

UMAT 5351

4N/33E/2ca

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

WATER RESOURCES DEPT. SALEM, OREGON

(START CARD) # 11452

(1) OWNER: Name City of Helix, Address P.O. Box 325, City Helix, State OR, Zip 97835

(2) TYPE OF WORK: [X] New Well, [ ] Deepen, [ ] Recondition, [ ] Abandon

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

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

(5) BORE HOLE CONSTRUCTION: Special Construction approval Yes No, Depth of Completed Well 1296 ft.

Table with columns: HOLE Diameter, SEAL Material, Amount sacks or pounds. Includes entries for 15 1/2" and 10" diameters with Cement seal.

How was seal placed: Method [X] A, [ ] B, [ ] C, [ ] D, [ ] E. Backfill placed from... Gravel placed from...

(6) CASING/LINER: Table with columns: Diameter, From, To, Gauge, Steel, Plastic, Welded, Threaded. Includes entries for 12" casing and 8" liner.

Final location of shoe(s)

(7) PERFORATIONS/SCREENS: [X] Perforations, Method Factory, [ ] Screens

Table with columns: From, To, Slot size, Number, Diameter, Tele/pipe size, Casing, Liner. Includes entries for 500-800 and 790-1296 ft.

(8) WELL TESTS: Minimum testing time is 1 hour. [ ] Pump, [ ] Bailer, [X] Air, [ ] Flowing Artesian. Yield gal/min 400, Drawdown 1296, Drill stem at 1 hr.

Temperature of water, Depth Artesian Flow Found, Was a water analysis done?, Did any strata contain water not suitable for intended use?

(9) LOCATION OF WELL by legal description: County Umatilla, Township 4N, N or S, Range 33E, Section 2, NE 1/4 SW 1/4. Street Address of Well Helix, OR 97835

(10) STATIC WATER LEVEL: After cementing casing 325 ft. below land surface. Date 11-14-89

(11) WATER BEARING ZONES: Depth at which water was first found 79

Table with columns: From, To, Estimated Flow Rate, SWL. Includes data points for depths 79, 244, 334, 534.

(12) WELL LOG: Table with columns: Material, From, To, SWL. Lists geological layers like Brown silty soil, Soft red & brown basalt, Hard gray basalt, etc.

Date started 9-19-89, Completed 11-14-89

(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.

(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.

4N/33E/2Ca

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

WATER RESOURCES DEPT.  
SALEM, OREGON

(START CARD) # 11452 Pg. 2

(1) OWNER: Well Number: \_\_\_\_\_  
Name City of Helix  
Address P.O. Box 325  
City Helix State OR Zip 97835

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

(3) DRILL METHOD  
 Rotary Air  Rotary Mud  Cable  
 Other \_\_\_\_\_

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

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

HOLE		SEAL		Amount
Diameter	From To	Material	From To	sacks or pounds

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

(6) CASING/LINER:

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

Final location of shoe(s) \_\_\_\_\_

(7) PERFORATIONS/SCREENS:

Perforations Method \_\_\_\_\_  
 Screens Type \_\_\_\_\_ Material \_\_\_\_\_

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>

(8) WELL TESTS: Minimum testing time is 1 hour  
 Pump  Baller  Air  Flowing Artesian  
Yield gal/min \_\_\_\_\_ Drawdown \_\_\_\_\_ Drill stem at \_\_\_\_\_ Time \_\_\_\_\_  
1 hr.

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

(9) LOCATION OF WELL by legal description:  
County Umatilla Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
Township \_\_\_\_\_ N or S, Range \_\_\_\_\_ E or W, WM.  
Section \_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4  
Tax Lot \_\_\_\_\_ Lot \_\_\_\_\_ Block \_\_\_\_\_ Subdivision \_\_\_\_\_  
Street Address of Well (or nearest address) \_\_\_\_\_

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

(11) WATER BEARING ZONES:

Depth at which water was first found \_\_\_\_\_

From	To	Estimated Flow Rate	SWL
<u>820</u>	<u>837</u>	<u>150</u>	<u>275</u>
<u>1199</u>	<u>1230</u>	<u>50</u>	<u>275</u>
<u>1264</u>	<u>1296</u>	<u>75</u>	<u>325</u>

(12) WELL LOG: Ground elevation \_\_\_\_\_

Material	From	To	SWL
<u>Soft gray claystone</u>	<u>581</u>	<u>592</u>	
<u>Gray basalt</u>	<u>592</u>	<u>612</u>	
<u>Soft gray basalt</u>	<u>612</u>	<u>718</u>	
<u>Gray basalt</u>	<u>718</u>	<u>725</u>	
<u>Soft gray basalt</u>	<u>725</u>	<u>740</u>	
<u>Gray basalt</u>	<u>740</u>	<u>786</u>	
<u>Gray basalt with soapstone</u>	<u>786</u>	<u>797</u>	
<u>Gray basalt</u>	<u>797</u>	<u>820</u>	
<u>Soft brown &amp; gray basalt with soapstone</u>	<u>820</u>	<u>837</u>	<u>WB</u>
<u>Soft gray basalt</u>	<u>837</u>	<u>885</u>	
<u>Hard gray basalt</u>	<u>885</u>	<u>919</u>	
<u>Soft gray basalt</u>	<u>919</u>	<u>932</u>	
<u>Hard gray basalt</u>	<u>932</u>	<u>1017</u>	
<u>Red &amp; gray basalt with green soapstone</u>	<u>1017</u>	<u>1044</u>	
<u>Gray basalt</u>	<u>1044</u>	<u>1199</u>	
<u>Soft gray basalt with green soapstone</u>	<u>1199</u>	<u>1230</u>	<u>WB</u>
<u>Gray basalt</u>	<u>1230</u>	<u>1264</u>	
<u>Soft gray basalt with green soapstone</u>	<u>1264</u>	<u>1296</u>	<u>WB</u>

Date started 9-19-89 Completed 11-14-89

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

(bonded) Water Well Constructor Certification:  
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. all work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.  
WWC Number 1218  
Signed Patrick C. Wallace Date 12-4-89