from 20 to over 200 feet. The proposed well construction will have the wells likely completed in both the alluvium and underlying Tvs rocks. The degree of confinement likely increases with depth. Limited well log data in the area suggest the alluvial aquifer is more unconfined than confined. HARN 1111 reports a well yield of 500+ gpm. It is unlikely that any single well will yield the 3.34 cfs rate. A limited understanding of the flow system suggests a fair degree of hydraulic connection between the alluvial material and the underlying Tvs unit.

There are data from old state observation well HARN 874 located in section 28 NE of this applicant's wells. Water levels fluctuated from 2-10 feet below ground from 1930-76; no recent data have been collected at this well.

Leonard (1970, plate 2) presents water level elevations just north of the Wrights Point of approximately 4110-4115 feet, with a gradient to the southeast towards Malheur Lake.

Static water levels are likely to range from 20-30 feet bgs at this location.

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C. GROUND WATER/SURFACE WATER CONSIDERATIONS, OAR 690-09-040**C1. 690-09-040 (1): Evaluation of aquifer confinement:**

Well	Aquifer or Proposed Aquifer	Confined	Unconfined
1	Alluvial & Bedrock	☐	☒
2	Alluvial & Bedrock	☐	☒
3	Alluvial & Bedrock	☐	☒
4	Alluvial & Bedrock	☐	☒
5	Alluvial & Bedrock	☐	☒

Basis for aquifer confinement evaluation: Some reported water levels from well logs in this area are similar to the depth at which they were encountered; different water bearing zones with comparable heads. Degree of confinement likely increases with depth due to layered nature of sediments.

C2. 690-09-040 (2) (3): Evaluation of distance to, and hydraulic connection with, surface water sources. All wells located a horizontal distance less than ¼ mile from a surface water source that produce water from an unconfined aquifer shall be assumed to be hydraulically connected to the surface water source. Include in this table any streams located beyond one mile that are evaluated for PSI.

Well	SW #	Surface Water Name	GW Elev ft msl	SW Elev ft msl	Distance (ft)	Hydraulically Connected?			Potential for Subst. Interfer. Assumed?	
						YES	NO	ASSUMED	YES	NO
1-5	1	Malheur Lake	~4130	4095	54,000	☒	☐	☐	☐	☒
						☐	☐	☐	☐	☐
						☐	☐	☐	☐	☐
						☐	☐	☐	☐	☐
						☐	☐	☐	☐	☐
						☐	☐	☐	☐	☐
						☐	☐	☐	☐	☐
						☐	☐	☐	☐	☐
						☐	☐	☐	☐	☐

Basis for aquifer hydraulic connection evaluation: Malheur Lake is the basin outlet for groundwater flow (through evaporation).

Water Availability Basin the well(s) are located within: No WAB at applicant's site

C3a. 690-09-040 (4): Evaluation of stream impacts for each well that has been determined or assumed to be hydraulically connected and less than 1 mile from a surface water source. Limit evaluation to instream rights and minimum stream flows that are pertinent to that surface water source, and not lower SW sources to which the stream under evaluation is tributary. Compare the requested rate against the 1% of 80% natural flow for the pertinent Water Availability Basin (WAB). If Q is not distributed by well, use full rate for each well. Any checked ☒ box indicates the well is assumed to have the potential to cause PSI.

Well	SW #	Well < ¼ mile?	Qw > 5 cfs?	Instream Water Right ID	Instream Water Right Q (cfs)	Qw > 1% ISWR?	80% Natural Flow (cfs)	Qw > 1% of 80% Natural Flow?	Interference @ 30 days (%)	Potential for Subst. Interfer. Assumed?
		☐	☐			☐		☐		☐
		☐	☐			☐		☐		☐
		☐	☐			☐		☐		☐
		☐	☐			☐		☐		☐
		☐	☐			☐		☐		☐
		☐	☐			☐		☐		☐
		☐	☐			☐		☐		☐
		☐	☐			☐		☐		☐

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	SW #		Qw > 5 cfs?	Instream Water Right ID	Instream Water Right Q (cfs)	Qw > 1% ISWR?	80% Natural Flow (cfs)	Qw > 1% of 80% Natural Flow?	Interference @ 30 days (%)	Potential for Subst. Interfer. Assumed?
			☐			☐		☐		☐
			☐			☐		☐		☐
			☐			☐		☐		☐
			☐			☐		☐		☐

Comments: _____

[illegible]

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D. WELL CONSTRUCTION, OAR 690-200

- D1. Well #: _____ Logid: _____
- D2. **THE WELL 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) _____
- D3. **THE WELL construction deficiency:**
- a. ☐ constitutes a health threat under Division 200 rules;
 - b. ☐ commingles water from more than one ground water reservoir;
 - c. ☐ permits the loss of artesian head;
 - d. ☐ permits the de-watering of one or more ground water reservoirs;
 - e. ☐ other: (specify) _____
- D4. **THE WELL construction deficiency is described as follows:** _____

- D5. **THE WELL**
- a. ☐ was, or ☐ was not constructed according to the standards in effect at the time of original construction or most recent modification.
 - b. ☐ I don't know if it met standards at the time of construction.
- D6. ☐ **Route to the Enforcement Section.** I recommend withholding issuance of the permit until evidence of well reconstruction is filed with the Department and approved by the Enforcement Section and the Ground Water Section.

THIS SECTION TO BE COMPLETED BY ENFORCEMENT PERSONNEL

- D7. ☐ Well construction deficiency has been corrected by the following actions: _____

- _____, 200 ____.
- (Enforcement Section Signature)

- D8. ☐ **Route to Water Rights Section** (attach well reconstruction logs to this page).

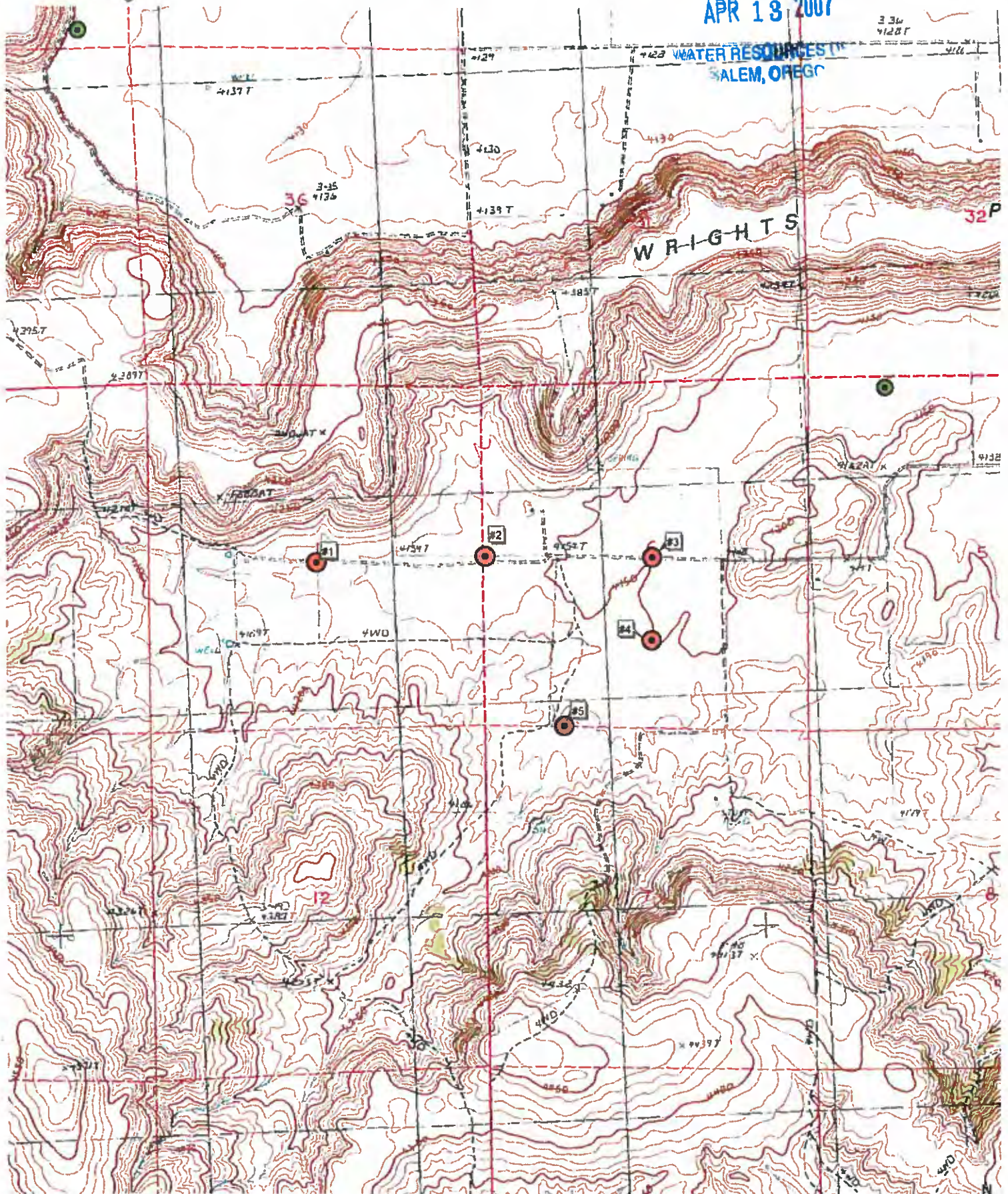
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Version: 08/15/2003

G-16751 Woodruff 25S/31E-06

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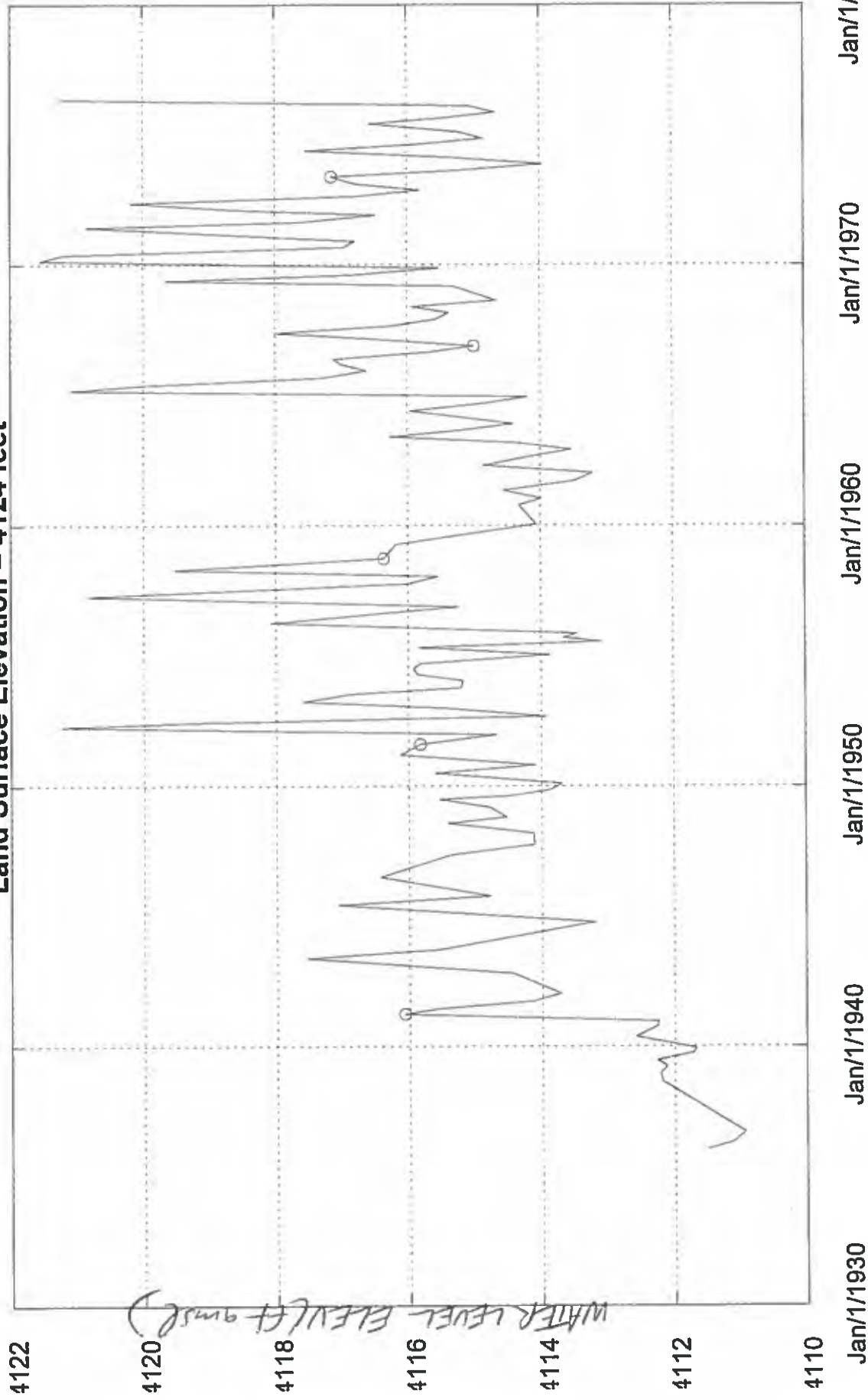


2000 0 2000 4000 6000 8000 10000 12000 Fe

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HARN 874 Hydrograph
Land Surface Elevation = 4124 feet



255/31E-6nd
(for official use only)

SP*46888-690:

NOTICE TO WATER WELL CONTRACTOR

The original and first copy of this report
are to be filed with the

WATER RESOURCES DEPARTMENT
SALEM, OREGON 97310
within 30 days from the date
of well completion.

WATER WELL REPORT

STATE OF OREGON DEC 22 1981

(Please type or print)

(Do not write above this line)

State Well No. 2553/E-6

State Permit No.

OREGON

Reconditioning

(1) OWNER:

Name Dorothy CarsonAddress Lawn, Oregon

(2) TYPE OF WORK (check):

New Well ☐ Deepening ☐ Reconditioning ☒ Abandon ☐

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary ☐ Driven ☐Cable ☒ Jetted ☐Dug ☐ Bored ☐

(4) PROPOSED USE (check):

Domestic ☐ Industrial ☐ Municipal ☐Irrigation ☐ Test Well ☐ Other ☒ stock

(5) CASING INSTALLED:

Threaded ☐ Welded ☒

6" Diam. from 0 ft. to 55 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

Type Model No.

Diam. Slot size Set from ft. to ft.

Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:

Drawdown is amount water level is
lowered below static levelWas a pump test made? ☐ Yes ☒ No If yes, by whom?

Yield: gal./min. with ft. drawdown after hrs.

" " " "

" " " "

Ball test 20 gal./min. with 10 ft. drawdown after 1 hrs.

Artesian flow g.p.m.

Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:

Well seal—Material used cement

Well sealed from land surface to 20 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 8 sacks

How was cement grout placed? From bottom up through

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 Harney

Driller's well number

SE 1/4 NE 1/4 Section 6 T. 25S R. 31E W.M.

Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.

Depth at which water was first found Water present at startStatic level 10 ft. below land surface. Date July 15

Artesian pressure lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing 6

Depth drilled 75 ft. Depth of completed well 75 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
sand, black, fine	30	40	10
clay, gray	40	60	10
clay, gray/sand, black	60	75	10

original well had sanded in to
30 ft., the bottom of the casing.
original casing was pulled and the well
was completed as new construction.

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WATER RESOURCES DEPT
SALEM, OREGONWork started July 15 19 81 Completed July 20 19 81Date well drilling machine moved off of well July 20 19 81

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] John V. Oetter Date Aug 15, 1981.
(Drilling Machine Operator)

Drilling Machine Operator's License No. 773

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 Oetter Drilling & Irrigation Co.
(Person, firm or corporation) (Type or print)

Address P.O. Box 876 Crane, Oregon 97732

[Signed] John V. Oetter
(Water Well Contractor)

Contractor's License No. 773 Date July Aug. 15, 1981.

(USE ADDITIONAL SHEETS IF NECESSARY)

SP-45056-110

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WATER WELL REPORT STATE OF OREGON

SEP 04 1981

WATER RESOURCES DEPT
SALEM, OREGON

State Well No. 255/31E-6

State Permit No.

Temp abandoned

(1) OWNER:

Name Robert Harris
Address P.O. Box 1095
City Burns State OR 97730

(2) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary Air ☒ Driven ☐
Rotary Mud ☐ Dig ☐
Cable ☐ Bored ☐

(4) PROPOSED USE (check):

Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☒ Other ☐
Thermal: Withdrawal ☐ ReInjection ☐

(5) CASING INSTALLED:

Steel ☐ Plastic ☐
Threaded ☐ Welded ☐

....." Diam. from ft. to ft. Gauge
....." Diam. from NONE ft. Gauge

LINER INSTALLED:

....." Diam. from ft. to ft. Gauge

(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

Type Model No.

Diam. Slot Size Set from ft. to ft.

Diam. Slot Size Set from ft. to ft.

(8) WELL TESTS:

Drawdown is amount water level is lowered below static level

Was a pump test made? ☐ Yes ☒ No If yes, by whom?

..... gal./min. with ft. drawdown after hrs.

Air test 500 + gal./min. with drill stem at 260 ft. 2.5 hrs.

Ballor test gal./min. with ft. drawdown after hrs.

Artesian flow g.p.m.

..... temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:

Special standards: Yes ☒ No ☐

Well seal—Material used Bentonite

Well sealed from land surface to ft.

Diameter of well bore to bottom of seal in.

Diameter of well bore below seal in.

Number of sacks of cement used in well seal sacks

How was cement grout placed?

Was pump installed? Type HP Depth ft.

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 Harney Driller's well number D-384881
NE 1/4 SE 1/4 Section 6 T. 25S R. 31E W.M.
Tax Lot # Lot Blk Subdivision
Address at well location:

(11) WATER LEVEL: Completed well.

Depth at which water was first found 90 ft.

Static level 21 ft. below land surface. Date 8-31-81

Artesian pressure lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing 6

Depth drilled 570 ft. Depth of completed well 570 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
Top Soil Br Sand	0	2	
Sandstone w/ strips Chert	2	90	
Light Brown			
CLAY Block	90	100	
CLAY Stone Gray	100	120	
CLAY Stone Brown	120	130	
CLAY Stone Gray	130	550	
CLAY Stone Fractured w/B	550	570	21

Temporary Abandoned
Plug was placed at 198 ft top of hole was filled w/ Bentonite.

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WATER RESOURCES DEPT

Work started 8-28-81 Completed 8-31-81

Date well drilling machine moved off of well 8-31-81

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) Kurt M. Mace Date 9-1-81
(Drilling Machine Operator)

Drilling Machine Operator's License No. 13413

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 St. M. Drilling & Supply, Inc.
(Person, firm or corporation) (Type or print)

Address 399 S. 4th St. Conby, OR

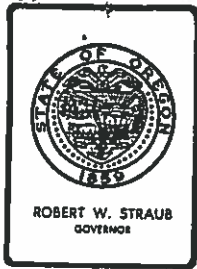
(Signed) W. Mace
(Water Well Contractor)

Contractor's License No. 497 Date 9-1-81

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report
are to be filed with the

WATER RESOURCES DEPARTMENT,
SALEM, OREGON 97310
within 30 days from the date of well completion.

SP-12858-690



Water Resources Department

HARNEY COUNTY COURTHOUSE, BURNS, OREGON 97720 PHONE (573-2591)

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SEP 04 1981

WATER RESOURCES DEPT
SALEM, OREGON

September 2, 1981

*Water Resources Dept
Well dept.*

*This well drilled by Walt Mace will
be abandoned for about 3 weeks, so I told him
it would be O.K. to put a bentonite plug to 20'
Until his other drill rig gets here to ream this well
out.*

Sincerely,

*William H. Bend
Walt Mace's dist #10
P.O. 1147
Burns Oregon 97720*

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WATER RESOURCES DEPT
SALEM, OREGON

Special Standard

10

10

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JUN - 1 1993

25s/31e/6

ORIGINAL,
File Original, and
Duplicate with the
STATE ENGINEER,
SALEM, OREGON

WATER RESOURCES DEPT.
WATER WELL DRILLING
STATE OF OREGON

Do Not State Well No.

Fill In

State Permit No.

(1) OWNER:

Name Lucy Osborn
Address 24115, Oregon

(2) LOCATION OF WELL:

County Harney Owner's number, if any...

R. F. D. or Street No.

Bearing and distance from section or subdivision corner

T-25-S R-31-E SE 1/4
NW 1/4 Sec 6

(3) TYPE OF WORK (check):

New well ☒ Deepening ☐ Remedial work ☐ Abandon ☐

Randomly, describe material and procedure in Item 11.

(4) PROPOSED USE (check):

Domestic ☐ Industrial ☐ Municipal ☐

Irrigation ☐ Test Well ☐ Other ☐

(5) EQUIPMENT:

Rotary ☐

Cable ☒

Dug Well ☐

(6) CASING INSTALLED:

Threaded ☐ Welded ☒

FROM	ft. to	ft.	Diam.	Charge or Wall
0"	60"	12	1 1/4"	
"	"	"	"	"
"	"	"	"	"
"	"	"	"	"

If gravel packed

Diameter of bore	from ft.	to ft.
"	"	"
"	"	"
"	"	"
"	"	"

Type and size of shoe or well ring

Describe joint

Size of gravel:

(7) PERFORATIONS:

Type of perforator used

SE of perforations	In. length, by	In.
FROM	ft. to	ft.
"	"	"
"	"	"
"	"	"
"	"	"
"	"	"
"	"	"
"	"	"
"	"	"
"	"	"

SCREENS:

Give Manufacturer's Name, Model No. and Size

CONSTRUCTION:

Was a surface sanitary seal provided? ☒ Yes ☐ No To what depth ft.

Were any struts sealed against pollution? ☐ Yes ☒ No

If yes, note depth of struts

FROM	ft. to	ft.
"	"	"
"	"	"
"	"	"

METHOD OF SEALING

(8) WATER LEVELS:

Depth at which water was first found 280 ft.

Standing level before perforating ft.

Standing level after perforating ft.

Log Accepted by:

[Signature] Owner Date 10/1/93

(10) WELL TESTS:

Was a pump test made? ☐ Yes ☒ No If yes, by whom?

Yield: gal./min. with ft. draw down after

" " "

" " "

Artesian flow ft. p.m.

Shut-in pressure lbs. per square inch.

Water test g.p.m. with ft. drawdo

Temperature of water Was a chemical analysis made? ☐ Yes ☒ No

Was electric log made of well? ☐ Yes ☒ No

(11) WELL LOG:

Diameter of well, 12 inches.

Total depth 335. Depth of completed well 335

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in stratum penetrated, with at least one entry for each change of formation

0 ft. to 3 ft. Soil

3 " 32 " Sand & Gravel mix

32 " 280 " Blue Clay

280 " 330 " Black Sandstone

330 " 335 " Green Clay

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WATER RESOURCES DEPT.
SALEM, OREGON

Ground elevation at well site feet above mean sea level

Work started March 10 1966 Completed May 10 1966

Well Driller's Statement:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Crane Drilling Co

(Person, firm, or corporation) (Type or printed)

Address 1111 N. Main

Driller's well number 341

(Signed) Jack W. Crane

(Well Driller)

License No. 124 Dated Mar 16 1967

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STATE OF OREGON
WATER SUPPLY WELL REPORT WATER RESOURCES DEPT.
(as required by ORS 537.765) SALEM, OREGON
Instructions for completing this report are on the last page of this form.

(1) OWNER: Well Number _____
Name Penny Sharp
Address HC 71, Box 36 C
City BURNS State OR Zip 97720

(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 257 ft.
Explosives used ☐ Yes ☒ No Type _____ Amount _____

HOLE SEAL
Diameter From To Material From To Sacks or bags
10" 0 22' Cement 3' 22' 24
8" 22' 257' _____

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: 6" 1" 159' 250 ☒ ☐ ☒ ☐
6" 1" 159' 250 ☐ ☐ ☐ ☐
Liner: _____ ☐ ☐ ☐ ☐

Final location of shoe(s) 159'

(7) PERFORATIONS/SCREENS:
☐ Perforations Method _____
☐ Screens Type _____ Material _____
From To Slot size Number Diameter Tele/plug size Casing Liner
NONE

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

☐ Pump ☒ Bailer ☐ Air ☐ Flowing
Yield gal/min Drawdown Drill stem at Time
18 68' _____ 2 hr

Temperature of water 54 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: _____

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WELL I.D. # L 18172
START CARD # 106117

(9) LOCATION OF WELL by legal description:
SALEM, OREGON Latitude _____ Longitude _____
Township 25 N or S Range 31 E or W
Section 6 NE 1/4 SW 1/4
Tax Lot 300 Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) approx 2 1/2 miles West of hwy 20 on SUNSET Rd.

(10) STATIC WATER LEVEL:
57' ft. below land surface. Date 12-24-98
Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:
Depth at which water was first found 154'

From	To	Estimated Flow Rate	SWL
<u>154'</u>	<u>157'</u>	<u>4 gpm</u>	<u>57</u>
<u>237'</u>	<u>239'</u>	<u>14 gpm</u>	<u>57</u>

(12) WELL LOG:
Ground Elevation _____

Material	From	To	SWL
<u>Sandy loam</u>	<u>0</u>	<u>2'</u>	
<u>Sandstone</u>	<u>2'</u>	<u>25'</u>	
<u>Brown Clay</u>	<u>25'</u>	<u>72'</u>	
<u>Clay Clay</u>	<u>72'</u>	<u>154'</u>	
<u>Coarse sand</u>	<u>154'</u>	<u>157'</u>	<u>57'</u>
<u>Brown Clay</u>	<u>157'</u>	<u>203'</u>	
<u>Clay Clay</u>	<u>203'</u>	<u>237'</u>	
<u>Fine sand</u>	<u>237'</u>	<u>239'</u>	<u>57'</u>
<u>Green Clay</u>	<u>239'</u>	<u>257'</u>	

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WATER RESOURCES DEPT.
SALEM, OREGON

Date started 11-19-98 Completed 12-24-98
(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 George Valentine WWC Number 1675 Date 12-24-98

(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 Joe Valentine WWC Number 1435 Date 12-24-98

ORIGINAL & FIRST COPY-WATER RESOURCES DEPARTMENT SECOND COPY-CONSTRUCTOR THIRD COPY-CUSTOMER

