Water Right Conditions Tracking Slip

Groundwater/Hydrology Section

FILE ## 15951
ROUTED TO: WATER RICHTS
TOWNSHIP!
RANGE-SECTION: 35 5 1 W - 8
CONDITIONS ATTACHED? (yes [] no
REMARKS OR FURTHER INSTRUCTIONS:
Reviewer: IKG
Reviewer:

Water Resources Department

RECEIVED
JUN 0 9 2003

WATER RESOURCES DEPT. SALEM, OREGON

M	ЕМО							JUNE	5	, 20	0_3		
TO). O.	Aj	pplicati	on G	1595	51	_						
FF	ROM	G	w:	EVAN (Review	GAL ver's Name)	1	_						
SU	BJECT	Γ Sc	enic W	aterway	y Interf	erence	Evalua	ition					
	Ye No	Th	e source	e of app	ropriati	on is wi	thin or	above a	Scenic	Water	way		
	Yes No		e the Sc	eenic Wa	aterway	conditi	on (Co	ndition ?	7J).				
PRI	EPOND	FRAN	CE OE	FVIDE	NCE EI	NIDINIC	. (Cl	ck box	1				
Þ	4	At evic surf	this tim dence to face wa	ne the I hat the ter flow	Departm propos	ent is used use	inable of gro mainta	to find	that the	ere is a	prepor surably	e) Iderance reduce of a scen	tha
Exe	rcise of	this per by the fo	rmit is c	alculate	ed to rec	luce mo	nthly f	lows in				checked) Scer e by whi	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	

TO:	O: Water Rights Section					JUNE.	5	, 2	$200 \ge $					
FROM	[:	Groun	d Water	/Hydrology	Section			ALL						
SUBJE	ECT:	Applic	cation G	1595			iewer's Name persedes re	eview of	NIA			. *		
							1		(Date of Re	eview(s)			
OAR 6 welfare to deter	90-310-1 , safety a mine wh sumption	and health ether the criteria.	he Depar h as descr presump This rev	ribed in ORS tion is establiew is based	oresume the 5537.525. ished. OA upon ava	nat a propos Departmen R 690-310- nilable infor Name: 12	t staff review 140 allows t rmation and	w ground was the proposed agency po	ter applications use be modifie	under OA ed or cond at the time	AR 690-3 itioned to	10-140 o meet uation.		
711.	пррпс	mi(s) see	K(3) 0.0	cis no	111	subb			HADY CO.	JE		Basin,		
A2.	Propose	ed use: _	IRRIG	ATION					7 000		1			
A3.	Well ar	nd aquifer	r data (at	tach and nu	mber logs	for existin	ig wells; ma	rk propose	d wells as such	under lo	gid):			
Well	Logid Proposed Aquifer*			Propose Rate(cfs		Location R-S QQ-Q)	L			er logid): bounds, example: r NW cor S 36 cor S \$\sigma 8 Vell Draw Tes field Down Typ All CK 5555 A classification and/or by this application.				
1 2	JACK.	ACK 30088 BEDROCK		0.045		W-8ca	1346		r Sweer Sp8					
3														
5					-	-								
* Alluvii	ım, CRB,	Bedrock	,						,					
Well	Well Elev ft msl	First Water ft bls	SWL ft bls	SWL Date	Well Depth (ft)	Seal Interval	Casing Intervals	Liner Intervals	Perforations Or Screens	Well Yield		Test Type		
	1390	290	55	5/15/90	340	0-24'	+1-99'	0-340'	280-3401	45	=	AIR		
1			31	2/13/03	DATA	FROM A	Q.TEST O	N WEATH	IERS WELL	JACK 5.	2002	X		
	,													
Use data	from app	lication fo	r propose	d wells.			L	L						
A4.	Comme	nts: 🗡	SEE FE	PRERO G	-EOLOGIC	REPORT	TIN SUP	PORT OF	APPLICAT	ion G	157	93		
	•											-		

				***************************************				***************************************						
A5. [(Not all	basın ru	les contai	in such provi	sions.)	ected to sur	Basin ru	lles relative	to the developm	nent, class	ification	and/or ation.		
	Comme	nts:		0-515-0										
A6. 🗌	Name o	i adminis	strative ar	,, , .rea:,						a administ	rative re	striction.		

		-		
Т		4 1	-	_
()	u	10		5

2003

B. GROUND WATER AVAILABILITY CONSIDERATIONS, OAR 690-310-130 (b) (c)

B1.	Bas	sed 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;
	b.	will not or will likely be available in the amounts requested without injury to prior ground water rights;
	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) 78, 7F, 7J ii. The permit should be conditioned as indicated in item 2 below. The permit should contain special condition(s) as indicated in item 3 below;
B2.	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):
B3.	Gro	und water availability remarks: * Require the permittee to install and maintain a properly functioning, totalizing flow meter.
		1 1 1 2 2 3 1
		V9 .
		· ·
	-	

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 BEDROCK		Z.	
Basis for aquifer confinement water was 290 f	ent evaluation: Aquifer locally should it, at which point the static water	be fairly confined. De	1/2 to best 55 ft, a 235
rise.	•		

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.

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	ROGUE RIVER	1359	1295	2100		
				747			
			-				

Basis for aquifer hydraulic connection evaluation: Bedrock cooler from site to river is "continuous"
Basis for aquifer hydraulic connection evaluation: Bedrock geology from site to river is "continuous" on geol, maps. Roque River is considered a regional grand water discharge point. Static water level in well is ~ 60 feet higher than over stage.
Static water level in well is ~ Go feet higher than over stage.

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 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. If Q is not distributed by well, use full rate for each well. If modeled, include description and model parameters in Comments (C3b). Any checked box indicates the well is assumed to have the potential to cause substantial interference with surface water.

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?
	1			59816	1,000		1020		10%×	
		<u> </u>	<u> </u>							

С3ь.	690-09-040 (4): Evaluation of stream impacts by total appropriation for all wells determined or ass	umed to be	hydraulically
	connected and less than 1 mile from a surface water source. Complete only if Q is distributed am	ong wells. (Otherwise same
	evaluation and limitations apply as in C3a above		

 OH WHE HIMITOR	T P D							
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: ** Simple analytical results with low K and high 5 estimates suggest 10% impact after 30 days pumping. Not all analytical model assumptions met however K & 5 values adjusted accordingly to make a more conservative estimate of impact. Initial T & estimates from Blanday ag. test analysis (G-15943).

C4a. 690-09-040 (5): Estimated impacts on surface water sources as percent or qualitative fraction* of proposed pumping rate. Limit evaluation to one year of pumping.

Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	1	L	L	L	VL	4	I	I	I	I	I	I	I
	·												
								,					
										Y			
	L = Verv												

*VL = Very Low (<5%), L = Low (5-25%), I = Intermediate (25-75%), H = High (>75%).

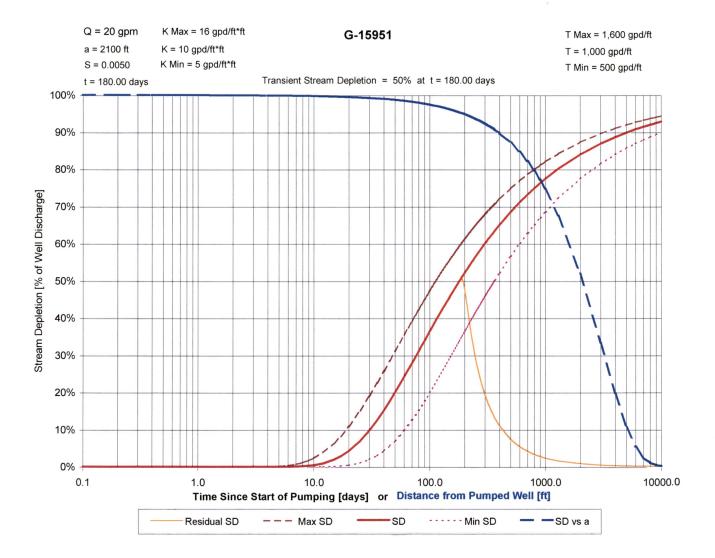
bed abovening ag test data fro athers (adjacent to loer)	Blandan (G-15943). However, ag. test conducted on weathers (ad suggests more than one who in area
draulic connection that would likely reduce	690-09-040 (5): Evaluation of paragraphs under subsection 5. A determination of ∑ Low d indirect connection between surface water and ground water; ∑ High denotes hydraulic connections water availability in the first year of pumping. Do not equate "Low" and "High" between
is Low or High	(a) The potential to reduce surface water availability in
ring or interflow zones of som	Basis: Roque River is regional gw discharge location. Bedrock to the rappears continuous on geol. map (GMS-52, 1992 Do yielding wells in area suggest good degree of fracturing or in extent, static in well ~ 60 ft hisher than nearby niver stage
riverstage.	restent. Static in well ~ 60 ft higher than nearby riverstage

(b) The potential to impair or detrimentally affect the public interest is to be determined by the Water Rights Section.

icatior	G-1575 (continued		JUNE J	, 200 <u> </u>		
600	09-040 (5): Evaluation of paragraphs	a under subsection 5 continued				
090-	09-040 (5):. Evaluation of paragraphs	s under subsection 5 continued.				
(c)	(c) The percentage of appropriation in the first year of use that will be at the expense of surface water 50%					
	Basis: _S le a -alytical made	eling as described above.				
				-		
	_					
		mmediate (within one year), or delay				
	Basis: As abr. Well will likely	capture ground water that wi	Il evertually discharge	to		
	the river.		/			
				-		
(a) '	The notantial for aumulative advance in	Ahil distribution CDO				
(e)	The potential for cumulative adverse in	are or are not availal	As and summary of permitted rig	ghts		
1	Immosted atmosm					
1	Impacted stream	Impacted basin or sub-basin	Existing Ground Water Rig	thts (c		
			,			
L						
	Comments:					
	Comments.					
int wit	the well is not reconstructed, it will in face water from interference. If the groerference with surface water, I recomm the the Department and approved by the	nterfere with surface water. Well reconstru- und water use under this permit is found to end withholding issuance of the permit unt Ground Water Section.:	have the potential for substantial evidence of well reconstruction	ial		
-						
_						
	م المحمد على ما	11 1 // / 1 .	1 5 1.			
w / G	W Remarks Termittee 5	flow meter.	referly tunctioning			
	101411 1979	- low metch :				

Version: 04/01/2003

Applica	tion G-1595 continu	ed	JUNE S	, 200 3
D. <u>WE</u>	LL CONSTRUCTION, OAR 690-	200		
D1.	Well #:	Logid:		
D2.	 a. review of the well log; b. field inspection by c. report of CWRE 	ell construction standards based upon:		
D3.	e. permis the loss of artesian nea	han one ground water reservoir; \(\begin{aligned} \big \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	ĺ	
D4.	THE WELL construction deficiency i	s deseribed as follows:		
		described as follows:		
D5.	original con	was not constructed according to the standstruction or most recent modification. w if it met standards at the time of constru		the time of
D6.	Route to the Enforcement Section. I	recommend withholding issuance of the ped by the Enforcement Section and the Gr	ermit until evide	nce of well reconstruction tion.
THIS	ECTION TO BE COMPLETED F	BY ENFORCEMENT PERSONNEI	L	
D7.	Well construction deficiency has been co	orrected by the following actions:	1	
	-			
				
		·		
	(Enforcement Section Signature			, 200
D8.	Route to Water Rights Section (attack	h well reconstruction logs to this page).		,



G-15943 Blandau Aquifer Test Data Summary

	Transmissivity	Transmissivity	i !	
	(ft²/min)	(ft²/min)	Storativity	Storativity
Method	JACK 3509	JACK 3427	JACK 3509	JACK 3427
Theis, confined	0.4715	0.4261	0.0021	0.0004
Cooper-Jacob, confined	0.5818	0.5318	0.0015	0.0003
Papadopulos-Cooper, confined	0.4666	0.4062	0.0021	0.0004
Hantush-Jacob, leaky	0.4714	0.4262	0.0021	0.0004
Theis, unconfined	0.4741	0.4285	0.0021	0.0004
Cooper-Jacob, unconfined	0.5433	0.5398	0.0016	0.0003
Average Value	0.5015	0.4598	0.0019	0.0004
Median Value	0.4728	0.4274	0.0021	0.0004
Average Value (gpd/ft)	5402	4953		
Median Value (gpd/ft)	5093	4604		

