

**PUBLIC INTEREST REVIEW FOR GROUNDWATER APPLICATIONS**

TO: Water Rights Section Date 6/3/2015  
 FROM: Groundwater Section Mike Thoma / Jen Woody  
 SUBJECT: Application G- 17949 Reviewer's Name Supersedes review of 11/14/2014 Date of Review(s)

**PUBLIC INTEREST PRESUMPTION; GROUNDWATER**

**OAR 690-310-130 (1)** *The Department shall presume that a proposed groundwater use will ensure the preservation of the public welfare, safety and health as described in ORS 537.525.* Department staff review groundwater applications under OAR 690-310-140 to determine whether the presumption is established. OAR 690-310-140 allows the proposed use be modified or conditioned to meet the presumption criteria. **This review is based upon available information and agency policies in place at the time of evaluation.**

**A. GENERAL INFORMATION:** Applicant's Name: Norton L. Smith County: Jackson

- A1. Applicant(s) seek(s) 0.022 cfs from 1 well(s) in the Applegate River Basin,  
Middle Applegate River subbasin Quad Map: Ruch
- A2. Proposed use Irrigation Seasonality: May 1 - Oct. 31
- A3. Well and aquifer data (**attach and number logs for existing wells; mark proposed wells as such under logid**):

Well	Logid	Applicant's Well #	Proposed Aquifer*	Proposed Rate(cfs)	Location (T/R-S QQ-Q)	Location, metes and bounds, e.g. 2250' N, 1200' E fr NW cor S 36
1	<b>JACK 54401</b>	<b>1</b>	Bedrock	<b>0.022</b>	39S/03W-04 SW-SW	530ft N, 110ft E fr SW cor of S 04
2						
3						
4						
5						

\* Alluvium, CRB, Bedrock

Well	Well Elev ft msl	First Water ft bls	SWL ft bls	SWL Date	Well Depth (ft)	Seal Interval (ft)	Casing Intervals (ft)	Liner Intervals (ft)	Perforations Or Screens (ft)	Well Yield (gpm)	Draw Down (ft)	Test Type
1	1960	60	18	09/15/1995	80	<b>0-19</b>	0-19	<b>0-80</b>	40-80	40	80	air

Use data from application for proposed wells.

A4. **Comments:** ~~\*\*No well log can be located for the proposed well. Data in A3 is based on information provided on the application. Special well construction standards accompany this application— see Section D JACK 54401 has been identified as the applicant's well log. The log mislocates the well in 38 S, but all other identifiers indicate it is the appropriate log.~~

A5.  **Provisions of the Applegate River (OAR 690-515-0030)** Basin rules relative to the development, classification and/or management of groundwater hydraulically connected to surface water  **are**, or  **are not**, activated by this application. (Not all basin rules contain such provisions.)  
 Comments: OAR 690-515-0030 apply only to surface water

A6.  **Well(s) #** \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, tap(s) an aquifer limited by an administrative restriction. Name of administrative area: \_\_\_\_\_  
 Comments: \_\_\_\_\_





**C. GROUNDWATER/SURFACE WATER CONSIDERATIONS, OAR 690-09-040**

C1. **690-09-040 (1):** Evaluation of aquifer confinement:

Well	Aquifer or Proposed Aquifer	Confined	Unconfined
1	Bedrock*	<input type="checkbox"/>	<input checked="" 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"/>

**Basis for aquifer confinement evaluation:** With no well log it is difficult to determine confined/unconfined conditions. Well logs from nearby wells indicated SWL depths significantly above depths of water bearing zones (representative of confined aquifers), but these wells are mostly > 200 ft deep. Shallower wells would likely encounter less confined conditions and some nearby well logs, specifically JACK 18295 and JACK 18285 (125 and 110 ft deep, respectively) indicate unconfined conditions. For the purpose of this application the well will be treated as unconfined.

C2. **690-09-040 (2) (3):** Evaluation of distance to, and hydraulic connection with, surface water sources. All wells located a horizontal distance less than ¼ mile from a surface water source that produce water from an unconfined aquifer shall be assumed to be hydraulically connected to the surface water source. Include in this table any streams located beyond one mile that are evaluated for PSI.

Well	SW #	Surface Water Name	GW Elev ft msl	SW Elev ft msl	Distance (ft)	Hydraulically Connected?			Potential for Subst. Interfer. Assumed?	
						YES	NO	ASSUMED	YES	NO
1	1	Unnamed stream in Rock Gulch	1945	1600-2600	1700	<input type="checkbox"/>	<input checked="" 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"/>	<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"/>
						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Basis for aquifer hydraulic connection evaluation:** The applicant's well likely produces from fractures within the bedrock aquifer which are of limited extent and where conditions are not favorable to rapid or extensive expansion of the cone of depression (hence low well yields). Additionally, head in the well (according to information provided in the application – see A3) does not match surface water elevations within a distance where the cone of depression will intersect the stream.

**Water Availability Basin the well(s) are located within:** Applegate R > Rogue R-AB Joe G (Watershed ID # 250)

C3a. **690-09-040 (4):** Evaluation of stream impacts for each well that has been determined or assumed to be **hydraulically connected and less than 1 mile** from a surface water source. Limit evaluation to instream rights and minimum stream flows that are pertinent to that surface water source, and not lower SW sources to which the stream under evaluation is tributary. Compare the requested rate against the 1% of 80% natural flow for the pertinent Water Availability Basin (WAB). If Q is not distributed by well, use full rate for each well. Any checked  box indicates the well is assumed to have the potential to cause PSI.

Well	SW #	Well < ¼ mile?	Qw > 5 cfs?	Instream Water Right ID	Instream Water Right Q (cfs)	Qw > 1% ISWR?	80% Natural Flow (cfs)	Qw > 1% of 80% Natural Flow?	Interference @ 30 days (%)	Potential for Subst. Interfer. Assumed?
		<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"/>			<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"/>		<input type="checkbox"/>







**D. WELL CONSTRUCTION, OAR 690-200**

D1. Well #: 1 Logid: no well log exists

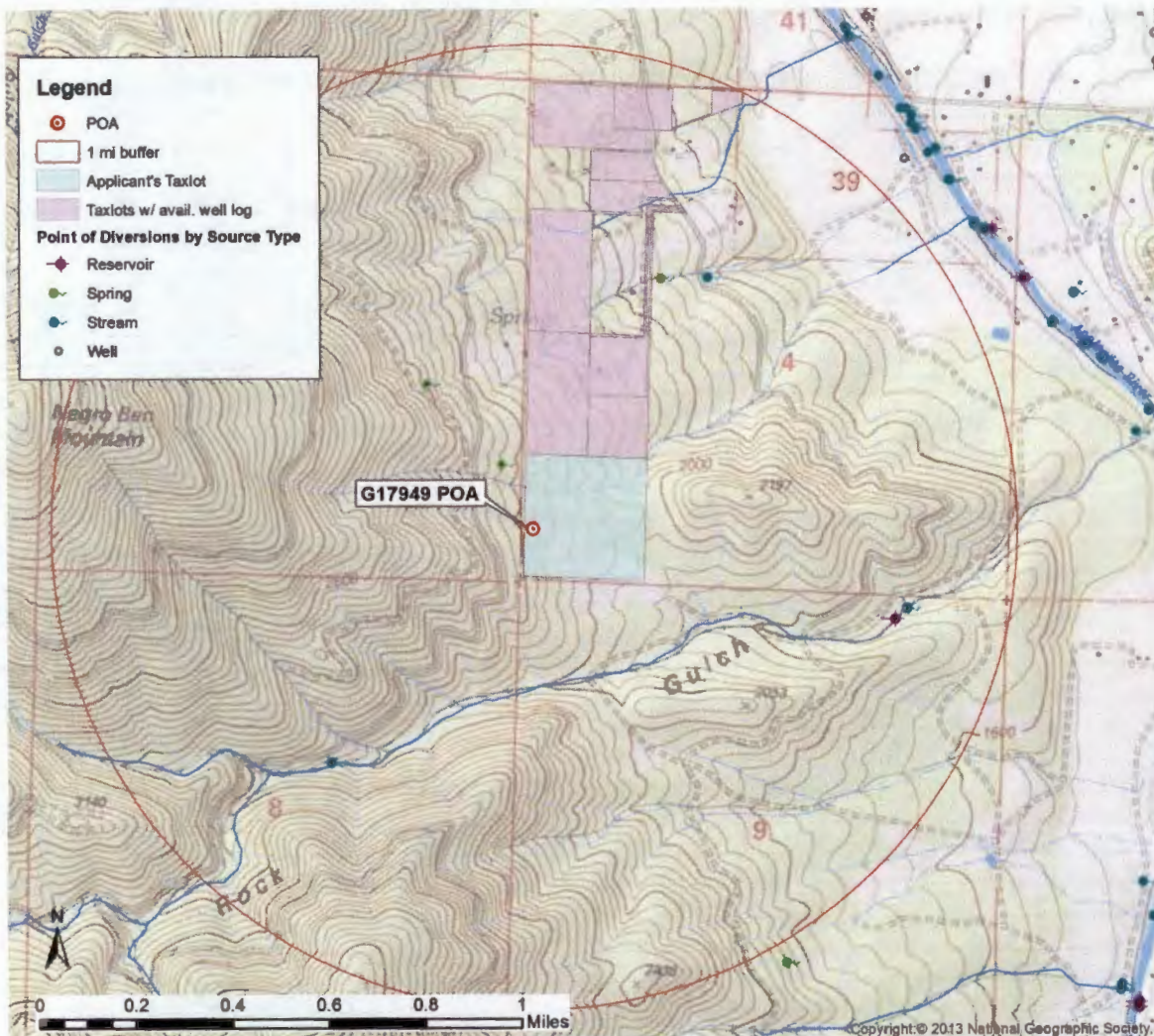
D2. THE WELL does not appear to meet current well construction standards based upon:

- a.  review of the well log;
- b.  field inspection by \_\_\_\_\_;
- c.  report of CWRE \_\_\_\_\_;
- d.  other: (specify) no well log can be found for this well

D3. THE WELL construction deficiency or other comment is described as follows: No well log describing the applicants well is available. Therefore, the Department cannot determine whether the existing well meets well construction standards. The applicant may either reconstruct the existing well to meet current well construction standards, or choose to drill a replacement well nearby according to conditions specified in Section B2 of this review.

D4.  Route to the Well Construction and Compliance Section for a review of existing well construction.

**Application Review Map**



## INTEROFFICE MEMORANDUM

TO: Joel Jeffery, Well Construction and Compliance Section  
FROM: Kerri H. Cope, Water Rights Section  
DATE: 6/1/15  
RE: G-17949, Greg Brown (formerly Norton Smith)

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Please review well log and determination regarding well construction compliance, and route your review to me. Determination previously could not be made due to lack of well log, but apparently well log was misfiled due to error on well log.

Thanks,  
Kerri Cope

*Return to me after*

*Thanks*

*Kerri*  
*C.*



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

(START CARD) # 82756

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

(1) OWNER: Well Number \_\_\_\_\_  
 Name Morton Smith  
 Address Box 1927  
 City Jacksonville State OR Zip 97530

(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 80' ft.  
 Explosives used  Yes  No Type \_\_\_\_\_ Amount \_\_\_\_\_

HOLE		SEAL					
Diameter	From To	Material	From To	Sacks or pounds			
10"	0 19	BENTONITE	0 19	12 SCS			
6"	19 80						

How was seal placed: Method  A  B  C  D  E  
 Other ROULED IN DRILL  
 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:	6"	0	19	250	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Liner:	4"	0	80	160	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

(7) PERFORATIONS/SCREENS:

Perforations Method SAND CUT  
 Screens Type 4" P.V.C. 160 Material P.V.C.

From	To	Slot Size	Number	Diameter	Tele/pipe size	Casing	Liner
40	80	1/4"	80	4" x 12"	4"	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Yield gal/min	Drawdown	Drill stem at	Time
40	80	80'	1 hr.

Pump  Bailer  Air  Flowing  Artesian

Temperature of water 46° 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 Jackson Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
 Township 38 N or S Range 3 E or W WM.  
 Section 4 N/E 1/4 N/W 1/4  
 Tax Lot 1900 Lot \_\_\_\_\_ Block \_\_\_\_\_ Subdivision \_\_\_\_\_  
 Street Address of Well (or nearest address) 100 Conrail  
Wassonville (Benton Butte)

(10) STATIC WATER LEVEL:  
18 ft. below land surface. Date 9-15-95  
 Artesian pressure \_\_\_\_\_ lb. per square inch. Date \_\_\_\_\_

(11) WATER BEARING ZONES:

Depth at which water was first found 60'

From	To	Estimated Flow Rate	SWL
60'	75'	40	18

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

Material	From	To	SWL
CLAY	0	3	
CLAYSTONE	3	11	
SANDSTONE	11	25	
DIORITE	35	80	18

**RECEIVED**

MAR 28 2001

WATER RESOURCES DEPT.  
 SALEM, OREGON

Date started 9-15-95 Completed 9-15-95

(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 1457  
 Signed \_\_\_\_\_ Date 9-20-95