# Attachment 2
# Water Well Reports/Well Logs
## Application for a Permit Amendment – G-14042

# UMAT 55961

West well

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

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

WELL I.D. # L 82260
START CARD # 146102

**(1) LAND OWNER** Well Number
Name Richard Smith
Address 1215 NW Cardon ave.
City Pendleton State OR Zip 97801

**(2) TYPE OF WORK**
☐ New Well ☑ Deepening ☐ Alteration (repair/recondition) ☐ Abandonment

**(3) DRILL METHOD:**
☐ Rotary Air ☐ Rotary Mud ☑ Cable ☐ Auger
☐ Other

**(4) PROPOSED USE:**
☐ Domestic ☐ Community ☐ Industrial ☑ Irrigation
☐ Thermal ☐ Injection ☐ Livestock ☐ Other

**(5) BORE HOLE CONSTRUCTION:**
Special Construction approval ☐ Yes ☐ No Depth of Completed Well 883 ft.
Explosives used ☐ Yes ☑ No Type Amount

| HOLE Diameter | From | To | SEAL Material | From | To | Sacks or pounds |
|---|---|---|---|---|---|---|
| 12" | 849 | 883 | | | | |
| | | | | | | |
| | | | | | | |

How was seal placed: Method ☐ A ☐ B ☐ C ☐ D ☐ E
☐ Other
Backfill placed from ft. to ft. Material
Gravel placed from ft. to ft. Size of gravel

**(6) CASING/LINER:**

| | Diameter | From | To | Gauge | Steel | Plastic | Welded | Threaded |
|---|---|---|---|---|---|---|---|---|
| Casing: | | | | | ☐ | ☐ | ☐ | ☐ |
| | | | | | ☐ | ☐ | ☐ | ☐ |
| | | | | | ☐ | ☐ | ☐ | ☐ |
| | | | | | ☐ | ☐ | ☐ | ☐ |
| Liner: | | | | | ☐ | ☐ | ☐ | ☐ |
| | | | | | ☐ | ☐ | ☐ | ☐ |

Drive Shoe used ☐ Inside ☐ Outside ☐ None
Final location of shoe(s)

**(7) PERFORATIONS/SCREENS:**
☐ 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 |
|---|---|---|---|
| 30+ | No | | 1 hr. |
| | | | |
| | | | |

Temperature of water 69 Depth Artesian Flow Found
Was a water analysis done? ☐ Yes By whom
Did any strata contain water not suitable for intended use? ☑ Too little
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other
Depth of strata:

**(9) LOCATION OF WELL by legal description:**
County Umatilla Latitude Longitude
Township 4 ☐ N or S Range 30 ☐ E or W. WM.
Section 3 SW 1/4 NW 1/4
Tax Lot 401 Lot Block Subdivision
Street Address of Well (or nearest address) off Kamas Rd.

**(10) STATIC WATER LEVEL:**
310 ft. below land surface. Date June 19, 2007
Artesian pressure lb. per square inch Date

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

| From | To | Estimated Flow Rate | SWL |
|---|---|---|---|
| 864 | 883 | 30+ | 310 |
| | | | |
| | | | |
| | | | |
| | | | |

**(12) WELL LOG:**
Ground Elevation

| Material | From | To | SWL |
|---|---|---|---|
| Drill Fill Broken Rocks | 849 | 864 | 310 |
| Broken Rocks | 864 | 883 | 310 |
| Black Basalt. | 882 | 883 | |

RECEIVED
JUL 05 2007
WATER RESOURCES DEPT
SALEM, OREGON

RECEIVED
JUN 29 2009
WATER RESOURCES DEPT
SALEM, OREGON

Date started June 18, 2007 Completed June 23, 2007

**(unbonded) Water Well Constructor Certification:**
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.
Signed Jody Y Cooper WWC Number 1669 Date June 23 2007

**(bonded) Water Well Constructor Certification:**
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.
Signed Jody Y Cooper WWC Number 1669 Date June 23 2007

T 1091 ORIGINAL – WATER RESOURCES DEPARTMENT FIRST COPY – CONSTRUCTOR SECOND COPY – CUSTOMER

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

UMAT 55672
02-22-2006



WELL LABEL # L 82260

START CARD # 179853

## (1) LAND OWNER

Owner Well I.D.

First Name RICHARD Last Name SMITH

Company

Address 1215 NW CARDEN AVE

City PENDLETON State OR Zip 97801

## (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

## (5) BORE HOLE CONSTRUCTION

Special Standard ☐ Attach copy

Depth of Completed Well 864.00 ft.

| BORE HOLE Dia | From | To | SEAL Material | From | To | Amt | sacks/ lbs |
|---|---|---|---|---|---|---|---|
| 18 | 0 | 75 | | | | | |
| 15 | 75 | 864 | Cement | 0 | 542 | 189 | S |
| | | | | | | | |
| | | | | | | | |

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 |
|---|---|---|---|---|---|---|---|---|---|---|
| ● | ○ | 12 | ☒ | 2 | 542 | .375 | ● | ○ | ☒ | ☐ |
| ○ | ○ | | ☐ | | | | ○ | ○ | ☐ | ☐ |
| ○ | ○ | | ☐ | | | | ○ | ○ | ☐ | ☐ |
| ○ | ○ | | ☐ | | | | ○ | ○ | ☐ | ☐ |
| ○ | ○ | | ☐ | | | | ○ | ○ | ☐ | ☐ |

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) |
|---|---|---|---|
| 500 | | 500 | 1 |
| 500 | | 400 | |
| 200 | | 300 | |

Temperature 69 °F Lab analysis ☐ Yes By

Water quality concerns? ☐ Yes (describe below)

| From | To | Description | Amount | Units |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |

RECEIVED
JUN 29 2009
WATER RESOURCES DEPT
SALEM, OREGON

## (9) LOCATION OF WELL (legal description)

County Umatilla Twp 4.00 N N/S Range 30.00 E E/W WM

Sec 3 SW 1/4 of the NW 1/4 Tax Lot 401

Tax Map Number Lot

Lat ° 0 ' " or DMS or DD

Long ° 0 ' " or DMS or DD

○ Street address of well ◉ Nearest address

KOZMOS RD

## (10) STATIC WATER LEVEL

| | Date | SWL(psi) | + | SWL(ft) |
|---|---|---|---|---|
| Existing Well / Predeepening | | | | |
| Completed Well | 02-21-2006 | | | 200 |

Flowing Artesian? ☐

WATER BEARING ZONES Depth water was first found

| SWL Date | From | To | Est Flow | SWL(psi) | + | SWL(ft) |
|---|---|---|---|---|---|---|
| 01-03-2006 | 90 | 120 | 5 | | | 126 |
| 01-19-2006 | 175 | 474 | 100 | | | 126 |
| 02-21-2006 | 855 | 864 | 500 | | | 200 |
| | | | | | | |
| | | | | | | |

## (11) WELL LOG

Ground Elevation

| Material | From | To |
|---|---|---|
| SANDY SOIL | 0 | 65 |
| GRAVEL | 65 | 79 |
| BLACK BASALT | 79 | 90 |
| BROWN BASALT W/TAN CLAY STONE | 90 | 120 |
| BLACK BASALT | 120 | 156 |
| BLACK BASALT W/BLUE CLAY STON | 156 | 175 |
| BLACK BASALT | 175 | 474 |
| SOFT BLACK BASALT | 474 | 500 |
| BLACK BASALT | 500 | 768 |
| BLACK BASALT W/GREEN CLAY STONE | 768 | 803 |
| BLACK BASALT | 803 | 855 |
| BROKEN BROWN BASALT | 855 | 864 |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

Date Started 12-12-2005 Completed 02-21-2006

**(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 1731 Date 02-22-2006

Electronically Filed

Signed RYAN SCOTT FULLERTON (E-filed)

**(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 544 Date 02-22-2006

Electronically Filed

Signed LARRY BURD (E-filed)

ORIGINAL - WATER RESOURCES DEPARTMENT

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

Form Version: 0.82

T 10N

Oregon
Theodore R. Kulongoski, Governor

Water Resources Department
North Mall Office Building
725 Summer Street NE, Suite A
Salem, OR 97301-1266
503-986-0900
FAX 503-986-0904



July 23, 2007

LARRY BURD WELL DRILLING
LARRY BURD #544
70732 SW DOUGLAS DR
PENDLETON OR 97801

RE: UMAT 55672 and UMAT 55841

In a May 11, 2007, letter (your response copy enclosed) we requested the correct well identification number for two well logs that had the same tag number. You returned the letter with the correction, however a deepening log recently submitted by another driller for the UMAT 55672 (Richard Smith) well shows it's tag number to be 82260. So, would you please indicate the correct Well ID Number here for well UMAT 55841: 82260

***The correct ID number that you will give us on this letter will be entered on the original copy of the well log that we have.***

Please return this letter with the correct well tag number within 30 days from the date of this letter. If you have any questions, please contact me at (503) 986-0856, or email: Tracy.L.Eichenlaub@wrd.state.or.us. Thank you for your cooperation.

Sincerely,

Tracy Eichenlaub
Well Construction & Compliance Section



62

8-20-07 Per our conversation well Log UMAT 55841 is Correct with tag L 82260.

After Physical inspection of both wells, We found NO Tag on UMAT 55672, So placed tag L 83476.

Do to this correction, the deepening UMAT 55961 will also need corrected to be tag 83476.

Sorry, Tammy

East well

# UMAT 55856

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

WELL I.D. # L 83479
START CARD # 185240

(1) LAND OWNER Well Number
Name John White or Richard Smith
Address P.O. Box 1751
City Hermiston State OR Zip 97838

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

(3) DRILL METHOD:
☑ Rotary Air ☐ Rotary Mud ☐ Cable ☐ Auger
☐ Other

(4) PROPOSED USE:
☐ Domestic ☐ Community ☐ Industrial ☑ Irrigation
☐ Thermal ☐ Injection ☐ Livestock ☐ Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval ☐ Yes ☑ No Depth of Completed Well 1060 ft.
Explosives used ☐ Yes ☑ No Type Amount

| HOLE Diameter | From | To | SEAL Material | From | To | Sacks or pounds |
|---|---|---|---|---|---|---|
| 12" | 622 | 645 | N/A | | | |
| 8" | 645 | 1060 | | | | |
| | | | | | | |
| | | | | | | |

How was seal placed: Method ☐ A ☐ B ☐ C ☐ D ☐ E
☐ Other
Backfill placed from ft. to ft. Material
Gravel placed from ft. to ft. Size of gravel

(6) CASING/LINER:

| | Diameter | From | To | Gauge | Steel | Plastic | Welded | Threaded |
|---|---|---|---|---|---|---|---|---|
| Casing: | | | | | ☐ | ☐ | ☐ | ☐ |
| | | | | | ☐ | ☐ | ☐ | ☐ |
| | | | | | ☐ | ☐ | ☐ | ☐ |
| | | | | | ☐ | ☐ | ☐ | ☐ |
| Liner: | | | | | ☐ | ☐ | ☐ | ☐ |
| | | | | | ☐ | ☐ | ☐ | ☐ |

Drive Shoe used ☐ Inside ☐ Outside ☐ None
Final location of shoe(s)

(7) PERFORATIONS/SCREENS:
☐ 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 |
|---|---|---|---|
| 4000+ | | 1060 | 1 hr. |
| Beginning flow 300 gpm | | | |

Temperature of water 70° Depth Artesian Flow Found
Was a water analysis done? ☐ Yes By whom
Did any strata contain water not suitable for intended use? ☐ Too little
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other
Depth of strata:

(9) LOCATION OF WELL by legal description:
County Umatilla Latitude Longitude
Township 4N N or S Range 30E E or W. WM.
Section 3 NE 1/4 SE 1/4
Tax Lot 401 Lot Block Subdivision
Street Address of Well (or nearest address) Kozmos Rd.
Hermiston, OR 97838

(10) STATIC WATER LEVEL: Beginning Static 490 ft.
423 ft. below land surface. Date 8-10-06
Artesian pressure lb. per square inch Date

(11) WATER BEARING ZONES:
Depth at which water was first found 815

| From | To | Estimated Flow Rate | SWL |
|---|---|---|---|
| 815 | 855 | 500+ | 423 |
| 938 | 950 | 100+ | 423 |
| | | | |
| | | | |
| | | | |

(12) WELL LOG:
Ground Elevation

| Material | From | To | SWL |
|---|---|---|---|
| Gray basalt, hard | 622 | 645 | |
| Dark gray basalt, hard | 645 | 664 | |
| Brown basalt, soft | 664 | 676 | |
| Black basalt | 676 | 710 | |
| Gray basalt | 710 | 815 | |
| Brown & gray basalt, soft | 815 | 855 | WB |
| Gray basalt | 855 | 938 | |
| Black basalt with blue soapstone | 938 | 950 | WB |
| Gray basalt | 950 | 990 | |
| Black basalt | 990 | 1035 | |
| Gray basalt | 1035 | 1060 | |

RECEIVED
JUN 29 2009
WATER RESOURCES DEPT
SALEM, OREGON

RECEIVED
SEP 28 2006
WATER RESOURCES DEPT
SALEM, OREGON

Date started 8-10-06 Completed 8-10-06

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

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.
WWC Number 1218
Signed Patrick Willard Date 8-18-06

ORIGINAL – WATER RESOURCES DEPARTMENT FIRST COPY – CONSTRUCTOR SECOND COPY – CUSTOMER

T 1S 29E

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

**UMAT 55752**
**06-26-2006**



WELL LABEL # L 83479
START CARD # 187029

## (1) LAND OWNER

Owner Well I.D.
First Name RICHARD Last Name SMITH
Company
Address 980 E HURLBURT AVE
City HERMISTON State OR Zip 97838

## (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

## (5) BORE HOLE CONSTRUCTION

Special Standard ☐ Attach copy
Depth of Completed Well 622.00 ft.

| BORE HOLE Dia | From | To | SEAL Material | From | To | Amt | sacks/ lbs |
|---|---|---|---|---|---|---|---|
| 20 | 0 | 108 | Cement | 0 | 108 | 60 | S |
| 16 | 108 | 622 | Cement | 108 | 450 | 190 | S |
| | | | | | | | |
| | | | | | | | |

How was seal placed: Method ☐ A ☐ B ☐ C ☐ D ☐ E
☒ Other HALIBURTON
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 |
|---|---|---|---|---|---|---|---|---|---|---|
| ◉ | ○ | 12 | ☒ | 2 | 450 | .375 | ◉ | ○ | ☒ | ☐ |
| ◉ | ○ | 10 | ☐ | 1 | 104 | .365 | ◉ | ○ | ☒ | ☐ |
| ○ | ○ | | ☐ | | | | ○ | ○ | ☐ | ☐ |
| ○ | ○ | | ☐ | | | | ○ | ○ | ☐ | ☐ |
| ○ | ○ | | ☐ | | | | ○ | ○ | ☐ | ☐ |

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 |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

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

○ Pump ○ Bailer ◉ Air ○ Flowing Artesian

| Yield gal/min | Drawdown | Drill stem/Pump depth | Duration (hr) |
|---|---|---|---|
| 500 | | 622 | 1 |
| | | | |
| | | | |

Temperature 69 °F Lab analysis ☐ Yes By
Water quality concerns? ☐ Yes (describe below)

| From | To | Description | Amount | Units |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |

RECEIVED
JUN 29 2009
WATER RESOURCES DEPT
SALEM, OREGON

## (9) LOCATION OF WELL (legal description)

County Umatilla Twp 4.00 N N/S Range 30.00 E E/W WM
Sec 3 SW NE 1/4 of the NW SE 1/4 Tax Lot 401
Tax Map Number Lot
Lat ° 0 ' " or DMS or DD
Long ° 0 ' " or DMS or DD
○ Street address of well ◉ Nearest address
SOUTH @ MILE POST 2 ON KOZMOS RD

## (10) STATIC WATER LEVEL

| | Date | SWL(psi) | + | SWL(ft) |
|---|---|---|---|---|
| Existing Well / Predeepening | | | | |
| Completed Well | 06-25-2006 | | | 407 |

Flowing Artesian? ☐ Dry Hole? ☐

WATER BEARING ZONES Depth water was first found

| SWL Date | From | To | Est Flow | SWL(psi) | + | SWL(ft) |
|---|---|---|---|---|---|---|
| 05-11-2006 | 350 | 356 | 30 | | | 313 |
| 05-16-2006 | 488 | 492 | 300 | | | 407 |
| 05-16-2006 | 510 | 520 | 500 | | | 407 |
| | | | | | | |
| | | | | | | |

## (11) WELL LOG

Ground Elevation

| Material | From | To |
|---|---|---|
| SAND AND SOIL | 0 | 88 |
| GRAVEL | 88 | 93 |
| BROKEN BROWN BASALT | 93 | 108 |
| BLACK BASALT | 108 | 345 |
| BROWN BASALT | 345 | 366 |
| BLACK BASALT | 366 | 488 |
| BLACK BASALT/GREEN CLAYSTONE | 488 | 492 |
| BLACK BASALT/TAN CLAYSTONE | 492 | 496 |
| BLACK BASALT | 496 | 510 |
| BLACK SCORIA | 510 | 520 |
| BLACK BASALT | 520 | 555 |
| BLACK BASALT/GREEN CLAYSTONE | 555 | 558 |
| BLACK BASALT | 558 | 614 |
| BLACK BASALT/GREEN CLAYSTON | 614 | 618 |
| BLACK BASALT | 618 | 622 |
| | | |
| | | |
| | | |
| | | |

Date Started 05-04-2006 Completed 06-25-2006

**(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 1731 Date 06-26-2006
Electronically Filed
Signed RYAN SCOTT FULLERTON (E-filed)

**(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 544 Date 06-26-2006
Electronically Filed
Signed LARRY BURD (E-filed)
Contact Info (optional)

ORIGINAL - WATER RESOURCES DEPARTMENT

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

Form Version: 0.86

T 109

Rec'd 10 CC

# UMAT 56199

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

**WELL LABEL # L** 91800

**START CARD #** 193842

## (1) LAND OWNER

Owner Well I.D. 3

First Name _____ Last Name _____

Company Keltic Pride Dairy LLC

Address PO Box 1751

City Hermiston State OR Zip 97838

## (2) TYPE OF WORK

[X] New Well [ ] Deepening [ ] Conversion
[ ] Alteration (repair/recondition) [ ] Abandonment

## (3) DRILL METHOD

[X] Rotary Air [ ] Rotary Mud [ ] Cable [ ] Auger [ ] Cable Mud
[X] Reverse Rotary [ ] Other _____

## (4) PROPOSED USE

[ ] Domestic [X] Irrigation [ ] Community
[ ] Industrial/ Commericial [ ] Livestock [ ] Dewatering
[ ] Thermal [ ] Injection [ ] Other _____

## (5) BORE HOLE CONSTRUCTION

Special Standard [ ] (Attach copy)

Depth of Completed Well 1,671 ft.

| BORE HOLE Dia | From | To | SEAL Material | From | To | Amt | sacks/ lbs |
|---|---|---|---|---|---|---|---|
| 24 | 0 | 75 | Cement | 0 | 950 | 704 | S |
| 20 | 75 | 954 | | | | | |
| 16 | 954 | 1,671 | | | | | |

How was seal placed: Method [X] A [ ] B [X] 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| ● | | 16 | X | 1 | 950 | .375 | ● | | X | |

Shoe [ ] Inside [ ] Outside [X] Other Location of shoe(s) 950

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 |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

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

(●) Pump ( ) Bailer ( ) Air ( ) Flowing Artesian

| Yield gal/min | Drawdown | Drill stem/Pump depth | Duration (hr) |
|---|---|---|---|
| 1,925 | 47 | | 46 |

Temperature 82 °F Lab analysis [ ] Yes By _____

Water quality concerns? [ ] Yes (describe below)

| From | To | Description | Amount/Units |
|---|---|---|---|
| | | | |

RECEIVED
JUN 29 2009
WATER RESOURCES DEPT.
SALEM, OREGON

## (9) LOCATION OF WELL (legal description)

County UMATILLA Twp 4 N N/S Range 30 E E/W WM

Sec 3 SE 1/4 of the NW 1/4 Tax Lot 401

Tax Map Number 4N 30 Lot _____

Lat ° 0 ' " or _____ DMS or DD

Long ° 0 ' " or _____ DMS or DD

(●) Street address of well ( ) Nearest address

36740 E Kosmos Rd, Stanfield, OR

## (10) STATIC WATER LEVEL

| | Date | SWL(psi) | + | SWL(ft) |
|---|---|---|---|---|
| Existing Well / Predeepening | | | | |
| Completed Well | 07-18-2008 | | | 504 |

Flowing Artesian? [ ] Dry Hole? [ ]

WATER BEARING ZONES Depth water was first found 288

| SWL Date | From | To | Est Flow | SWL(psi) | + | SWL(ft) |
|---|---|---|---|---|---|---|
| 05-09-2008 | 288 | 308 | 20 | | | 147 |
| 05-10-2008 | 402 | 406 | 30 | | | 139 |
| NM | 713 ± | 750 ± | 150 | | | NM |
| NM | 887 ± | 900 ± | 650 | | | NM |
| 07-18-2008 | 1,134 ± | 1,583 ± | seals | | | 504 |

## (11) WELL LOG

Ground Elevation _____

| Material | From | To |
|---|---|---|
| Silty, sandy, loam, brown | 0 | 33 |
| Gravel, medium, cemented | 33 | 51 |
| Rock, red-brown-black & clay | 51 | 60 |
| Clay, brown, medium | 60 | 65 |
| Basalt, red-brown & clay-claystone, tan | 65 | 75 |
| Basalt, brown & red, soft w/sandstone, tan | 75 | 87 |
| Basalt, brown & red, vesicular w/sandstone, green | 87 | 118 |
| Basalt, brown w/claystone, green | 118 | 120 |
| Basalt, black, medium | 120 | 122 |
| Basalt, black & brown, medium w/claystone, green | 122 | 147 |
| Basalt, black & brown, medium w/sandstone, tan | 147 | 188 |
| Basalt, black, medium, some fractures | 188 | 209 |
| Basalt, black, hard, occasional fractures | 209 | 288 |
| Basalt, red, medium & claystone, green & tan | 288 | 308 |
| Basalt, black, medium, fractured | 308 | 367 |
| Basalt, grey, hard | 367 | 402 |
| Basalt, black, soft-medium, broken, vesicular | 402 | 406 |
| Basalt, black, medium, some fractures | 406 | 411 |
| Basalt, black, hard, occasional fracture | 411 | 518 |

Date Started 05-01-2008 Completed 07-22-2008

**(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 1663 Date 08-04-2008

Password : (if filing electronically)

Signed C. Bowman

**(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 649 Date 08-04-2008

Password : (if filing electronically)

Signed Stephen J. Schmidt

Contact Info (optional)

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

RECEIVED
JUN 29 2009
WATER RESOURCES DEPT
SALEM, OREGON

# UMAT 56199

**WATER SUPPLY WELL REPORT - continuation page**

**WELL I.D. # L** 91800

**START CARD #** 193842

## (5) BORE HOLE CONSTRUCTION

| BORE HOLE Dia | From | To | SEAL Material | From | To | Amt | sacks/ lbs |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

FILTER PACK

| From | To | Material | Size |
|---|---|---|---|
| | | | |

## (6) CASING/LINER

| Casing Liner | Dia | + | From | To | Gauge | Stl | Plstc | Wld | Thrd |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

## (7) PERFORATIONS/SCREENS

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

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

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

**Water Quality Concerns**

| From | To | Description | Amount | Units |
|---|---|---|---|---|
| | | | | |

RECEIVED
AUG 18 2008
WATER RESOURCES DEPT
SALEM, OREGON

## (10) STATIC WATER LEVEL

**Water Bearing Zones**

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

## (11) WELL LOG

| Material | From | To |
|---|---|---|
| Basalt, black, medium w/claystone, green-blue | 518 | 545 |
| Basalt, black, medium, fractured | 545 | 560 |
| Basalt, black, hard, occasional fractures | 560 | 644 |
| Basalt, black, medium, fractured w/claystone, tan | 644 | 655 |
| Basalt, black-grey, hard | 655 | 669 |
| Basalt, black, medium w/claystone, blue-green | 669 | 703 |
| Basalt, black, medium, fractured | 703 | 710 |
| Basalt, black, hard-medium, fractured w/CS, tan | 710 | 713 |
| Basalt, black, medium, fractured | 713 | 750 |
| Basalt, black-brown, medium, fractured | 750 | 754 |
| Basalt, black-brown, soft-medium, very fractured | 754 | 774 |
| Basalt, black-grey, hard | 774 | 841 |
| Basalt, black, hard | 841 | 887 |
| Basalt, black, medium-soft, vesicular w/CS, blue-grn | 887 | 894 |
| Basalt, black, medium, fractured | 894 | 911 |
| Basalt, black, hard | 911 | 914 |
| Basalt, black, medium, fractured | 914 | 917 |
| Basalt, black-brown, medium, fractured | 917 | 922 |
| Basalt, black-grey, hard | 922 | 954 |
| Basalt, black, medium, vesicular w/CS, green | 954 | 967 |
| Basalt, dark grey, hard | 967 | 971 |
| Basalt, black, soft, vesicular w/claystone, green, med | 971 | 973 |
| Basalt, dark grey, hard, some fractures | 973 | 996 |
| Basalt, black, soft, vesicular w/claystone, green, med | 996 | 1,010 |
| Basalt, dark grey, hard, some fractures | 1,010 | 1,019 |
| Basalt, brown & black, soft, vesicular w/CS, green | 1,019 | 1,031 |
| Basalt, dark grey, hard, some fractures | 1,031 | 1,047 |
| Basalt, black, medium, some vesicles w/CS, grn, med | 1,047 | 1,056 |
| Basalt, grey, hard, fractured | 1,056 | 1,077 |

**Comments/Remarks**

PAGE 2

Stab-in cementing shoe.
Bottom has 1' of slough.
Drilling company recommended liner; owner directed otherwise.

RECEIVED
JUN 29 2009
WATER RESOURCES DEPT
SALEM, OREGON

T 10919

# UMAT 56199

**WATER SUPPLY WELL REPORT - continuation page**

**WELL I.D. # L** 91800

**START CARD #** 193842

## (5) BORE HOLE CONSTRUCTION

| BORE HOLE Dia | From | To | SEAL Material | From | To | sacks/ Amt | lbs |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

FILTER PACK

| From | To | Material | Size |
|---|---|---|---|
| | | | |
| | | | |
| | | | |

## (6) CASING/LINER

| Casing | Liner | Dia | + | From | To | Gauge | Stl | Plstc | Wld | Thrd |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

## (7) PERFORATIONS/SCREENS

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

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

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

**Water Quality Concerns**

| From | To | Description | Amount | Units |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

RECEIVED
JUN 8 2009
WATER RESOURCES DEPT.
SALEM, OREGON

## (10) STATIC WATER LEVEL

**Water Bearing Zones**

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

## (11) WELL LOG

| Material | From | To |
|---|---|---|
| Basalt, grey, hard, fractured | 1,077 | 1,089 |
| Basalt, black, medium-hard w/calcite | 1,089 | 1,091 |
| Basalt, black, medium, vesicular w/claystone, green | 1,091 | 1,106 |
| Claystone, medium, green | 1,106 | 1,120 |
| Basalt, black, medium-soft | 1,120 | 1,112 |
| Basalt, black-grey, hard w/claystone, green | 1,112 | 1,123 |
| Claystone, green, medium w/basalt, black, medium | 1,123 | 1,134 |
| Basalt, black, soft, fractured, vesicular | 1,134 | 1,162 |
| Basalt, greyish brown, hard, fractured | 1,162 | 1,172 |
| Basalt, grey, hard, occasional fractures | 1,172 | 1,185 |
| Basalt, grey, medium, very fractured w/quartz | 1,185 | 1,186 |
| Basalt, grey, soft, very fractured, vesicular w/pyrite | 1,186 | 1,189 |
| Basalt, grey, soft, very fractured, vesicular` | 1,189 | 1,193 |
| Basalt, brown, medium, fractured, vesicular | 1,193 | 1,199 |
| Basalt, red, soft, fractured, vesicular | 1,199 | 1,212 |
| Basalt, grey, hard, some fractures | 1,212 | 1,220 |
| Basalt, red & brown, medium | 1,220 | 1,224 |
| Basalt, black-grey, very fractured | 1,224 | 1,227 |
| Basalt, grey-black, hard | 1,227 | 1,233 |
| Basalt, brown & black, med, vesicular w/CS, blue | 1,233 | 1,237 |
| Basalt, grey, hard w/calcite | 1,237 | 1,247 |
| Basalt, brown-black w/red, medium w/CS, blue | 1,247 | 1,260 |
| Basalt, black & grey, medium, some fractures | 1,260 | 1,263 |
| Basalt, grey, hard | 1,263 | 1,292 |
| Basalt, black w/red, medium-hard, fractured | 1,292 | 1,299 |
| Basalt, brown w/red, medium | 1,299 | 1,304 |
| Basalt, black & brown, medium-hard | 1,304 | 1,308 |
| Basalt, brown & red, soft, frac, vesicular, w/quartz | 1,308 | 1,316 |
| Basalt, brown & red, vesicular w/claystone, blue | 1,316 | 1,340 |

**Comments/Remarks**

PAGE 3

RECEIVED
JUN 29 2009
WATER RESOURCES DEPT
SALEM, OREGON

T 10919

# UMAT 56199

**WATER SUPPLY WELL REPORT - continuation page**

**WELL I.D. # L** 91800

**START CARD #** 193842

## (5) BORE HOLE CONSTRUCTION

| BORE HOLE Dia | From | To | SEAL Material | From | To | Amt | sacks/ lbs |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

FILTER PACK

| From | To | Material | Size |
|---|---|---|---|
| | | | |
| | | | |
| | | | |

## (6) CASING/LINER

| Casing | Liner | Dia | + | From | To | Gauge | Stl | Plstc | Wld | Thrd |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

## (7) PERFORATIONS/SCREENS

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

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

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

**Water Quality Concerns**

| From | To | Description | Amount | Units |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

RECEIVED
AUG 08 2008
WATER RESOURCES DEPT.
SALEM, OREGON

## (10) STATIC WATER LEVEL

**Water Bearing Zones**

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

## (11) WELL LOG

| Material | From | To |
|---|---|---|
| Basalt, black & brown | 1,340 | 1,373 |
| Basalt, brown & red, med, fractured w/CS, green | 1,373 | 1,384 |
| Basalt, black-brown, medium, fractured | 1,384 | 1,409 |
| Basalt, grey, medium-hard, fractured | 1,409 | 1,426 |
| Basalt, dark grey & brown, med, frac, vesicular | 1,426 | 1,439 |
| Basalt, dark grey, medium-hard, fractured | 1,439 | 1,482 |
| Basalt, grey & brown, medium-hard, frac, some ves | 1,482 | 1,497 |
| Basalt, grey, hard, fractured | 1,497 | 1,527 |
| Basalt, grey-black w/brown, hard, fractured | 1,527 | 1,583 |
| Basalt, grey-black, hard, fractured | 1,583 | 1,606 |
| Basalt, black-grey, hard fractured w/quartz | 1,606 | 1,622 |
| Basalt, grey-black, hard fractured | 1,622 | 1,649 |
| Basalt, grey-black, fractured w/quartz | 1,649 | 1,650 |
| Basalt, grey-black, hard, frac w/some CS, blue | 1,650 | 1,654 |
| Basalt, redish-dark brown, medium, some vesicles | 1,654 | 1,666 |
| Basalt, grey, hard | 1,666 | 1,671 |

**Comments/Remarks**

PAGE 4

RECEIVED
JUN 29 2009
WATER RESOURCES DEPT
SALEM, OREGON