

Approved: 

# MEMO

**To:** Kristopher Byrd, Well Construction and Compliance Section Manager  
**From:** Travis Kelly, Well Construction Program Coordinator  
**Subject:** Review of Water Right Application LL-1811  
**Date:** July 17, 2020

The attached application was forwarded to the Well Construction and Compliance Section by the Groundwater Section. Phil Marcy reviewed the application. Please see Phil's Groundwater Review and the Well Reports.

Applicant's Well #1 (UNIO 51835(Original Well Report)/UNIO 51770(Alteration Well Report)):  
Based on a review of the Well Reports, Applicant's Well #1 seems to protect the groundwater resource.

The construction of Applicant's Well #1 may not satisfy hydraulic connection issues.

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

" DEPARTMENT **UNIO-51835** GENERATED " OFF OF ROUGH WELL LOG  
 BY ROBERT MAYNARD 12-7-06 WELL I.D.# 82655

START CARD # 159560

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

(1) LAND OWNER Well Number \_\_\_\_\_  
 Name PAUL RUOD  
 Address 64053 GEEKLER LANE  
 City LAGRANDE State OR Zip 97850

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

(3) DRILL METHOD  
 Rotary Air  Rotary Mud  Cable  Auger  Cable Mud  
 Other REVERSE ROTARY

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

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

BORE HOLE			SEAL			Sacks or Pounds
Diameter	From	To	Material	From	To	
36	0	110	CEMENT	0	10	UNKNOWN
24	110	1100	CEMENT	10	110	37,715 LBS

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

(6) CASING/LINER

Casing:	Diameter	From	To	Gauge	Material			
					Steel	Plastic	Welded	Threaded
	24	11	110		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liner:					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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
						<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  Bailer  Air  Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time

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?  
 Salty  Muddy  Odor  Colored  Other \_\_\_\_\_  
 Depth of strata: \_\_\_\_\_

(9) LOCATION OF WELL (legal description)  
 County UNION  
 Tax Lot \_\_\_\_\_ Lot \_\_\_\_\_  
 Township 25 N or S Range 39 E E or W WM  
 Section 30 SW 1/4 NW 1/4  
 Lat \_\_\_\_\_ " or \_\_\_\_\_ (degrees or decimal)  
 Long \_\_\_\_\_ " or \_\_\_\_\_ (degrees or decimal)  
 Street Address of Well (or nearest address) BOOTH LANE

(10) STATIC WATER LEVEL  
 \_\_\_\_\_ ft. below land surface. Date \_\_\_\_\_  
 \_\_\_\_\_ 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
15	1100		15

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

Material	From	To	SWL
SOIL	0	5	
SAND + FINE GRAVEL	5	100	15
GRAY CLAY	100	217	
COVERED SAND + GRAVEL	217	230	
ALL CLAYS WITH SAND AND SAND STRAKS	-	-	
	-	1100	15

DRILLER DECEASED ON 10-17-05  
 WELL TEMPORARILY ABANDONED  
 RIG MOVED OFF OF WELL  
 RIVERSIDE WILL COMPLETE WELL  
 UNDER STATE CONTRACT # 172224

Date Started 8-25-05 Completed 10-17-05

(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.  
 WWC Number \_\_\_\_\_ Date \_\_\_\_\_  
 Signed \_\_\_\_\_

(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.  
 WWC Number 1399 Date \_\_\_\_\_  
 Signed WALD LOWE

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300 ft sand

0		
5	Topsoil	
25	sand.	
95-100	fine gravel - sand	
100-114	Brown clay	
114-125	gray clay	
126-127	gray clay	ash?
128-137	" "	
138-139	" "	
140-148	" "	
140 1/2 - 150	" "	
150-170	" " with fine sand	
171-195	" "	
195-217	clay with fine sand silt	
218-230 <sup>2</sup>	course sand with clean gravel	12
231-243	clay	
244-260	clay with fine sand	16
261-267	clay	
270-272	Sand.	5
273-290	clay / sand	17 ?
291-305	clay. Blue.	
306-313	clay Blue / sand.	
313-325	Blue Clay sticky.	
325-332	Blue Clay - sand.	3 ?
333-345	Blue Clay - <del>blue</del> sand.	2
345-350	" Clay with sand	5
350-365	" clay	
<del>365-375</del>	<del>sand / gravel</del> Tan clay crumbly	
<del>365-377</del>		

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SALEM, OREGON

377/383	clay with some gravel. / sand.	6	?
383/389	yellow clay		
389/390	yellow clay / sand	1	
391/440	stickier yellow clay		
440-452	yellow clay - rocks?		
152-460	gray clay <del>is</del> coarse sand / rock?	8	?
461-467	gray clay sand rocks	6	
465-467	Rock - sand.	2	
468-480	yellow clay		
480-484	Sand - sm gravel.	4	
485-493	Tan clay		
494-498	clay some sm gravel.	4	
498-501	Tan clay		
501-507	Brown sand	6	
508-516	Tan clay		
517-520	sand (like granite)	3	
520-527	gray clay with sand	7	
527-542	Sand brown - granite like. <del>51100</del>	27	good
542-545	gray clay - sand	3	
545-547	Sand	2	
547-550	Brown clay	8	
551-559	Sand white.		
560-566	Brown clay hard		
567-574	Clay Brown		
575-580	Clay Tan w fine sand?		
575-580	Clay Tan w <del>1 1/2 inch River Rock?</del> Fine Sand		
580-586	clay Tan w 1 1/2 inch River Rock		

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WATER RESOURCES DEPT  
SALEM, OREGON

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UNIO 51835

1	587-599	Brown clay
2	599-601	gravelly sand
3	602-605	Reddish clay/sand
5	605-610	clay sand
2	610-612	sand w green clay
2	612-612 1/2	Brown - clay/sand
3	612-615	sand clay w gravel
2	616-626	Brown clay
2	626-638	Reddish clay/sand
2	629-632	Reddish clay
4	633-637	Red clay - sand
9	637-637	Red clay
9	638-647	Gr clay - sand
2	648-649 1/2	Gr gravel. some brown clay
	650-652	Red clay
	652-654	Grey clay
2	654-656	grey clay/sand
3	655-658	sand gravel
2	658-660	grey clay w gravel/sand
2	660-661	sand gravel
2	661-663	gr clay fine sand
2	662-664	gr clay sand
2	664-665	gr clay
1	665-666	gr clay sand w gravel
4	666-670	sand small gravel
3	670-673	grey clay small gravel
	675-681	"
	673-673	Reddish clay
1	681-82	sand gravel clay

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682-685	clay Tan	
685-87	"	
687-688	"	
688-89	" small gravel	1
689-695	Sand - small gravel	
695-710	Brown clay	
690-710	clay sand	3
713-717	Sand sm gravel	4
717-722	gr clay - sand	5
721-724	Sand - sm gravel	2
24-25	Clay - sand	1
725-727	Br clay	
727-729	Br Clay sand	2
729-733	Sand sm gravel 0.5" gravel	4
733-734	Brown clay - sand/gravel 1"	1
734-751	Clay - Brown grey	
751-762	Sand Small gravel (good)	11
762-780	" " " "	18
780-783	Sand - sm gravel like granite.	3
783-84	Clay green	
84-790	green clay / sand	
791-793	Small gravel some clay	2
794-795	Small to 1/2" gravel	1
795-798	Clay some sand	3
798-801	small gravel, sand some clay	3
802-811	Br clay	
812-813	Sm gravel some Br Clay	1
814-820	Sand - gravel small some Br clay	6
820-845	Brown clay - some sand	

846-848	Sand. gravel small	some clay gray	2
848-853	Sm gravel < 1/2"		5
853-855	Sand - clay green	855-856	2 per gravel
855-873	Green clay		
873-876	green clay some sand		
877-887	Gr clay		
888-889	Gr clay - sand		
890-901	Gr clay - sand		
901-906	<del>Sand clay</del> Sand gravel 1/2"		5
907-915	" " shale		8
915-918	Gr shale? Hard		
918-921	Gr clay		
921-924	Br clay 50% sand		
925-932	Gr clay		
933-935	Gr clay - sand		
935-945	Gr clay		
946-950	Gr clay - sand		
950-962	Gr clay some sand at 954-955		2
963-964	Sand		1
965-974	Gr clay		
975-983	Gr clay some sand		
985-995	Gr clay		
995-997	Same Gr clay		
997-1005	Gr clay		5
1005-1010	Sand clay		
1010-1036	Gr clay		
1036-1039	Tau clay		
1039-1045	Green clay		
1045-1048	Brown clay		

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1060-1065 clay - ~~coarse sand "1/4" gravel~~ (1065)  
 1065-1088 Green clay  $\leftarrow$  3' " gravel sand  $\rightarrow$   
 1089-1090 Tan clay.  
 1090-1095 Green clay.  
 1096-1104 Gr. clay  
 1104<sup>b</sup>-1106 Br. clay  
 1106-1120 coal - peat  
 1121-1135 Br. clay soft  
 1135-1145 Blue clay  
 1145-1148 Brown - Black clay  
 1148-1155 Blue - Green clay  
 1155-1165 Brown clay - Black.

1117

1117

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 SALEM, OREGON



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0-280	16"	pipe solid		
280-290	16"	screen	10'	
290-300	16"	solid / Reducer to 10"		
300-360	10"	solid		
360-370	10"	screen	10'	
370-390	10"	perf pipe		20
390-450	10"	solid		
450-490	10"	perf		40'
490-500'	10"	screen	10'	
500-520	10"	perf		20
520-550	10"	screen	30'	
550-570	10"	perf		20
570-590	10"	solid		
590-670	10"	perf		20
670-680	10"	screen	10'	
680-720	10"	solid		
720-740	10"	perf		
740-760	10"	solid		
760-780	10"	screen	20'	
780-840	10"	perf		60'
840-860	10"	screen	20'	
860-880	10"	solid		
880-920	10"	perf		40'
920-940	10"	solid		
940-960	10"	perf		20'
960-980	10"	solid		
980-1000	10"	perf		20'
1020-1020	10"	solid		
1020-1040	10"	perf		20'

1040 - 1060 10" solid  
1060 - 1080 10" perf.  
1080 - 1100 10" solid

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WATER RESOURCES DEPT  
SALEM, OREGON

452-460  
**UNIO 51835** sand 500 gravel  
 477-490 clay sand 500 gravel  
 517-520 with sand  
 521-525 to 525

Screen 5-2-542 20ft

clay 500 sand  
 600

Screen 1 5 5

600  
 700

Screen 20ft

750-760 sand 500 gravel

Screen 15ft

812-820 sm gravel - sand

845-855 10ft

846-850 sand 500 gravel  
 855-860 small gravel < 1/2"  
 855-856 1/2" gravel

885-915 10ft

901-906 Sand gravel < 1/2"  
 907-915 sand gravel

920-950 20ft

1005-1070 clay - sand

prof 20ft  
 solid 7 ft  
 20-18 ft

clay  
 1060-1065 clay coarse sand 1/2" gravel  
 1065-1068 < 1/4" fine sand - clay

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 SALEM, OREGON

UNIO 51835

200' 24" casing 0.375

300' 16" liner 0.250

195-217 clay with silt

218-220 coarse sand clay gravel

231-242 clay

244-266 clay - fine sand

270-277 sand

800' 10" liner + screen 0.250

377-383 clay gravel sand

402-408

420-424 sand gravel

441-447 fine sand gravel

517-520 with sand

clay gravel

600'

20'

710-720 sand gravel

800'

812-820 sm gravel - sand

10' 10"

20' 10"

20' 10"

20' 10"

20' 10"

20' 10"

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WATER RESOURCES DIV  
SALEM, OREGON

UNIO 51835

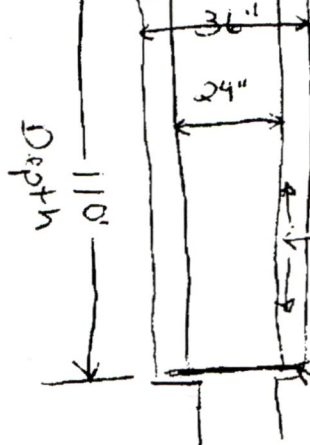
OCT 2005

1/4" Steel casing

WELL SEAL FOR  
PAUL RUDD

SURFACE

10' Bentonite 3/4 hole plug



37,715 lbs of Cement  
delivered by ROGERS ASPHALT

plate around bottom of casing  
to sit on ledge.

Att Bob M.

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 DEC 11 2006  
 WATER RESOURCES DEPT  
 SALEM, OREGON

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

WELL I.D. # L 82655  
 START CARD # 172224

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

(1) LAND OWNER Well Number \_\_\_\_\_  
 Name PAUL RUDD  
 Address 64053 GEKLER LN  
 City LAGRANDE State OR Zip 97850

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

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

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

(5) BORE HOLE CONSTRUCTION Special Construction:  Yes  No  
 Depth of Completed Well 910 ft.  
 Explosives used:  Yes  No Type \_\_\_\_\_ Amount \_\_\_\_\_

BORE HOLE			SEAL			Sacks or Pounds
Diameter	From	To	Material	From	To	
<u>22 1/2"</u>	<u>792</u>	<u>920</u>				

How was seal placed: Method  A  B  C  D  E  
 Other \_\_\_\_\_  
 Backfill placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Material \_\_\_\_\_  
 Gravel placed from 0 ft. to 920 ft. Size of gravel 3/8"

(6) CASING/LINER

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
<u>16"</u>	<u>+2</u>	<u>180</u>	<u>.250</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>16"</u>	<u>200</u>	<u>210</u>	<u>.250</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>16"</u>	<u>220</u>	<u>245</u>	<u>.375</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>16"</u>	<u>265</u>	<u>355</u>	<u>.375</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>16"</u>	<u>375</u>	<u>425</u>	<u>.375</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>16"</u>	<u>445</u>	<u>450</u>	<u>.375</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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

(7) PERFORATIONS/SCREENS

Perforations Method \_\_\_\_\_  
 Screens Type WIREWRAP Material M.S.

From	To	Slot Size	Number	Diameter	Tele/pipe size	Casing	Liner
<u>180</u>	<u>200</u>	<u>.060</u>		<u>16"</u>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>210</u>	<u>220</u>	<u>.060</u>		<u>16"</u>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>245</u>	<u>265</u>	<u>.060</u>		<u>16"</u>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>355</u>	<u>375</u>	<u>.060</u>		<u>16"</u>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>425</u>	<u>445</u>	<u>.060</u>		<u>16"</u>		<input checked="" type="checkbox"/>	<input type="checkbox"/>

(8) WELL TESTS: Minimum testing time is 1 hour  
 Pump  Bailer  Air  Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
	<u>N/A</u>		

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 (legal description)  
 County UNION  
 Tax Lot \_\_\_\_\_ Lot \_\_\_\_\_  
 Township 2 N or S Range 39 E or W WM  
 Section 30 SW 1/4 NW 1/4  
 Lat \_\_\_\_\_ " or \_\_\_\_\_ (degrees or decimal)  
 Long \_\_\_\_\_ " or \_\_\_\_\_ (degrees or decimal)

Street Address of Well (or nearest address) BOOTH LANE  
HWY 82, APPX 144 MI EAST

(10) STATIC WATER LEVEL  
15 ft. below land surface. Date 7-6-06  
 \_\_\_\_\_ 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

ALL SAND + GRAVELS  
BELOW 15'

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

Material	From	To	SWL
<u>GREEN, GREY CLAY SAND MIX</u>	<u>792</u>	<u>825</u>	
<u>COARSE SAND</u>	<u>825</u>	<u>834</u>	
<u>GREEN CLAY SHALE</u>	<u>834</u>	<u>855</u>	
<u>MED-COARSE SAND</u>	<u>855</u>	<u>864</u>	
<u>GREEN CLAY SHALE</u>	<u>864</u>	<u>882</u>	
<u>MED-COARSE SAND</u>	<u>882</u>	<u>886</u>	
<u>GREEN CLAY</u>	<u>886</u>	<u>893</u>	
<u>MED-COARSE SAND/CLAY</u>	<u>893</u>	<u>907</u>	
<u>GREY CLAY</u>	<u>907</u>	<u>920</u>	

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 AUG 02 2006  
 WATER RESOURCES DEPT  
 SALEM, OREGON  
 Date Started 4-30-06 Completed 7-6-06

(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.  
 WWC Number 1673 Date 7-31-06  
 Signed Kevin Chastain

(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.  
 WWC Number 1595 Date 7-31-06  
 Signed Jay Taylor

# UNIO 51770

Page #2

Well I.I.#L 82655  
Start Card# 172224

Name: Paul Rudd  
Address: 64053 Gekler Ln  
City: LaGrande State: OR Zip: 97850

**(6) CASING/LINER**

Dia	From	To	Gauge	Steel	Welded
16"	470'	510'	0.375	X	X
16"x10" Reducer @ 510'					
10"	520'	530'	0.25	X	X
10"	540'	570'	0.25	X	X
10"	590'	610'	0.25	X	X
10"	630'	640'	0.25	X	X
10"	660'	665'	0.25	X	X
10"	675'	680'	0.25	X	X
10"	700'	720'	0.25	X	X
10"	730'	740'	0.25	X	X
10"	760'	790'	0.25	X	X
10"	835'	855'	0.25	X	X
10"	865'	880'	0.25	X	X

**(7) PERFORATIONS/SCREENS**

From	To	Slot Size	Dia	Casing	Type	Material	Method
450'	470'	0.06	16"	X	Type: Wire Wrap	Material: M.S. M.S. M.S.	
510'	520'	0.04	10"	X			
530'	540'	0.04	10"	X			
570'	590'	0.03	10"	X	Type: Wire Wrap	Material: S.S. S.S. S.S.	
610'	630'	0.03	10"	X			
640'	660'	0.03	10"	X	Perforated Pipe	Method: Factory	
665'	675'	0.25	10"	X			
680'	700'	0.25	10"	X			
720'	730'	0.25	10"	X			
740'	760'	0.25	10"	X			
790'	835'	0.25	10"	X			
855'	865'	0.25	10"	X			
880'	910'	0.25	10"	X			

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AUG 02 2006  
WATER RESOURCES DEPT  
SALEM, OREGON

# Groundwater Review Summary Form

Application # LL- 1811

GW Reviewer Phillip I. Marcy

Date Review Completed: 07/15/2020

## Summary of GW Availability and Injury Review:

Groundwater for the proposed use is either over appropriated, will not likely be available in the amounts requested without injury to prior water rights, OR will not likely be available within the capacity of the groundwater resource per Section B of the attached review form.

## Summary of Potential for Substantial Interference Review:

There is the potential for substantial interference per Section C of the attached review form.

## Summary of Well Construction Assessment:

The well does not appear to meet current well construction standards per Section D of the attached review form. Route through Well Construction and Compliance Section.

*This is only a summary. Documentation is attached and should be read thoroughly to understand the basis for determinations and for conditions that may be necessary for a permit (if one is issued).*



**WATER RESOURCES DEPARTMENT MEMO**

July 15, 2020

**TO:** Application LL- 1811

**FROM:** Phil Marcy - Groundwater Section

**SUBJECT:** **Scenic Waterway Interference Evaluation**

YES

The source of appropriation is within or above a Scenic Waterway

NO

YES

Use the Scenic Waterway condition (condition 7J)

NO

Per ORS 390.835, the Groundwater Section is able to calculate groundwater interference with surface water that contributes to a Scenic Waterway. The calculated interference distribution is provided below.

Per ORS 390.835, the Groundwater Section is unable to calculate groundwater interference with surface water that contributes to a scenic waterway; therefore, the Department is unable to find that there is a preponderance of evidence that the proposed use will measurably reduce the surface flows necessary to maintain the free-flowing character of a scenic waterway.

**DISTRIBUTION OF INTERFERENCE**

*Calculate interference as the monthly fraction of the annual consumptive use and fill in the table below. If interference cannot be calculated, per criteria in 390.839, do not fill in the table but check the "unable" option above, thus informing the Water Rights Section that the Department is unable to make a Preponderance of Evidence finding.*

Exercise of this permit is calculated to reduce monthly flows in the Grande Ronde Scenic Waterway by the following amounts, expressed as a proportion of the annual consumptive use pumped from the well.

**Monthly Fraction of Annual Consumptive Use**

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.087	0.079	0.073	0.068	0.068	0.074	0.082	0.094	0.102	0.100	0.091	0.082

PUBLIC INTEREST REVIEW FOR GROUNDWATER APPLICATIONS

TO: Water Rights Section Date 07/15/2020  
 FROM: Groundwater Section Phillip I. Marcy  
 Reviewer's Name  
 SUBJECT: Application LL- 1811 Supersedes review of \_\_\_\_\_  
 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: Brett Rudd County: Union

A1. Applicant(s) seek(s) 0.78 cfs from 1 well(s) in the Grande Ronde Basin,  
 \_\_\_\_\_ subbasin

A2. Proposed use AR Testing Seasonality: December 1<sup>st</sup> – April 14<sup>th</sup>

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	UNIO 51835	1	Alluvium	0.78	2S/39E-30 SW-NE	44°N, 2589°W fr W ¼ cor, S 29
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	2702	15	15	07/06/2006	920	0-36	0-200; Various intervals below (see construction diagram)	NA	Various (see attached construction diagram)	800	110	Pump

Use data from application for proposed wells.

A4. **Comments:** This application proposes to use groundwater from an alluvial well (UNIO 51835) as the source of recharge for nearby UNIO 52415, a well completed into the volcanic sequence underlying the valley fill sediments. Since permit condition measurements began in 2015, the 4,025' deep UNIO 52415 has experienced regular, somewhat modest declines. It the applicant's intent to maintain the viability of the deep basalt aquifer into which this well is constructed, and from which the authorized pumping under G-17020 is possibly the only use. Conditions related to AR (OAR 690-350-0120) are included in section C6.  
The applicant proposes a maximum pumping rate of 350 gpm from UNIO 51835 to use for recharge during non-irrigation months for the purpose of Artificial Recharge (AR) testing. UNIO 51835 is currently authorized under Certificate 90977 to pump up to 4.46 cfs during the period of March 1<sup>st</sup> – October 31<sup>st</sup>. Yield and drawdown information from pump test conducted in 2008.

A5.  **Provisions of the** Grande Ronde (OAR 690-508-0010) 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: \_\_\_\_\_

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

**B. GROUNDWATER AVAILABILITY CONSIDERATIONS, OAR 690-310-130, 400-010, 410-0070**

B1. **Based upon available data**, I have determined that groundwater\* for the proposed use:

- a.  is over appropriated,  is not over appropriated, or  cannot be determined to be over appropriated during any period of the proposed use. \* This finding is limited to the groundwater portion of the over-appropriation determination as prescribed in OAR 690-310-130;
- b.  will not or  will likely be available in the amounts requested without injury to prior water rights. \* This finding is limited to the groundwater portion of the injury determination as prescribed in OAR 690-310-130;
- c.  will not or  will likely to be available within the capacity of the groundwater resource; or
- d.  will, if properly conditioned, avoid injury to existing groundwater rights or to the groundwater resource:
  - i.  The permit should contain condition #(s) 7N; "Large Water Use Reporting";
  - ii.  The permit should be conditioned as indicated in item 2 below.
  - iii.  The permit should contain special condition(s) as indicated in item 3 below;

- B2.
- a.  Condition to allow groundwater production from no deeper than \_\_\_\_\_ ft. below land surface;
  - b.  Condition to allow groundwater production from no shallower than \_\_\_\_\_ ft. below land surface;
  - c.  Condition to allow groundwater production only from the \_\_\_\_\_ groundwater reservoir between approximately \_\_\_\_\_ ft. and \_\_\_\_\_ ft. below land surface;
  - d.  Well reconstruction is necessary to accomplish one or more of the above conditions. The problems that are likely to occur with this use and without reconstructing are cited below. Without reconstruction, I recommend withholding issuance of the permit until evidence of well reconstruction is filed with the Department and approved by the Groundwater Section.

**Describe injury** –as related to water availability– that is likely to occur without well reconstruction (interference w/ senior water rights, not within the capacity of the resource, etc): \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

B3. **Groundwater availability remarks:** This application proposes a pumping season of December through April, when nearby users are unlikely, and for the most part, unauthorized to pump groundwater for irrigation purposes. The proposed POA well, along with two other wells, is authorized under Certificate 90977 to produce up to 4.46 cfs from March 1<sup>st</sup> to October 31<sup>st</sup>.

Considering the proposed maximum rate of 350 gpm, and utilizing the derived pump test value for transmissivity of 689 ft<sup>2</sup>/day, calculations were performed to predict expected drawdown during the proposed pumping season. The closest proximity POA well is located 2,650 feet to the WNW, and according to Theis drawdown calculations is likely to experience between 9.88 and 26.31 feet of drawdown induced by pumping at UNIO 51835 for 136 days at the maximum rate.

**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	Basin-fill sediments of Grande Ronde Valley	<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:** There is no considerable difference in elevation of water-bearing lithologies and resulting static water level elevation. Also, no distinct and laterally continuous low-permeability horizon has been identified in this area that would serve to significantly limit vertical movement of groundwater.

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	Grande Ronde River	2687	2689	6500	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
1	2	Wright Slough	2687	2701	1975	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<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"/>

**Basis for aquifer hydraulic connection evaluation:** Available data do not provide evidence of any significant and laterally continuous lithologic horizon that would prevent vertical migration of groundwater between water-bearing zones within the proposed POA well and local surface waters. Groundwater elevation, as measured by driller before and after alteration, is coincident with nearby surface water elevations.

**Water Availability Basin the well(s) are located within:** GRANDE RONDE R > SNAKE R - AB WILLOW CR

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?
1	1	<input type="checkbox"/>	<input type="checkbox"/>	NA	NA	<input type="checkbox"/>	85.60	<input type="checkbox"/>	<<25%	<input type="checkbox"/>
1	2	<input type="checkbox"/>	<input type="checkbox"/>	NA	NA	<input type="checkbox"/>	85.60	<input type="checkbox"/>	<<25%	<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"/>

C3b. **690-09-040 (4):** Evaluation of stream impacts by total appropriation for all wells determined or assumed to be hydraulically connected and less than 1 mile from a surface water source. Complete only if Q is distributed among wells. Otherwise same evaluation and limitations apply as in C3a above.

	SW #	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"/>

**Comments:** Expected interference at 30 days is anticipated to be much less than 25% of the proposed pumping rate due to the majority of water-bearing zones accessed by the POA well existing at considerable depth, and interspersed with fine-grained lithologies that delay response in overlying zones.

C4a. **690-09-040 (5):** Estimated impacts on hydraulically connected surface water sources greater than one mile as a percentage of the proposed pumping rate. Limit evaluation to the effects that will occur up to one year after pumping begins. This table encompasses the considerations required by 09-040 (5)(a), (b), (c) and (d), which are not included on this form. Use additional sheets if calculated flows from more than one WAB are required.

Non-Distributed Wells													
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
Distributed Wells													
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
(A) = Total Interf.													
(B) = 80 % Nat. Q													
(C) = 1 % Nat. Q													
(D) = (A) > (C)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
(E) = (A / B) x 100		%	%	%	%	%	%	%	%	%	%	%	%

(A) = total interference as CFS; (B) = WAB calculated natural flow at 80% exceed. as CFS; (C) = 1% of calculated natural flow at 80% exceed. as CFS; (D) = highlight the checkmark for each month where (A) is greater than (C); (E) = total interference divided by 80% flow as percentage.

**Basis for impact evaluation:** This section does not apply.

C4b. **690-09-040 (5) (b)** The potential to impair or detrimentally affect the public interest is to be determined by the Water Rights Section.

- C5.  **If properly conditioned**, the surface water source(s) can be adequately protected from interference, and/or groundwater use under this permit can be regulated if it is found to substantially interfere with surface water:
- i.  The permit should contain condition #(s) \_\_\_\_\_;
  - ii.  The permit should contain special condition(s) as indicated in "Remarks" below;

C6. **SW / GW Remarks and Conditions:** Appropriation of groundwater hydraulically connected to surface water in the Upper Grande Ronde Basin is limited by Scenic Waterway limitations. At this point, water is only available in or above watershed ID #227 (Grande Ronde River > Snake River – At Mouth) from December through February, thus an allocation of groundwater for the entirety of the proposed injection season may not be possible.

The applicant has proposed the use of groundwater from the source well previously authorized for primary irrigation under Certificate 90977 from March 1<sup>st</sup> – April 14<sup>th</sup> for the purpose of injection (email summarizing this request attached at the end of this review). If permitted, this change of use would allow the applicant to extend the injection season from three months to four and one half months. This proposal is outside the scope of a groundwater review, therefore the reviewer defers to the Department's Water Rights section to determine whether this proposal is feasible.

### **Recommended AR-related Conditions**

#### **1) Approved Monitoring Plan**

- (A) The licensee shall adhere to the approved monitoring plan. A revised, superseding plan may be submitted to the Department at any time. The Department may deny, condition or approve that plan.
- (B) The licensee must have a DEQ-approved plan that addresses manganese treatment and management of treatment residuals prior to recharging water.
- (C) All manual water level measurements shall be performed in accordance with the approved monitoring plan and only when wells are confirmed to be static. This shall be confirmed by performing a series of 3 measurements, 10 minutes apart, with no discernable change in water level within the well.

#### **2) Annual Reporting.**

- (A) The user is required to provide a written report by February 15th of each year detailing the test results over the last year. This report shall include, but is not limited to, the results of testing efforts that relate to water quality, water quantity, and operations. Water level and water quality data shall be submitted in a Department-specified digital format. The user shall consult with ODEQ and OWRD to scope out additional specific reporting elements, but these agencies may also require additional testing. The first report in February 2021 shall also contain the testing results of any recharge testing under Limited License 1811 for water year 2020. The annual report shall be sealed and signed by a professional(s) registered or allowed, under Oregon law, to practice geology.
- (B) As pertinent, annual reporting shall include the formatting and additional information cited in Condition 2 below.

#### **3) Special Reporting Condition. The licensee shall provide the following information to the Department:**

- (A) Submission of any and all hydrogeologic data collected and reports developed for the project, including but not limited to cuttings analysis, video logs, geophysical logs, aquifer tests and step tests.
- (B) Submission of digital water level data for all AR wells and any other wells measured in conjunction with the project (in a Department-specified format), including annual report data.
- (C) Submission of annual reports with locations and elevations for all project wells (actual locations of built wells and proposed locations for proposed wells) and locations and elevations for all non-project wells that have been used for collecting water levels or other data pertinent to the project (in a Department-specified format).
- (D) Notification in the annual report of any changes in well construction to the AR license file.
- (E) Associating all project well data with the Department Well Identification Number (Well ID Number), the Department Well Log ID, if available, and the project Well Name.
- (F) Submission of all digital water quality data collected in conjunction with the project (in a Department-specified format).

- 4) The user shall meter all water use and maintain a record of use, including the total volume diverted and the categories of beneficial use to which water is applied. During the period of the license, the record of use shall be available for review by the Department upon request, and shall be submitted to the Watermaster upon request. This record shall include the volume of water pumped from UNIO 51835 and the volume of water injected into UNIO 52415.
- 

**References Used:** Application LL-1811, application review for G-16028.

Development Potential of Ground Water in the Grande Ronde Valley, Union County, Oregon, Ham, 1966

Ferns, M. L., McConnell, V. S., Madin, I. P., and Johnson, J. A., 2010, Geology of the upper Grande Ronde River basin, Union County, Oregon; Oregon Department of Geology and Mineral Industries Bulletin 107, scale 1:100,000, 65 p.

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OWRD water level database, area well logs, GWIS geochemistry database.

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

- D1. Well #: \_\_\_\_\_ Logid: \_\_\_\_\_
- 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) \_\_\_\_\_
- D3. **THE WELL construction deficiency or other comment is described as follows:** \_\_\_\_\_
- D4.  **Route to the Well Construction and Compliance Section for a review of existing well construction.**

**Water Availability Tables**

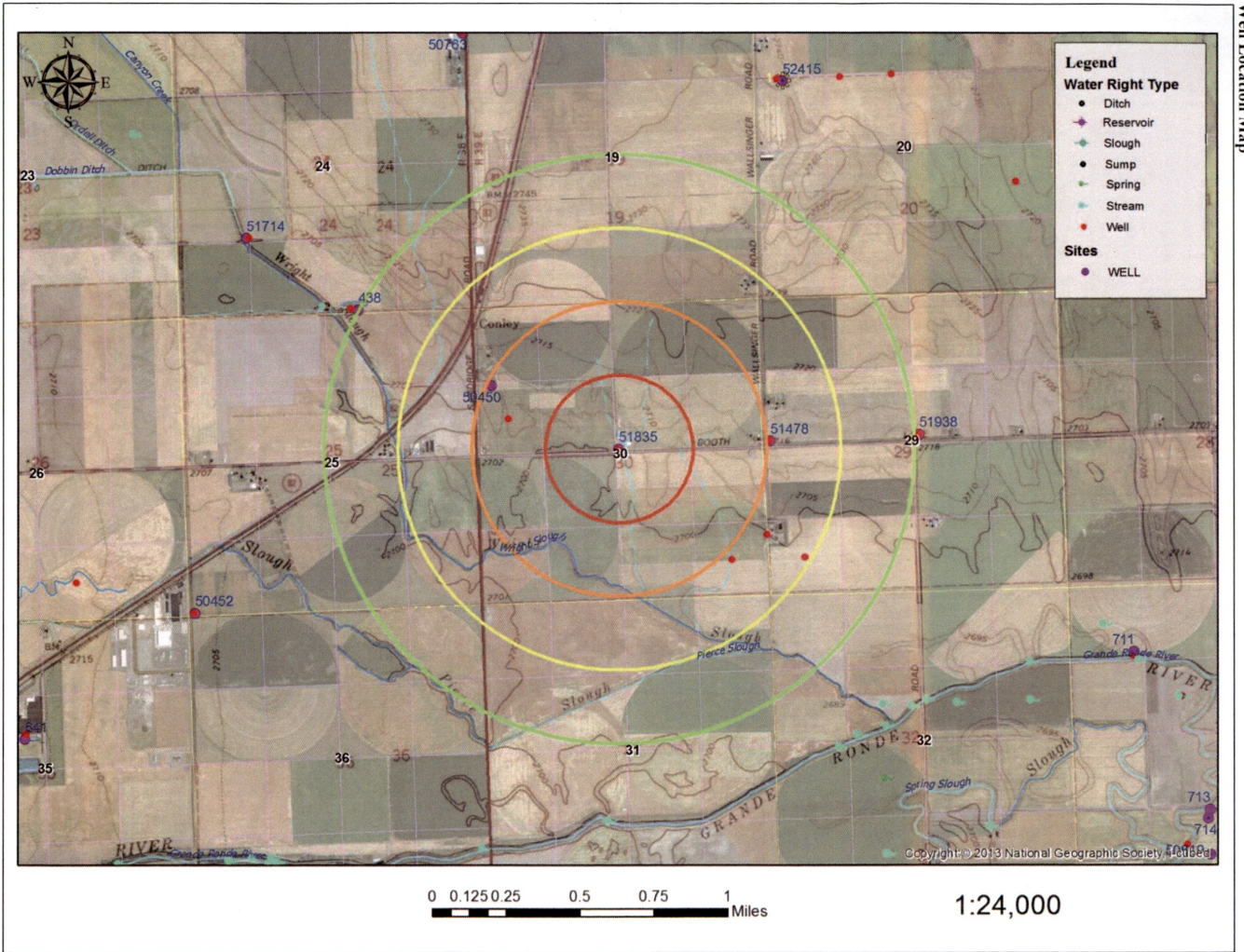
DETAILED REPORT ON THE WATER AVAILABILITY CALCULATION						
Watershed ID #: 30810407		GRANDE RONDE R > SNAKE R - AB WILLOW CR			Exceedance Level: 80	
Time: 3:01 PM		Basin: GRANDE RONDE			Date: 01/28/2020	
Month	Natural Stream Flow	Consumptive Use and Storage	Expected Stream Flow	Reserved Stream Flow	Instream Requirements	Net water Available
Monthly values are in cfs. Storage is the annual amount at 50% exceedance in ac-ft.						
JAN	138.00	17.70	120.00	23.70	0.00	96.60
FEB	246.00	21.70	224.00	62.30	0.00	162.00
MAR	431.00	23.50	408.00	118.00	0.00	290.00
APR	966.00	148.00	818.00	131.00	0.00	687.00
MAY	1,100.00	332.00	768.00	187.00	0.00	581.00
JUN	530.00	293.00	237.00	58.40	0.00	179.00
JUL	257.00	138.00	119.00	0.00	0.00	119.00
AUG	185.00	90.20	94.80	0.00	0.00	94.80
SEP	127.00	63.60	63.40	0.00	0.00	63.40
OCT	85.60	23.30	62.30	1.55	0.00	60.80
NOV	93.10	15.00	78.10	0.00	0.00	78.10
DEC	111.00	16.80	94.20	13.00	0.00	81.20
ANN	429,000	71,500	358,000	35,900	0	322,000

Water Availability															
Select any Watershed for Details															
Watershed Order	Watershed ID #	Stream Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Sto
1	227	GRANDE RONDE R - SNAKE R - AT MOUTH	Yes	Yes	No	No	No	No	No	No	No	No	No	Yes	Yes
2	228	GRANDE RONDE R - SNAKE R - AB SHEEP CR	Yes	Yes	No	No	No	No	No	No	No	No	No	Yes	Yes
3	30810416	GRANDE RONDE R - SNAKE R - AB WILLOW CR	Yes	Yes	No	No	No	No	No	No	No	No	No	Yes	Yes
4	30810406	GRANDE RONDE R - SNAKE R - AB CORDON CR	Yes	Yes	No	No	No	No	No	No	No	No	No	Yes	Yes
5	30810407	GRANDE RONDE R - SNAKE R - AB WILLOW CR	Yes	Yes	No	No	No	No	No	No	No	No	No	Yes	Yes

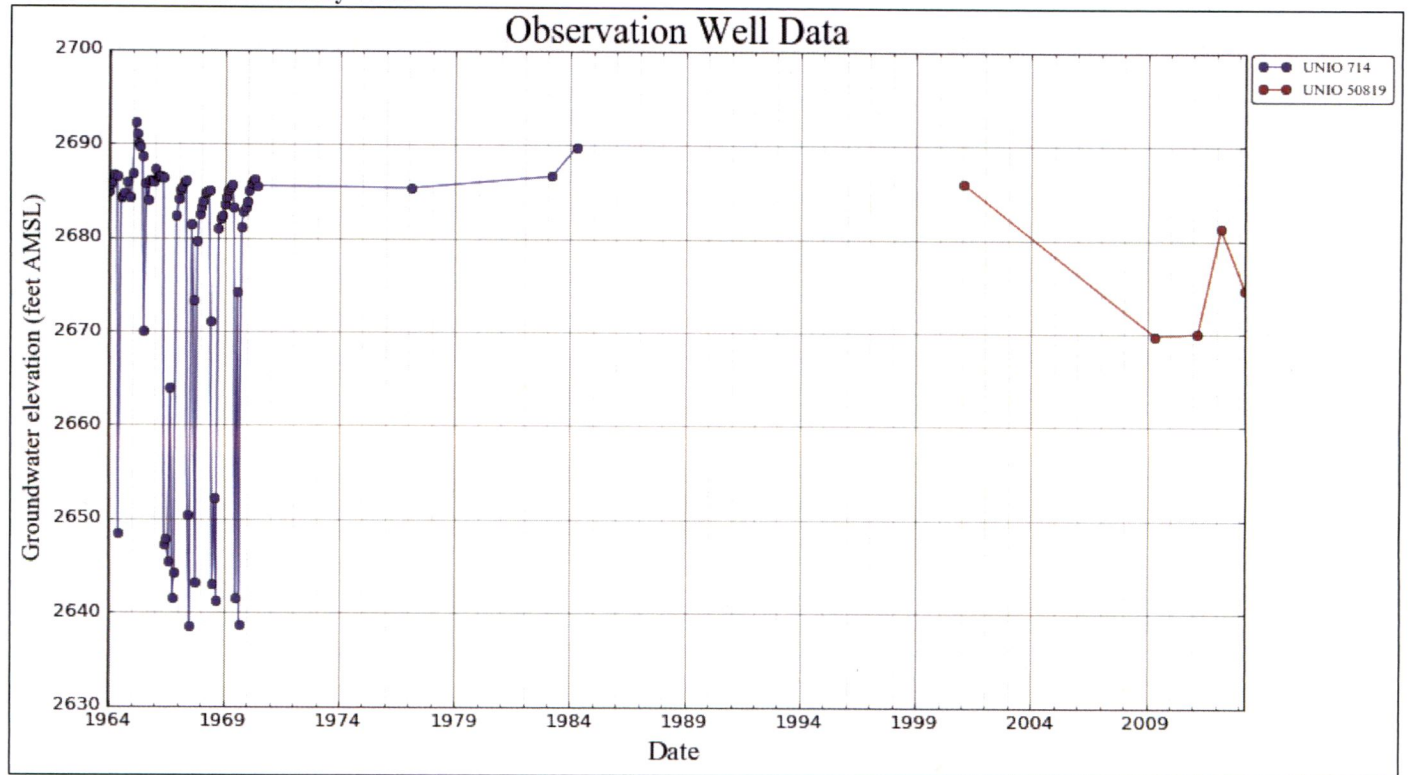
Limiting Watersheds			
Monthly Streamflow in Cubic Feet per Second			
Annual Volume at 50% Exceedance in Acre-Feet			
Month	Limiting Watershed ID #	Stream Name	Net Water Available
JAN	227	GRANDE RONDE R - SNAKE R - AT MOUTH	94.10
FEB	30810407	GRANDE RONDE R - SNAKE R - AB WILLOW CR	162.00
MAR	227	GRANDE RONDE R - SNAKE R - AT MOUTH	9.79
APR	227	GRANDE RONDE R - SNAKE R - AT MOUTH	-1,850.00
MAY	227	GRANDE RONDE R - SNAKE R - AT MOUTH	-859.00
JUN	227	GRANDE RONDE R - SNAKE R - AT MOUTH	-1,790.00
JUL	227	GRANDE RONDE R - SNAKE R - AT MOUTH	-699.00
AUG	227	GRANDE RONDE R - SNAKE R - AT MOUTH	303.00
SEP	227	GRANDE RONDE R - SNAKE R - AT MOUTH	-179.00
OCT	227	GRANDE RONDE R - SNAKE R - AT MOUTH	59.50
NOV	227	GRANDE RONDE R - SNAKE R - AT MOUTH	-363.00
DEC	227	GRANDE RONDE R - SNAKE R - AT MOUTH	34.40
ANN	30810407	GRANDE RONDE R - SNAKE R - AB WILLOW CR	196,000.00



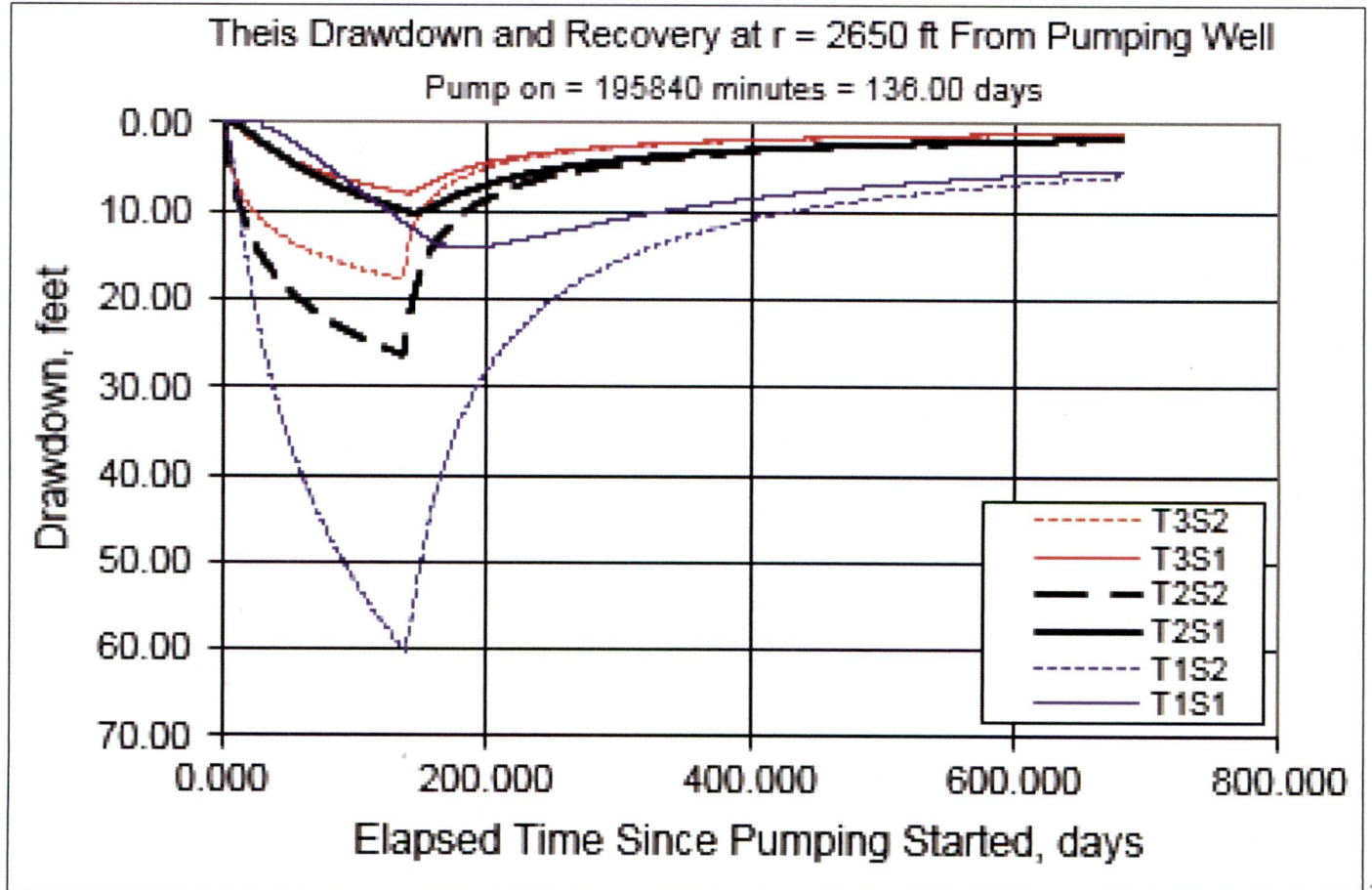


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Water-Level Trends in Nearby Wells



Observation well data from nearby alluvial wells is quite limited, but basin-wide trends do not display significant declines in the alluvial system.



**Email from consultant proposing to use authorized irrigation water from Certificate 90977 for injection from March 1<sup>st</sup> – April 14<sup>th</sup>:**

**From:** Ted Ressler <[tressler@gsiws.com](mailto:tressler@gsiws.com)>

**Sent:** Monday, March 02, 2020 7:05 AM

**To:** WOODY Jennifer L \* WRD <[Jennifer.L.Woody@oregon.gov](mailto:Jennifer.L.Woody@oregon.gov)>; [phillip.l.marcy@oregon.gov](mailto:phillip.l.marcy@oregon.gov)

**Subject:** AR LL-1811

Jen and Phil

Jen, I'm following up on a topic I mentioned during our phone call last week. This is in regards to the AR LL for Brett Rudd, specifically #5 in the Department's application completeness review letter dated 2/14/2020 addressing the availability of water for AR. I saw that Phil is also listed on the letter, so I've included him on this email also.

Under Item 5 of the completeness review letter, it is noted that groundwater from the alluvial aquifer is fully appropriated during the months of March and April and will therefore likely not be available for AR testing. Brett has an existing water right authorizing use of groundwater from the alluvial aquifer from March 1 through October 31 (Certificate 90977, 4.46 cfs for irrigation), which includes the two months (March and April) when water has been determined to be fully appropriated. I wanted to discuss potential options for how Brett might use this water right during the months of March and April.

- A. Would it be possible for the Department to condition the AR LL to allow groundwater recharge during the months of March and April if the applicant reduces use of Certificate 90977 by a corresponding amount: the amount of groundwater withdrawn from the alluvial aquifer during the months of March and April under AR LL-1811, in combination with Certificate 90977, shall not exceed 4.46 cfs? I have seen this language used by the Department previously in water use permits to link two permits together so that the net appropriation is not more than from the original permit.
- B. Pursue an ASR LL for the months of March and April referencing Certificate 90977 as the source.
- C. Other?

Do you have some time this week to discuss? At this point, I have pretty good availability Tuesday through Friday.

Thanks

Ted

**Theodore R. Ressler**

**RG, CWRE, PG**

**Hydrogeologist and Water Resources Consultant**

direct: 971.200.8509 | mobile: 503.701.4535

55 SW Yamhill St., Suite 300, Portland, OR 97204

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