OREGON WATER RESOURCES DEPARTMENT INTEROFFICE MEMO

To:

Ground Water Files/Kerry Lefever

Date: June 30, 2003

From:

Michael J. Zwart

Subject:

File G-15927

I have reviewed the four files cited in your memo (G-2948, G-4515, G-5619 and G-6753). The wells authorized under file G-2948 are shallow sump wells and therefore produce from a different aquifer from the wells in this application. However, it appears very likely that the wells authorized under the other permits are the same wells as are being applied for here. The abstract of permits found in those files describe the wells as being 350 feet deep (files G-4515 and G-5619) and 218 feet deep (file G-6753) and at or near the same locations as the current application. I conclude that these are likely the same wells, and if not, must produce from the same aquifer as those proposed in this application.

INTEROFFICE MEMORANDUM

Water Rights Section

TO:

Mike Zwart

June 26, 2003

FROM:

Kerry Lefever

RE:

GW File Number G-15927 Frank Newell

Application G-15927 proposes to use groundwater from a well for irrigation for a portion of the same lands as described in four Certificates: Certificate 34934 (Application G-2948, Permit G-2740), Certificate 43866 (Application G-4515, Permit G-4254), Certificate 42863 (Application G-5619, Permit G-5022), and Certificate 48909 (Application G-6753, Permit G-6274).

Please review Application G-15927 and determine if the well proposed in this application will produce water from the same aguifer as the wells listed under the four certificates referenced above.

Please route to Kerry Lefever in water rights when finished.

Thanks.

G-2948: 4 sump wells G.5619 > G-4515: 1 well SE-NE 750' Same ag as Well #1

TO:		Water	Rights	Section						Ma	1 19	, 2	200 3
FROM	1:	Groun	d Water	/Hydrology	Section _	Micha	el Zu	NOV	{	9			
SUBJE	ECT:	Applic	ation G	-15927		Rev St	viewer's Name upersedes re	eview	v of 🗸	V/A			
							•				Date of Re	eview(s)	
OAR 6 welfare to deter the pres	90-310-: c, safety c mine wh sumption	130 (1) The state of the series of the serie	he Depai nas desc presump This rev	<i>ribed in ORS</i> ption is establ	oresume the 5 537.525. lished. OA upon ava	at a propo. Departmer R 690-310 ilable info	sed groundw nt staff review 1-140 allows rmation and	w gro the po d age:	und war roposed ncy pol	ensure the prester applications use be modified icies in place a	under OA	AR 690-3	310-140
A1.													
A1.	Applica	ant(s) seel	د ما د ما	cts tro	m <u>L</u>	well	(s) in the	111	, ,	De Degner C	schnt	e 2	_ Basin,
A2.	Propos	ed use: 🛴	Lrriga	hun (164	Jeu joyn	nuy) Sea	sonality: <u>/</u>	lpri.	1/ -	October.	<u>7 /</u>		
A3.	Well ar	nd aquifer	data (at	tach and nu	mber logs	for existi	ng wells; ma	ırk pı	roposed	l wells as such	under lo	gid):	
Well	Le	ogid		roposed .quifer*	Proposed Rate(cfs		Location		Lo	cation, metes a			ple:
1	WASC		10 W/1 C	164. boulders	1. 0	85/16	/R-S QQ-Q) E-20 SE-,	NE	3160 A	2250' N, 1200 / 180 W: C	SE con	Sec. 20	
2	WASC	7893	1	ry olite	1.0	E3/16E	- 20 SE -	SE	820 V	1, 360 W. R	SE cor	· sec.	20
4							- 100						
5 * Alłuvi	um. CRB.	, Bedrock]					
													
Well	Well Elev ft msl	First Water ft bls	SWL ft bls	SWL Date	Well Depth (ft)	Seal Interval	Casing Intervals	F	iner ervals	Perforations Or Screens	Well Yield	Draw Down	Test Type
1	2218	est. 154	0	6/2/71	350	0-20	0-50	-	-		550	18	Pamp
	2275		71	12/13/73	2/8	0-20	0-40	 -			50	2	Bail
						<u> </u>		-					
Use data		ents: *			3891	recondi	tioned: W,	ASC	3892				
·	····				_								
		-											
A5. 🗍	manage (Not all	basın rule	round w	ater hydrauli in such provi Deschates	cally conn sions.)	ected to su	rface water	aı	re, or 🗔	o the developm	ated by tl	his applic	cation.
A6. 🗖	Traffic O	r admining	uauve ai	ea:						r limited by an		ative res	triction.

Applie	ation	G- 15927 continued	May 19, 2003
B. <u>GR</u>	OUN.	ND WATER AVAILABILITY CONSIDERATIONS, OAR 690-310-130 (b	<u>)) (c)</u>
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 period of the proposed use;	to be over-appropriated during any
	b.	will not or will likely be available in the amounts requested without injury t	o prior ground water rights;
	c.	will not or will likely to be available within the capacity of the ground water	er resource; or
	d.	will, if properly conditioned, avoid injury to existing ground water rights or to i. The permit should contain condition #(s) 73 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 be	
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 water reservoir between approximately ft. and ft. below	y land surface;
	d.	Well reconstruction is necessary to accomplish one or more of the above condito occur with this use and without reconstructing are cited below. Without reconstruction is filed withholding issuance of the permit until evidence of well reconstruction is filed by the Ground Water Section. Describe injury—as related to water availability—that is likely to occur without we senior water rights, not within the capacity of the resource, etc):	astruction, I recommend with the Department and approved
B3.	Grou	und water availability remarks:	
	_		
	_		

Application	G-	159	つ	7
ADDITUTE	U-	- / Y	_	7

continued

M	w	1	1.	200	3

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	
	sand boulders shale & clay	Ta Ta		
2	physlite			
Basis fo	r aquifer confinement evaluation: B. th wells appear t	o Levelop complex.	y bedded sediments,	
ישעי (פ	aniclastic rocks and builtie riche of John	Day Formetras 5	tatic with in both	
well.		e double out itself		

Afen nearby wells are flowing artesian.

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 msi	Distance (ft)	Hydraulically Connected? YES NO ASSUMED	Potential for Subst. Interfer. Assumed? YES NO
<u> </u>	_/_	Antelope Creek	2218	2215	100		
	2_	unnamed trib > Antelept Ch.	2204	2215	750		
	/	Antelope Creek	2218	2205	1800		V
2	2_	connamed frib. & Artelope Che	2204	2240	250		
					_		
					i i		
					· ·		

Basis for aquifer hydraulic connection evaluation: Hydraulic connection appears likely at a more distant downstream reach of Antelope Creek beyond one mile from the subject wells. The unnamed tributary does not breach the confining bed described at either well.

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 < 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: 04/01/2003

	SW		Qw>	in C3a ab Instream Water	n Ins	stream Vater	Qw>		0% tural	Qw > 19		erference	Pote
	#		5 cfs?	Right ID	Ri	ght Q (cfs)	1% ISWR?	F	turai low :fs)	of 80% Natural Flow?	l @	30 days (%)	for S Inte Assu
-													
Commen	ıts:												
									-	-			
590-09-0	140 (5):	Estimate	ed impac	ts on surfa	ce wate	er conrec	e ac narce	nt or o	alitativ	fraction	* of pro-	nocad mu	
Limit ev	valuation	to one y	ear of pu	imping.	icc wate		s as perce	ik or qu	iaiiiaiiv	e maction	or pro	poseu pui	mping ra
Well	SW#	Jan VL	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec VL
7	2	VL											VL
2	1 2	VL-	,									1	VL
		-	 							ļ			
					 							<u> </u>	
*\	/L = Verv	Low (<5	/%). L = L	ow (5-25%), [= In	termediat	e (25-75%	H = H	eh (>75	%).		<u> </u>	
											water.	Leeven	~ Taki
there	efire	Will h	nue fre	12 is	ho A	mpacti	asa	resul	+ of	pumpi	ings		3
SW #	+1 do	es no	st bri	each th	e co	nfinir	9 20r		E +1	المسلم	agui	to- 1	penet
	within			0 (47	re w	ells.	There	fore	61	a resh	ul+ 01	the	greate
	1 TANCE	whe	e in	-pacts	mey	000	wy +	hese'	impu	its w	ilt al	si be	212

Application	on G- 15927 continued	_	May 19,2003
С4ь. 690	-09-040 (5):. Evaluation of paragraphs u	nder subsection 5 continued.	·
(c)	The percentage of appropriation in the fire Basis:		
(d)	The timing of interference will be important i		
(e)	The potential for cumulative adverse impa	ects: A graphical distribution of PO	As and summary of permitted rights ble at this time of review.
	Impacted stream	Impacted basin or sub-basin	Existing Ground Water Rights (cfs)
	Comments:		
uı	properly conditioned, the surface water some this permit can be regulated if it is four i. The permit should contain cond ii. The permit should contain specifii. The permit should be conditioned the well is not reconstructed, it will interpret the well is not reconstructed.	nd to substantially interfere with surfaction #(s) 713 7 J al condition(s) as indicated in "Remarked as indicated in item 6 below;	se water: ;; ss" below;
su in	orface water from interference. If the groun terference with surface water, I recommend that the Department and approved by the Ground that the Department and the Depa	d water use under this permit is found to d withholding issuance of the permit up	to have the potential for substantial
T	he well should be reconstructed as follow	/s:	
_			
_			
	CITY D		
C/. SW / C	GW Remarks	<u> </u>	
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App	lica	tion G- <u>15927</u>	continued			_		May	19,2003
D.]	WE	LL CONSTRUCTION, OA	R 690-200						
D1.		Well #:	Logid:	Wase	3890	Wase	3893		
D2.		THE WELL does not meet cu a. review of the well log; b. field inspection by c. report of CWRE d. other: (specify)	rrent well constru	iction stane	dards base	d upon:			
D3.		THE WELL construction defia. constitutes a health thr b. commingles water from c. permits the loss of arte d. permits the de-watering e. other: (specify)	eat under Division n more than one gr sian head; g of one or more g	ound water	r reservoirs				
D4.		THE WELL construction defi	ciency is describe	d as follow	s:				
				100					
D5.		THE WELL a. was	s, or was not co	nstructed a or most rece	ccording to nt modifica	the standa	ırds in effec	t at the time o	ſ
		b, 🗹 I de	on't know if it met	standards a	t the time o	f construc	ion.		
D6.		Route to the Enforcement Sec is filed with the Department and	ction. I recommen	d withholdi	ng issuance	e of the pe	rmit until ev	idence of we	l reconstruction
TH	IS S	ECTION TO BE COMPLE	TED BY ENFO	RCEMEN	T PERS	ONNEL			
D7.		Well construction deficiency ha	s been corrected by	y the follow	ing actions	:			
									, 200 .
		(Enforcement Section S	Signature)				-	-	
D8.		Route to Water Rights Section	n (attach well reco	onstruction	logs to thi	is page).			

Water Resources Department MEMO Application G-15927 TO GW: Michael Zwart
(Reviewer's Name) FROM SUBJECT Scenic Waterway Interference Evaluation The source of appropriation is within or above a Scenic Waterway. Use the Scenic Waterway condition (Condition 7J). PREPONDERANCE OF EVIDENCE FINDING: (Check box only if statement is true) At this time the Department is unable to find that there is a preponderance of evidence that the proposed use of ground water will measurably reduce the surface water flows necessary to maintain the free-flowing character of a scenic waterway in quantities necessary for recreation, fish and wildlife. FLOW REDUCTION: (To be filled out only if Preponderance of Evidence box is not checked) Exercise of this permit is calculated to reduce monthly flows in Scenic Waterway by the following amounts expressed as a proportion of the consumptive use by which surface water flow is reduced. N ov Dec Jul Aug Sep Oc t Feb Mar May Jun Jan Apr

t h e Wells vicinity of application G i n 15927 Well(s) identified in this 1/4-1/4 section from OWRD's well log database within 1 mi, radius of application well(s) Conditioned, permitted well(s) in this 1/4-1/4 section within 5 mi. radius of application well(s) Application well(s) in this 1/4-1/4 section Critical GW Area Well(s) identified in this section from OWRD's well log database within 1 mi. radius of application well(s) Regulated GW Area Permitted well(s) in this 1/4-1/4 section within 1 mi, radius of application well(s) OWRD Observation well and well-id within 5 mi, radius of application well(s) 7 S 31 31 polelage freely 8 5 -Eold Ca King 4 Rull Cooper stellage Creek Sand Hollan 51 Jup 520 Secions Com Bax Creek 1 6 Electrice 7 E 9 S

WELL LOGS WITHIN 1 MILE OF APPLICATION G 15927

ABANDON: RECONDITIONED: REPAIRED: CONVERSION:	0 2 0 0	
DEEPENINGS:	6	
NEW CONSTRUCT:	21	
COMMUNITY USE: DOMESTIC USE:	0	
INDUSTRIAL USE:	0	
INJECTION USE:	0	
IRRIGATION USE:	23	
THERMAL USE:	0	
LIVESTOCK USE:	3	
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PERMITTED WELLS WITHIN 1 MILE OF APPLICATION G 15927

\$RECNO	APF	LICATION	PE	RMIT	CLAIM		LOC-QQ	USE_CODE
1	G	2948	G	2740		0	8.00S16.00E20SWNE	IS
1	G	2948	G	2740		0	8.00S16.00E20SWNE	IR
1	G	2948	G	2740		0	8.00S16.00E20SWNE	IR
1	G	2948	G	2740		0	8.00S16.00E20SWNE	IS
1	G	2948	G	2740		0	8.00S16.00E20SWNE	IR
1	G	2948	G	2740		0	8.00S16.00E20SWNE	IS
2	G	5175	G	4822		0	8.00S16.00E21SENW	IR
2	G	5695	G	5504		0	8.00S16.00E21SENW	IR
3	G	8687	G	9006		0	8.00516.00E19NESW	IR
4	G	2948	G	2740		0	8.00S16.00E20NWSE	IS
4	G	2948	G	2740		0	8.00S16.00E20NWSE	IR
5	G	6753	G	6274		0	8.00S16.00E20SESE	IS
5	G	6753	G	6274		0	8.00S16.00E20SESE	IR
6	G	10022	G	9591		0	8.00S16.00E30NENW	IS
7	G	7646	G	7148		0	8.00S16.00E29NENE	IR
	* *	******	***	*****	*****	****	************	

NO CONDITIONED WELLS WITHIN 1 MILE OF APPLICATION G 15927

APPLICATION G 15927 FALLS WITHIN THESE QUAD(S)

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