PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

TO:	Water Rights Section					Date							
FROM:	I: Ground Water/Hydrology Section												
SUBJE	JBJECT: Application G- 17126						ewer's Name persedes rev	view of		Date of Re	.:(-)		
	~ **				an arm		_			Date of Re	view(s)		
OAR 69 welfare, to determ	00-310-13 safety ar nine whe	30 (1) To the sther the	The Depar th as descr e presump	ribed in ORS tion is establ	resume tha 537.525. D ished. OAR	<i>t a propose</i> Department 2 690-310-	ed groundwa staff review 140 allows t	ground wat he proposed	ensure the press er applications use be modified icies in place at	under OA d or cond	R 690-31 itioned to	10-140 meet	
A. GEN	ERAL IN	NFORM	IATION:	Applicant's	Name:	Mark and	l Yolonda B	rown	County: G	rant			
A1.	Applica	nt(s) see	ek(s) 0.1	1 87 cfs f	rom <u>one</u>	_well(s) in	·	-				_Basin,	
						subb	oasin Qua	ad Map: D a	ayville				
A2. A3.	Propose Well and	d use: _ d aquife	Irr er data (at	rigation, 14.9 tach and nu	99 acres mber logs			March 1-C rk proposed	October 31 I wells as such	under lo	gid):		
Well	Logi	id	Applicant		ed Aquifer*	Propose		Location			and bounds		
1	GRAN 5		Well # 1	_	drock	Rate(cfs 0.187		/R-S QQ-Q) 26E-34 SE-N I			fr NW cor fr E ¼ coi		
3													
4													
5	CDD	D 1 1											
* Alluviu	ım, 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	2340	142	64	3/16/07	620	0-179	0-179	160-620	530-580	65	n/a	A	
Use data	from appl	ication f	or propose	d wells.									
A4.	Comme	ents:	The well	cases and se	als off a sh	allower w	ater-bearin	g zone that	reportedly has	low pro	duction.		
A5. 🛛	manager	ment of			ically conne				o the developmed are not, active				
A6. 🗌	Name of	f admin	istrative a	rea:					er limited by an	administ	rative res	triction.	
	Comme	nts:											

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	sed upon available data, I have determined that ground water* for the proposed use:
a.	is over appropriated, is not over appropriated, or is 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.	\square will not or \square 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)
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;
с.	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):
	semor water rights, not wramin the capacity of the resource, etc).
leve	ound water availability remarks: The nearby observation well (GRAN214) is displaying relatively stable water
leve	ound water availability remarks: <u>The nearby observation well (GRAN214) is displaying relatively stable water</u> els. It appears to develop the same formation, but the water-bearing zone likely correlates with the shallower zone
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Date: January 14, 2009

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				er or Propose	C	onfine	J	Unconfined				
1		"Fract	"Fractured ashy clay", likely Mascall Fm. (Tm)					\boxtimes				
								Ħ			一	
								Ħ			П	
<u> </u>	Į.											
Basis fo	r aqu	ifer confii	ement ev	aluation:	The water le	evel is well a	bove the de	oth wh	ere it	was encount	tered.	
horizoi assume	ntal dis	stance less	than ¼ m cally conn	ile from a su	rface water s	source that p	oduce water	from a	an unc	es. All wells onfined aqui ams located b	fer shall be	
											Potentia	al f
337 11	SW		C 337	N	GW	SW	Distance	j	Hydrau	lically	Subst. In	
Well	#	5	urface Wat	er Name	Elev	Elev	(ft)		Conne		Assum	
					ft msl	ft msl	(==)	YES NO ASSUMED		ASSUMED	YES NO	
1	1		John Day	River	2276	2290	2050		\boxtimes			
1	2		Battle C	reek	2276	2330	1500		\boxtimes			
1	3	1	U nnamed S	Stream	2276	2340	25		\boxtimes			
	_				+ +		1	_=				
Basis fo	or aqu	ifer hydra	ulic conn	ection evalu	ation: Th	e water-bea	ring zone de	velope	d is w	ell below the	e local stre	an
reaches	i.									rell below the		
Water A 90-09- connect hat are Compar	Availa 040 (4 ted and perting the r	ability Bas 1): Evalua 1) d less that ent to that requested r	in the wel tion of str 1 mile fr surface wa	eam impacts om a surface ater source, at the 1% of 8 r each well.	for each we water source and not lowe 10% natural Any checked	211 JOHN Ill that has be be. Limit evaluate r SW source flow for the	DAY R> C en determine uation to ins s to which th pertinent Wa cates the we	OLUM ed or as stream i e stream ater Av ill is ass	IBIA ssumed rights m und ailabil sumed		aulically m stream flatistributar (AB). If Q potential to	ow y. is
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C. GROUND WATER/SURFACE WATER CONSIDERATIONS, OAR 690-09-040

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 >	Instream Water	Instream Water	Qw > 1%	80% Natural	Qw > 1% of 80%	Interference	Potential for Subst.
#	Ė	5 cfs?	Right ID	Right Q (cfs)	ISWR?	Flow (cfs)	Natural Flow?	@ 30 days (%)	Interfer. Assumed?

Comments:	This sectrion 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-Di	stributed V	Vells											
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	ence CFS												
D: 4 .*I	-4 - 3 337 - 11												
Well	uted Wells SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
WCII	3 ** "	%	%	%	%	%	%	% %	%	%	%	%	%
Well Q	as CFS	7.0	,,,	, ,	, •	, 0	70	7.0	,,	70	, 0	70	,,,
	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS	,,,		, ,			, ,	,,		,,	,,,	,,,	
	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
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Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	ence CFS												
(A) = To	otal Interf.												
· ·	% Nat. Q												
	% Nat. Q												
(0) 1													
$(\mathbf{D}) = (A$	A) > (C)	✓	✓	✓	✓	√	✓	✓	✓	✓	✓	✓	\checkmark
$(\mathbf{E}) = (\mathbf{A}$	/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:

ication: G- 1/126 continued	Date: <u>January 14, 2009</u>
-	
,	
690-09-040 (5) (b) The potential to impair or detrimentally affect Rights Section.	the public interest is to be determined by the Wa
 ✓ If properly conditioned, the surface water source(s) can be adequately under this permit can be regulated if it is found to substantially interfer i. ☐ The permit should contain condition #(s) 7J 	y protected from interference, and/or ground water re with surface water:
ii. The permit should contain special condition(s) as indicated	d in "Remarks" below:
L k	
References Used: <u>Nearby well logs; nearby reviews; Geologic Map of</u> Brown and Thayer, 1966.	f the Canyon City Quadrangle (Map I-447), by

D1.	Well #: _	11	Logid: GRAN 50867	
D2.	a.	review of the we field inspection b report of CWRE	neet current well construction standards based upon: ell log; by	
D3.	THE WI a.	ELL constructio constitutes a heal commingles wate permits the loss of permits the de-water		
D4.	THE WI	ELL constructio	on deficiency is described as follows:	
	-			
D5.	THE WI	ELL a. b.	was, or was not constructed according to the standards in effect at the time of original construction or most recent modification. I don't know if it met standards at the time of construction.	
D6. [ent Section. I recommend withholding issuance of the permit until evidence of well reconstructed and approved by the Enforcement Section and the Ground Water Section.	tion
THIS	SECTIO	N TO BE COM	MPLETED BY ENFORCEMENT PERSONNEL	
_			ncy has been corrected by the following actions:	
			200	
		(Enforcement Sec	ection Signature), 200_	

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Application: G- 17126 continued Date: January 14, 2009

JOHN DAY R> COLUMBIA R- AB N FK JOHN DAY R JOHN DAY BASIN

Water Availability as of 1/12/2009

Watershed ID #: 211 Exceedance Level:

Date: 1/12/2009 Time: 8:22 PM

 Water Availability Calculation
 Consumptive Uses and Storages
 Instream Requirements
 Reservations

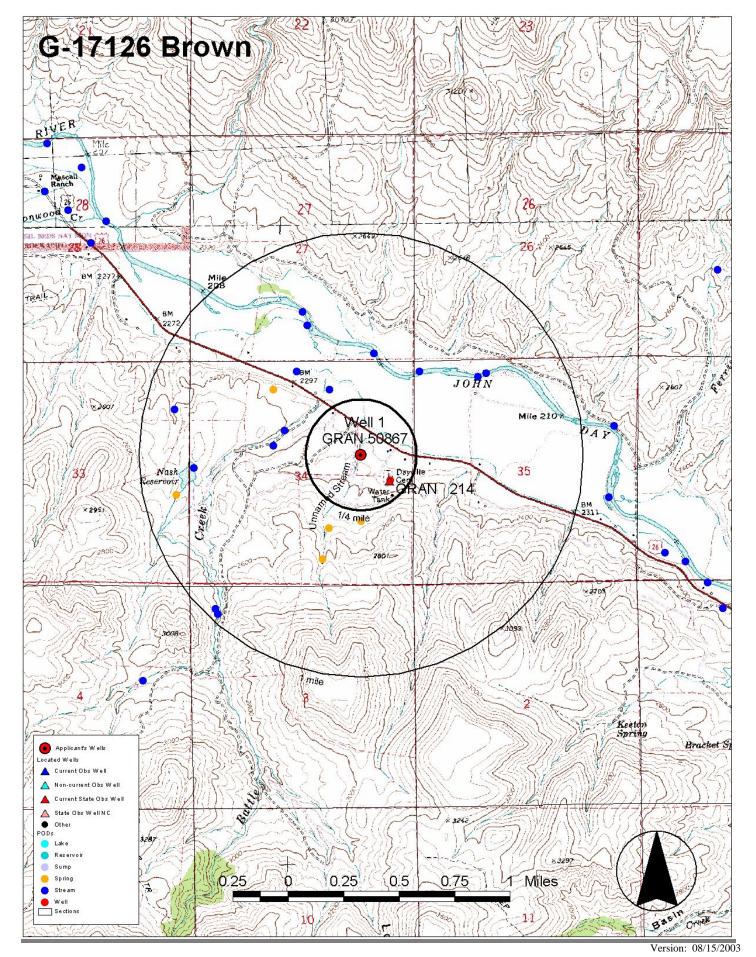
 Water Rights
 Watershed Characteristics

Water Availability Calculation

Monthly Streamflows in Cubic Feet per Second Storage at 50% Exceedance in Acre-Feet

Month	Natural Stream Flow	Consumptive Use and Storage		Reserved Stream Flow	Instream Requirement	Net Water Available
Jan	263.00	10.70	252.00	9.52	120.00	123.00
Feb	388.00	13.40	375.00	16.40	160.00	198.00
Mar	546.00	16.00	530.00	24.50	160.00	345.00
Apr	813.00	54.30	759.00	35.60	160.00	563.00
May	717.00	96.70	620.00	29.50	160.00	431.00
Jun	387.00	122.00	265.00	12.90	120.00	132.00
Jul	181.00	168.00	13.20	0.00	60.00	-46.80
Aug	118.00	131.00	-13.50	0.00	60.00	-73.50
Sep	95.60	89.60	5.97	0.00	60.00	-54.00
Oct	154.00	38.00	116.00	0.00	60.00	56.00
Nov	206.00	8.89	197.00	0.00	120.00	77.10
Dec	240.00	9.75	230.00	6.69	120.00	104.00
Storage Acre- Feet at 50%	403,000.00	46,000.00	357,000.00	8,120.00	81,800.00	271,000.00

Date: January 14, 2009



Date: January 14, 2009

Well Location12,00\$26,00€34DAAOregon Water Resources Department Well Log IDGRAN214Oregon Water Resources Department State Observation Well Number144Well depth, in feet below land surface465Land surface elevation, in feet above mean sea level

