Water Right Conditions Tracking Slip

Groundwater/Hydrology Section

FILE ## G-17401

ROUTED TO: Kerry Karangh

TOWNSHIP!

RANGE-SECTION: 235/39E-20+30

CONDITIONS ATTACHED? Flyes [] no

REMARKS OR FURTHER INSTRUCTIONS: [].

Reveriew per new location

», ¬

Reviewer: -

PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

TO:		Wate	er Rights S	Section				Dat	.e	August	31, 2012		***************************************	
FROM	[:	Grou	nd Water	/Hydrology	Section									
SUBJE	ECT:		ication G-			Reviewer's Name Supersedes review ofAugust 5, 2						2010 Pate of Review(s)		
OAR 6 welfare to deter	90-310-1 , <i>safety a</i> mine wh	130 (1) and head ether th	The Depar Ith as descr e presumpt	<i>ibed in OR</i> tion is estab	presume th S 537,525, lished, OA	at a propos Departmen R 690-310-	sed ground t staff revi	hwater use will ew ground wat s the proposed nd agency pol	er app	olications of the contract of	under OA I or condi	R 690-3 tioned to	10-140 meet	
A. <u>GE</u>	NERAI	INFO)RMATI	ON: A	applicant's	Name:	Joe and	Joyce McKa	y		County:	Malher	ır	
A1.	Applica	ant(s) se	eek(s) _3.0	cfs fro	m <u>two</u>			Malheur Quad Map: S	humv	vav Reser	voir		_ Basin,	
A2. A3.						ige Sea	sonality: _	3/1 – 10/3 nark proposed	l (Irr.); 11/1 – 2	2/28 (Sto			
Well	Log MALH	53484	Applican Well #	A B	Aquifer* Bedrock		Proposed Rate(cfs) (T 1.337 23S/3			Location, metes and bounds, 6 2250' N, 1200' E fr NW cor S 3 650' N, 1650' E fr SW cor S 2			r S 36 r S 20	
2 3 4	Propo	osea	2	B	edrock	1.663	3 238	23S/39E-30 SW-NW		43.	548476, -	117.98800	13	
5 * Alluvi	um, CRB,	Bedroc	k		100000 1 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 -									
Well	Well Elev ft msl	First Water ft bls	r SWL	SWL Date	Well Depth (ft)	Seal Interval (ft)	Casing Interval: (ft)	Liner Intervals (ft) None	E	forations Screens (ft)	Well Yield (gpm)	Draw Down (ft)	Test Type	
2	4489				250	0-50								
A4.	Comme	ents: <u>W</u>						of Kittleman,	et al,	1967. Th	ne applica	ant called	d on	
A5. 🖂	manage (Not all	ment of basin r	ules contai		ically conn isions.)	ected to sur	rface water	rules relative t □ are, or 🗵	are	not, activa	ated by th			
A6. 🗌	Well(s) Name o Comme	f admin	istrative ar	ea:				tap(s) an aquif					triction.	

Version: 08/15/2003

3. <u>GR</u>	OUN	ND WATER AVAILABILITY CONSIDERATIONS, OAR 690-310-130, 400-010, 410-0070									
31.	Bas	ed upon available data, I have determined that ground water* 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 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 prior water rights. * This finding is limited to the ground water 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 ground water resource; or									
	d.	will, if properly conditioned, avoid injury to existing ground water rights or to the ground water resource: i. The permit should contain condition #(s)									
2.	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 ground water 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 Ground Water 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):									
3.	Gro deve site.	und water availability remarks: <u>There are no reasonably close observation wells. There is limited groundwater elopment in this area, which is remote. Only two well logs are on file in a 20-square-mile area surrounding the</u>									
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Application	(i-1/40)

continued

Date: August 31.	2012

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

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

Well	Aquifer or Proposed Aquifer	Confined	Unconfined
1, 2	Basalt and interbedded volcaniclastic rocks		

Basis for aquifer confinement evaluation: The water level in both local wells is 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	Granite Creek	4430	4482	150		
2	1	Granite Creek	4430±	4487	450		

Basis for aquifer hydraulic connection evaluation: Both local wells have water levels well below the nearby reach of the creek. Proposed well #2 may have a considerably deeper water level than is estimated here, based on the reported water level in MALH 52092 located nearby. It does not appear that groundwater is providing baseflow to local creeks.

Water Availability Basin the well(s) are located within: Granite Cr > S Fk Malheur R ab Star Cr (31011619).

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 < ½ 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?

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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

Comments: _	This section does not apply.

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-D	istributed	Wells	3 to										
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	. %	%	%	%	%	%	%	%
Well Q	as CFS												
Interfere	ence CFS												
		······································										l	
	outed Well		·				_						
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	l	%	%	%	%	%	%	%	%	%	%	%	%
Well Q													
Interfere	ence CFS												
****		%	%	%	%	%	%	%	%	%	%	%	%
Well Q													
Interfere	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q													
Interfere	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q													
Interfere	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS								A SANCE AND A				
Interfere	ence CFS												
in the		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS								***				***************************************
Interfere	ence CFS												
(A) - To	tal Interf.												
	% Nat. Q												
											-		
(C) = 1	% Nat. Q												
(D) = (A	.) > (C)	✓	\checkmark	√	√	1	√	√:	√	√	√	\checkmark	√
(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.

Appne	cation G-1/401 continued	Date: <u>August 31, 2012</u>
	Basis for impact evaluation:	
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	7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 -	
-		
b.	690-09-040 (5) (b) The notential to impair or d	letrimentally affect the public interest is to be determined by the Wa
	Rights Section.	the mentally affect the public interest is to be determined by the wa
	Rights Section.	
	If properly conditioned the surface water source	(s) can be adequately protected from interference, and/or ground water t
٠ ـــــــ	under this permit can be regulated if it is found to s	substantially interfere with surface water
	i. The permit should contain condition #6	(c)
	ii. The permit should contain special condition #4	dition(s) as indicated in "Pemarke" helaxy
	ii The perimit should contain special cont	anion(s) as indicated in Remarks below,
. SV	W / GW Remarks and Conditions	
-		
-		
Re	eferences Used: Local well logs: regional geologic	c maps; Geologic map of the Owyhee Region, Malheur County,
	regon, by Kittleman et al, 1967.	e maps, deologie map of the on the elegion, frameur country,
<u> </u>	Serving of anticommunitation of the 170/1	
	,	
Military and the same of the s		

D. <u>Y</u>	WELL CONSTRUCT	<u>ΓΙΟΝ, OAR 690-200</u>	
D1.	Well #:	Logid:	
D2.	a. review of tb. field inspecc. report of C	not meet current well construction standards based upon: the well log; ection by CWRE ecify)	
D3.	b. commingle c. permits the d. permits the	cruction deficiency: a a health threat under Division 200 rules; es water from more than one ground water reservoir; e loss of artesian head; e de-watering of one or more ground water reservoirs; ecify)	
D4.	THE WELL const.	ruction deficiency is described as follows:	
<i>D</i> (.	——————————————————————————————————————	raction 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. \(\sum \) I don't know if it met standards at the time of construction.	
D6.		rcement Section. I recommend withholding issuance of the permit until evidence of well repartment and approved by the Enforcement Section and the Ground Water Section.	construction
TH	IS SECTION TO BE	COMPLETED BY ENFORCEMENT PERSONNEL	
D7.	☐ Well construction de	eficiency has been corrected by the following actions:	
			
	(Enforcement	out Cootion Circusture)	, 200
	(Emorceme	ent Section Signature)	
D8.	☐ Route to Water Ri	ights Section (attach well reconstruction logs to this page).	

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