Water Right Conditions Tracking Slip

Groundwater/Hydrology Section

FILE ## G-17487

ROUTED TO: Water Rights

TOWNSHIP!

RANGE-SECTION: 145/31 E-25 cb

CONDITIONS ATTACHED? Myes [] no REMARKS OR FURTHER INSTRUCTIONS:

Reviewer: Mike Zwart

WATER RESOURCES DEPARTMENT

MEM	0								ptemb	er 23;	20 <u>0</u>	
TO: FROM	M: ECT:	Application G- 17487 GW: Mike Zwart (Reviewer's Name) Scenic Waterway Interference Evaluation										
	_YES _NO	The so	ource of	appropr	riation is	s within	or abov	e a Sce	nic Wat	terway		
	YES Use the Scenic Waterway condition (Condition 7J) NO											
	interfe	rence w	ith surfa	ace wate	d Water er that c ributed	ontribut			The second secon		ater	
<u></u>	interfe the De that th	rence w partme le prop	oith surfacent is ur osed us	ace wate nable to e will m	d Water er that c find th neasura ree-flow	ontribut at there bly red	es to a se is a pruce the	scenic we reponde surface	vaterwa erance e water	y; there of evide flows	efore, ence	
Calcula	ite the per ted, per c	centage riteria in	390.835,	iptive use do not fil	CE by monta ll in the to is unable	ible but c	heck the	"unable"	option a	bove, thu	S	
Water	way by	the follo		mounts	o reduce express				e consu		Scenic use by	
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	

PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS TO: Water Rights Section Date September 23, 2011 FROM: Ground Water/Hydrology Section Michael Zwart Reviewer's Name Application G-_ 17487 SUBJECT: 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 ground water 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: Leo and Diane Holthouse County: Grant Applicant(s) seek(s) 0.0334 cfs from one well(s) in the John Day A1. Basin, Quad Map: Canyon Mountain Canyon Creek subbasin A2. Proposed use: Irrigation, 2.0 acres Seasonality: March 1 to October 31 Well and aquifer data (attach and number logs for existing wells; mark proposed wells as such under logid): A3. Applicant's Proposed Proposed Location Location, metes and bounds, e.g. Well Logid Well# Aquifer* Rate(cfs) (T/R-S QQ-Q) 2250' N, 1200' E fr NW cor S 36 Proposed Bedrock 90' S, 900' E fr W 1/4 cor S 25 1 0.0334 14S/31E-25 NW-SW 2 3 4 5 Alluvium, CRB, Bedrock Well First Well Well Liner Draw Seal Casing Perforations SWL SWL Test Well Elev Water Depth Interval Intervals Intervals Or Screens Yield Down ft bls Date Type ft msl ft bls (ft) (ft) (ft) (ft) (gpm) (ft) (ft) 3670 200± 0-100± 0-150± 150-200± Use data from application for proposed wells. Comments: The proposed well design is targeting the fractured bedrock aquifer that most nearby wells develop. The bedrock is described as basalt, serpentine or shale on well logs and yields only small quantities of water to wells. Several well logs report no water, but the requested 15 gallons per minute is possible, however it may require multiple wells or an alternate well site. There is a shallow alluvial aquifer described in one local well log, but it is clear that the proposed depth of casing and seal is more than adequate to preclude its development. Provisions of the John Day Basin rules relative to the development, classification and/or management of ground water hydraulically connected to surface water are, or are not, activated by this application. (Not all basin rules contain such provisions.) Comments:

A6. Well(s) #

Name of administrative area:

Comments:

Version: 08/15/2003

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

	ID WATER AVAILABILITY CONSIDERATIONS, OAR 690-310-130, 400-	<u>010, 410-0070</u>							
Bas	ed upon available data, I have determined that ground water* for the proposed use:	and the Maria							
a. is over appropriated, is not over appropriated, or annot be determined to be over appropriated during period of the proposed use. * This finding is limited to the ground water 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 pri is limited to the ground water portion of the injury determination as prescrib	or water rights. * This finding ed in OAR 690-310-130;							
c.	will not or will likely to be available within the capacity of the ground water res	ource; or							
d.	 i.								
a.	Condition to allow ground water production from no deeper than	_ ft. below land surface;							
b.	Condition to allow ground water production from no shallower than	ft. below land surface;							
c.	Condition to allow ground water production only from the water reservoir;	ground							
d.	occur with this use and without reconstructing are cited below. Without reconstructi	on, I recommend withholding							
	senior water rights, not within the capacity of the resource, etc):	econstruction (interference w/							
	b. c. d.	period of the proposed use. * This finding is limited to the ground water portion of the determination as prescribed in OAR 690-310-130; b. will not or will likely be available in the amounts requested without injury to prince is limited to the ground water portion of the injury determination as prescribed. will not or will likely to be available within the capacity of the ground water rest. will not or will likely to be available within the capacity of the ground water rest. will not or will likely to be available within the capacity of the ground water rest. will not or will likely to be available within the capacity of the ground water rest. The permit should contain condition #(s) 7E 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; a. Condition to allow ground water production from no deeper than c. Condition to allow ground water production from no shallower than Condition to allow ground water production only from the bedrock water reservoir; d. Well reconstruction is necessary to accomplish one or more of the above conditions occur with this use and without reconstructing are cited below. Without reconstruction is filed with the Department.							

continued

Application G-17487

Date: September 23, 2011

			THE PERSON NAMED IN
Application	G-17487	AND THE REST	contin

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

ued

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

Well	Aquifer or Proposed Aquifer	Confined	Unconfined
1	Fractured bedrock, likely gabbro or serpentinite of		
	the Canyon Mountain Complex (Trcg or Trcs)		

Basis for aquifer confinement evaluation: The local well logs typically report water levels somewhat above the depth that groundwater was first encountered.

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? YES NO ASSUMED	Potential for Subst. Interfer. Assumed? YES NO		
1	1	Canyon Creek	Unk.	3650±	170				
								H	
-								H	
通常人家		EXCUSE OF THE SECOND							

Basis for aquifer hydraulic connection evaluation: While it is likely that the bedrock aquifer is discharging to the alluvial aquifer and/or directly to the creek on a regional basis, it is problematic to make a finding that hydraulic connection exists with the nearby reach, or any specific reach, of the creek. This is because the location and orientation of the local fracture system that will be developed is unknown. The head relationship is also unknown prior to well completion. The great relief in the area also makes it difficult to infer the head relationship from the well logs on file. I believe that the very low permeability of the bedrock aquifer results in generally poor local hydraulic connection.

Water Availability Basin the well(s) are located within: Canyon Cr > John Day R at mouth (205).

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 < 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?

Version: 08/15/2003

Comments:

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?
	100								
	ALC: N							1.00	
	State Viller State				2	Market No.			
	BELGATOLA			Marin el anur	27				

C4a.	. 690-09-040 (5): Estimated impacts on hydraulically connected surface water sources greater than one mile as a
12	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
194	additional sheets if calculated flows from more than one WAB are required.

Non-Distributed Well SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
THE STATE	%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS			A 100 PM	200	1 - 2 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3	2 34			7.0			
Interference CFS		304	and a second								ALC: SHOP	
E 680 St. (0) 10 (0)	(CL2257)	ASPORTS A	SE W. Se			17	90	000,00				
Distributed Wel		7.1							2017年		12 300	35.70
Well SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
7950	%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS				XX HE IS				A STATE OF THE STATE OF	T. (**)			95
Interference CFS		2502				THE PERSON				11/2		
数据 提出。	%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS						THE SE	100			1 Feb.	\$ 100 mm	-
Interference CFS			2 m	1			1402	100	N. T.			7 10 10
	%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS			19.7								- 1	
Interference CFS		diame	3 4 3 3		December 2	Lasks			N. 7.			
State of the state of	%	%	%	%	%	%	%	%	%	%	%	9/6
Well Q as CFS	9277 Car 1	A CALLONIA		e-tone	1348	Travolation.	TO THE	AND MES				
Interference CFS			100	7.51	Da PMET	9194-433	Yn y			7.00	-	
700 mg	%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS	Television of		12.55	35 31 6	HAY II AS	er Live		190				
Interference CFS		Tr. It	1772 (1770)	Mari J	FOUR DOM	WHICH STA	Marie II	4.7	A PINA			
A PROPERTY OF	%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS	100		5 10 do 10		- 16			PI ST 6				
Interference CFS	4		And a second			4115	CPA-			7		
(A) = Total Interf.	A Part of the	第5点を					Marian Salah				Jean	
CHOOSE CONTRACTOR					311,031			U				
(B) = 80 % Nat. Q	T. Charles		E-6354	第二年至17	74 B			《新聞》				
(C) = 1 % Nat. Q	-		SALES OF SALES	5,42		- F	282	A PARTY AND A	10.00		100	21/18
(D) = (A) > (C)	1	1	1	1	1	1	W 400	1	/	1	1	V
$(E) = (A / B) \times 100$	%	%	%	%	%	%	%	%	%	%	%	%

(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.

- 4		
Basis for	impact evaluation:	
		The second secon
ME SAL	THE STATE OF THE S	
188		
690-09 Righ	-040 (5) (b) The potential to impair	r or detrimentally affect the public interest is to be determined by the
under t	his permit can be regulated if it is foun	ource(s) can be adequately protected from interference, and/or ground water do substantially interfere with surface water:
1. ii	The permit should contain condit	l condition(s) as indicated in "Remarks" below;
11.	The permit should contain specia	r condition(s) as indicated in Remarks below,
W/GWI	Remarks and Conditions	
200		
LES.		
	Marine Service Control of the Contro	
	The Residence of the Control of the	
CHE HIS		
ologic m	ap of the Canyon City Quadrangle,	ter Assessment of the John Day Basin, by Marshall Gannett, 1984; Northeastern Oregon, by C. Ervin Brown and T. P. Thayer, USGS 7, 1966.
ologic m	Used: <u>Local well logs; Groundwa</u> ap of the Canyon City Quadrangle, ous Geologic Inestigations Map I-44	Northeastern Oregon, by C. Ervin Brown and T. P. Thayer, USGS
ologic m	ap of the Canyon City Quadrangle,	Northeastern Oregon, by C. Ervin Brown and T. P. Thayer, USGS
ologic m	ap of the Canyon City Quadrangle,	Northeastern Oregon, by C. Ervin Brown and T. P. Thayer, USGS
ologic m	ap of the Canyon City Quadrangle,	Northeastern Oregon, by C. Ervin Brown and T. P. Thayer, USGS

Applica	tion G-17487 Continued Date: September 23, 2011
D. WI	LL CONSTRUCTION, OAR 690-200
D1.	Well #: Logid:
D2.	THE WELL does not 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: a.
D4.	THE WELL construction deficiency is described as follows:
D5.	THE WELL a. was, or was not constructed according to the standards in effect at the time of original construction or most recent modification. b. I don't know if it met standards at the time of construction. Route to the Enforcement Section. I recommend withholding issuance of the permit until evidence of well reconstruction is filed with the Department and approved by the Enforcement Section and the Ground Water Section.
THIS	SECTION TO BE COMPLETED BY ENFORCEMENT PERSONNEL
D7.	Well construction deficiency has been corrected by the following actions:
	(Enforcement Section Signature) , 200
D8. [Route to Water Rights Section (attach well reconstruction logs to this page).

ANN

181,000.00

28,600.00

152,000.00

0.00

57,300.00

97,100.00

Detailed Report of Consumptive Uses and Storage

		Con	sumptive Use	es and Storag	es in Cubic Fee	et per Second			
Month	Storage	Irrigation	Municipal	Industrial	Commercial	Domestic	Agricultural	Other	Total
JAN	0.62	0.00	1.99	0.51	0.03	0.66	0.22	0.00	4.03
FEB	0.86	0.00	1.99	0.51	0.03	0.66	0.22	0.00	4.27
MAR	1.10	0.00	1.99	0.51	0.03	0.66	0.22	0.00	4.51
APR	1.61	23.60	1.99	0.51	0.03	0.66	0.22	0.00	28.70
MAY	1.80	53.90	1.99	0.51	0.03	0.66	0.22	0.00	59.10
JUN	1.29	72.20	3.97	0.51	0.03	0.66	0.22	0.00	78.80
JUL	0.47	107.00	3.97	0.51	0.03	0.66	0.22	0.00	112.00
AUG	0.27	82.50	3.97	0.51	0.03	0.66	0.22	0.00	88.10
SEP	0.26	54.00	3.97	0.51	0.03	0.66	0.22	0.00	59.70
OCT	0.35	20.40	1.99	0.51	0.03	0.66	0.22	0.00	24.20
NOV	0.42	0.00	1.99	0.51	0.03	0.66	0.22	0.00	3.83
DEC	0.56	0.00	1.99	0.51	0.03	0.66	0.22	0.00	3.97

Detailed Report of Reservations for Storage and Consumptive Uses

Reserved Streamflow in Cubic Feet per Second

No reservations were found for this watershed.

Detailed Report of Instream Flow Requirements

Application # MF212B Maximum

Detailed Reports for Watershed ID #205

CANYON CR > JOHN DAY R - AT MOUTH

JOHN DAY BASIN

Water Availability as of 9/23/2011

Watershed ID #: 205 Date: 9/23/2011 Exceedance Level: 80%

Time: 1:59 PM

Water Availability Calculation

Monthly Streamflows in Cubic Feet per Second

Storage at 50% Exceedance III Acre-reet										
Month	Natural Stream Flow	Consumptive Uses and Storages	Expected Stream Flow	Reserved Stream Flow	Instream Flow Requirement	Net Water Available				
JAN	14.50	2.21	12.30	0.00	25.00	-12.70				
FEB	21.20	2.21	19.00	0.00	34.00	-15.00				
MAR	39.90	2.21	37.70	0.00	34.00	3.69				
APR	97.20	2.90	94.30	0.00	34.00	60.30				
MAY	82.00	3.76	78.20	0.00	34.00	44.20				
JUN	33.00	5.49	27.50	0.00	25.00	2.51				
JUL	10.40	6.47	3.93	0.00	15.00	-11.10				
AUG	5.15	5.79	-0.64	0.00	9.00	-9.64				
SEP	4.09	4.97	-0.88	0.00	9.00	-9.88				
OCT	5.03	2.79	2.24	(0.00	9.00	-5.76				
NOV	9.13	2.21	6.92	.0.00	15.00	-8.08				
DEC	13.00	2.21	10.80	0.00	25.00	-14.20				
ANN	34,500.00	2,610.00	31,800.00	0.00	16,100.00	17,600.00				

Application #

MF205A Maximum

Detailed Report of Consumptive Uses and Storage

Consumptive Uses and Storages in Cubic Feet per Second										
Month	Storage	Irrigation	Municipal	Industrial	Commercial	Domestic	Agricultural	Other	Total	
JAN	0.00	0.00	1.57	0.00	0.00	0.56	0.08	0.00	2.21	
FEB	0.00	0.00	1.57	0.00	0.00	0.56	0.08	0.00	2.21	
MAR	0.00	0.00	1.57	0.00	0.00	0.56	0.08	0.00	2.21	
APR	0.01	0.68	1.57	0.00	0.00	0.56	0.08	0.00	2.90	
MAY	0.01	1.54	1.57	0.00	0.00	0.56	0.08	0.00	3.76	
JUN	0.00	2.06	2.79	0.00	0.00	0.56	0.08	0.00	5.49	
JUL	0.00	3.04	2.79	0.00	0.00	0.56	0.08	0.00	6.47	
AUG	0.00	2.36	2.79	0.00	0.00	0.56	0.08	0.00	5.79	
SEP	0.00	1.54	2.79	0.00	0.00	0.56	0.08	0.00	4.97	
OCT	0.00	0.58	1.57	0.00	0.00	0.56	0.08	0.00	2.79	
NOV-	0.00	0.00	1.57	0.00	0.00	0.56	0.08	0.00	2.21	
DEC	0.00	0.00	1.57	0.00	0.00	0.56	0.08	0.00	2.21	

Detailed Report of Reservations for Storage and Consumptive Uses

Reserved Streamflow in Cubic Feet per Second

No reservations were found for this watershed.

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Detailed Report of Instream Flow Requirements

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instream Flow Requirements in Cubic Feet per Second													
ŭ.	Status	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	CERTIFICATE	25.00	34.00	34.00	34.00	34.00	25.00	15.00	9.00	9.00	9.00	15.00	25.00
	10.00	25.00	34.00	34.00	34.00	34.00	25.00	15.00	9.00	9.00	9.00	15.00	25.00

