Application for a Permit to Use

Ground Water

Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301-1266
(503) 986-0900
www.wrd.state.or.us

SECTION 1: APPLICANT INFORMATION AND SIGNATURE

Applicant Information

NAME				PHONE (HM)
Faith Land Company, LLC				
PHONE (WK) (541) 216-9015	CELL (541) 216-9015			FAX (775) 777-8837
ADDRESS 3716 East Idaho Street Suite A				
CITY Elko	STATE NV	ZIP 89801	E-MAIL N/A	

Organization Information

NAME				PHONE	FAX
Faith Land Company, LLC				(541) 216-9015	(775) 777-8837
ADDRESS 3716 East Idaho Street Suite A					CELL
CITY Elko	STATE NV	ZIP 89801	E-MAIL N/A		

Agent Information – The agent is authorized to represent the applicant in all matters relating to this application.

AGENT / BUSINESS NAME				PHONE	FAX
CK3, LLC - Attn: Stu Edwards				(541) 889-5411	(541) 889-2074
ADDRESS 368 SW 5th Avenue					CELL (208) 739-0313
CITY Ontario	STATE OR	ZIP 97914	E-MAIL stu@ck3llc.net		

Note: Attach multiple copies as needed

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.
- I cannot use water legally until the Water Resources Department issues a permit.
- Oregon law requires that a permit be issued before beginning construction of any proposed well, unless the use is exempt. Acceptance of this application does not guarantee a permit will be issued.
- 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 cancelled.
- The water use must be compatible with local comprehensive land-use plans.
- Even if the Department issues a permit, I may have to stop using water to allow senior water-right holders to get water to which they are entitled.

I (we) affirm that the information contained in this application is true and accurate.

Applicant Signature	Print Name *and title if applicable*	Date
Dustin A. Baker	Dustin A. Baker	8-10-10

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For Department Use

App. No. G-17420 Permit No. _____ Date _____

SECTION 2: PROPERTY OWNERSHIP

Please indicate if you own all the lands associated with the project from which the water is to be diverted, conveyed, and used.

☒ Yes
- ☒ There are no encumbrances.
- ☐ This land is encumbered by easements, rights of way, roads or other encumbrances.

☐ No
- ☐ I have a recorded easement or written authorization permitting access.
- ☐ I do not currently have written authorization or easement permitting access.
- ☐ Written authorization or an easement is not necessary, because the only affected lands I do not own are state-owned submersible lands, and this application is for irrigation and/or domestic use only (ORS 274.040).
- ☐ Water is to be diverted, conveyed, and/or used only on federal lands.

List the names and mailing addresses of all affected landowners *(attach additional sheets if necessary)*.

All lands are owned by Applicant

SECTION 3: WELL DEVELOPMENT

		IF LESS THAN 1 MILE:	
WELL NO.	NAME OF NEAREST SURFACE WATER	DISTANCE TO NEAREST SURFACE WATER	ELEVATION CHANGE BETWEEN NEAREST SURFACE WATER AND WELL HEAD
1	East Fork Malheur River	N/A	N/A
2	East Fork Malheur River	N/A	N/A
3	East Fork Malheur River	N/A	N/A
4	East Fork Malheur River	N/A	N/A
5	East Fork Malheur River	N/A	N/A
6	East Fork Malheur River	N/A	N/A

Please provide any information for your existing or proposed well(s) that you believe may be helpful in evaluating your application. For existing wells, describe any previous alteration(s) or repair(s) not documented in the attached well log or other materials *(attach additional sheets if necessary)*.

Well No. 5 and 6 are the backup locations in case the other four wells do not produce the required flows for the five pivots and wheel lines.

Pivot 1 requires1296 gpm, Pivot 2, 3 and 4 require 696 gpm each and pivot 5 requires 320 gpm.

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SECTION 3: WELL DEVELOPMENT, CONTINUED

Source (aquifer), if known: Malheur Basin

Total maximum rate requested: 1980 Ac. Ft. (each well will be evaluated at the maximum rate unless you indicate well-specific rates and annual volumes in the table below).

Complete the table below. If this is an existing well, the following information may be found on the applicable well log. *(If a well log is available, please submit it in addition to completing the table.)* If this is a proposed well, or well-modification, consider consulting with a licensed well driller, geologist, or certified water right examiner.

T.B.D. = To Be Determined after wells are drilled.

										PROPOSED USE			
OWNER'S WELL NAME OR NO.	PROPOSED	EXISTING	WELL ID (WELL TAG) NO.* OR WELL LOG ID**	FLOWING ARTESIAN	CASING DIAMETER	CASING INTERVALS (IN FEET)	PERFORATED OR SCREENED INTERVALS (IN FEET)	SEAL INTERVALS (IN FEET)	MOST RECENT STATIC WATER LEVEL & DATE (IN FEET)	SOURCE AQUIFER***	TOTAL WELL DEPTH	WELL-SPECIFIC RATE (GPM)	ANNUAL VOLUME (ACRE-FEET)
1	■	☐	N/A	☐	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	Malheur Basin	450'	T.B.D.	T.B.D.
2	■	☐	N/A	☐	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	Malheur Basin	450'	T.B.D.	T.B.D.
3	■	☐	N/A	☐	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	Malheur Basin	450'	T.B.D.	T.B.D.
4	■	☐	N/A	☐	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	Malheur Basin	450'	T.B.D.	T.B.D.
5	■	☐	N/A	☐	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	Malheur Basin	450'	T.B.D.	T.B.D.
6	■	☐	N/A	☐	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	Malheur Basin	450'	T.B.D.	T.B.D.
	☐	☐		☐									
	☐	☐		☐									

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* Licensed drillers are required to attach a Department-supplied Well Tag, with a unique Well ID or Well Tag Number to all new or newly altered wells. Landowners can request a Well ID for existing wells that do not have one. The Well ID is intended to serve as a unique identification number for each well.

** A well log ID (e.g. MARI 1234) is assigned by the Department to each log in the agency's well log database. A separate well log is required for each subsequent alteration of the well.

*** Source aquifer examples: Troutdale Formation, gravel and sand, alluvium, basalt, bedrock, etc.

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SECTION 4: WATER USE

USE	PERIOD OF USE	ANNUAL VOLUME (ACRE-FEET)
Irrigation	March1 to October 31	1,980

Exempt Uses: Please note that 15,000 gallons per day for single or group **domestic** purposes and 5,000 gallons per day for a single **industrial or commercial** purpose are exempt from permitting requirements.

For irrigation use only:
Please indicate the number of primary and supplemental acres to be irrigated (*must match map*).

Primary: 660.16 Acres Supplemental: 0.00 Acres

List the Permit or Certificate number of the underlying primary water right(s): N/A

Indicate the maximum total number of acre-feet you expect to use in an irrigation season: _____

- If the use is **municipal or quasi-municipal**, attach **Form M**
- If the use is **domestic**, indicate the number of households: N/A
- If the use is **mining**, describe what is being mined and the method(s) of extraction: N/A

SECTION 5: WATER MANAGEMENT

A. Diversion and Conveyance

What equipment will you use to pump water from your well(s)?

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■ Pump (give horsepower and type): To Be Determined (estimated at 100 HP per well)

☐ Other means (describe): _____

Provide a description of the proposed means of diversion, construction, and operation of the diversion works and conveyance of water. 4 to 6 wells connected to a pipe line connected to 5 high pressure pivots and Wheel lines.

B. Application Method

What equipment and method of application will be used? (e.g., drip, wheel line, high-pressure sprinkler)
5 High Pressure Pivot Sprinklers and Wheel lines.

C. Conservation

Please describe why the amount of water requested is needed and measures you propose to: prevent waste; measure the amount of water diverted; prevent damage to aquatic life and riparian habitat; prevent the discharge of contaminated water to a surface stream; prevent adverse impact to public uses of affected surface waters.
The use of sprinkler pivots and wheel lines will conserve water compared to open ditch and corrugated fields.

SECTION 6: STORAGE OF GROUND WATER IN A RESERVOIR

If you would like to store ground water in a reservoir, complete this section *(if more than one reservoir, reproduce this section for each reservoir).*

Reservoir name: N/A Acreage inundated by reservoir: N/A

Use(s): N/A

Volume of Reservoir (acre-feet): N/A Dam height (feet, if excavated, write "zero"): N/A

***Note**: If the dam height is greater than or equal to 10.0' above land surface **AND** the reservoir will store 9.2 acre feet or more, engineered plans and specifications must be approved prior to storage of water.*

SECTION 7: USE OF STORED GROUND WATER FROM THE RESERVOIR

If you would like to use stored ground water from the reservoir, complete this section *(if more than one reservoir, reproduce this section for each reservoir).*

Annual volume (acre-feet): N/A

USE OF STORED GROUND WATER	PERIOD OF USE
N/A	N/A

SECTION 8: PROJECT SCHEDULE

Date construction will begin: September 1, 2010

Date construction will be completed: March 1, 2011

Date beneficial water use will begin: April 1, 2011

SECTION 9: REMARKS

Use this space to clarify any information you have provided in the application *(attach additional sheets if necessary).*

The information provided is based on proposed construction, unknown (T.B.D.) units will be provided after construction of the wells.

(T.B.D. = To Be Determined)

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Land Use Information Form

Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301-1266
(503) 986-0900
www.wrd.state.or.us

Applicant: Faith Land Company, LLC (First) _____ (Last)

Mailing Address: 3716 East Idaho Street Suite A

Elko (City) NV (State) 89801 (Zip) Daytime Phone: (541) 216-9015

A. Land and Location

Please include the following information for all tax lots where water will be diverted (taken from its source), conveyed (transported), and/or used or developed. 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.

Township	Range	Section	¼ ¼	Tax Lot #	Plan Designation (e.g., Rural Residential/RR-5)	Water to be:	Proposed Land Use:
19S	43E	11	SW	3000	A2	☐ Diverted ☐ Conveyed ■ Used	IRR
19S	43E	12	SW	3000 & 4000	A2	☐ Diverted ☐ Conveyed ■ Used	IRR
19S	43E	13	All	4400 & 4500	A2	☐ Diverted ☐ Conveyed ■ Used	IRR
19S	43E	14	All	3000,4600,4700	A2	☐ Diverted ☐ Conveyed ■ Used	IRR

List all counties and cities where water is proposed to be diverted, conveyed, and/or used or developed:

Malheur County

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B. Description of Proposed Use

Type of application to be filed with the Water Resources Department:

■ Permit to Use or Store Water ☐ Water Right Transfer ☐ Permit Amendment or Ground Water Registration Modification
☐ Limited Water Use License ☐ Allocation of Conserved Water ☐ Exchange of Water

Source of water: ☐ Reservoir/Pond ■ Ground Water ☐ Surface Water (name) _____

Estimated quantity of water needed: 1,980 ☐ cubic feet per second ☐ gallons per minute ■ acre-feet

Intended use of water: ■ Irrigation ☐ Commercial ☐ Industrial ☐ Domestic for _____ household(s)
☐ Municipal ☐ Quasi-Municipal ☐ Instream ☐ Other _____

Briefly describe:

For the use of Irrigating land for growing hay with 4 high pressure pivot irrigation lines connected to 4 to 6 wells.

Note to applicant: If the Land Use Information Form cannot be completed while you wait, please have a local government representative sign the receipt at the bottom of the next page and include it with the application filed with the Water Resources Department.

See bottom of Page 3. →

For Local Government Use Only

The following section must be completed by a planning official from each county and city listed unless the project will be located entirely within the city limits. In that case, only the city planning agency must complete this form. This deals only with the local land-use plan. Do not include approval for activities such as building or grading permits.

Please check the appropriate box below and provide the requested information

☑ Land uses to be served by the proposed water uses (including proposed construction) are allowed outright or are not regulated by your comprehensive plan. Cite applicable ordinance section(s): MCC Chap 6.

☐ Land uses to be served by the proposed water uses (including proposed construction) involve discretionary land-use approvals as listed in the table below. (Please attach documentation of applicable land-use approvals which have already been obtained. Record of Action/land-use decision and accompanying findings are sufficient.) **If approvals have been obtained but all appeal periods have not ended, check "Being pursued."**

Type of Land-Use Approval Needed (e.g., plan amendments, rezones, conditional-use permits, etc.)	Cite Most Significant, Applicable Plan Policies & Ordinance Section References	Land-Use Approval:	
		☐ Obtained ☐ Denied	☐ Being Pursued ☐ Not Being Pursued
		☐ Obtained ☐ Denied	☐ Being Pursued ☐ Not Being Pursued
		☐ Obtained ☐ Denied	☐ Being Pursued ☐ Not Being Pursued
		☐ Obtained ☐ Denied	☐ Being Pursued ☐ Not Being Pursued
		☐ Obtained ☐ Denied	☐ Being Pursued ☐ Not Being Pursued

Local governments are invited to express special land-use concerns or make recommendations to the Water Resources Department regarding this proposed use of water below, or on a separate sheet.

Name: Jon D Beal Title: Planning Dir

Signature: Jon D Beal Phone: 541-473-5185 Date: 8-6-10

Government Entity: Malheur Co

Note to local government representative: Please complete this form or sign the receipt below and return it to the applicant. If you sign the receipt, you will have 30 days from the Water Resources Department's notice date to return the completed Land Use Information Form or WRD may presume the land use associated with the proposed use of water is compatible with local comprehensive plans.

Receipt for Request for Land Use Information

Applicant name: _____

City or County: _____ Staff contact: _____ SEP 03 2010

Signature: _____ Phone: _____ Date: _____

INSTRUMENT NO. 2004 – 5355
Page 1 of 5 Pages

Prepared by:
YTURRI ROSE LLP
P.O. Box S
Ontario, OR 97914

RECORDER'S INFORMATION:

Inst. No. 2004-5355 (3rd)
I certify that the within instrument of writing was received for record on the 30 day of July, 2004 at 1:50 o'clock P M. FEE $41
STATE OF OREGON, County of Malheur
DEBORAH R. DeLONG
County Clerk
By: Deborah R. DeLong Deputy

Until a change is requested, all tax statements shall be sent to:
Faith Land Co., LLC
285 Spring Creek Parkway #1
Spring Creek NV 89815

After recording return to:
Yturri Rose LLP
P.O. Box S
Ontario, OR 97914

CORRECTED BARGAIN AND SALE DEED

*This Deed is being rerecorded to correct an erroneous legal description.

Little Valley Ranch Co., L.L.C., an Oregon Limited Liability Company, Grantor, conveys to Faith Land Company, LLC, an Oregon Limited Liability Company, Grantee, the following described real property:

See Exhibit A attached hereto and by this reference incorporated herein

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 30.930.

The true consideration for this conveyance is: Dissolution of Little Valley Ranch Co., L.L.C. and final Distribution of L.L.C. Assets.

SEP 03 2013

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INSTRUMENT NO. 2004 - 4758
Page 1 of 3 Pages

Prepared by:
YTURRI ROSE LLP
P.O. Box S
Ontario, OR 97914

re-recorded
INSTRUMENT NO. 2004 - 4903
Page 1 of 3 Pages

RECORDER'S INFORMATION:

Inst. No. 2004-4758 (1st)
I certify that the within Instrument of writing was received for record on the 2 day of July, 20 04 at 11:15 O'clock A M. FEE #31
STATE OF OREGON, County of Malheur
DEBORAH R. DeLONG
County Clerk
By: Sheryl Johnson Deputy

INSTRUMENT NO. 2004 - 5355
Page 1 of 5 Pages

Until a change is requested, all tax statements shall be sent to:
Faith Land Co., LLC
285 Spring Creek Parkway #1
Spring Creek NV 89815

After recording return to:
Yturri Rose LLP
P.O. Box S
Ontario, OR 97914

CORRECTED* BARGAIN AND SALE DEED

* This Deed is being rerecorded to correct an erroneous legal description.

Little Valley Ranch Co., L.L.C., an Oregon Limited Liability Company, Grantor, conveys to Faith Land Company, LLC, an Oregon Limited Liability Company, Grantee, the following described real property:

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The true consideration for this conveyance is: Dissolution of Little Valley Ranch Co., L.L.C. and final Distribution of L.L.C. Assets.

Dated this 30 day of June, 2004.

Little Valley Ranch Co., L.L.C.

Donald Decker

By: Donald Decker, Member

State of Oregon)
) ss.
County of Malheur)

Re-recorded
Inst. No. 2004-4903 (2nd)
I certify that the within Instrument of writing was received for record on the 12 day of July, 20 04 at 10:01 O'clock A M. FEE #31
STATE OF OREGON, County of Malheur
DEBORAH R. DeLONG
County Clerk
By: Sheryl Johnson Deputy

G-17420

SEP 03 2010

re recorded

INSTRUMENT NO. 2004 - 4903
Page 2 of 3 Pages

INSTRUMENT NO. 2004 - 4758
Page 2 of 3 Pages

The foregoing instrument was acknowledged before me this 30 day of June, 2004 by Donald Decker.

Notary Public for Oregon.
My Commission expires: 6/1/08

OFFICIAL SEAL
CATHERINE S THOMPSON
NOTARY PUBLIC-OREGON
COMMISSION NO. 381322
MY COMMISSION EXPIRES JUNE 1, 2008

INSTRUMENT NO. 2004 - 5355
Page 3 of 5 Pages

By: David Woolfolk, Member
Linda Woolfolk

State of Oregon)
) ss.
County of Malheur)

The foregoing instrument was acknowledged before me this 29 day of June, 2004 by David Woolfolk and Linda Woolfolk.

Notary Public for Oregon
My Commission expires: 6.21.04

OFFICIAL SEAL
CAROL D. SKERJANEC
NOTARY PUBLIC - OREGON
COMMISSION NO. 381598
MY COMMISSION EXPIRES JUNE 21,2008

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INSTRUMENT NO. 2004-5355
Page 4 of 5 Pages

EXHIBIT "A"

Land in Malheur County, Oregon, as follows:
In Twp. 18 S., R. 43 E., W.M.:
Sec. 32: SE1/4 SW1/4 and all that portion of the S1/2 SE1/4 lying South of the Malheur River.
EXCEPTING THEREFROM that portion of the Oregon-Washington Railroad and Navigation Company's railroad right-of-way, as described in that certain Deed recorded June 28, 1912, Book 2, Page 305, Malheur County Deed Records.
Sec. 33: All that portion of the SE1/4 SW1/4, SW1/4 SE1/4, lying South and West; and lying North and East of the Malheur River.
EXCEPTING THEREFROM that portion of the Oregon-Washington Railroad and Navigation Company's railroad right-of-way, as described in that certain Deed recorded June 28, 1912, Book 2, Page 305, Malheur County Deed Records.

Map: 1843 Tax Lot(s) 1300 and 1800.

Land in Malheur County, Oregon, as follows:
In Twp. 19 S., R. 43 E., W.M.:
Sec. 10: ALL.
Sec. 11: NW1/4, S1/2, and all that portion of the S1/2 NE1/4 lying South of the J.H. Canal (McLaughlin) Ditch right-of-way.
Sec. 12: SW1/4 SW1/4, all that portion of the W1/2 SE1/4 SW1/4 lying North and West of the relocated Central Oregon Highway right-of-way.
All that portion of the N1/2 SW1/4, lying South and West of the Vines Canal right-of-way.
Sec. 13: ALL,
EXCEPTING THEREFROM that portion conveyed to the State of Oregon, State Highway Commission, by Deed dated October 20, 1961, recorded November 22, 1961, Book 120, Instrument No. 33411, Malheur County Deed Records.
Sec. 14: ALL,
EXCEPTING THEREFROM that portion conveyed to the State of Oregon, State Highway Commission, by Deed dated October 20, 1961, recorded November 22, 1961, Book 120, Instrument No. 33411, Deed Records.
Sec. 15: N1/2.

Map: 1943A Tax Lot(s) 1400, 1401, 1402, 1700, 2300, 2600, 2700 and 2800.

Land in Malheur County, Oregon, as follows:
In Twp. 19 S., R. 43 E., W.M.:
Sec. 4: E1/2 E1/2,
EXCEPTING THEREFROM that portion lying Northeasterly of the centerline of the Vines Canal right of way.
SUBJECT to canal right of way.
ALSO SUBJECT to a 50 foot easement for irrigation purposes lying South and West of the Vines Canal right of way.
Sec. 5: ALL
Sec. 9: E1/2.
Sec. 16: W1/2.

Map: 1943B Tax Lot(s) 100, 101, 103, 300, 400 and 490.

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Land in Malheur County, Oregon, as follows:
In Twp. 19 S., R. 43 E., W.M.:
Sec. 20: NW1/4 SW1/4.

Map: 1943C Tax Lot(s) 400.

Land in Malheur County, Oregon, as follows:
In Twp. 21 S., R. 40 E., W.M.:
Sec. 34: SE1/4.
Sec. 35: SE1/4 NW1/4, SW1/4 NE1/4, N1/2 SW1/4.

Map: 2140 Tax Lot 700.

Land in Malheur County, Oregon, as follows:
In Twp. 23 S., R. 42 E., W.M.:
Sec. 8: NE1/4 NE1/4.

Map: 2342 Tax Lot 400.

Land in Malheur County, Oregon, as follows:
In Twp. 22 S., R. 41 E., W.M.:
Sec. 9: E1/2 NW1/4, SW1/4, NE1/4, SE1/4.
Sec. 10: W1/2 NW1/4.

Map: 2241 Tax Lot 400.

* * * * *

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Sect. 14

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765 & OAR 690-205-0210)

WELL LABEL # L

START CARD # 196154

Well #2

(1) LAND OWNER

Owner Well I.D.

First Name: Donald Last Name: Decker

Company: Faith Land Co.

Address: 3716 East Idaho St. Unit A

City: Elko State: Nv Zip: 89801

(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: Test

(5) BORE HOLE CONSTRUCTION

Special Standard ☐ (Attach copy)

Depth of Completed Well: 0 ft.

BORE HOLE

Dia	From	To
14.	0	40.
8.	40.	595.

SEAL

Material	From	To	Amt	sacks/ lbs
Cement	0	595.	30.45	P
Cement				

How was seal placed: Method ☐ A ☐ B ☐ C ☐ D ☐ E

☐ Other

Backfill placed from ft. to ft. Material

Filter pack from ft. to ft. Material Size

Explosives used: ☐ Yes Type Amount

(6) CASING/LINER

Casing	Liner	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd
○	○						○	○		
○	○						○	○		
○	○						○	○		
○	○						○	○		
○	○						○	○		

Shoe ☐ Inside ☐ Outside ☐ Other Location of shoe(s)

Temp casing ☐ Yes Dia From To

(7) PERFORATIONS/SCREENS

Perforations Method

Screens Type Material

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

RECEIVED
SEP 08 2010
WATER RESOURCES DEPT
SALEM, OREGON

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

○ Pump ○ Bailer ◉ Air ○ Flowing Artesian

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)
200.		595.	0
0			

Temperature 72 °F Lab analysis ☐ Yes By

Water quality concerns? ☐ Yes (describe below)

From	To	Description	Amount	Units

(9) LOCATION OF WELL (legal description)

County MALHEUR Twp 19. S N/S Range 43. E E/W WM

Sec 14 NW 1/4 of the SE 1/4 Tax Lot 4600

Tax Map Number Lot

Lat 43 ° 54 59.096" or 43.91638889 DMS or DD

Long -117 ° 24 44.996" or -117.41247222 DMS or DD

○ Street address of well ◉ Nearest address

2601 Grove School Lane Vale Oregon

(10) STATIC WATER LEVEL

	Date	SWL(psi)	+	SWL(ft)
Existing Well / Predeepening				
Completed Well				

Flowing Artesian? ☐ Dry Hole? ☐

WATER BEARING ZONES Depth water was first found

SWL Date	From	To	Est Flow	SWL(psi)	+	SWL(ft)
09-12-2008	530.	595.	200.			95.

(11) WELL LOG

Ground Elevation

Material	From	To
Brown Clay	0	15.
Brown Sand	15.	17.
Brown Clay	17.	23.
Coarse Brown Sand	23.	26.
Brown Clay	26.	30.
Blue Clay	30.	480.
Black Basalt	480.	530.
Fractured Green Basalt	530.	595.
Abandonded, customer felt insufficient water supply		
Pumped cement grout from 595' to 0		

Date Started 09-

(unbonded) Water

I certify that the w

abandonment of th

construction standard

the best of my knowl

License Number

Password : (if filing el

Signed

(bonded) Water Well C

I accept responsibility fo

work performed on this w

performed during this ti

construction standards. Th

License Number 682 -2008

Password : (if filing electron

Signed

Contact Info (optional): 208-549-3799 926 Hot Springs Rd. Weiser Id. 83672

We believe there is more water here than is noted here.

ORIGINAL - WATER RESOURCES DEPARTMENT

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

Form Version: 0.89

G-13470

Sec. 12

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765 & OAR 690-205-0210)

WELL LABEL # L 84842

START CARD # 196144

Well #1

(1) LAND OWNER

Owner Well I.D.

First Name Donald Last Name Decker

Company Faith Land Co

Address 3716 East Idaho St

City Elko State Nv Zip 89801

(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 Test

(5) BORE HOLE CONSTRUCTION

Special Standard ☐ (Attach copy)

Depth of Completed Well 440. ft.

BORE HOLE Dia	From	To	SEAL Material	From	To	Amt	sacks/ lbs
14.	0	35.	Bentonite Chips	0	35.	1,900.	P
8.	35.	440.					

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

Backfill placed from ft. to ft. Material

Filter pack from ft. to ft. Material Size

Explosives used: ☐ Yes Type Amount

(6) CASING/LINER

Casing	Liner	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd
●	○	8.	☐	2.	82.	.250	●	○	☑	☐
○	○		☐				○	○	☐	☐
○	○		☐				○	○	☐	☐
○	○		☐				○	○	☐	☐
○	○		☐				○	○	☐	☐

Shoe ☐ Inside ☑ Outside ☐ Other Location of shoe(s) 82.

Temp casing ☑ Yes Dia 12. From 0 To 20.

(7) PERFORATIONS/SCREENS

Perforations Method

Screens Type Material

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

○ Pump ○ Bailer ◉ Air ○ Flowing Artesian

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)
200.		440	4.

Temperature 72 °F Lab analysis ☐ Yes By

Water quality concerns? ☐ Yes (describe below)

From	To	Description	Amount	Units

(9) LOCATION OF WELL (legal description)

County MALHEUR Twp 19. S N/S Range 43. E E/W WM

Sec 12. NE 1/4 of the SW 1/4 Tax Lot 3000

Tax Map Number Lot

Lat 43 ° 55 ' 49.08" or 43.93027778 DMS or DD

Long -117 ° 24 ' 5.000" or -117.40138889 DMS or DD

○ Street address of well ◉ Nearest address

2601 Grove School Ln. Vale Oregon

(10) STATIC WATER LEVEL

	Date	SWL(psi)	+	SWL(ft)
Existing Well / Predeepening			☐	
Completed Well	09-04-2008		☐	7.

Flowing Artesian? ☐ Dry Hole? ☐

WATER BEARING ZONES Depth water was first found 417.

SWL Date	From	To	Est Flow	SWL(psi)	+	SWL(ft)
09-04-2008	417.	440.	200.		☐	7.
					☐	
					☐	
					☐	
					☐	

(11) WELL LOG

Ground Elevation

Material	From	To
Large Gravel and Sand	0	15.
Brown Clay	15.	23.
Blue Clay	23.	417.
Broken Basalt	417.	440.

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WATER RESOURCES DEPT
SALEM, OREGON

Date Started 08-20-2008 Completed 09-04-2008

(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

Password : (if filing electronically)

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 682 Date 09-29-2008

Password : (if filing electronically)

Signed

Contact Info (optional) 926 Hot Springs Rd Weiser Id. 208-549-3799

G-17420

ORIGINAL - WATER RESOURCES DEPARTMENT

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

Form Version: 0.39

Sect. 14

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765 & OAR 690-205-0210)

WELL LABEL # L

START CARD # 196154

Well #2

(1) LAND OWNER — Owner Well I.D.
First Name Donald — Last Name Decker
Company Faith Land Co.
Address 3716 East Idaho St. Unit A
City Elko — State Nv — Zip 89801

(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 Test

(5) BORE HOLE CONSTRUCTION — Special Standard ☐ (Attach copy)
Depth of Completed Well 0 ft.

BORE HOLE Dia	From	To	SEAL Material	From	To	Amt	sacks/ lbs
14.	0	40.	Cement	0	595.	30,456	P
8.	40.	595.	Cement				

How was seal placed: Method ☐ A ☐ B ☐ C ☐ D ☐ E
☐ Other
Backfill placed from ft. to ft. Material
Filter pack from ft. to ft. Material Size
Explosives used: ☐ Yes Type Amount

(6) CASING/LINER

Casing/Liner	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd

Shoe ☐ Inside ☐ Outside ☐ Other Location of shoe(s)
Temp casing ☐ Yes Dia From To

(7) PERFORATIONS/SCREENS
Perforations Method
Screens Type Material

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

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SEP 08 2010
WATER RESOURCES DEPT
SALEM, OREGON

(8) WELL TESTS: Minimum testing time is 1 hour
○ Pump ○ Bailer ◉ Air ○ Flowing Artesian

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)
200.		595.	0
0			

Temperature 72 °F Lab analysis ☐ Yes By
Water quality concerns? ☐ Yes (describe below)

From	To	Description	Amount	Units

(9) LOCATION OF WELL (legal description)
County MALHEUR Twp 19. S N/S Range 43. E E/W WM
Sec 14 NW 1/4 of the SE 1/4 Tax Lot 4600
Tax Map Number Lot
Lat 43 ° 54 ' 59.09" or 43.91638889 DMS or DD
Long -117 ° 24 ' 44.96" or -117.41247222 DMS or DD
○ Street address of well ◉ Nearest address
2601 Grove School Lane Vale Oregon

(10) STATIC WATER LEVEL

	Date	SWL(psi)	+	SWL(ft)
Existing Well / Predeepening				
Completed Well				

Flowing Artesian? ☐ Dry Hole? ☐

WATER BEARING ZONES — Depth water was first found

SWL Date	From	To	Est Flow	SWL(psi)	+	SWL(ft)
09-12-2008	530.	595.	200.			95.

(11) WELL LOG — Ground Elevation

Material	From	To
Brown Clay	0	15.
Brown Sand	15.	17.
Brown Clay	17.	23.
Coarse Brown Sand	23.	26.
Brown Clay	26.	30.
Blue Clay	30.	480.
Black Basalt	480.	530.
Fractured Green Basalt	530.	595.
Abandonded, customer felt insufficient water supply		
Pumped cement grout from 595' to 0		

Date Started 09-04-2008 Completed 09-19-2008

(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
Password : (if filing electronically)
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 682 Date 09-23-2008
Password : (if filing electronically)
Signed
Contact Info (optional) 208-549-3799 926 Hot Springs Rd. Weiser Id. 83672

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

G-17420

Form Version: 0.89

WATER WELL REPORT
STATE OF OREGON

RECEIVED
DEC 20 1984
WATER RESOURCES DEPT
SALEM, OREGON

Math 1769

State Well No. 19s/43E-13 CC

State Permit No.

PLEASE TYPE or PRINT IN INK

(1) OWNER:
Name HOWARD GIRVIN
Address
City VALE State OREGON 97918

(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 ☐ Dug ☐
Cable ☒ Bored ☐

(4) PROPOSED USE (check):
Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☒ Test Well ☐ Other ☐
Thermal ☐ Withdrawal ☐ Reinjection ☐

(5) CASING INSTALLED: Steel ☒ Plastic ☐
Threaded ☐ Welded ☐
16 "Diam. from +1 ft. to 40 ft. Gauge .250
"Diam. from ft. to 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.

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SEP 08 2010
WATER RESOURCES DEPT
SALEM, OREGON

(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?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
Air test gal./min. with drill stem at ft. hrs.
Bailer test 50 gal./min. with 25 ft. drawdown after 1 hrs.
Artesian flow g.p.m.
Temperature of water 65 Depth artesian flow encountered ft.

(9) CONSTRUCTION: Special standards: Yes ☐ No ☒
Well seal—Material used CEMENT GROUT
Well sealed from land surface to 40 ft.
Diameter of well bore to bottom of seal 20 in.
Diameter of well bore below seal 12 in.
Number of sacks of cement used in well seal 25 sacks
How was cement grout placed? PRESSURE GROUTED
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 MALHEUR Driller's well number
S.W ¼ S.W ¼ Section 13 T. 19 R. 43 W.M.
Tax Lot # 2700 Lot Blk. Subdivision
Address of well location:

(11) WATER LEVEL: Completed well.
Depth at which water was first found 450 ft.
Static level 65 ft. below land surface. Date 11-15-84
Artesian pressure lbs. per square inch. Date

(12) WELL LOG: Diameter of well below casing 12
Depth drilled 460 ft. Depth of completed well 460 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 yellow clay	0	25	
broken clay	25	30	
yellow clay	30	45	
blue clay	45	60	
sandy clay	60	62	
blue clay	62	115	
blue sandstone	115	125	
hard blue clay	125	185	
soft blue clay	185	215	
hard blue clay	215	250	
soft blue clay	250	450	
basalt with pirites	450	460	

Work started 10-20 19 84 Completed 11-15 19 84
Date well drilling machine moved off of well 11-15 19 84

(unbonded) Water Well Constructor Certification (if applicable):
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] Date , 19

Bonded Water Well Constructor Certification:
Bond #0458259 (number) Issued by: UNITED PACIFIC INS. (Surety Company Name) CC
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Name PAT PAGE WELL DRILLING (Person, firm or corporation) (Type or print)
Address RT. 2-BOX 2125-VALE, OREGON 97918
[Signed] Winfield Page (Water Well Constructor)
Date 11-15, 19 84

NOTICE TO WATER WELL CONSTRUCTOR
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.

G-17420

WATER WELL REPORT
STATE OF OREGON

Malh 1773

RECEIVED
APR 28 1982
WATER RESOURCES DEPT
SALEM, OREGON

State Well No. 19S/43E-29db
State Permit No. ....

(1) OWNER:
Name CHRIS ESKIDLSON
Address RT 1 BOX 290
City MT VERNON, OREGON State 97865

(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 ☐ Dug ☐
Cable ☐ Bored ☐

(4) PROPOSED USE (check):
Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☒ Other ☐
Thermal: Withdrawal ☐ Reinjection ☐

(5) CASING INSTALLED: Steel ☒ Plastic ☐ Threaded ☐ Welded ☒
12" Diam. from +1 ft. to 107 ft. Gauge .250
.........." Diam. from .... ft. to .... 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 400 gal./min. with drill stem at 345 ft. 2 hrs.
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m.
Temperature of water 68° Depth artesian flow encountered .... ft.

(9) CONSTRUCTION: Special standards: Yes ☐ No ☒
Well seal—Material used Cement
Well sealed from land surface to 106 ft.
Diameter of well bore to bottom of seal 16 in.
Diameter of well bore below seal 12 in.
Number of sacks of cement used in well seal 65 sacks
How was cement grout placed?
Pressure Grouted

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 MALHEUR Driller's well number
NW ¼ SE ¼ Section 29 T. 19 R. 43 W.M.
Tax Lot # 804 Lot Blk Subdivision
Address at well location: LITTLE VALLEY, OREGON

(11) WATER LEVEL: Completed well.
Depth at which water was first found 55 ft.
Static level 65 ft. below land surface. Date 4/06/82
Artesian pressure lbs. per square inch. Date

(12) WELL LOG: Diameter of well below casing 12"
Depth drilled 360 ft. Depth of completed well 360 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	0	8	
Brown Clay W/B	8	62	65
Blue Clay Sticky	62	74	
Brown Soapstone Caving	74	85	
Blue Soapstone	85	94	
Blue Clay	94	101	
Black Rock	101	182	
Green Rock	182	190	
Black Rock	190	234	
Yellow Clay	234	246	
Black Rock	246	250	
Blue Clay	250	257	
Black Rock	257	265	
Green Shale	265	270	
Black Rock	270	290	
Clay	290	310	
Sandstone	310	335	
Clay	335	337	
Sand Stone	337	354	
Sand White	354	360	

Work started 4/02/82 19 Completed 4/06/82 19
Date well drilling machine moved off of well 4/06/82 19

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] Winfield Page (Drilling Machine Operator) Date 4/22/1982
Drilling Machine Operator's License No. 65

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 PAGE BROTHERS DRILLING (Person, firm or corporation) (Type or print)
Address Rt 2 BOX 4045 VALE, OREGON 97918
[Signed] Winfield Page (Water Well Contractor)
Contractor's License No. 564 Date 4/22/1982

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*12658-690

G-17420

MALH 53413

MALH 53413

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765 & OAR 690-205-0210)

WELL LABEL # L

START CARD # 196154

Well #2

(1) LAND OWNER

Owner Well I.D.

First Name Donald Last Name Decker

Company Faith Land Co.

Address 3716 East Idaho St. Unit A

City Elko State Nv Zip 89801

(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/ Commericial ☐ Livestock ☐ Dewatering ☐ Thermal ☐ Injection ☑ Other Test

(5) BORE HOLE CONSTRUCTION

Special Standard ☐ (Attach copy)

Depth of Completed Well 0 ft.

BORE HOLE Dia	From	To	SEAL Material	From	To	Amt	sacks/ lbs
14.	0	40.	Cement	0	595.	30,456	P
8.	40.	595.	Cement				

How was seal placed: Method ☐ A ☐ B ☐ C ☐ D ☐ E

☐ Other

Backfill placed from ft. to ft. Material

Filter pack from ft. to ft. Material Size

Explosives used: ☐ Yes Type Amount

(6) CASING/LINER

Casing	Liner	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd

Shoe ☐ Inside ☐ Outside ☐ Other Location of shoe(s)

Temp casing ☐ Yes Dia From To

(7) PERFORATIONS/SCREENS

Perforations Method

Screens Type Material

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

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

○ Pump ○ Bailer ◉ Air ○ Flowing Artesian

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)
Est. 200.		595	0
0			

Temperature 72 °F Lab analysis ☐ Yes By

Water quality concerns ☐ Yes (describe below)

Description	Amount	Units

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NOV 20 2008
WATER RESOURCES DEPT
SALEM, OREGON

(9) LOCATION OF WELL (legal description)

County MALHEUR Twp 19. S N/S Range 43. E E/W WM

Sec 14 NW 1/4 of the SE 1/4 Tax Lot 4600

Tax Map Number Lot

Lat 43 ° 54 ' 59.08" or 43.91638889 DMS or DD

Long -117 ° 24 ' 44.96" or -117.41247222 DMS or DD

○ Street address of well ◉ Nearest address

2601 Grove School Lane Vale Oregon

(10) STATIC WATER LEVEL

	Date	SWL(psi)	+	SWL(ft)
Existing Well / Predeepening				
Completed Well				

Flowing Artesian? ☐ Dry Hole? ☐

WATER BEARING ZONES Depth water was first found

SWL Date	From	To	Est Flow	SWL(psi)	+	SWL(ft)
09-12-2008	530.	595.	200.			95.

(11) WELL LOG

Ground Elevation

Material	From	To
Brown Clay	0	15.
Brown Sand	15.	17.
Brown Clay	17.	23.
Coarse Brown Sand	23.	26.
Brown Clay	26.	30.
Blue Clay	30.	480.
Black Basalt	480.	530.
Fractured Green Basalt	530.	595.
Abandonded, customer felt insufficient water supply		
Pumped cement grout from 595' to 0		

FILE
ADDED TO 9-7-2010 HPM

Date Started 09-04-2008 Completed 09-19-2008

(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

Password : (if filing electronically)

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 682 Date 09-23-2008

Password : (if filing electronically)

Signed

Contact Info (optional) 208-549-3799 926 Hot Springs Rd. Weiser Id. 83672

RECEIVED
OCT 02 2008
WATER RESOURCES DEPT
SALEM, OREGON

ORIGINAL - WATER RESOURCES DEPARTMENT

WHITE COPY MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

Form Version: 0 89

G-17420

MALH 53412

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765 & OAR 690-205-0210)

WELL LABEL # L 84842

START CARD # 196144

Well #1

(1) LAND OWNER

Owner Well I.D.

First Name Donald Last Name Decker
Company Faith Land Co
Address 3716 East Idaho St
City Elko State Nv Zip 89801

(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/ Commericial ☐ Livestock ☐ Dewatering
☐ Thermal ☐ Injection ☑ Other Test

(5) BORE HOLE CONSTRUCTION

Special Standard ☐ (Attach copy)
Depth of Completed Well 440. ft.

BORE HOLE Dia	From	To	SEAL Material	From	To	Amt	sacks/ lbs
14.	0	35.	Bentonite Chips	0	35.	1,900.	P
8.	35.	440.					

How was seal placed: Method ☐ A ☐ B ☑ C ☐ D ☐ E
☐ Other
Backfill placed from ft. to ft. Material
Filter pack from ft. to ft. Material Size
Explosives used: ☐ Yes Type Amount

(6) CASING/LINER

Casing	Liner	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd
◉	○	8.		2.	82.	.250	◉	○	☑	☐
○	○						○	○	☐	☐
○	○						○	○	☐	☐
○	○						○	○	☐	☐
○	○						○	○	☐	☐

Shoe ☐ Inside ☑ Outside ☐ Other Location of shoe(s) 82.
Temp casing ☑ Yes Dia 12. From 0 To 20.

(7) PERFORATIONS/SCREENS

Perforations Method
Screens Type Material

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

○ Pump ○ Bailer ◉ Air ○ Flowing Artesian

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)
200.		440	4.

Temperature 72 °F Lab analysis ☐ Yes By
Water quality concerns? ☐ Yes (describe belo

From	To	Description		Units

RECEIVED
OCT 02 2008
WATER RESOURCES DEPT
SALEM, OREGON

(9) LOCATION OF WELL (legal description)

County MALHEUR Twp 19. S N/S Range 43. E E/W WM
Sec 12 NE 1/4 of the SW 1/4 Tax Lot 3000
Tax Map Number Lot
Lat 43 ° 55 ' 49.08" or 43.93027778 DMS or DD
Long -117 ° 24 ' 5.000" or -117.40138889 DMS or DD
○ Street address of well ◉ Nearest address

2601 Grove School Ln. Vale Oregon

(10) STATIC WATER LEVEL

	Date	SWL(psi)	+	SWL(ft)
Existing Well / Predeepening				
Completed Well	09-04-2008			7.

Flowing Artesian? ☐ Dry Hole? ☐

WATER BEARING ZONES Depth water was first found 417.

SWL Date	From	To	Est Flow	SWL(psi)	+	SWL(ft)
09-04-2008	417.	440.	200.			7.

(11) WELL LOG

Ground Elevation

Material	From	To
Large Gravel and Sand	0	15.
Brown Clay	15.	23.
Blue Clay	23.	417.
Broken Basalt	417.	440.

Added To File
9-1-2010

Date Started 08-20-2008 Completed 09-04-2008

(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
Password : (if filing electronically)
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 682 Date 09-29-2008
Password : (if filing electronically)
Signed
Contact Info (optional) 926 Hot Springs Rd Weiser Id 208-549-3799

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

Form Version: 0.89

G-17420

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

Malh 2674

19S/43E/30ab
18627

(1) OWNER: Well Number: 18627
Name Perry & Kenton Siders
Address 2947 Little Valley Road
City Harper State Ore Zip 97906

(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 Test

(5) BORE HOLE CONSTRUCTION:
Special Construction approval Yes ☐ No ☒ Depth of Completed Well 574 ft.
Explosives used Yes ☐ No ☐ Type ______ Amount ______

HOLE Diameter	From	To	SEAL Material	From	To	Amount sacks or pounds
12	0	25	Bentonite	0	24	1400 LB
8	25	574				

How was seal placed: Method ☐ A ☐ B ☐ C ☐ D ☐ E
☐ Other Dry Bentonite - in overbore
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:	8	+1	25	250	☒	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

Final location of shoe(s) ______

(7) PERFORATIONS/SCREENS: None
☐ Perforations Method ______
☐ Screens Type ______ Material ______

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour
☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
300		550	1 hr.

Temperature of water 84° Depth Artesian Flow Found ______
Was a water analysis done? No ☐ Yes By whom ______
Did any strata contain water not suitable for intended use? No ☐ Too little
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other ______
Depth of strata: ______

(9) LOCATION OF WELL by legal description:
County Malheur Latitude ______ Longitude ______
Township 19 N or S, Range 43 Ⓔ or W, WM.
Section 30 NW ¼ NE ¼
Tax Lot ______ Lot ______ Block ______ Subdivision ______
Street Address of Well (or nearest address) 2947 Little Valley Road - Harper Ore

(10) STATIC WATER LEVEL:
150 ft. below land surface. Date 5-17-90
Artesian pressure ______ lb. per square inch. Date ______

(11) WATER BEARING ZONES:
Depth at which water was first found 560

From	To	Estimated Flow Rate	SWL
560	574	300 gpm	150

(12) WELL LOG: Ground elevation 3100

Material	From	To	SWL
Brown Clay	0	8	0
Brown gravel cemented	8	14	0
Blue Clay & silt strips	14	23	0
Blue Clay & Siltstone	23	220	0
Hard Black Lava (Basalt)	220	560	0
Broken Basalt	560	574	150

File. Added 7-20-90 TPW

Date started June 3-91 Completed June 14-91

(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 789
Signed [signature] Date July 10-91

(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 789
Signed [signature] Date July 10 91

WHITE COPIES - WATER RESOURCES DEPARTMENT YELLOW COPY - CONSTRUCTOR PINK COPY - CUSTOMER 9809C 1/

G-17420

Malh 1765 19/43-3E

OBSERVATION WELL

WATER WELL REPORT

STATE OF OREGON

File Original and First Copy with the STATE ENGINEER, SALEM, OREGON

State Well No. 19/43-3E

State Permit No.

(1) OWNER:

Name Floyd Vaughn

Address

(2) LOCATION OF WELL:

County Malheur Owner's number, if any—

¼ ¼ Section 3 T. 19 R. 43 W.M.

Bearing and distance from section or subdivision corner

3816.3 ft. N and 19.5' E SW Corner

(3) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 11.

(4) PROPOSED USE (check):

Domestic ☐ Industrial ☐ Municipal ☐

Irrigation ☒ Test Well ☐ Other ☐

(5) TYPE OF WELL:

Rotary ☐ Driven ☐

Cable ☒ Jetted ☐

Dug ☐ Bored ☐

(6) CASING INSTALLED: Threaded ☐ Welded ☐

16" Diam. from 0 ft. to 38 ft. Gage

" Diam. from ft. to ft. Gage

" Diam. from ft. to ft. Gage

(7) PERFORATIONS: Perforated? ☐ Yes ☒ No

Type of perforator used Mills

SIZE of perforations ¼ in. by 2 in.

perforations from 30 ft. to 37 ft.

perforations from ft. to ft.

perforations from ft. to ft.

perforations from ft. to ft.

perforations from ft. to ft.

(8) SCREENS: Well screen installed ☐ Yes ☒ No

Manufacturer's Name

Type Model No.

Slot size Set from ft. to ft.

Diam. Slot size Set from ft. to ft.

(9) CONSTRUCTION:

Was well gravel packed? ☒ Yes ☐ No Size of gravel: 3/4

Gravel placed from 0 ft. to 37 ft.

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

Material used in seal—

Did any strata contain unusable water? ☐ Yes ☒ No

Type of water? Depth of strata

Method of sealing strata off

(10) WATER LEVELS:

Static level 20" ft. below land surface Date 7-20-61

Artesian pressure lbs. per square inch Date

Log Accepted by:

[Signed] Date , 19

(Owner)

(11) WELL TESTS: Drawdown is amount water level is lowered below static level

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

Yield: 600 gal./min. with 120 ft. drawdown after 10 hrs.

" " " "

" " " "

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

Artesian flow g.p.m. Date

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

(12) WELL LOG: Diameter of well 16" inches.

Depth drilled 680 ft. Depth of completed well 680 ft.

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

MATERIAL	FROM	TO
top soil	0	18
sandzrockz gravel	18	29
sand rock	29	45
sandy shale	45	150
sticky blue shale	150	235
sandy shale	235	267
shale	267	280
hard shale	280	285
sandy shale	285	290
black sand	290	300
blue shale	300	326
rock	326	328
blue shale	328	570
rock	570	668
hard shale	668	670
hard Rock	670	690
Fill to 20' 0		
Added 9-7-61		

Work started 19 . Completed 19

(13) PUMP:

Manufacturer's Name

Type: H.P.

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 H. A. Sevey

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

Address Rt. 1 Box 176 Vale, Oregon

Driller's well number

[Signed] H. A. Sevey

(Well Driller)

License No. 17 Date Sept. 5, 19 61

G-17420

(USE ADDITIONAL SHEETS IF NECESSARY)

STATE ENGINEER
Salem, Oregon

State Well No. 19/43-3E01

County MALHEUR

Application No. .....

Water Level Record

OWNER: FLOYD VAUGHN OWNER'S NO. .....

Description of measuring point: HOLE IN TOP OF PUMP BASE 1.0' ABOVE L.S.D.

Date	Water Level Feet (above) (below) Land Surface	Remarks	Date	Water Level Feet (above) (below) Land Surface	Remarks
12-14-61	4.2	JS RO			

REMARKS: .....

State Printing Dept.

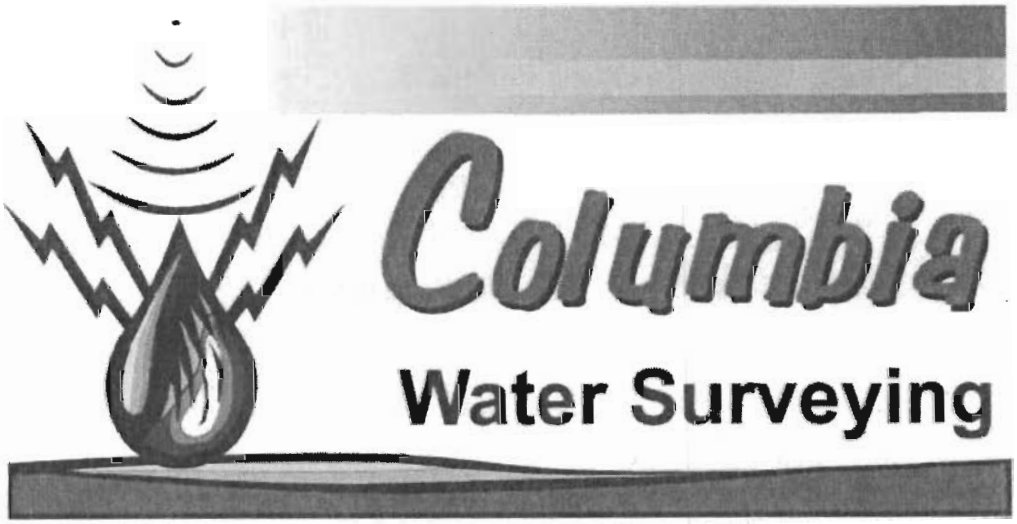
SEISMOELECTRIC SURVEY

Survey Service Agreement Number: 12110

FINAL REPORT

Client:

Dustin Baker
2601 Grove School Ln.
Vale OR 97918
Phone: 1. 514.216.9015



Columbia Water Surveying
2450 Wallula Av
Walla Walla WA 99362
Phone: 1.877.994.9100

February 22, 2010

G-17420

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FIGURES

1. SUMMARY

A Geophysical survey was conducted February 8 and 9, 2010 at Hwy 20, near Vale OR. The survey consisted of sixteen soundings in five profiles. The site that showed the greatest potential was c14db. At this site two aquifers were detected. The upper aquifer has an estimated depth to the base of the aquifer of 270 feet below ground surface (bgs), which may be above the basalt layers. The deeper aquifer has an estimated depth to the base of the aquifer of 640 feet bgs and an estimated yield from a well drilled into the aquifer at this site of Category N [300 to 550 gallon/minute (gpm)]. Refer to the complete report below for specific details on the survey.

2. INTRODUCTION

Client: Dustin Baker

Location of Survey: Hwy 2., approximately eight miles southwest of Vale OR (Malheur County). Township 14S, Range 43E and 44E, Section 11, 12 and 13

Description of Property: The survey property was a large ranch situated along the foothills south of the Malheur River valley. The surface conditions on the property were rangeland. Figure 1 shows two photos of the site conditions.

Purpose: The purpose of the survey was to determine the predominant location, depth to the base of, and potential yield of aquifers on the property. If located, one, or more, wells are proposed to provide an agricultural water supply.

3. BACKGROUND

General Geology: The geology in this area, which was taken from well reports and local geologic maps, consists of upper unconsolidated layers of topsoil with a deep layer of clay over basalt. All of the geologic information used in this report is taken from geologic maps provided by the United States Geological Survey (USGS) and/or local well logs obtained from the State of Oregon, Water Resources Department. These are used to provide the geologic information relevant to this survey and in particular the rock types, from which velocity information is used to assist in the interpretation of the data recorded in this survey.

Existing Well Information: Table 1 shows the results of research conducted prior to the field survey on existing well in the area. It shows recorded well logs from 6 wells within the area around the survey site. The well logs indicate that the depth of wells in this area range from 23 to 440 feet bgs. Reported yields from these wells range from 24 to 200 gpm. Static levels at the wells range from 7 to 80 feet bgs. These well logs do not represent all of the logs from wells drilled in this area since we were unable to locate the well logs for known wells near the survey site.

Owner	Tag	Depth	SL	Yield	Twn	Rng	Sec	Qtr	Qtr-Qtr	Date
LEON L SHOFFNER		430	80	30	19S	43E	12	SW	SE	4/20/79
JACK D PRESSLEY		23	12		19S	43E	12	NE	SE	11/30/77
RONALD J PRESSLEY		90	48	24	19S	43E	12	SW	SE	10/12/90
KEITH DINGMAN II	12026	28	9	30	19S	43E	12	NE	NE	11/21/96
CARL ELFFING	83776	50	27	30	19S	43E	12	SE	SW	3/30/06
DONALD DECKER	84842	440	7	200	19S	43E	12	SW	NE	9/4/08

Table 1: Known nearby existing wells

4. DATA ACQUISITION and PROCESSING

Testing Methodology: The survey was conducted using the seismoelectric method. This technique has the potential to provide the approximate depth and yield of subsurface water bearing formations. The technique works because electrical signals are often produced when seismic compression waves encounter water-saturated rocks. In order to record the electrical signals four copper plated steel electrodes are inserted into the ground and connected to the receiver. The data was acquired using a Groundflow^{TM} 2500 Seismoelectric Survey System. This method is sometimes referred to as the Electro-Kinetic Survey (EKS) method. The data were processed using software that is proprietary to the Groundflow ^{TM} Seismoelectric System. More details of this system and the basic theory of the seismoelectric method are provided in Appendix A.

Calibration Wells: A calibration well was used to assist with processing the data recorded during the survey. The calibration well was located approximately 1100 feet north of the profile C on the client's property. The reported information from the well was: depth 440 feet bgs, static level 7 feet bgs, yield 200 gpm. This yield value was based on an air test of the well and may represent the limits of the equipment. The actual yield value may be greater than this value. The geology reported from the well indicated: topsoil, gravel and sand 0-15 feet bgs, clay 15-417 feet bgs and basalt 417-440 feet bgs. Water bearing layers were indicated at 417-440 feet bgs.

Survey Layout: A total of sixteen soundings were taken at five separate profile locations as shown in Figure 1. Profiles A, B, D and E were sample profiles consisting of two soundings. Profile C was a detailed profile consisting of eight soundings. The locations of the sites were chosen based on the client's request, but were predominantly located near the proposed location of the well. Global Positioning Satellite (GPS) coordinates for the specific soundings are presented in Table 2. Site locations are marked with numbered flags corresponding to the numbers in this report. At most of the sounding sites, several discrete soundings were recorded so as to verify the integrity of the Seismoelectric signals.

Site #	Latitude	Longitude	Site #	Latitude	Longitude
c5db	N43.924913	W117.398455	a1db	N43.924682	W117.387588
c6db	N43.924970	W117.398725	a2db	N43.924686	W117.387881
c7db	N43.925142	W117.398571	b3db	N43.924759	W117.389096
c8db	N43.925009	W117.398908	b4db	N43.924764	W117.389380
c13db	N43.924793	W117.398846	d9db	N43.939482	W117.419313
c14db	N43.924840	W117.399083	d10db	N43.939490	W117.419056
c15db	N43.924773	W117.399357	e11db	N43.939485	W117.417513
c16db	N43.924772	W117.399166	e12db	N43.939470	W117.417286

Table 2: GPS Coordinates of Test Sites
(Based on the WGS 84 map datum.)

Testing Conditions: Test conditions at some sites in profile C were impacted extensive ground squirrel borrowing. However, by using mitigating techniques, the data acquisition was adversely influenced at only one site.

Test Analysis Method: Although it is possible to interpret the depth to the top of the aquifer, the following results present only the interpreted depth to the bottom. This is because the interpreted yields assume that the full thickness of the aquifer is used to produce water, and that presenting the depth to the top only would not provide a realistic estimate of the actual drill depth required in order to obtain the interpreted yield. Another reason for presenting the depth to the bottom of an aquifer is that the depth to the top of an aquifer can vary depending on the time of year and longer term weather conditions, as well as other wells drawing water from the same aquifer. Thus, because the depth to the top of an aquifer may change due to the conditions described above, a well that is drilled only a short distance into an aquifer may have a yield that is more susceptible to these changes. An additional factor is that a cone of depression may occur around a well as it is pumped, further reducing the yield of a well that is only drilled for a short distance into an aquifer. The cone of depression may be more pronounced for wells drilled into low permeability formations.

The seismoelectric method does not have the resolving power to generally predict the depth within an aquifer where the best yield may occur. If however, a sufficient yield is obtained before the interpreted bottom of the aquifer is reached, then it may be reasonable to stop drilling before this depth is reached.

It should be noted that the depth estimates provided in this report rely on estimates of the seismic velocity of the rocks under the sounding site. Even for a well-defined rock type, such as Granite, or Sandstone, seismic velocities can vary considerably depending on many factors, including the degree of weathering of the rock, fracturing and, for sedimentary rocks, degree of consolidation. Rock velocities can also vary with the geologic age of the rock, with older rocks generally having higher velocities. The velocities used in order to calculate the depth estimates are, in general, averages of the velocity of the particular rock types suspected to exist at each sounding location.

Because many factors influence the interpreted yield, including the method used to drill a well, and in order to present the interpreted yields with accuracy that is realistic, the yield interpretation for each sounding is presented as one of a range of yields and is assigned an alphabetic label (category), as defined in Table 4.

Interpreted Yield (in gpm)	Category
0 – 3	A
2 – 6	B
5 – 10	C
8 – 15	D
12 – 25	E
18 – 35	F
25 – 50	G
35 – 65	H
50 – 95	I
70 – 130	J
100 – 180	K
140 – 250	L
200 – 350	M
300 – 550	N
450 – 850	O
650-1100	P

Table 4: Yield Categories

Figure 3 represents a selection of typical seismoelectric data (individual soundings) recorded during this survey. The interpreted yields were primarily obtained by using the proprietary software. They are based, in part, on assumptions regarding the static water level. In this area, this level is estimated to vary between 7 and 10 feet bgs. This is an important variable for yield estimates. The yield assumes that the full thickness of the aquifer is used down to the base of the aquifer specified at each test site. At this site the values obtained are based primarily on research using the local well logs provided by the State, but which were somewhat limited.

5. RESULTS and INTERPRETATION

The following provides the results interpretation of the data from each seismoelectric sounding. Based on past statistics, all of the following interpreted depths may vary by ± 15%, or sometimes more. Yield estimates are based on a 12-inch diameter well, and will increase or decrease for larger or smaller diameters respectively.

The model used to determine yield estimates for this survey was based on a calibration well on the client's property. The yield data for that well was an air test of 200 gpm, which may have been limited by the capability of the equipment. A full pump test of the well is planned. If the final pump test shows a different yield, the yield estimates in this report can be adjusted by the same proportion.

Profile A was located near the northeast corner of the property, near the east end of the field.

Site a1db is located at the east end of the profile, approximately 100 feet from the east property boundary. It indicates that the base of the aquifer is at a depth of approximately 150 feet bgs. It also showed a slight aquifer with a base of 540 feet bgs.

Site a2db is located 80 feet west of a1db and indicates that the base of the aquifer is at a depth of approximately 215 feet bgs. It also showed a slight aquifer with a base of 410 feet bgs.

Based on nearby well logs, the depths given for the upper aquifer indicate that it is likely not down in the basalt. The deeper aquifer is likely down to the basalt, but preliminary analysis indicates that it would not provide a sufficient yield for agricultural use.

Profile B was also located in the northeast corner of the property, but near the west end of the field.

Site b3db is located at the east end of the profile and indicates that the base of the aquifer is at a depth of approximately 215 feet bgs.

Site b4db is located 80 feet west of b3db and indicates that the base of the aquifer is at a depth of approximately 195 feet bgs.

Like the A profile, these aquifers are likely not down into the basalt.

Profile C is located just east of Hwy 20, across from the feedlot, in a shallow ravine. For many of these sites a strong upper aquifer is indicated. However the depth of this aquifer indicates that it is probably not down into the basalt. No yield estimates will be given for the upper aquifer. The deeper aquifers are at depths that are likely down into the basalt and yield estimates are given.

Site c7db is the northern most site in the profile. It indicates the base of an aquifer at 220 feet bgs. A deeper aquifer is shown at a depth of approximately 520 feet bgs and has an estimated yield of category M (200 to 350 gpm).

Second row of sites:

Site c8db is the western most site in the second row to the south, located approximately 125 feet southwest of c7db and indicates that the base of the upper aquifer is at a depth of 260 feet bgs. A deeper aquifer is show at approximately 590 feet bgs and has an estimated yield of category L (140 to 250 gpm).

Site c6db is 60 feet east of c8db and indicates and indicates that the base of the upper aquifer is at a depth of approximately 260 feet bgs. A deeper aquifer is shown at approximately 650 feet bgs and has an estimated yield of category N (300 to 550 gpm).

Site c5db is 75 feet east of c6db and indicates and indicates that the base of the upper aquifer is at a depth of approximately 260 feet bgs. No deeper aquifer is detected.

Third row of sites:

Site c14db is the western most site in the third row to the south, located approximately 75 feet southwest of c8db and indicates that the base of the upper aquifer is at a depth of 270 feet bgs. A deeper aquifer is shown at approximately 640 feet bgs and has an estimated yield of category N (300 to 550 gpm).

Site c13db is 75 feet east of c14db but data from this site is inconclusive.

Forth row of sites:

Site c15db is the western most site in the forth row to the south, located approximately 75 feet southwest of c14db and indicates and indicates that the base of the upper aquifer is at a depth of approximately 260 feet bgs. No deeper aquifer is detected.

Site c16db is 35 feet east of c15db and indicates and indicates that the base of the upper aquifer is at a depth of approximately 230 feet bgs. A deeper aquifer is shown at approximately 520 feet bgs and has an estimated yield of category M (200 to 350 gpm).

Profile D was located just south of Grove School Rd., along the north property boundary.

Site d9db is located at the west end of the profile and indicates that the base of the aquifer is at a depth of approximately 260 feet bgs.

Site d10db is located 80 feet east of ad9db and indicates that the base of the aquifer is at a depth of approximately 330 feet bgs.

These aquifers are at the levels of the locally known "River aquifer". There are no indications of a deeper aquifer that might be down into the basalt.

Profile E was located in the same field as profile D but near the northeast corner of the field.

Site e11db is located at the west end of the profile and indicates that the base of the aquifer is at a depth of approximately 340 feet bgs.

Site e12db is located 75 feet west of b3db and indicates that the base of the aquifer is at a depth of approximately 330 feet bgs.

These aquifers are at the levels of the "River aquifer". There are no indications of a deeper aquifer that might be down into the basalt.

The estimated yields are partially based on the calibration data collected at the calibration well, which is discussed earlier in this report.

6. CONCLUSIONS

The interpretation of the data indicates only profile C has the potential for significant agricultural yield from a level likely to be into the basalt.

For Profile C the estimated depths to the base of this deeper "basalt" aquifer were from 520 to 590 feet bgs, with estimated yields from category L (140 to 250 gpm) to category N (300 to 550 gpm).

It should be noted that the estimated yields made by the Groundflow equipment involves many assumptions and should only be used as a guide for selecting drilling locations. Previous yield interpretations have been nearly exact in some instances but have also been lower, and higher, than that which was obtained after drilling had been completed. However, the values presented are only estimates based on the interpretation of the seismoelectric data.

7. RECOMMENDATIONS

The choice of which site to drill depends on many factors. It will be primarily decided by the client. However, the depth to the base of the aquifer and estimated yield are two important factors.

The surveys at profiles A, B, D and E were preliminary evaluations of these location. Additional soundings will be required to confirm or dispel the preliminary results, refine the depth estimations and provide sufficient data to fully analyze the potential yield of the aquifer

For profile C, the sites with the highest estimated yield (category N) were c6db and c14db. The depths to the base of the aquifer were essentially the same, but subjectively sit c14db showed a much stronger signal. It may be the best location.

Columbia Water Surveying does not recommend drilling in an area with an estimated yield of less than 6 gpm. The drilling process can, at times, significantly and detrimentally affect the final yield of a low yield aquifer.

Since the aquifer conditions may be changing with time, it is possible that these changes could adversely affect its yield. We, therefore, suggest that if the client chooses to drill a well at any of the surveyed locations, the well should be drilled within 90 days of the survey completion date.

Prior to drilling it should be ascertained that the drill operator has substantial experience with the drilling equipment that he, or she, operates the equipment correctly. In addition, the property owner should be present when drilling is done. It should be noted that drilling always causes some damage to the aquifer local to the drill site and this should be considered prior to drilling to an aquifer that has an estimated low yield. This report should be used as a guide, along with the driller's experience with drilling in the area.

If a well is drilled at this location, part of its development should include a long flow test (often 4 to 12 hours in length) in an attempt to remove all of the sediment and air that may have been introduced into the surrounding rock formation (aquifer) by the drilling process. These may restrict the flow of water into the well and therefore the subsequent yield. The flow test may need to be longer for less productive water bearing zones.

As stated earlier in this report, the estimated depths in this report should be generally used as a maximum depth to drill. If the estimated yield is obtained at a shallower depth than that provided by the interpretation, drilling to greater depths is not necessarily recommended.

All of the data recording, analysis, interpretations and conclusions in this report has been prepared by persons who have had a rigorous training in the acquisition and analysis of seismoelectric data.

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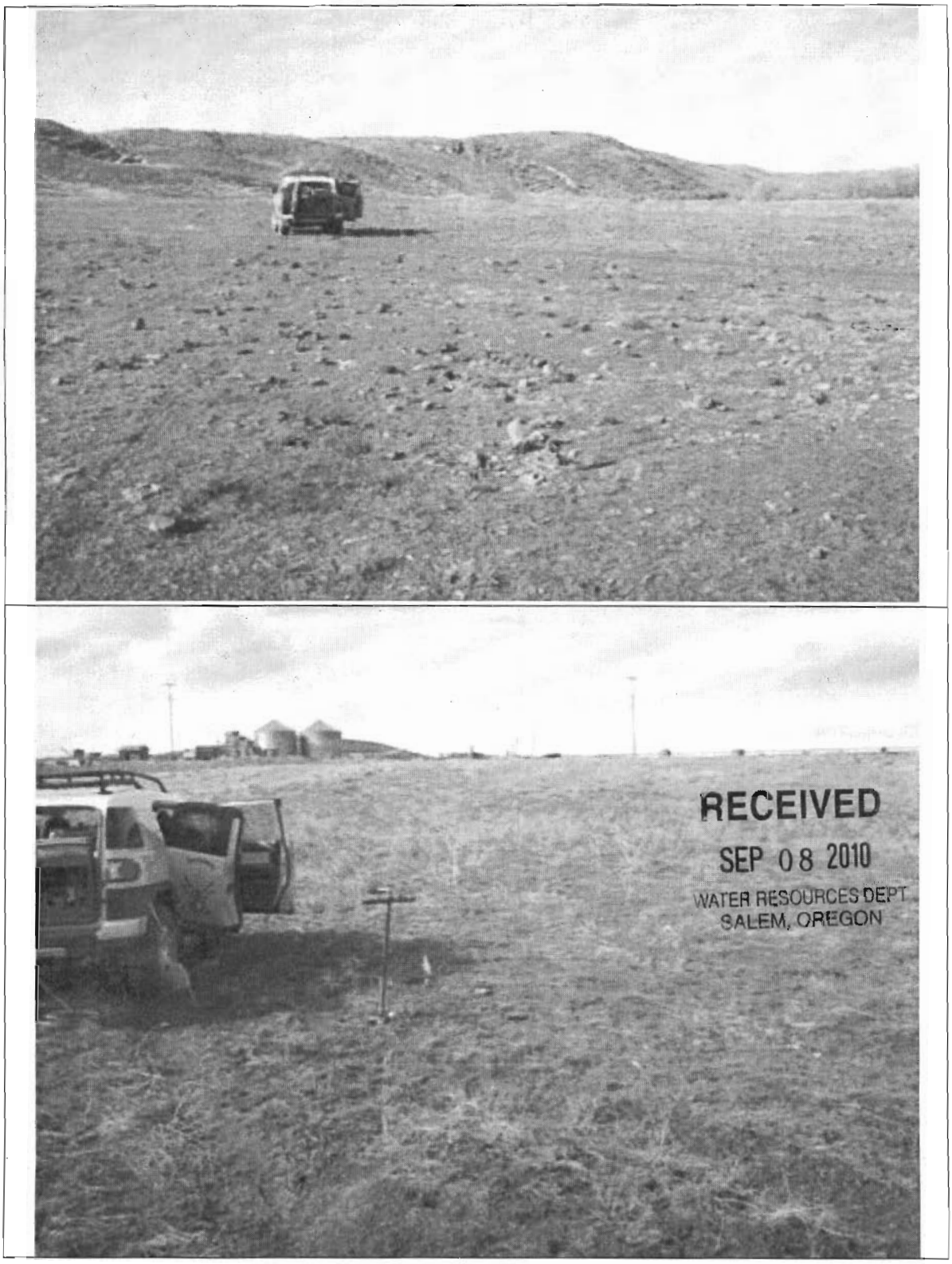

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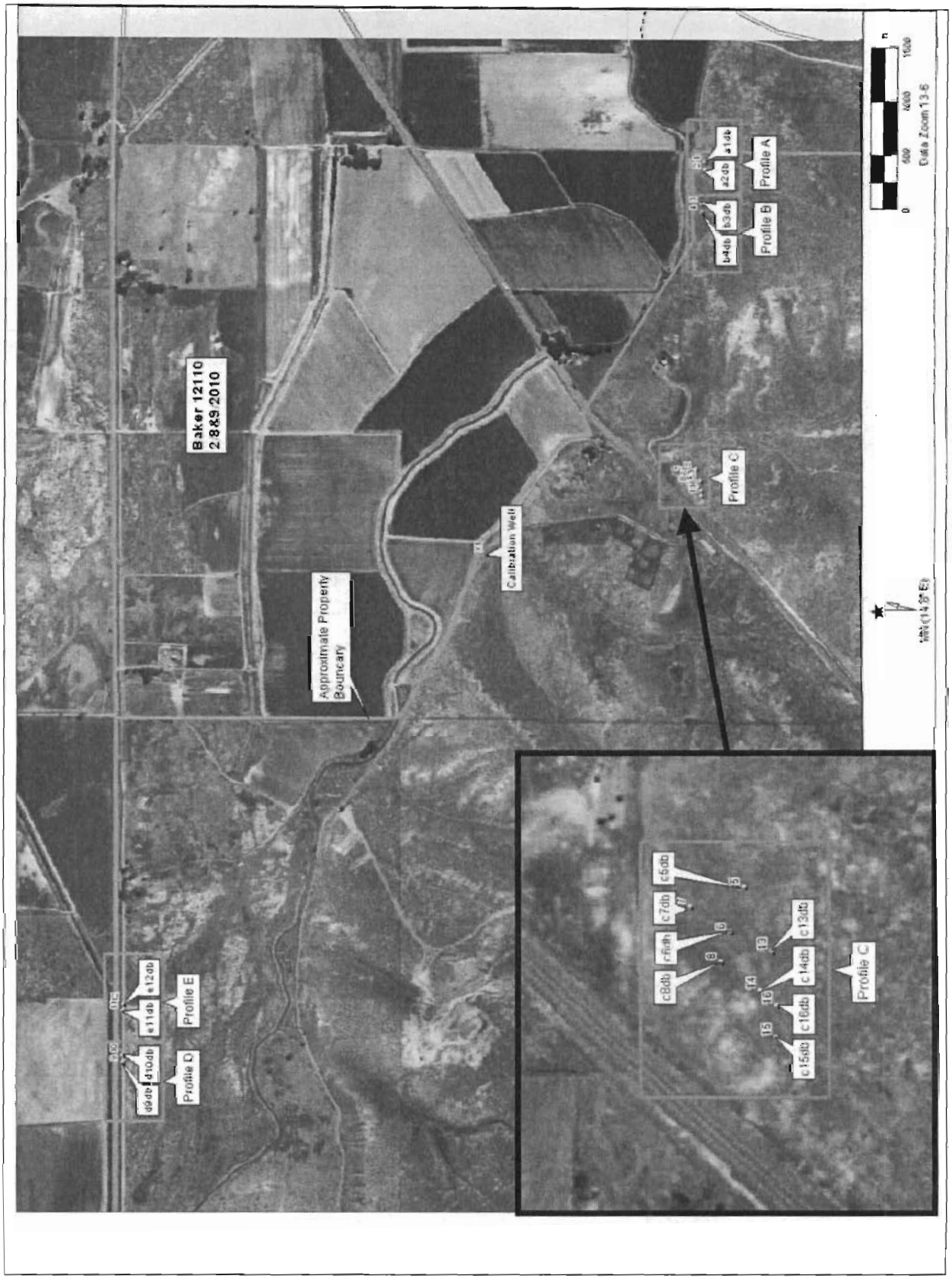

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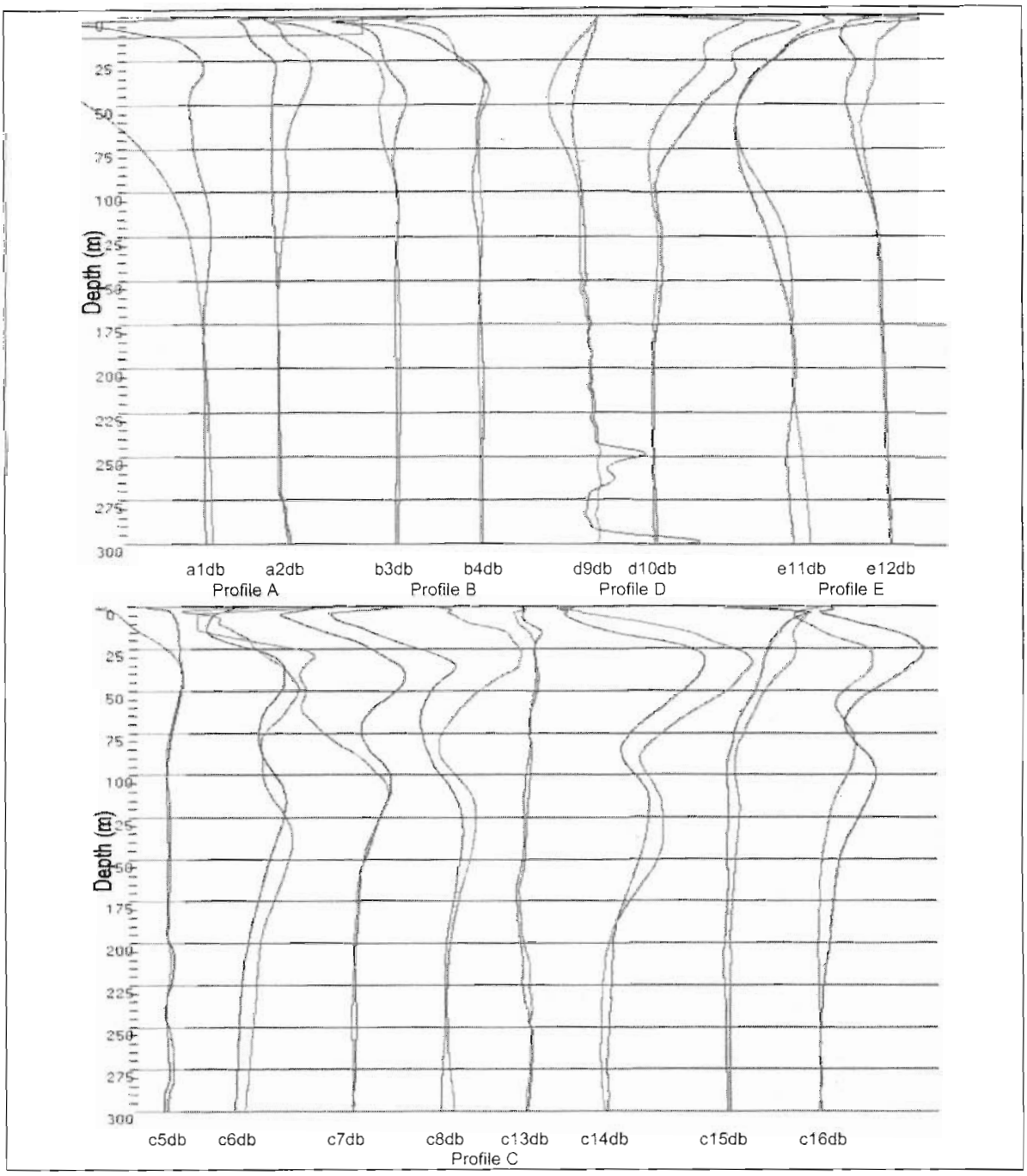

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The images above are a representation of the data collected at each test site. Accurate interpretation of this data requires training and experience and access to the proprietary software not available to the general public at this time. The inclusion of these images in the report is only intended to provide a basic illustration of the data collected at each test site.

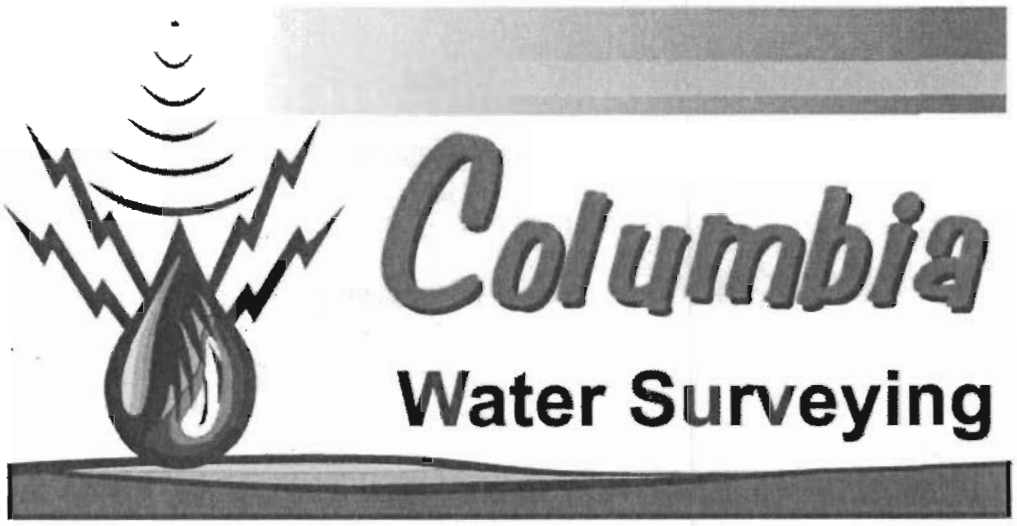
SEISMOELECTRIC SURVEY

Survey Service Agreement Number: 12110

FINAL REPORT

Client:

Dustin Baker
2601 Grove School Ln.
Vale OR 97918
Phone: 1. 541.216.9015



Columbia Water Surveying
2450 Wallula Av
Walla Walla WA 99362
Phone: 1.877.994.9100

April 27, 2010

G-17420

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FIGURES

1. SUMMARY

A Geophysical survey was conducted April 10, 2010 at Hwy 20, near Vale OR. The survey consisted of sixteen soundings in two profiles. The work was a follow-on to report 12110, dated February 22, 2010. The sites that showed the greatest potential are: for profile F, sites f31db and f32db; for profile G, sites g24db, g27db and g28db. For profile F, the depths to the base of the aquifer were 520 feet bgs with an estimated yield from a well drilled into the aquifer at these sites of Category P [650 to 1100 gallon/minute (gpm)]. For profile G, the depths to the base of the aquifer were from 430 to 440 feet bgs with an estimated yield from a well drilled into the aquifer at these sites of Category O (450 to 850 gpm). Refer to the complete report below for specific details on the survey.

2. INTRODUCTION

Client: Dustin Baker

Location of Survey: Hwy 2., approximately eight miles southwest of Vale OR (Malheur County). Township 14S, Range 43E, Section 13.

Description of Property: The survey property was a large ranch situated along the foothills south of the Malheur River valley. The surface conditions on the property were rangeland. Figure 1 shows two photos of the site conditions.

Purpose: The survey was a follow-on to job 12110. Subsequent to that survey, the client had a pump test done on his existing well, which found the yield to be 600-700 gpm as apposed to the 200-300 gpm originally estimated. That suggested that the yields up in the area south of the feedlot might have a stronger yield that originally estimated. The purpose of the survey at profile F was to investigate further this area south of the feedlot for potential sites for a well that would be closer to the proposed area where the water would be used. In addition studies to develop his existing well suggested that the cost of bringing power to the well site might exceed the cost of drilling a well at a new site closer to the power. The purpose of the survey at profile G was to investigate the potential of this location for a replacement well. If suitable sites could be located, a replacement well would be drilled in profile G and a new well would be drilled in profile F to provide agricultural yields.

3. BACKGROUND

(See the original report, 12110 for this information.)

4. DATA ACQUISITION and PROCESSING

Testing Methodology: (See the original report, 12110 for this information.)

Calibration Wells: An additional calibration was used to assist with processing the data recorded during the survey. The calibration well was located approximately 1600 feet southwest of the profile F on the client's property. A well log of the well was available, but since the well had been grouted in, no final yield could be determined for the well. The reported information from the well was: depth 595 feet bgs, static level 95 feet bgs, yield 200 gpm. Like the other calibration well, this yield value was based on an air test of the well with equipment, which was limited in its capacity. Based on the retest of the original

calibration well, the yield estimate for this well was judged to be incorrect. The well was used for depth calibration only. Yield calibrations were still based on the original well. The geology reported from the well indicated: sand and clay 0-30 feet bgs, blue clay 30-480 feet bgs and basalt 480-595 feet bgs. The water-bearing layer was indicated at 530-595 feet bgs.

Survey Layout: A total of sixteen new soundings were taken in two separate profile locations as shown in Figure 1. Both profiles F and G were detailed profiles consisting of eight soundings. The locations of the sites were chosen based on the client's request, but were predominantly located near the proposed location of the well. Global Positioning Satellite (GPS) coordinates for the specific soundings are presented in Table 1. Site locations are marked with numbered flags corresponding to the numbers in this report. At most of the sounding sites, several discrete soundings were recorded so as to verify the integrity of the Seismoelectric signals.

Site #	Latitude	Longitude	Site #	Latitude	Longitude
c5db*	N43.924913	W117.398455	a1db*	N43.924682	W117.387588
c6db*	N43.924970	W117.398725	a2db*	N43.924686	W117.387881
c7db*	N43.925142	W117.398571	b3db*	N43.924759	W117.389096
c8db*	N43.925009	W117.398908	b4db*	N43.924764	W117.389380
c13db*	N43.924793	W117.398846	d9db*	N43.939482	W117.419313
c14db*	N43.924840	W117.399083	d10db*	N43.939490	W117.419056
c15db*	N43.924773	W117.399357	e11db*	N43.939485	W117.417513
c16db*	N43.924772	W117.399166	e12db*	N43.939470	W117.417286
f17db	N43.919664	W117.407510	g21db	N43.923669	W117.404021
f18db	N43.919484	W117.407375	g22db	N43.923707	W117.404318
f19db	N43.919334	W117.407261	g23db	N43.923765	W117.404578
f20db	N43.919142	W117.407151	g24db	N43.923832	W117.404888
f29db	N43.918989	W117.407000	g25db	N43.923802	W117.404102
f30db	N43.918819	W117.406913	g26db	N43.923524	W117.404164
f31db	N43.919156	W117.406895	g27db	N43.923931	W117.404692
f32db	N43.918991	W117.407297	g28db	N43.923634	W117.404788

Table 1: GPS Coordinates of Test Sites
(Based on the WGS 84 map datum.)
(* Denotes original point from report 12110.)

Testing Conditions: No test conditions that adversely influenced data collection were encountered.

Test Analysis Method: (See the original report, 12110 for this information.)

Because many factors influence the interpreted yield, including the method used to drill a well, and in order to present the interpreted yields with accuracy that is realistic, the yield interpretation for each sounding is presented as one of a range of yields and is assigned an alphabetic label (category), as defined in Table 2.

Interpreted Yield (in gpm)	Category
0 – 3	A
2 – 6	B
5 – 10	C
8 – 15	D
12 – 25	E
18 – 35	F
25 – 50	G
35 – 65	H
50.– 95	I
70 – 130	J
100 – 180	K
140 – 250	L
200 – 350	M
300 – 550	N
450 – 850	O
650-1100	P

Table 2: Yield Categories

Figure 3 represents a selection of typical seismoelectric data (individual soundings) recorded during this survey. The interpreted yields were primarily obtained by using the proprietary software. They are based, in part, on assumptions regarding the static water level. In this area, this level is estimated to vary between 7 and 10 feet bgs. This is an important variable for yield estimates. The yield assumes that the full thickness of the aquifer is used down to the base of the aquifer specified at each test site. At this site the values obtained are based primarily on research using the local well logs provided by the State, but which were somewhat limited.

5. RESULTS and INTERPRETATION

The following provides the results interpretation of the data from each seismoelectric sounding. Based on past statistics, all of the following interpreted depths may vary by ± 15%, or sometimes more. Yield estimates are based on a 12-inch diameter well, and will increase or decrease for larger or smaller diameters respectively.

The model used to determine yield estimates for this survey was based on the data from the new pump test on calibration well #1.

Profile F is located just east of Hwy 20, approximately 2500 feet southwest of profile C. For many of these sites a strong upper aquifer is indicated. However the depth of this aquifer indicates that it is probably not down into the basalt. No yield estimates will be given for the upper aquifer. The deeper aquifers are at depths that are likely down into the basalt and yield estimates are given.

Site f17db is the northwestern most site in the profile. It indicates the base of an aquifer at 245 feet bgs. A deeper aquifer is shown at a depth of approximately 560 feet bgs and has an estimated yield of category M (200 to 350 gpm).

Site f18db is located approximately 75 feet southeast of f17db and indicates that the base of the upper aquifer is at a depth of 210 feet bgs. A deeper aquifer is show at approximately 410 feet bgs and has an estimated yield of category N (300 to 550 gpm).

Site f19db is 75 feet southeast of f18db and indicates and indicates that the base of the upper aquifer is at a depth of approximately 210 feet bgs. A deeper aquifer is shown at approximately 490 feet bgs and has an estimated yield of category O (450 to 850 gpm).

Site f20db is 75 feet southeast of f19db and indicates and indicates that the base of the upper aquifer is at a depth of approximately 210 feet bgs. A deeper aquifer is shown at approximately 480 feet bgs and has an estimated yield of category O (450 to 850 gpm).

Site f29db is located approximately 75 feet southeast of f20db, across a small gully, and indicates that the base of the upper aquifer is at a depth of 245 feet bgs. A deeper aquifer is shown at approximately 480 feet bgs and has an estimated yield of category O (450 to 850 gpm).

Site f31db is off the axis of the primary profile, 75 feet north of f29db, but on the east side of the gully, and indicates that the base of the upper aquifer is at a depth of 210 feet bgs. A deeper aquifer is shown at approximately 520 feet bgs and has an estimated yield of category P (650 to 1100 gpm).

Site f32db is also off the axis of the primary profile, approximately 75 feet southwest of f29db, back on the west side of the gully, and indicates that the base of the upper aquifer is at a depth of 245 feet bgs. A deeper aquifer is shown at approximately 520 feet bgs and has an estimated yield of category P (650 to 1100 gpm).

Site f30db is 75 feet southeast of f29db and indicates and indicates that the base of the upper aquifer is at a depth of approximately 245 feet bgs. A deeper aquifer is shown at approximately 520 feet bgs and has an estimated yield of category O (450 to 850 gpm).

Profile G is located west of Hwy 20 and the power line, approximately 1500 feet southwest of profile C. For many of these sites a strong upper aquifer is indicated. However the depth of this aquifer indicates that it is probably not down into the basalt. No yield estimates will be given for the upper aquifer. The deeper aquifers are at depths that are likely down into the basalt and yield estimates are given.

Site g21db is the east most site in the profile. It indicates the base of an aquifer at 165 feet bgs. A deeper aquifer is shown at a depth of approximately 460 feet bgs and has an estimated yield of category P (650 to 1100 gpm). This high yield may be an aberration, in that it could not be confirmed by adjacent soundings.

Site g25db is located 75 feet northwest of g21db and indicates that the base of the upper aquifer is at a depth of 165 feet bgs. A deeper aquifer is show at approximately 410 feet bgs and has an estimated yield of category M (200 to 350 gpm).

Site g26db is 75 feet southwest of g21db and indicates and indicates that the base of the upper aquifer is at a depth of approximately 165 feet bgs. A deeper aquifer is shown at approximately 430 feet bgs and has an estimated yield of category K (100 to 180 gpm).

Site g22db is 75 feet west of g21db, along the primary axis of the profile, and indicates that the base of the upper aquifer is at a depth of 165 feet bgs. A deeper aquifer is show at approximately 380 feet bgs and has an estimated yield of category M (200 to 350 gpm).

Site g23db is located approximately 75 feet west of g22db and indicates that the base of the upper aquifer is at a depth of 210 feet bgs. A deeper aquifer is shown at approximately 460 feet bgs and has an estimated yield of category M (200 to 350 gpm).

Site g24db is 75 feet west of g23db and indicates that the base of the upper aquifer is at a depth of 195 feet bgs. A deeper aquifer is shown at approximately 440 feet bgs and has an estimated yield of category O (450 to 850 gpm).

Site g27db is off the primary axis, located approximately 75 feet northwest of g23db and indicates and indicates that the base of the upper aquifer is at a depth of approximately 165 feet bgs. A deeper aquifer is shown at approximately 440 feet bgs and has an estimated yield of category O (450 to 850 gpm).

Site g28db is also off the primary axis of the profile, 75 feet southwest of g23db and indicates and indicates that the base of the upper aquifer is at a depth of approximately 195 feet bgs. A deeper aquifer is shown at approximately 430 feet bgs and has an estimated yield of category O (450 to 850 gpm).

The estimated yields are partially based on the calibration data collected at the calibration well, which is discussed earlier in this report.

6. CONCLUSIONS

The interpretation of the data indicates both profiles show the potential to be developed for agricultural quantities of water.

For Profile F the estimated depths to the base of the deeper "basalt" aquifer were from 410 to 560 feet bgs, with estimated yields from category M (200 to 350 gpm) to category P (650 to 1100 gpm).

For Profile G the estimated depths to the base of the deeper "basalt" aquifer were from 360 to 460 feet bgs, with estimated yields from category K (100 to 180 gpm) to category O (450 to 850 gpm).

It should be noted that the estimated yields made by the Groundflow equipment involves many assumptions and should only be used as a guide for selecting drilling locations. Previous yield interpretations have been nearly exact in some instances but have also been lower, and higher, than that which was obtained after drilling had been completed. However, the values presented are only estimates based on the interpretation of the seismoelectric data.

7. RECOMMENDATIONS

The choice of which site to drill depends on many factors. It will primarily be decided by the client. However, the depth to the base of the aquifer and estimated yield are two important factors.

For profile F, the sites with the highest estimated yield (category P) were f31db and f32db. The depths to the base of the aquifer were the same, and the yield estimates were essentially equal.

For profile G, the sites with the highest estimated yield (category O) were g24db, g27db and d28db. The depths to the base of the aquifer were essentially the same, but subjectively sit g28db showed a slightly stronger signal. It may be the best location.

Since the aquifer conditions may be changing with time, it is possible that these changes could adversely affect its yield. We, therefore, suggest that if the client chooses to drill a well at any of the surveyed locations, the well should be drilled within 90 days of the survey completion date.

Prior to drilling it should be ascertained that the drill operator has substantial experience with the drilling equipment that he, or she, operates the equipment correctly. In addition, the property owner should be present when drilling is done. It should be noted that drilling always causes some damage to the aquifer local to the drill site and this should be considered prior to drilling to an aquifer that has an estimated low yield. This report should be used as a guide, along with the driller's experience with drilling in the area.

If a well is drilled at this location, part of its development should include a long flow test (often 4 to 12 hours in length) in an attempt to remove all of the sediment and air that may have been introduced into the surrounding rock formation (aquifer) by the drilling process. These may restrict the flow of water into the well and therefore the subsequent yield. The flow test may need to be longer for less productive water bearing zones.

As stated earlier in this report, the estimated depths in this report should be generally used as a maximum depth to drill. If the estimated yield is obtained at a shallower depth than that provided by the interpretation, drilling to greater depths is not necessarily recommended.

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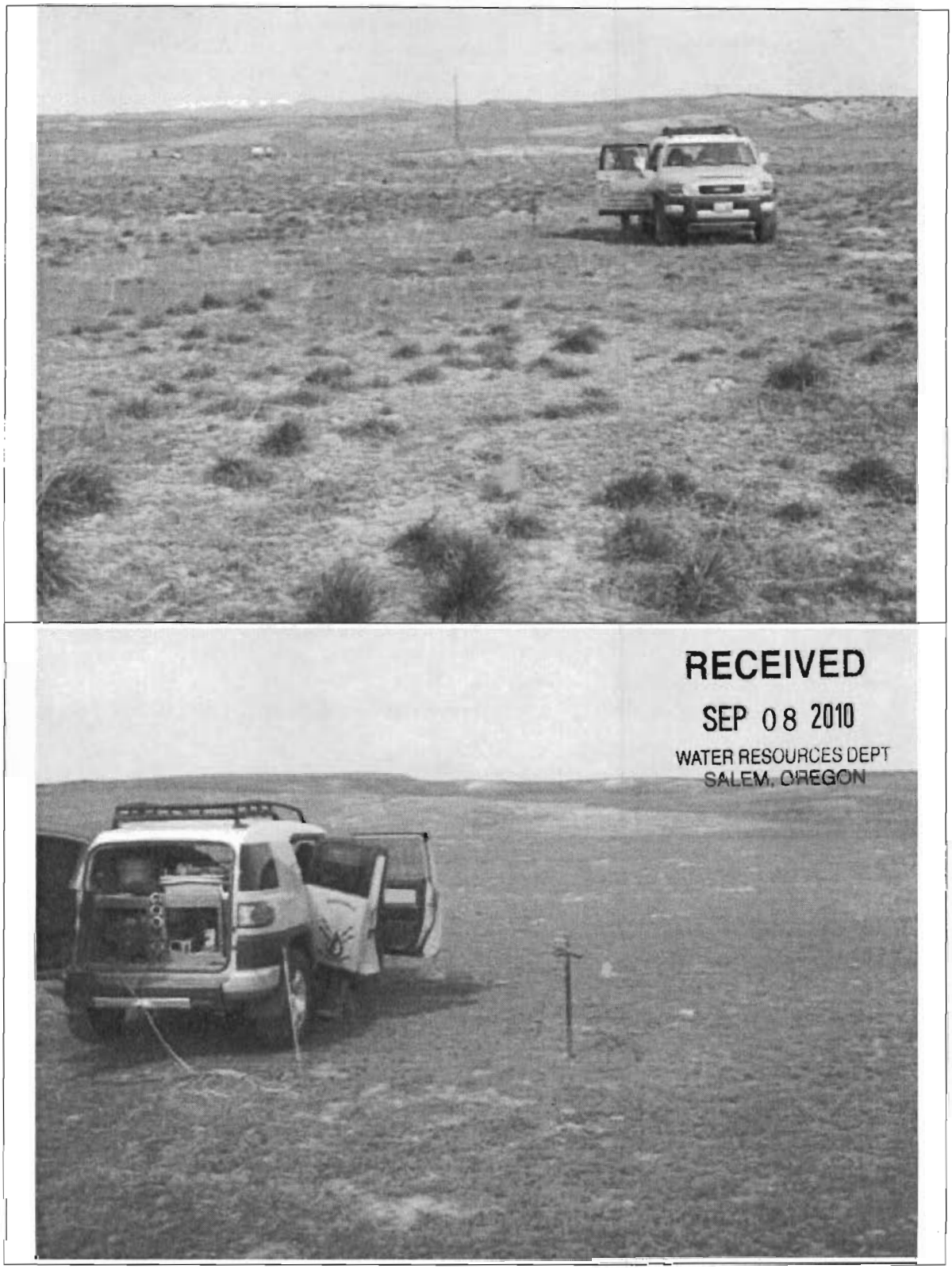

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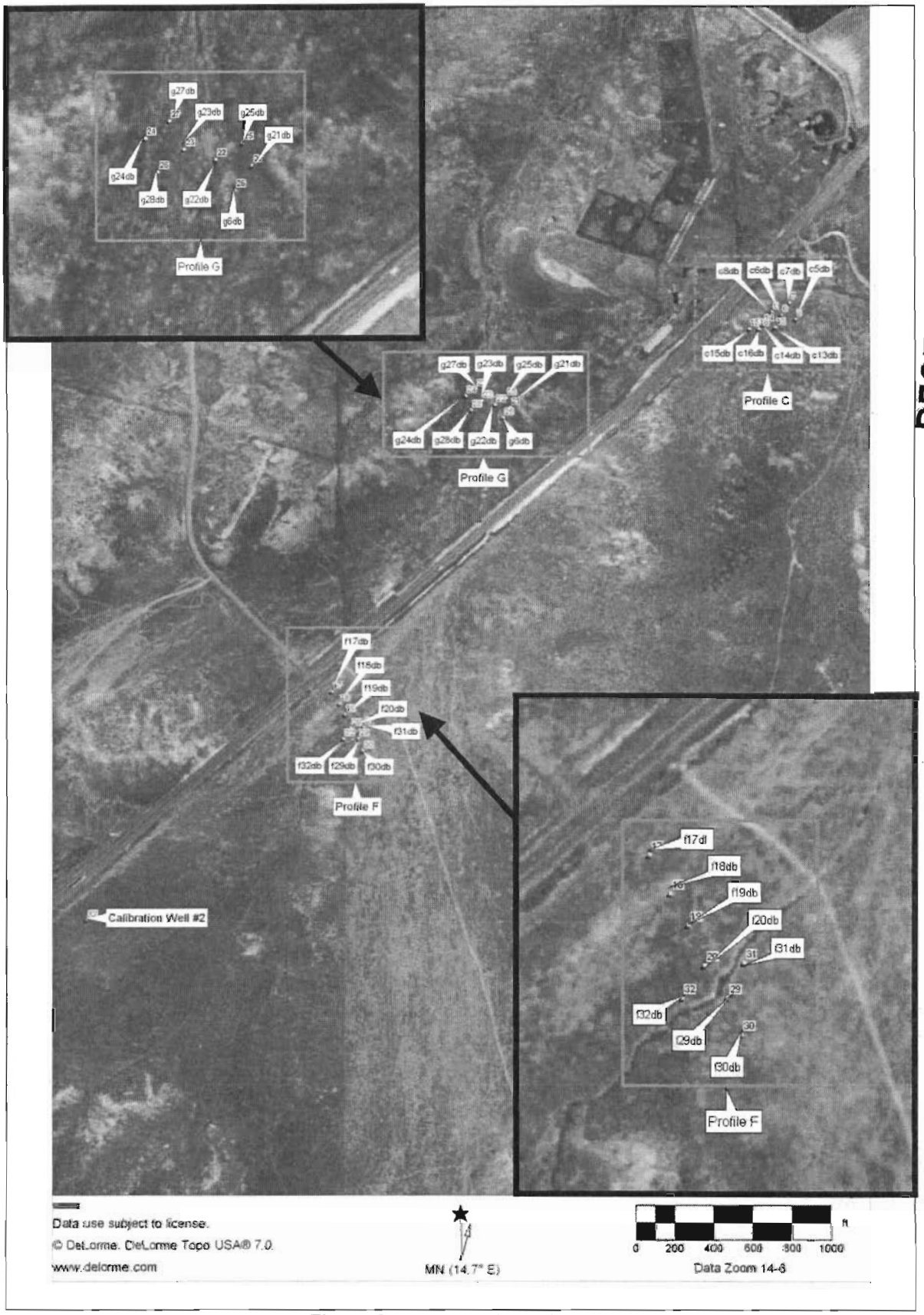

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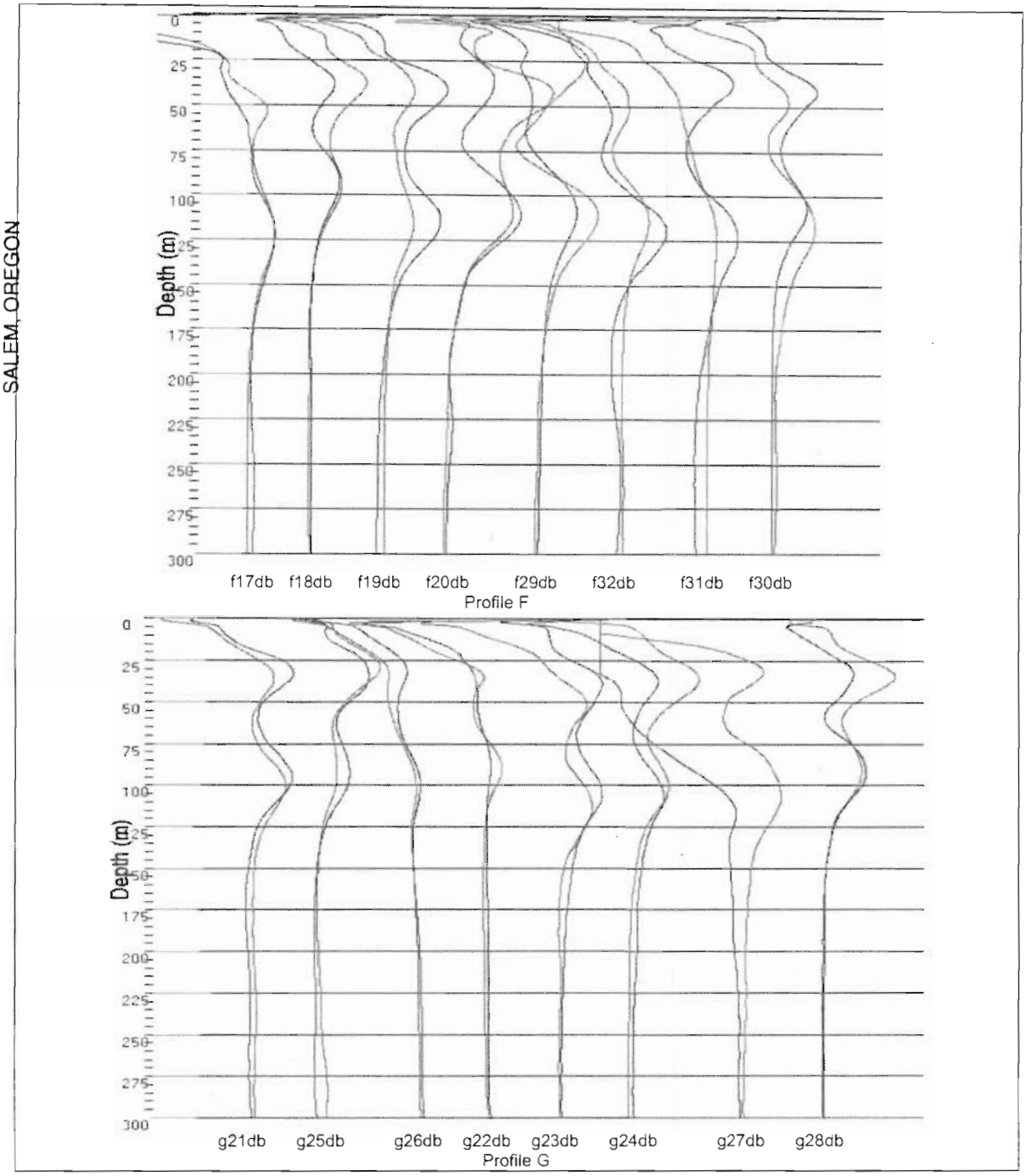

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Herb Mosgar

From: Dan Cummings [dan@ck3llc.net]

Sent: Wednesday, September 08, 2010 12:07 PM

To: Herb Mosgar

Subject: RE: Faith Land Application G17420

Herb,
I talked with Dustin Baker a little while ago and he confirmed that he and his wife Mary are Members of the Faith Land Company, LLC and Authorized to sign and his Father in Law Donald Decker is also the main Member of the LLC.
If you need any further clarification or documentation please let me know.
Thanks and have a great day.
Dan

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G-17420

Herb Mosgar

From: Dan Cummings [dan@ck3llc.net]

Sent: Wednesday, September 08, 2010 8:13 AM

To: Herb Mosgar

Subject: Faith Land Application G17420

Attachments: Faithland Well Logs.pdf; Faithland 12110_Report[1].pdf; Faithland 12112_Report[1].pdf

Herbert,
Thank you very much for your phone call and request for additional information on the proposed Wells for Faith Land Company, LLC Ground Water Application that you assigned the Number G-17420.
As we discussed I contacted the owners and they have confirmed to me that their intent is to get into the Basalt Aquifer.
I have attached to this e-mail the two (2) Water Reports that were prepared for this project, along with Well logs of existing wells that they had an updated pump test done that the client provided to me to send to you for addional information to their application. Hopefully these reports will help you in determining the intent of the wells.
If you have any further questions, please feel free to e-mail or call me and again thank you very much for your help in this matter.
Would you please confirm that you received this information.
Respectfully
Dan

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G-17420

9/8/2010