WATER RESOURCES DEPARTMENT

MEMO

Sept. 26, 20\$4

TO: Application G- 17903

FROM:

GW: Mihe Zwart (Reviewer's Name)

SUBJECT: Scenic Waterway Interference Evaluation



The source of appropriation is within or above a Scenic Waterway



Use the Scenic Waterway condition (Condition 7J)

_Per ORS 390.835, the Ground Water Section is **able** to calculate ground water interference with surface water that contributes to a Scenic Waterway. The calculated interference is distributed below.

_Per ORS 390.835, the Ground Water Section is unable to calculate ground water interference with surface water that contributes to a scenic waterway; therefore, the Department is unable to find that there is a preponderance of evidence that the proposed use will measurably reduce the surface water flows necessary to maintain the free-flowing character of a scenic waterway.

DISTRIBUTION OF INTERFERENCE

Calculate the percentage of consumptive use by month and fill in the table below. If interference cannot be calculated, per criteria in 390.835, do not fill in the table but check the "unable" option above, thus informing Water Rights that the Department is unable to make a Preponderance of Evidence finding.

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.

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
							}				

PUB	LIC INT	ERES	T REVIE	W FOR C	ROUND	WATER	R APPLI	CATIONS					
TO:		Wate	er Rights Se	ection				Dat	e <u>Se</u>	ptemb	<u>er 26, 2</u>	.014	
FROM	A :	Grou	ndwater Se	ection		Mike	Zwart						
SUBJ	ECT:	Appl	ication G	17903		Su	persedes	review of			Data d		
PUBI OAR welfar to dete the pro	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: Oregon Parks and Rec. Dept. County: Baker A1. Applicant(s) seek(s) 1.0 cfs from one well(s) in the Powder Basin,												
AI.		Burnt	River			subb	asin (Quad Map:U	nity/Un	ity Re	servoir		_ Basin,
A2. A3.	Propose Well an	ed use_ d aquif	Irr Fer data (att	igation, 12 ach and nu	.665 ac mber logs f	Seas for existin	onality: g wells; n	May 1 to nark proposed	October wells as	r 31 such u	ınder loş	gid):	
Well I	Logic Propos	i ed	Applicant' Well # 1	^S Propos	ed Aquifer* . Rocks*	Prop Rate	Location (T/R-S QQ 12S/37E- 28 S	cation Location, metes and bounds, e.g. S QQ-Q) 2250' N, 1200' E fr NW cor S 36 - 28 SE-NW 600' S, 400' E fr NW cor,			nds, e.g. cor S 36 cor,		
2 3 4										SE-NW quarter, S 28			
5 * Alluv	vium, CRB,	Bedroc	k										
Well	Well Elev ft msl 3862	First Water ft bls	f SWL ft bls	SWL Date	Well Depth (ft) 150	Seal Interval (ft)	Casing Intervals (ft)	Liner Intervals (ft)	Perfora Or Scr (ft)	tions eens	Well Yield (gpm)	Draw Down (ft)	Test Type
Use da	ta from app	lication	for proposed	wells.									
A4.	A4. Comments: <u>*The application proposes to develop basalt, but the only two local wells, BAKE 1455 and BAKE 1456,</u> <u>do not penetrate basalt. Based on the proposed well depth and these logs, I believe that the proposed well will develop</u> <u>sedimentary rocks, such as sandstone and/or shale, which are mapped as Tf on a regional geologic map (Brown and Thayer, 1966). **The proposed rate is far in excess of the customary rate for the acres to be irrigated and also in excess of what a 6-inch diameter well is likely able to produce. Proposed well construction is otherwise lacking.</u>												

A5. \square Provisions of the Powder Basin rules relative to the development, classification and/or management of ground water hydraulically connected to surface water \square are, or \square are not, activated by this application. (Not all basin rules contain such provisions.) Comments: _____

A6. Well(s) # _____, ____, ____, ____, ____, tap(s) an aquifer limited by an administrative restriction. Name of administrative area: ______ Comments:

B. GROUND WATER AVAILABILITY CONSIDERATIONS, OAR 690-310-130, 400-010, 410-0070

- B1. Based upon available data, I have determined that ground water* for the proposed use:
 - a. is over appropriated, is not over appropriated, or annot 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) _____
 - 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;
- 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;
 - 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. Ground water availability remarks: <u>The area is somewhat remote and there is little local groundwater development.</u> The proposed use is not significant and the resource will be able to support this use.

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	Likely sandstone and shale (Tf)		

Basis for aquifer confinement evaluation: <u>Review of well logs BAKE 1455 and BAKE 1456.</u>

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 ¹/₄ 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	Unity Reservoir	3800±	3820	500			
1	2	Burnt River (below reservoir)	3800±	3775	3000			

Basis for aquifer hydraulic connection evaluation: <u>Based on the likely head relationship, the aquifer may be recharged</u> by surface water at times when the reservoir is at or near its design elevation of 3820 feet. At lower elevations, groundwater will discharge to the reservoir and/or to the Burnt River. The local geology is somewhat complex and, due to faulting, sedimentary deposits are not mapped in the bed of the Burnt River below the reservoir. See comments at C6.

Water Availability Basin the well(s) are located within: <u>30920227, Burnt R > Snake R ab Big Cr.</u>

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 < ¼ 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?
		X								

Version: 07/26/2013

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 #	Q. 5 (w > 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-Di	istributed	Wells											
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfere	ence CFS												
Di-4-ih		2007 - PARK I-					1. 19 A.				(346) ·		1.
Wall	SW#	IS Ion	Eab	Mar	4.57	May	Iun	1.1	A .u.a	Sam	Oat	Nov	Daa
wen	5 ** #	Jan	100	Ivial	Api	wiay	Juii	Jui	Aug	Sep	001	NUV	Dec
Wall C	CES	%	%	%	%	%	%	%	%	%	%	%	%
Interfor	as CFS												
merrere	ence CF3		~		~	67				~		~	~
Well C	as CFS	%	%0	%0	%0	%0	%	%	%	%	%	%	%
Interfer	ance CES												
merren		04	07.	C.	67	07	67						67
Well C	as CFS	70	70	70	70	70			70	70	70		70
Interference CES						.							
interiere		01	0%	Ø.		07.	07.	07-	07.	σ.	07.	07.	07
Wall O	Las CES	-70	70	70	7/0	-710	70	70	70	70	- 70		%0
Interfer	as CFS												
Interfere		07			01	07							07
Well (as CES	- 70	-70			70		%0	%0	90	%0	%0	
Interfere	ence CES												
merrer		0%	0%	C/a	0%	0%	0%	0%	0%	07.	07.	07.	07.
Well O	as CES	70	70	10	70	70	70	70	70	70	70	-70	70
Interfere	ence CFS												
		A REPORT AND A REPORT OF					. Alexandra e					S	
(A) = To	tal Interf.												
(B) = 80	% Nat. Q												
(C) = 1	% Nat. Q												
	$\lambda > (0)$												
(D) = ($A_{\rm J} > (C)$	¥	¥ 	~ ~	¥	×	¥	*	~	4	×	¥´	
$(\mathbf{E}) = (\mathbf{A})$	/ B) X 100	%	%	%	%	%	%	%	%	%	%	%	%

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	Basis for impact evaluation:
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	690-09-040 (5) (b) The potential to impair or detrimentally affect the public interest is to be determined by the V
	Rights Section.
[If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or ground water under this permit can be regulated if it is found to substantially interfere with surface water:
	 i. The permit should contain condition #(s)
su up	face water from Unity Lake through an agreement with BLM. Use of surface water for irrigation will reportedly c on issuance of a groundwater permit.
Re	ferences Used: Local well logs; Geologic Map of the Canyon City Quadrangle, Northeastern Oregon, by Brown and
Re	ferences Used: <u>Local well logs; Geologic Map of the Canyon City Quadrangle, Northeastern Oregon, by Brown and</u> ayer, 1966, USGS Map I-447.
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D. WELL CONSTRUCTION, OAR 690-200

D4. D4. Route to the Well Construction and Compliance Section for a review of existing well construction.

Water Availability Tables

Bo Not State Well No/ 37 - 28 5 9 🖪 🛛 TER WELL DRILLERS REPORT ORIGINAL File Original, and Duplicate with the STATE ENGINEER, 5 1959 DEC 1 Fill In STATE OF OREGON State Permit No. SALEM. OREGON (10) WELL TESTS: (1) OWNER Name Was a pump test made? [] Yes [] No If yes, by whom? gal./min. with Yield: ft. draw down after hrs. Address ,, ., ,, .. ,, ., ** " (2) LOCATION OF WELL: Artesian flow g.p.m. P County Owner's num er, if any Shut-in pressure .. lbs, per square inch. R. F. D. or Street No. g.p. 1. with 200 ft. drawdown Temperature of water 58 Bearing and distance from section or subdivision comer Was a chemical analysis made? Was electric log made of well? [] Yes 200 6 HA (11) WELL LOG: Diameter of well, 6 inches. TYPE OF WORK-(check): 300 Total depth ft. Depth of completed well ft. 300 well 🗖 Abandon 📋 Reconditioning Deepening Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation. donment, describe material and procedure in Item 11. (5) EQUIPMENT: (4) PROPOSED USE (check): ft. to ft D 0 Rotary omestic 🔃 Industrial 🖂 Municipal 🗔 Cable igation 🔲 Test Well 🔲 Other Dug Well **CASING INSTALLED:** If gravel packed 50 Threaded 🗆 Welded 🗆 Gage or Wall Diameter of Bore from ft. to ft. FROM- ft. to 60 ft. 🔊 Diam. ,, ,1 ,, ,, ,, 3 ,, ,, .,, •• = ń ,, " ... **e**0 ,, ,, ... -80 0 ., 00 Size of gravel: Type and size of shoe or well ring Describe joint ., ,, (7) PERFORATIONS: Type of perforator used ... ---in., length, by in. ZE of perforations perf per foot No. of rows ,, ROM ft. to 12 13 ... ,, ,, ,, ,, ... ,, ... ,, ,, ,, · ** ,, ,, ., ,, ,, ... • ,, ,, ,, ,, ,, ,, ,, SCREENS: ,, Give Manufacturer's Name, Model No. and Size ,, ., ,, ,, (8) CONSTRUCTION: Was a surface sanitary seal provided?
Yes Vo To what depth ft. Were any strata sealed against pollution? I Yes I No Ground elevation at well site .. feet above mean sea level. If yes, note depth of strata Work started 3 O Completed 19.5 19,53 ft. FROM ft. to Well Driller's Statement: ,, ,, ... This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. AETHOD OF SEALING NAME, 9) WATER LEVELS: ft. Depth at which water was first found Address ft. Standing level before perforating ft. Driller's well number Standing level after perforating Log Accepted by: [Signed] Dated .. 19. [Signed] License No. Dated Owner

N.

FORM 8-125

COMMISSIONERS M. K. MCIVER, CHAIRMAN PORTLAND KENNETH N. FRIDLEY, MEMBER WASCO GLENN L. JACKSON, MEMBER MEDFORD

FLOYD QUERY, SECRETARY SALEM



7-28N

W. C. WILLIAMS STATE HIGHWAY ENGINEER FORREST COOPER DEPUTY STATE HWY. ENGR.

K,

LEGNARD I. LINDAS CHIEF COUNSEL

STATE OF OREGON STATE HIGHWAY DEPARTMENT SALEM

January 11, 1960

Mr. Lewis A. Stanley State Engineer 170 12th Street SE Salem, Oregon

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Dear Mr. Stanley:

The location well drilled for the Oregon State Highway Commission, Unity State Park in Baker County is 4700' N and 1965' E of the S.W. Corner, Section 28 Tl2 S, R37 E.

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This well was drilled by Holloway Drilling Co. of Ontario, Oregon during March of 1959.

Very truly yours,

C. H. Armstrong State Parks Superintendent

By

L. V. Koons Assistant State Parks Superintendent

LVK:jd Enc.

Bit and a construction of the server of protein the server set into SALEM. OREGON: TATE ENCINETE Permit No. SALEM. OREGON: SALEM. OREGON: (1) OWNER: SALEM. OREGON: Singer Structure of the server set in the server	NOTICE TO WATER WELL CONTRACTOR The original and first copy of this report are to be filed with the STATE OF	OREGON AFR 2 2 1975tate Well No.	1251	371	ba E-28
(1) OWNER: Name Oragion State	STATE ENGINEER, SALEM, OREGON 97316 (Please typ within 30 days from the date of well completion. (Do not write a	shove this line) SALEM, OREGON	fo		
Names Grag Con Sta 16. Park (Unitry) Addres & Roy Leand Lation / Saw Tell N. E. y. N. W. Bection 20 r. 125 g. 37E W.M. Now Well & Despating Constructions Reconditioning Constructions N. E. y. N. W. Bection 20 r. 125 g. 37E W.M. 12 barrow Well & Despating Constructions Reconditioning Constructions Abandon Constructions N. E. y. N. W. Bection 20 r. 125 g. 37E W.M. 20 TYPE OF WORK (check): Constructions Industrial Constructions N. E. y. N. W. Bection 20 r. 125 g. 37E W.M. 20 Type of WELL (D PROPOSED USE (check): Construction 2 r. 100 g. r. 100 g. r. 100 g. r. 100 g. 100 g. r.	(1) OWNER:	(10) LOCATION OF WELL:			
Addres & Roy Learnel stor Star. UL Examal: Leand, Hunkington (2) TYPE OF WORK (check): New Woll & Descenting Astandon It is which water wat first found It is which water water It is which water It is which water water It is which water water It is which water water It is which water It is which water water It is which water It i	Name Oregon State Park (Unity)	countyBaker Driller's well n	umber		
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Bits treet Original Domestic Industrial Municipal Dir Direction Treated Treated Treated Treated YBTX CASING INSTALLED: Threaded Weided IZ C Diam. from ft to ft disee Sec. Direction Caster Sec. Diam. from ft to ft disee Sec. Direction Caster Sec. Direction Direction<	(3) TYPE OF WELL: (4) PROPOSED USE (check):	Depth at which water was first found	·CII. 7	۲	ft.
Due Dates PB TK Due Partial Partial Dates PB TK CASING INSTALLED: Threaded T Wided Z C	Rotary Driven D Domestic D Industrial D Municipal	Static level 60 ft. below land	surface. Da	te L/	15/74
CASING INSTALLED: Threaded [] wided IX 1	Cable K Jetted Dug Bored I Irrigation Test Well Other K	Artesian pressure lbs. per squar	re inch. Da	te	Ŧ
□ Displic drilles Dip drip drilles Dip drilles	CASING INSTALLED: Threaded D Welded X	(12) WELL LOG: Diameter of well	below casing	6	
	Diam. from ft. to ft. Gage 250	Depth drilled 140 ft. Depth of compl	eted well	140) <u>ft.</u>
PERFORATIONS: Perforated? Y to goto size of perforation used in. by in. size of perforations in. by in. perforations from ft. to ft. (7) SCREENS: Well screen installed? Yes gravel Manufacturers Stot atse Set from ft. ftm gal/min. with ft. to ft. ftm gal/min. with ft. to encountered ft. ftmetare of water 50 begth artestant flow encountered ft. ft. ftmetare of water 50 begth artestant flow encountered ft. ftmetare of water 50 begth artestant flow encountered ft. ftmetare of water of waten fib encol	" Diam. from ft to the Gage	Formation: Describe color, texture, grain size	and structur	e of ma	aterials;
PERFORATIONS: Perforated II Vie grove Spe of perforation used in. by in.		and show thickness and nature of each stratus with at least one entry for each change of forma	m and aqui tion. Report	fer pen each ch	etrated, <i>lange in</i>
Size of perforator used Image: Size of perforations from Image: Size of S	PERFORATIONS: Perforated? [Yes gave.	position of Static Water Level and indicate prin	cipal water-	bearing	strata.
Size of perforations in. by in. Gravely Clay 0 10 member of solar from ft. to ft.	ype of perforator used	MATERIAL	From	То	SWL
	Size of perforations in. by in.	Gravely Clay	0	10	·
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performations from ft to ft (7) SCREENS: Well screen installed? Type (7) SCREENS: Well screen installed? Type Diam Biot size Set from ft. to Diam Biot size Set from ft. to ft. Diam Biot size Set from ft. to ft. Diam Biot size Set from ft. to ft. (8) WELL TESTS: Drawdown size bevie ft. Derwidown size gal/min. with ft. drawdown after bm. Pielet test 21 al. al. anount water lavel is bm. Pielet test 21 al. al. anount water lavel is bm. Pielet test 21 al. al. anount water lavel is water lavel is bm. Pielet test 21 al. al. anount water lavel is water lavel	perforations from	Med Freatured Sendstone	35	11	
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Manufacturer's Name Model No. Type Model No. Diam. Slot size Stot size Set from ft to (8) WELL TESTS: Drawdown is amount water level is lowwered below static level Was a punp test made! Yes & No. H yes, by whon? Yield: gal/min. with ft, drawdown after " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " Balancer of well bors to bottom of seal In. Diameter of well bors to bottom of seal In. Number of sacks of bentonite used in well seal sacks Number of sacks of bentonite well ore log failons take in our processions's Certification: Type of water? <	(7) SCREENS: Well screen installed? [] Yes I No	Cavey Blue Clay	133 1	35	
Type Model No. Diam. Slot size Set from ft. to ft. (8) WELL TESTS: Drewdown is anount water level is Was a pump test made? Yea is No H yea, by whon? Yeld: gal/min. with ft. drawdown after hrs. """"""""""""""""""""""""""""""""""""	Manufacturer's Name	Blue Clay	135 1	40	
Diam Stot size Set from ft to ft Diam Stot size Set from ft to ft (8) WELL TESTS: Drawdown is amount water level is lowered below static level ft Was a pump test made? Yes X No If yes, by whon? Yield: gal/min. with ft. drawdown after hrs. * * * * Patter test 24 gal/min. with ft. drawdown after hrs. * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * <td>Type</td> <td></td> <td> </td> <td></td> <td></td>	Type				
(8) WELL TESTS: Drawdown is amount water level is below static level Was a pump test made? Yes Z No If yes, by whom? Yield: gal/min. with ft drawdown after hran """"""""""""""""""""""""""""""""""""	Diam Slot size Set from ft. to ft.				
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Yield: gal/min. with ft. drawdown after hra. """"""""""""""""""""""""""""""""""""	Was a pump test made? 🔲 Yes 🗶 No If yes, by whom?				
Baller test 24 gal/min. with 6 ft. drawdown after 1 hm, Artesian flow gp.m. gp.m. gp.m. gp.m. gp.m. Persture of water 56 Depth artesian flow encountered ft. (9) CONSTRUCTION: Well sealed from land surface to 18 ft. Diameter of well bore to bottom of seal in. Diameter of well bore below seal	Yield: gal./min. with ft. drawdown after hrs.				
Baller test 24 gal.min. with 6 ft. drawdown after hrs. Artesian flow gp.m. Porature of water 56 Depth artesian flow encountered ft. OP CONSTRUCTION:	··· ·· ·· ··				
Baller test 24 gal/min. with 6 ft. drawdown after 1 hrs. Artesian flow g.p.m. Derature of water 56 Depth artesian flow encountered ft. (9) CONSTRUCTION: Work started 4-10 19 74 completed 4-15 19 74 Well seal-Material used C.GMBOIL Diameter of well bore to bottom of seal ft. Diameter of well bore to bottom of seal ft. Diameter of well bore below seal 6. in. Diameter of sacks of cement used in well seal sacks Number of sacks of cement used in well seal 3. sacks sacks Number of sacks of bentonite used in well seal sacks Sacks Materials used and bellow Dialing Machine Operator's Certification: Number of sacks of bentonite per 100 gallons Method of sealing strata contain Size: location ft. Method of sealing strata coff Yes D No Size of gravel: Gravel placed from Size of gravel: Contractor's License No. CH of the full seal Method of sealing strata off Method of sealing strata off Size of gravel: Size of gravel: Contractor's License No. CH of full seal Method of sealing strata off Method of sealing strata off Size of gravel: Size of	n N N N				······································
Artesian flow g.p.m. Decrature of water 56 Depth artesian flow encountered ft. (9) CONSTRUCTION: Work started 4-10 1974 Completed 4-15 1974 Well seal-Material used CAMEDL Date well drilling machine moved off of well 4-16 1974 Well seal-Material used from land surface to 18 ft. Diameter of well bore to bottom of seal fn. Diameter of well bore below seal fn. Diameter of sacks of cernent used in well seal sacks sacks Number of sacks of bentonite filling Machine Operator's License No. 65 Number of sacks of bentonite used in well seal sacks filling Machine Operator's License No. 65 Water Well Contractor's Certification: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. Number of sacks of sealing strata off Yes D No Size i location ft. Was well gravel packed? Yes D No Size of gravel: Contractor's License No. 65 Water well contractory License No. Size of gravel: Work started 4-16 979.18 Water well gravel packed? Yes D No Size of gravel: Contractor's License No. 664 71	Bailer test 24 gal./min. with 6 ft. drawdown after 1 hrs.				
(9) CONSTRUCTION: Well seal-Material used Cament Diameter of well bore bolow seal 0 Diameter of well bore below seal 0 Number of sacks of cement used in well seal Sacks Number of sacks of bentonite Number of sacks of bentonite of water 10 11 12 13 14 15 15 16 17 18 18 19 19 14 15 15 16 17 18 19 19 19 19 19 19 19 19 19 <td>Artesian flow g.p.m.</td> <td></td> <td></td> <td></td> <td></td>	Artesian flow g.p.m.				
(9) CONSTRUCTION: Well seal-Material used CAMAGNT Well seal-Material used CAMAGNT Well sealed from land surface to	perature of water 50 Depth artesian flow encountered ft.	Work started 4-10 1974 Complete	<u>4-15</u> 4-16		<u>1974</u>
Well seal-Material used CBMBCht Image: State of the seal	(9) CONSTRUCTION:	Date wen drinning machine moved off of wen			18 1 4
Number of sacks of bentonite used in well seal sacks Number of sacks of bentonite sacks Brand name of bentonite sacks Number of pounds of bentonite per 100 gallons image: sacks of water image: sacks Number of pounds of bentonite per 100 gallons image: sacks of water image: sacks Was a drive shoe used? image: sacks Method of sealing strata off image: sacks Was well gravel packed? Yes image: No Size of gravel: ft. (USE ADDITIONAL SHEETS IF NECESSARY) spr46666-119	Well seal-Material used CAMADL Well sealed from land surface to 18 Diameter of well bore to bottom of seal	This well was constructed under my Materials used and information reported best knowledge and belief [Signed]	direct sp above are Date 4-19	uperv true	ision. to my 1974
Brand name of bentonite	Number of sacks of bentonite used in well seal	Drilling Machine Operator's License No.	65		·····
Number of pounds of bentonite per 100 gallons of water	Brand name of bentonite	Water Well Contractor's Certification			
of water Ibs./100 gals. Was a drive shoe used? IVes Was a drive shoe used? IVes Did any strata contain unusable water? IVes IVes IVes Method of sealing strata off IVes Was well gravel packed? IVes Gravel placed from ft. (USE ADDITIONAL SHEETS IF NECESSARY) SP*456556-119	Number of pounds of bentonite per 100 gallons	This well was drilled under my jurisdi	ction and i	this rea	oort is
Did any strata contain unusable water; I tes [] to (Person, firm or corporation) (Type or print) Type of water? depth of strata Address RT. 2.m. BOX. 3.71. VALE: OREGON 97.918. Method of sealing strata off [Signed] (Water well contractor) (Water well contractor) Was well gravel packed? I Yes E No Size of gravel: (Water well contractor) (Water well contractor) Gravel placed from ft. to ft. Contractor's License No. 564 Date 19.74 \$ (USE ADDITIONAL SHEETS IF NECESSARY) SP*46666-119	or water	true to the best of my knowledge and bell Name PAGE BROTHERS DRILLIN	lef. IG		
Method of sealing strata off Size of gravel: Size of gravel: Was well gravel packed? Yes Z No Size of gravel: Gravel placed from ft. to ft. (USE ADDITIONAL SHEETS IF NECESSARY) SP*45656-119	Type of water?	Address RT 2- BOY 271 MALT		or print)	018
Was well gravel packed? [] Yes E No Size of gravel: [Signed]	Method of sealing strata off	MALINO	~~+{-}{-}{-}{-}{-}{-}{-}{-}{-}{-}{-}{-}{-}{	N	À.ŦĠ
Gravel placed fromft_ toft. Contractor's License No. 564 Date 4-1619.74 (USE ADDITIONAL SHEETS IF NECESSARY) SP*45655-119	Was well gravel packed? [] Yes K No Size of gravel:	[Signed]	otor)		
(USE ADDITIONAL SHEETS IF NECESSARY) SP*45656-119	Gravel placed from ft. to ft.	Contractor's License No. 564 Date 4	-16		19.74
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