

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 New Well Deepening Conversion
 Alteration (repair/recondition) Abandonment

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

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

(5) BORE HOLE CONSTRUCTION Special Standard (Attach copy)
 Depth of Completed Well 1,671 ft.

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

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
<input checked="" type="checkbox"/>	<input type="checkbox"/>	16		<input checked="" type="checkbox"/> 1	950	.375	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Shoe Inside Outside Other Location of shoe(s) 950
 Temp casing Yes Dia _____ From _____ To _____

(7) PERFORATIONS/SCREENS

Perforations Method _____
 Screens Type _____ Material _____

Perf/S	Casing/	Screen	Scrn/slot	Slot	# of	Tele/
creen	Liner	Dia	width	length	slots	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 2000
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(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 0 " or _____ DMS or DD
 Long 0 0 " or _____ DMS or DD
 Street address of well Nearest address
 36740 E Kosmos Rd, Stanfield, OR

(10) STATIC WATER LEVEL

Existing Well / Predeepening	Date	SWL(psi)	+ SWL(ft)
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 ±	seeds		504

(11) WELL LOG

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 *A. 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)

WATER SUPPLY WELL REPORT - continuation page

WELL I.D. # L 91800

START CARD # 193842

(5) BORE HOLE CONSTRUCTION

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

FILTER PACK

From	To	Material	Size

(6) CASING/LINER

Casing	Liner	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd

(7) PERFORATIONS/SCREENS

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

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

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

Water Quality Concerns

From	To	Description	Amount	Units

(10) STATIC WATER LEVEL

Water Bearing Zones

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

(11) WELL LOG

Material	From	To
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

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

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(5) BORE HOLE CONSTRUCTION

BORE HOLE			SEAL			sacks/ lbs
Dia	From	To	Material	From	To	

FILTER PACK

From	To	Material	Size

(6) CASING/LINER

Casing Liner	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd

(7) PERFORATIONS/SCREENS

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

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

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

Water Quality Concerns

From	To	Description	Amount	Units

(10) STATIC WATER LEVEL

Water Bearing Zones

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

(11) WELL LOG

Material	From	To
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

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(5) BORE HOLE CONSTRUCTION

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

FILTER PACK

From	To	Material	Size

(6) CASING/LINER

Casing Liner	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd

(7) PERFORATIONS/SCREENS

Perf/S creen	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

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(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

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