Approved:

MEMO

To: Kristopher Byrd, Well Construction Manager

From: Tommy Laird, Well Construction Program Coordinator

Subject: Review of Water Right Application G-18547

Date: February 2, 2024

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

Applicant's Well #2 (GRAN 50836): Based on a review of the Well Report, Applicant's Well #2 seems to protect the groundwater resource.

The construction of Applicant's Well #2 may not satisfy hydraulic connection issues or the Groundwater Application Review Special Conditions.

Applicant's Well #4 (GRAN 50838): Based on a review of the Well Report, Applicant's Well #4 seems to protect the groundwater resource.

The construction of Applicant's Well #4 may not satisfy hydraulic connection issues or the Groundwater Application Review Special Conditions.

GRAN 50836

Gran 50836,

STATE OF OREGON WATER SUPPLY WELL REPORT

(as required by ORS 537.765)

WELL I.D. #L -73 445 73947

START CARD# 177308

Instructions for completing this report are on the last page of this form.	
(1) LAND OWNER Well Number 2 Name City of Control City Address Box 320	(9) LOCATION OF WELL (legal description) County
Address Box 376 City Prairie City State Or Zip 97869	Tax Lot Lot Lot Nor SRange 33 (Ear W WM
	Section 3 1
(2) TYPE OF WORK	Lat or (degrees or decimal) Long or (degrees or decimal)
(3) DRILL METHOD □ Rotary Air □ Rotary Mud □ Cable □ Auger □ Cable Mud □ Other □ Cable □ Cable □ Cable Mud	Street Address of Well (or nearest address) Divis Crish Rol Morth of Process City
(4) PROPOSED USE ☐ Domestic	(10) STATIC WATER LEVEL ft. below land surface. Date 9-6-66 pt. below land surface. Date 9-6-66
(5) BORE HOLE CONSTRUCTION Special Construction: ☐ Yes ☑ No	Artesian pressure lb. per square inch Date
Depth of Completed Well 3 C. 6 ft. Explosives used: Yes No Type Amount Amount	(11) WATER BEARING ZONES Depth at which water was first found 67/
BORE HOLE SEAL Diameter From To Material From To Sacks or Pounds	From To Estimated Flow Rate SWL
13" 0 79 Portland 0 79 40	61 147 75 5' 158 22C 700 5'
8 ' 79 306	
How was seal placed: Method ☐ A ☐ B ☑ C ☐ D ☐ E	(12) WELL LOG Ground Elevation 3 9 5 C
Other ft. to ft. Material	Material From To SWL
Gravel placed from ft. to ft. Size of gravel	Gray Basett Hard 5 10
(6) CASING/LINER	BOWN Basalt Harel 10 27
Diameter From To Gauge Steel Plastic Welded Threaded Casing: 9 + 18 8 5 25 25 2	gray Busult Hund 27 61 gray Busult Fra W 61 147 5'
	Gray Base It Harve 147 158
Liner: 1/4	gray Busalt For W 158 220 5
Liner:	
Drive Shoe used Inside Outside None Final location of shoe(s)	
(7) PERFORATIONS/SCREENS	
Perforations Method	
☐ Screens Type Material	Date Started 8-31-66 Completed 7-6-66
From To Slot Number Diameter Tele/pipe Casing Liner Size	(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
(8) WELL TESTS: Minimum testing time is 1 hour ☐ Pump ☐ Bailer ☑ Air ☐ Flowing Artesian	Signed
Yield gal/min Drawdown Drill stem at Time	(bonded) Water Well Constructor Certification
780 - 300 7	l 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
Temperature of water Depth Artesian Flow Found	and belief.
Was a water analysis done? Yes By whom Too little	WWC Number 1606 Date 10-31-66
Salty Muddy Odor Colored Other RECEIVE	Signed John Marriel
Depth of strata:	Signed fra ///areal
	6

GRAN 50838

STATE OF OREGON WATER SUPPLY WELL REPORT

(as required by ORS 537.765)

WELL I.D. #L 73949

START CARD# 177309	START CARD#	177309	
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Instructions for completing this report are on the last page of this form.	
(1) LAND OWNER Name City of Prairie City	(9) LOCATION OF WELL (legal description)
Name City of Prairie City	County Grant
Address 11 A	Tax Lot Lot
City Prairie City State On Zip 47864	Township 12 Norsange 33 CFOr W WM
	Section 34 1/4 NW 1/4
(2) TYPE OF WORK New Well	Lat ° ' "or (degrees or decimal)
Deepening Alteration (repair/recondition) Abandonment Conversion	Lat' or (degrees or decimal) Long or or (degrees or decimal)
(3) DRILL METHOD	1 · · · · · · · · · · · · · · · · · · ·
Rotary Air Rotary Mud Cable Auger Cable Mud	Street Address of Well (or nearest address) 1. xi Conset
Other	Rd Month of Prairie City
- Outer	
(4) PROPOSED USE	(10) STATIC WATER LEVEL
☐ Domestic ☐ Community ☐ Industrial ☐ Irrigation	15.8 ft. below land surface. Date $9-25-06$
☐ Thermal ☐ Injection ☐ Livestock ☐ Other	ft. below land surface. Date
(S) PODE HOLE CONSTRUCTION C. 110 C. TV. TIS	Artesian pressure lb. per square inch Date
(5) BORE HOLE CONSTRUCTION Special Construction: ☐ Yes ☑ No Depth of Completed Well 3 € 6. ft.	
Explosives used: Yes No Type Amount	(11) WATER BEARING ZONES
	Depth at which water was first found
BORE HOLE SEAL Diameter From To Material From To Sacks or Pounds	From To Estimated Flow Rate SWL
	79 95 50 158"
12 0 73 Partland 0 25 38	115 119 60 1518"
8" 75 306	
How was seal placed: Method	
Other	(12) WELL LOG Ground Elevation 3 4 3 0
Backfill placed fromft. toft. Material	Material From To SWL
Gravel placed from ft. to ft. Size of gravel	Brown Top Soil 0 5
Graver placed from it. to it. Size of graver	13/VIIN CLOCONNAS ON 3 &C
, (6) CASING/LINER	granito Med Soft
Diameter From To Gauge Steel Plastic Welded Threaded Casing: 8" + 2 766 250	gray Basett Hard 20 30
Casing: 8" + 2 766 250 🖾 🔲 🔼	Purple Acck-long 30 43
Liner:	gray Busalt Med H 43 50 gray Busult Hural 50 29
	gray Busult Fragu 79 95 15'8"
Liner:	gray Basult Hard 95 115
Casing: 8" + 2 786 250 25 25 25 25 25 25 2	aray 13441/ FAC W 1/5 /19 /3 8"
	Gray Bushit Hard 119 142
Drive Shoe used Inside Outside None	BIK Busult FRACSIFT 142 153
Final location of shoe(s)	BIK Busatt Hand 15-3 174
(7) PERFORATIONS/SCREENS	Bit Baselt Med 174 306
Perforations Method	Mineral seems
Screens Type Material	
From To Slot Number Dispersion Tole/sing Cosing Lines	Date Started 9-18-06 Completed 9 9 9 9 6
From To Slot Number Diameter Tele/pipe Casing Liner Size size	(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.
	the best of my knowledge and benefit
	WWC Number Date
(8) WELL TESTS: Minimum testing time is 1 hour	
□ Pump □ Bailer ☑ Air □ Flowing Artesian	Signed
Yield gal/min Drawdown Drill stem at Time	(bonded) Water Well Constructor Certification
/30 — 300 4.5	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
Temperature of water Depth Artesian Flow Found	supply well construction standards. This report is true to the best of my knowledge
Was a water analysis done Was By whom	and belief.
Did any strata contain water not suitable for intended use?	WWC Number 1606 Date 10-31-06
Salty Muddy Odor Colored Other RECEIVED	1 2 2 2 2 2
Depth of strata:	Signed John Marciel
Deput of suata.	

Groundwater Application Review Summary Form

Application # G- <u>18547</u>
GW Reviewer <u>Darrick E. Boschmann</u> Date Review Completed: <u>02/08/2023</u>
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:
$oxed{\boxtimes}$ 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

MEM	O	_02/08/2023_							
TO:		Application G- <u>18547</u>							
FROM:		GW: _Darrick E. Boschmann_ (Reviewer's Name)							
SUBJ	SUBJECT: Scenic Waterway Interference Evaluation								
\boxtimes	YES	The source of appropriation is hydraulically connected to a State Scenic							
	NO	Waterway or its tributaries							
\boxtimes	YES								
	NO	Use the Scenic Waterway Condition (Condition 7J)							
\boxtimes	interfer	RS 390.835, the Groundwater Section is able to calculate ground water rence with surface water that contributes to a Scenic Waterway. The calculated rence is distributed below							
	interfer Depart propos	RS 390.835, the Groundwater Section is unable to calculate ground water rence with surface water that contributes to a scenic waterway; therefore , the the timent is unable to find that there is a preponderance of evidence that the sed use will measurably reduce the surface water flows necessary to ain the free-flowing character of a scenic waterway							

DISTRIBUTION OF INTERFERENCE

Calculate the percentage of consumptive use by month and fill in the table below. If interference cannot be calculated, per criteria in 390.835, do not fill in the table but check the "unable" option above, thus informing Water Rights that the Department is unable to make a Preponderance of Evidence finding.

Exercise of this permit is calculated to reduce monthly flows in <u>John Day</u> Scenic Waterway by the following amounts expressed as a proportion of the consumptive use by which surface water flow is reduced.

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083

PUBLIC INTEREST REVIEW FOR GROUNDWATER APPLICATIONS

TO: FROM	[:	Water Ri Groundw		tion tion			k E. Boschma		02/08/2	023				
SUBJE	ECT:	Applicati	on G- 1	18547			ewer's Name les review of	8/28/2017						
20202		- PP-1-	<u></u>			Superson		0/20/2017	Г	Date of Revi	ew(s)			
OAR 6 welfare to deter	90-310-1, safety as mine who sumption	nd health as ether the pre- criteria. Th	Departme s describe esumption is review	nt shall product of the shall	esume tha 537.525. I hed. OAF I pon avai	t a propose Department R 690-310- lable infor	ed groundwate t staff review § 140 allows the rmation and a	groundwater e proposed u gency polici	asure the preser applications un se be modified ies in place at t	der OAR or conditi the time o	690-310 ioned to r	-140 meet		
				_	•									
A1.								John Day				Basin,		
		<u>Upper John</u>	Day			subb	asin							
A2.	Propose	ed use	Irrigat	tion (320.0	acres prin	nary)_	Seas	onality: <u>3/1</u>	- 10/31					
A3.	Well an	d aquifer da	ata (attac	h and num	ber logs	for existin	g wells; marl	x proposed v	vells as such u	nder logi	d):			
Well	Logid	Applicant's Well #			osed (cfs) (ocation T/R-S QQ-Q)			metes and bound 200' E fr NW co					
1	GRAN WELL #2 Bedrock 780*				0* 1		1290 FEET SOUTH AND 1230 FEET EAST FROM NW CORNER, SECTION 34							
2	GRAN 50838	WELL #4	Bedro	ock 13	33	2.00S- .00E-34- SE NW	1450 FEET SOU	TH AND 1700	FEET EAST FROM 34	A NW COR	NER, SEC	ΓΙΟΝ		
* Alluvi	um, CRB,	Bedrock												
Well	Well Elev ft msl	First Water ft bls	SWL ft bls	SWL Date	Well Depth (ft) 306	Seal Interval (ft) 0-79	Casing Intervals (ft) 0-80	Liner Intervals (ft) NA	Perforations Or Screens (ft) NA	Well Yield (gpm) 780	Draw Down (ft) NA	Test Type AIR		
Lise data	3942	79 lication for p	15.67	9-25-06	306	0-75	0-76.5	NA	NA	130	NA	AIR		
A4.	Commo	ents:	v address	es the findi			accordance w		5/2023 clarificat	tion mem	o on the o	current		
	along and as Tc (Constant) John Daunderly	n unnamed Clarno Form ay River as	tributary (nation) by "mostly h vic cherty	to the John Thayer, 19 cornblende shales and	Day Rive 967. Thay andesite f metavolc	er west of I er describe lows and b	Dixie Creek. Tes the Clarno Increase in Dixional Processive Testing Te	The area imm M within the hin less than	oout two miles rediately underlee Prairie City quamile of the wolumbia River	ying the v uadrangle ells expos	wells is me north of sures of the	apped the		
									t" to total depth re easily mistak			<u>2</u>		
	interbed		pth as rep	orted by th					and black "basa the andesites o					
	<u>G-1507</u>		nsistent v	vith the loc					15077. The autroses of this re					

A5. Provisions of the John Day

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:

Well(s) # _____, ____, ____, ____, tap(s) an aquifer limited by an administrative restriction.

Name of administrative area:

Comments:

Currently no administrative area.

Date: 02/08/2023

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Date: 02/08/2023

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

B1.	Bas	ed upon available data, I have determined that groundwater* for the proposed use:									
	a.	\Box is over appropriated, \boxtimes is not over appropriated, or \Box 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.	\square will not or \square 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.	\square will not or \square will likely to be available within the capacity of the groundwater resource; or									
	d.	 i. □ The permit should contain conditioned as indicated in item 2 below. 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):									
В3.	Gro	oundwater availability remarks:									
	The data	proposed wells produce groundwater from the Clarno Formation (see above comments A4). Gannet (1984) compiles for the Clarno FM that indicate a low groundwater potential, stating that obtaining adequate well yields for even nestic or stock use is extremely difficult in many areas. The proposed wells under this application have low to moderate lyields according to the drillers air tests.									
	hyd	re are no relevant water level data available for wells in this area. However, based on the level of development and raulic connection with surface water it is very unlikely that current conditions would meet the Division 8 definition of essively declining or declined excessively (for the <i>storage</i> portion of the source of water to wells).									
	If a	permit is issued, the following conditions are recommended:									
	7N:	Annual Measurement and Decline Condition									
	Flo	w meter condition: Use the water rights "large" permit condition requiring a totalizing flow meter and reporting									
	7J:	Scenic waterway condition									
		Version: 07/28/2020									

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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 (Clarno FM)		\boxtimes
2	Bedrock (Clarno FM)		\boxtimes

Basis for aquifer confinement evaluation:

Although the reported water bearing zones and static water levels on the well logs for both proposed wells show that the water level in the wells rose ~60 feet above the elevation of the water bearing zones penetrated, the occurrence of numerous springs at elevations roughly coincident with the static water levels in the wells, as well as the position of the wells relative to the recharge areas and the John Day River suggests this is a groundwater discharge area, and the rising head is a result of the vertical components of gradient in the flow field.

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 1/4 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? YES NO ASSUMED			Potentia Subst. Int Assum YES	terfer.
1	1	Unnamed trib to JD River	3916	3883	612	\boxtimes		\boxtimes	\boxtimes	
1	2	Dixie Creek	3916	3660	5230	\boxtimes				\boxtimes
1	3	John Day River	3916	3475	12000	\boxtimes				\boxtimes
2	1	Unnamed trib to JD River	3926	3883	675	\boxtimes		\boxtimes	\boxtimes	
2	2	Dixie Creek	3926	3660	4740	\boxtimes				\boxtimes
2	3	John Day River	3926	3475	12000	\boxtimes				\boxtimes
1	1	Unnamed trib to JD River	3916	3883	612	\boxtimes		\boxtimes	\boxtimes	

	2	1	Ulliamed trib to JD River	3920	3003	0/5		\triangle	
	2	2	Dixie Creek	3926	3660	4740	\boxtimes		\boxtimes
	2	3	John Day River	3926	3475	12000	\boxtimes		\boxtimes
	1	1	Unnamed trib to JD River	3916	3883	612	\boxtimes	\boxtimes	
Ba	sis for a	aquife	r hydraulic connection evaluation:						
Se	e comm	ents in	C1. above.						

Within the uncertainty of the groundwater elevation estimate, the groundwater elevation for wells 1 and 2 are roughly coincident with or above the elevation of the closest reach of the unnamed tributary to the John Day River, Dixie Creek, and the John Day River; suggesting that groundwater provides baseflow to these surface water bodies at this location.

Water Availability Basin the well(s) are located within: JOHN DAY R > COLUMBIA R - AB LITTLE PINE CR

C3a. **690-09-040** (4): Evaluation of stream impacts for <u>each well</u> that has been determined or assumed to be **hydraulically connected and less than 1 mile** from a surface water (SW) source. Limit evaluation to instream rights and minimum stream flows that are pertinent to that SW source, 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 < 1/4 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			MF213A	15	\boxtimes	55.20	\boxtimes	*	\boxtimes
1	2			NA	NA		1.36	\boxtimes	*	\boxtimes
2	1	\boxtimes		MF213A	15	\boxtimes	55.20		*	\boxtimes
2	2			NA	NA		1.36	\boxtimes	*	\boxtimes

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?
	1		MF213A	15		55.20	\boxtimes	*	\boxtimes
	2		NA	NA		1.36		*	\square

Comments:									
C3a. *Interfer	ence at 30 da	ays not ca	lculated her	e due to trigge	ering of PSI	under other c	riteria.		
C3b. *Interfe	rence at 30 da	ays not ca	lculated her	e due to trigge	ering of PSI	under other o	criteria.		
WABS evalu	ated: JOHN l	DAY R >	COLUMBI	AR - AB LIT	TLE PINE	CR; DIXIE C	CR > JOHN	DAYR - AT MO	OUTH

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C4b.

Rights Section.

Date: 02/08/2023

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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-Di	istributed	Wells											
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	9/
Well Q	as CFS												
Interfer	ence CFS												
Distrib	uted Well	ls											
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2	3	0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %
Well Q	as CFS												
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	9/
Well Q	as CFS												
Interfer	ence CFS												
(A) = To	tal Interf.												
. ,	% Nat. Q												
(C) = 1	% Nat. Q												
(D) = ((A) > (C)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	/B) x 100	0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

(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:

Hunt (1999) was used to calculate the interference between wells 2 and 2 SW #3. The values used for the calculation are
conservative and appropriate until better values become available. The calculations used a transmissivity of 20 ft2/day, which is
the median transmissivity reported for the Clarno Formation in Gannett, 1984. Additionally, the calculation used a storage
coefficient of 0.02, as reported in Gannett, 1984 for the Clarno Formation. The hydraulic conductivity assigned to the bed of the
stream is 0.023 feet/day. The pumping rate used (1.98 cfs) represents the maximum allowable duty prorated over the irrigation
season. See reports attached.
Interference is less than 1% of the 80% flow in all months evaluated.

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:

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

-01	umb	permit can be regulated in it is round to substantially interfere with surface water.	
i.		The permit should contain condition #(s);	

6. SW / GW Remarks and Conditions:	
C1. 690-09-040 (1)	
It is determined that all wells will produce water from an unconfined aquifer.	
<u>C2. 690-09-040 (2) (3)</u>	
It is determined that all wells are hydraulically connected with Unnamed Tributary to the John Day River, D	ixie Creek, and tr
John Day River.	
C3a./C3b. 690-09-040 (4)	
PSI is assumed for all wells to all surface water bodies evaluated.	
C4a. 690-09-040 (5)	
Interference is less than 1% of the 80% flow in all months evaluated between well 2 and SW 3.	
The applicant's proposed POAs would be producing from an aquifer that has been found to be hydraulically co	
tributaries of the John Day Scenic Waterway and will have a long-term impact on flows necessary for the sceni	
the distance between the POAs and the John Day State Scenic Waterway, the impact from the proposed use on waterway will likely be evenly distributed throughout the entire year (see Scenic Waterway Memo on page 2).	tne scenic
waterway will likely be evenly distributed throughout the entire year (see Scenic Waterway Mello on page 2).	
References Used:	
Thayer, 1967	
Gannet, M., 1984, Ground Water Assessment of the John Day Basin. Oregon Water Resources Department, Sa	lem, Oregon.
Thayer, T.P., Brown, C.E., Hay, R.L., Preliminary geologic map of the Praire City Quadrangle, Grant County, Co	Oregon. U.S.
Geological Survey Open-File Report 67-214, scale 1:62,500.	
OWRD water well reports, water level data, and/or hydrographs	
O WILD Water Well reports, water rever data; and/or hydrographs	
Oregon Administrative Rules	

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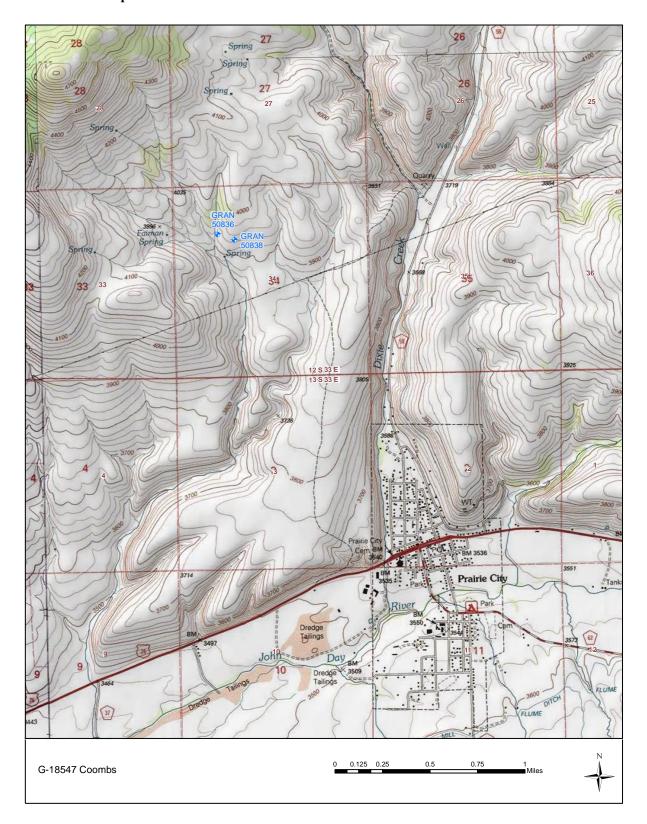
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D. WELL CONSTRUCTION, OAR 690-200

Well #:	Logid:	_
THE WELL do	es not appear to meet current well construction standards based up	on:
a. \square review	of the well log;	
b. \square field in	pection by	;
	f CWRE	
	specify)	
	nstruction deficiency or other comment is described as follows:	
1		-
☐ Route to the W	ell Construction and Compliance Section for a review of existing we	ell construction.

ater A	vailability Tabl	les				
		W	ater Availability A			
			Detailed Reports			
		Ji	OHN DAY R > COLUMBIA R - AB LITT JOHN DAY BASIN	FLE PINE CR		
tershed ID #: 213	2 (Man)		Water Availability as of 8/28/20	017		Exceedance Level: 80%
ite: 8/28/2017	o (wap)					Time: 9:30 A
W	Vater Availability Calculation	Consumptive Uses and St	orages	Instream Flow Requirements	Reserv	rations
		Water Rights			Watershed Characteristics	
			Water Availability Calcu	ulation		
			Monthly Streamflow in Cubic Feet pe Annual Volume at 50% Exceedance in	er Second		
Month	Natural Stream Flow	Consumptive Uses and Storages	Expected Stream Flow	Reserved Stream Flow	Instream Flow Requirement	Net Water Availab
JAN	98.00	1.36	96.60	0.00	25.00	71.
FEB MAR	124.00 165.00	1.56 1.71	122.00 163.00	0.00	25.00 34.00	97 129
MAR APR	229.00	17.80	211.00	0.00	34.00	177
MAY	242.00	38.10	204.00	0.00	34.00	170
JUN	160.00	50.40	110.00	0.00	25.00	84
JUL	101.00	72.40	28.60	0.00	15.00	13
AUG	64.50	56.20	8.29	0.00	34.00	-25
SEP	55.20 87.10	37.30 14.70	17.90 72.40	0.00	34.00 25.00	-16 47
NOV	94.60	1,18	93.40	0.00	25.00	68.
NOV DEC	100.00	1.32	98.70	0.00	25.00	73.
ANN	133,000.00	17,900.00	116,000.00	0.00	20,200.00	95,900.
		W	ater Availability A			
			Detailed Reports			
			DIXIE CR > JOHN DAY R - AT M JOHN DAY BASIN	IOUTH		
			Water Availability as of 8/28/20	017		
atershed ID #: 306 ite: 8/28/2017	620122 (<u>Map</u>)					Exceedance Level: 80% Time: 9:23 Al
v	Vater Availability Calculation	Consumptive Uses and St	orages	Instream Flow Requirements	Reserv	vations
		Water Rights		1	Watershed Characteristics	
			Water Availability Calcu	ulation		
			Monthly Streamflow in Cubic Feet pe Annual Volume at 50% Exceedance in			
Month	Natural Stream Flow	Consumptive Uses and Storages	Expected Stream Flow	Reserved Stream Flow	Instream Flow Requirement	Net Water Availab
JAN	3.15	1.13	2.02	0.00	0.00	2.
FEB	5.42	1.14	4.28	0.00	0.00	4.
MAR APR	8.05 13.50	1.14 1.71	6.91 11.80	0.00	0.00 0.00	6.
APR MAY	13.50 19.60	1.71	11.80 17.00	0.00	0.00	11.
JUN	12.20	3.21	8.99	0.00	0.00	17.
JUL	3.45	4.04	-0.59	0.00	0.00	-0
AUG	1.64	3.46	-1.82	0.00	0.00	-1
SEP	1.36	2.71	-1.35	0.00	0.00	-1
OCT	1.42	1.65	-0.23	0.00	0.00	-0.
NOV	2.28	1.13 1.13	1.15 1.64	0.00	0.00	1.
ANN	8,670.00	1,520.00	7,260.00	0.00	0.00	7,260.
ANII	0,070.00	1,520.00	7,250.00	0.00	0.00	1,20

Well Location Map



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