

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

WELL I.D. LABEL# L 122334 START CARD # 1030586 ORIGINAL LOG #

8/7/2016

(1) LAND OWNER Owner Well I.D. First Name C/O JEFF Last Name PALMER Company WILKS RANCH OREGON Address 4945 WILLOW CREEK ROAD City IRONSIDE State OR Zip 97908

(2) TYPE OF WORK [X] New Well [] Deepening [] Conversion [] Alteration (complete 2a & 10) [] Abandonment (complete 5a)

(2a) PRE-ALTERATION Dia + From To Gauge Stl Plstc Wld Thr Casing: Material From To Amt sacks/lbs Seal:

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

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

(5) BORE HOLE CONSTRUCTION Special Standard [] (Attach copy) Depth of Completed Well 895.00 ft.

Table with columns: Dia, From, To, Material, From, To, Amt, lbs. Rows for BORE HOLE and SEAL.

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

(5a) ABANDONMENT USING UNHYDRATED BENTONITE Proposed Amount Actual Amount

(6) CASING/LINER Casing Liner Dia + From To Gauge Stl Plstc Wld Thr Shoe [] Inside [] Outside [] Other Location of shoe(s) Temp casing [] Yes Dia From To

(7) PERFORATIONS/SCREENS Perforations Method Holte & Factory Saw Screens Type Material Perf/ Casing/ 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 [X] Air [] Flowing Artesian Yield gal/min Drawdown Drill stem/Pump depth Duration (hr)

Temperature 68 °F Lab analysis [] Yes By Water quality concerns? [] Yes (describe below) TDS amount From To Description Amount Units

(9) LOCATION OF WELL (legal description) County MALHEUR Twp 15.00 S N/S Range 40.00 E E/W WM Sec 4 NE 1/4 of the NE 1/4 Tax Lot 1400 100 Tax Map Number Lot Lat " or 44.29830600 DMS or DD Long " or -117.81506300 DMS or DD [] Street address of well [X] Nearest address

BONITA RD. & US HWY. 26, IRONSIDE, OR 97908

(10) STATIC WATER LEVEL Date SWL(psi) + SWL(ft) Existing Well / Pre-Alteration Completed Well 7/19/2016 121 Flowing Artesian? [] Dry Hole? []

WATER BEARING ZONES Depth water was first found 130.00 SWL Date From To Est Flow SWL(psi) + SWL(ft) 5/16/2016 130 142 25 91 5/17/2016 407 440 100 129 6/20/2016 560 600 200 128 6/22/2016 608 650 100 126 7/8/2016 810 835 200 121

(11) WELL LOG Ground Elevation Material From To Silty Clay 0 4 Red, Brown, Green Rock 4 90 Brown Sandstone 90 100 Red, Green, Brown Rock 100 130 Broken Brown, Black & Red Rock 130 142 White and Tan Claystone 142 185 Tan, Green, Black Fractured Rock 185 198 Black & Tan Rock 198 265 Black, Tan, Green, Brown Rhyolight 265 295 Red, Brown, Black Rock & Clay Mix 295 345 Gray Clay 345 350 Red, Gray, Green, Purple Claystone 350 407 Fractured Black Rock & Sand Mix Caving 407 440 Gray, White, Red Claystone 440 505 Gray & Black Claystone 505 560 Hard Gray/Black Basalt 560 580 Coarse Black Sand 580 600 Black Basalt 600 608 Black & White Claystone & Sand Mix 608 650

Date Started 5/14/2016 Completed 7/19/2016

(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. License Number Date OCT 14 2016

(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. License Number 1385 Date 8/7/2016 Signed ROBERT BUCKNER (E-filed)

WATER SUPPLY WELL REPORT - continuation page

MALH 54335

WELL I.D. LABEL# L	122334
START CARD #	1030586
ORIGINAL LOG #	

8/7/2016

(2a) PRE-ALTERATION

Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Material								
				From To Amt sacks/lbs				
<input type="text"/>				<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>				<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

(5) BORE HOLE CONSTRUCTION

BORE HOLE				SEAL			sacks/lbs
Dia	From	To	Material	From	To	Amt	lbs
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
						Calculated	<input type="text"/>
						Calculated	<input type="text"/>
						Calculated	<input type="text"/>
						Calculated	<input type="text"/>

FILTER PACK

From	To	Material	Size
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

(6) CASING/LINER

Casing Liner	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

(7) PERFORATIONS/SCREENS

Perf/ Screen	Casing/ Liner	Screen Dia	From	To	Scrn/slot width	Slot length	# of slots	Tele/ pipe size
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

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

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Water Quality Concerns

From	To	Description	Amount	Units
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

(10) STATIC WATER LEVEL

SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(ft)
7/8/2016	895	945	200	<input type="text"/>	121
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

(11) WELL LOG

Material	From	To
Black Basalt with Broken Claystone Seams	650	810
Green Broken Caving Claystone	810	835
Green/Blk Claystone & Rock Interbeds	835	895
Green, Blue & White fractured Claystone	895	910
Black & Green Claystone	910	925
Green, Red Caving Claystone	925	945
Black Claystone	945	965
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>

Comments/Remarks

2nd cement came up inside 20" casing to 155'. Filled annular with 3/8" bentonite chips. Hole caved back from 965' to 895' during developing.

WATER SUPPLY WELL REPORT - Map with location identified must be attached and shall include an approximate scale and north arrow

MALH 54335

8/7/2016

Map of Hole

