Groundwater Application Review Summary Form

Application # G- 18350 - RR	
GW Reviewer M. Thoma	Date Review Completed: 10-23-17
Summary of GW Availability and Injury Review:	
[] Groundwater for the proposed use is either over amounts requested without injury to prior water rigil capacity of the groundwater resource per Section B	hts, OR will not likely be available within the
Summary of Potential for Substantial Interference F	Review:
[] There is the potential for substantial interference	per Section C of the attached review form.
Summary of Well Construction Assessment:	
[] The well does not appear to meet current well coreview form. Route through Well Construction and Constru	
This is only a summary. Documentation is attached a	

WATER RESOURCES DEPARTMENT

MEM	0							10.23	17	_ ,20 _	
TO:		Applic	ation G	18	3601	RR	_				
FROM	1:	GW:	M. (Reviewe	Thor	no						
			(Reviewe	er's Name	:)		_				
SUBJECT: Scenic Waterway Interference Evaluation											
X	YES	Tr.	C					0	. 337.4		
	NO	The so	urce of	appropr	iation is	Within	or abov	e a Scer	nc wate	erway	
×	YES										
	NO	Use the Scenic Waterway condition (Condition 7J)									
X											
			with sur				ibutes 1	to a Sc	enic W	aterway	y. The
			835, the								
		Office of the second	ent is u								
	that t	he pro	posed	use wi	ll meas	surably	reduc	e the s	surface	water	
	necess	ary to r	naintai	n the fr	ee-flow	ing cha	racter (of a scer	nic wate	erway.	
DIST	IDITT	ON OF	INTER	CEDEN	CE						
Calcula	te the per	rcentage	of consum	nptive use	by mont						
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											
Water	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
0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0083	0.083

MEMO

01/4/2

To:

Kristopher Byrd, Well Construction and Compliance Section Manager

From:

Joel Jeffery, Well Construction Program Coordinator

Subject:

Review of Water Right Application G-18350

Date:

September 12, 2018

The attached application was forwarded to the Well Construction and Compliance Section by Water Rights. Mike Thoma reviewed the application. Please see Mike's Groundwater Review and the Well Logs.

Applicant's Well #1 (JACK 2914):): Based on a review of the Well Report, Applicant's Well #1 does not appear to comply with current minimum well construction standards (See OAR 690 Division 210). The casing and seal depth of Applicant's Well #1 is not adequate. In order to meet minimum well construction standards, the well must be recased and resealed with an approved grout to a minimum depth of 40 feet below ground surface.

Bringing Applicant's Well #1 into compliance with minimum well construction standards may not satisfy hydraulic connection issues.

Applicant's Well #3 (JACK 2916): Based on a review of the Well Report, Applicant's Well #3 appears to protect the groundwater resource.

The construction of Applicants Well #3 may not satisfy hydraulic connection issues.

Applicant's Well #4 (JACK 2913): Based on a review of the Well Report, Applicant's Well #4 does not appear to comply with current minimum well construction standards (See OAR 690 Division 210). The casing and seal depth of Applicant's Well #4 is not adequate. In order to meet minimum well construction standards, the well must be recased and resealed with an approved grout to a minimum depth of 37 feet below ground surface.

Bringing Applicant's Well #4 into compliance with minimum well construction standards may not satisfy hydraulic connection issues.

Applicant's Well #5 (JACK 2909): Based on a review of the Well Report, Applicant's Well #5 does not appear to comply with current minimum well construction standards (See OAR 690 Division 210). The casing and seal depth of Applicant's Well #5 is not adequate. In order to meet minimum well construction standards, the well must be recased and resealed with an approved

grout to a minimum depth of 66 feet below ground surface.

Bringing Applicant's Well #5 into compliance with minimum well construction standards may not satisfy hydraulic connection issues.

Applicant's Well #6 (JACK 2908): Based on a review of the Well Report, Applicant's Well #6 does not appear to comply with current minimum well construction standards (See OAR 690 Division 210). The borehole diameter in the seal interval is not adequate, and the seal depth is also not adequate. In order to meet minimum well construction standards, the well must be recased and resealed with an approved grout to a minimum depth of 33 feet below ground surface.

Bringing Applicant's Well #6 into compliance with minimum well construction standards may not satisfy hydraulic connection issues.

Applicant's Well #7 (JACK 30158): Based on a review of the Well Report, Applicant's Well #7 appears to protect the groundwater resource.

The construction of Applicants Well #7 may not satisfy hydraulic connection issues.

PUBLIC INTEREST REVIEW FOR GROUNDWATER APPLICATIONS

TO:		Water Rights Section							e	Octob	er 23, 2	017	
FROM	[:	Grou	ındwater S	ection			ael J Tho						
SUBJE	ECT:	Δnnl	ication G-	18350			ewer's Name	review of Se	ntember	29. 2	016		
SODIL		Аррі	ication G-	10330		Suj	ociscues	icview of <u>be</u>	ptember		Date of Re	view(s)	
OAR 6 welfare to deter	90-310-1 , <i>safety an</i> mine who	30 (1) nd hea ether th	The Depart lth as descr ne presumpt	<i>ibed in ORS</i> ion is establi	resume that 537.525. D ished. OAR	t a propose epartment . 690-310-	ed ground staff revious 140 allow	water use will dew groundwate s the proposed and agency poli	r applicati use be mo	ons un	nder OAl or condi	R 690-31 tioned to	0-140 meet
A. <u>GE</u>	NERAL	INFO	ORMATIO	<u>ON</u> : A	pplicant's N	Vame:	XP Inve	stments LLC	,	_ 0	County: _	Jackson	<u>n</u>
A1.	Applica	nt(s) s	eek(s) 0.4	0* cfs from	m <u>6</u>	well(s) in the _	Rogue					_Basin,
]	Little l	Butte Cr			subb	asin						
A2.	Propose	ed use	Nu	rsery (78.2	2 acres)	Seas	onality: _	year-round					
*This r	e-review	was p	rompted b	y a requeste	ed lower ra	te of appr	opriation	- see attached	d email				
A3.	Well an	d aqui	fer data (att	ach and nu	mber logs f	for existin	g wells; n	nark proposed	l wells as s	such u	ınder log	gid):	
Well	Logic	i	Applicant Well #	's Propos	ed Aquifer*	Prop		Location (T/R-S QQ			ion, mete		
1	JACK 2	914	1	В	edrock		Rate(cfs) (T/R-S 0.40 35S/01W-2						
2	JACK 2		3		edrock	0.4		35S/01W-28 I			S & 143'\		
3	JACK 2		4		edrock	0.4	0.40 35S/01W-28 NESE			1238'S & 898'W of E 1/4 cor S28			
4	JACK 2	909	5	В	edrock	0.4	10	35S/01W-28 I	NESE		S & 420'V		
5	JACK 2	908	6	В	edrock	0.4	40	35S/01W-28	NESE	1158	'S & 470'	W of E 1/4	cor S28
6	JACK 30)158	7	В	edrock	0.4	10	35S/01W-27 NWSW		349'	S & 911'	E of E 1/4 c	or S28
* Alluvi	um, CRB,	Redroc	·k										
7 tild vi	um, erd,	Dedroc	A.K.										
	Well	First	(\ \/\/ \)	SWL	Well	Seal	Casing	Liner	Perforati		Well	Draw	Test
Well	Elev	Wate	ft bls	Date	Depth	Interval	Intervals	EN HOLD BY AN EXCHANGE	Or Scree	ens	Yield	Down	Type
<u></u>	ft msl	ft bls	5	*	(ft)	(ft)	(ft)	(ft)	(ft)		(gpm)	(ft)	
2	1425 1425	41	12	*	100	0-20	+1-39 0-48		22-47		32 45	61 10	B B
3	1460	104	10	*	175	0-20	+1-33		22-47		140	64	В
4	1435	113	36	*	165	0-20	+1-62	0-113			70	123	Jet
5	1435	94	47	*	200	0-19	+1-19				30	126	Jet
6	1425	182	10	*	300	0-76	+2-76	0-300	180-30	0	200		Α
A4.	and 2016 for wells #3 and #6). SWLs reported on driller's logs range between approx. 10 and 50 ft for the wells listed on the application and between approx. 10 and 40 for most wells drilled in the area (see attached plots)												
	(Not all	basin	rules contai	n such provi	sions.)			r 🗌 are, or 🔀		activa	ited by th	is applica	ation.
A6.	Name o	f admi	nistrative ar	ea:				tap(s) an aquife		by an	administ	rative res	triction.

Version: 04/20/2015

B1.	Bas	sed upon available data, I have determined that groundwater* 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 groundwater 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 groundwater 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 groundwater resource; or
	d.	 will, if properly conditioned, avoid injury to existing groundwater rights or to the groundwater resource: i. The permit should contain condition #(s) 7J (Scenic); 7N (as modified below); Large Water-use Reporting; 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 groundwater production from no deeper than ft. below land surface;
	b.	Condition to allow groundwater production from no shallower than ft. below land surface;
	c.	Condition to allow groundwater production only from the groundwater 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 Groundwater 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):
В3.	Gro insu	undwater availability remarks: Nearby well JACK 2932 has SWL data for the past five years but the data record is fficient to provide a preponderance of evidence that groundwater in the area is or is not over-appropriated.
	the r	original application was for 1.96 cfs (880 gpm) and was determined on an earlier review to not be within the capacity of esource. The applicant has since requested a reduced rate of 0.40 cfs (180 gpm) which is still higher than the median well for the area but may be reasonably appropriated from a combination of the six proposed wells. Interference and injury still a concern and so standard interference conditions are recommended.
	leve	1), 7N Modification: The standard Static Water Level Condition shall be modified in the following way: Static water— I measurements shall be obtain from any two of the six wells proposed on this application with the same two wells being cated as measurement wells and measured each time. Water level measurements shall be obtained from a qualified.

level measurements shall be obtain from any two of the six wells proposed on this application with the same two wells being dedicated as measurement wells and measured each time. Water-level measurements shall be obtained, from a qualified individual, twice annually with measurements from each well made in March and August. Any change to which wells are measured, or the timing of measurements, shall be requested to the Department and subject to approval.

Special Condition #1: Before beneficial use of water begins, the permittee shall conduct a constant-rate aquifer test to estimate aquifer parameters and assess the potential for injury to existing nearby groundwater users. Pumping shall occur from any of the permitted POAs, the test shall be four (4) hours in duration, and the test shall include a minimum of two observation wells that shall be measured at the same frequency as the pumping well. The permittee shall provide notice to the Regional Watermaster's Office at least one week prior to the test and data and test results shall be submitted to the Department's Groundwater Section in a reasonable format. A formal aquifer test report is not required. Specific details not described herein shall conform to Pump-Testing Rules OAR 690-217.

3

Special Condition #2: The permittee shall allow Department staff access to all wells listed on the permit for the purpose of making SWL measurements and installing automatic water-level recording devices if the Department finds it to be necessary and on the condition that access and installation of equipment does not interfere with well use.

C. GROUNDWATER/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 of L. Butte Volcanics	\boxtimes	
2	Bedrock of L. Butte Volcanics	\boxtimes	
3	Bedrock of L. Butte Volcanics	\boxtimes	
4	Bedrock of L. Butte Volcanics	\boxtimes	
5	Bedrock of L. Butte Volcanics	\boxtimes	
6	Bedrock of L. Butte Volcanics	\boxtimes	

Basis for aquifer confinement evaluation: SWLs reported on well logs provided for this application are several feet above first water indicating confined conditions.

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)	ı	Aydraulically Connected? NO ASSUMED	Potentia Subst. Int Assum YES	terfer.
1	1	Little Butte Cr	~1413	1280-1340	9450	\boxtimes			\boxtimes
2	1	Little Butte Cr	~1412	1280-1340	9270	\boxtimes			\boxtimes
3	1	Little Butte Cr	~1450	1280-1340	9500	\boxtimes			\boxtimes
4	1	Little Butte Cr	~1400	1280-1340	9670	\boxtimes			\boxtimes
5	1	Little Butte Cr	~1388	1280-1340	9310	\boxtimes			\boxtimes
6	1	Little Butte Cr	~1415	1280-1340	9240	\boxtimes			

Basis for aquifer hydraulic connection evaluation: GW elevations are above SW elevations which suggests that groundwater is flowing toward and discharging to surface water.

Water Availability Basin the well(s) are located within: Little Butte Cr > Rogue R - At Mouth (ID# 263)

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 < 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?

Page

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?
								П

Comments: No surface water sources were evaluated within 1 mile of the proposed POAs

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	Wells											
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
6 ^A	1	0.2 %	2.9 %	7.4 %	12 %	17 %	21 %	24 %	27 %	30 %	33 %	35 %	37 %
Well Q	as CFS	0.54^{B}	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
	erence FS*	<0.01	0.02	0.04	0.07	0.09	0.11	0.13	0.15	0.16	0.18	0.19	0.20
Distrib	uted Wel	ls											
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
	as CFS ence CFS	-				Pump	ing rate is	s not dist	ributed				
(A) = Tot	tal Interf.	0.01	0.03	0.07	0.10	0.12	0.15	0.17	0.19	0.20	0.21	0.23	0.24
(B) = 80	% Nat. Q	133	206	236	297	141	82.5	73.9	70.7	45.9	23.3	34.4	60.8
(C) = 1	% Nat. Q	1.33	2.06	2.36	2.97	1.41	0.83	0.74	0.71	0.46	0.23	0.34	0.61
$(\mathbf{D}) = (A)$	A) > (C)		*	7	1	V					y'		
$(\mathbf{E}) = (\mathbf{A} /$	B) x 100	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	0.14%	0.18%	0.21%	0.36%	0.76%	0.55%	0.33%

(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:**

Comments: Interference with surface water was estimated using the Hunt (1999) stream-depletion model run through the USGS Michigan Water Science Center web-based version. The model was run using parameter values expected for this type of geology. The model input page is attached and the website can be found at: http://mi.water.usgs.gov/software/groundwater/CalculateWell/index.html

C4b. 690-09-040 (5) (b) The potential to impair or detrimentally affect the public interest is to be determined by the Water Rights Section.

C5. 🗌	If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or groundwater use	
	under this permit can be regulated if it is found to substantially interfere with surface water:	
	i. The permit should contain condition #(s)	:
	ii. The permit should contain special condition(s) as indicated in "Remarks" below;	_ '

A Only Well #6 (JACK 30158) was evaluated for PSI because it is the closest to the impacted surface water. Interference is inversely-proportional to distance so all other wells will have less interference with surface water

B Monthly Well Q was based on the annual duty (5 AF/yr/acre x 78.2 acres) divided by the period of use (12 months)

-	
	SW / GW Remarks and Conditions: The applicant's proposed wells would be producing from an aquifer that has been found to be hydraulically connected to surface water at a distance of > 1 mile. However, the department is unable to find sufficient evidence that the proposed use will have the Potential for Substantial Interference per OAR 690-009
	Well #1 is located barely within the Rogue River WAB. However, the topography of the area across the basin divide is very flat and there is large rise (Long Mountain) located directly west of Well #1 and between the wells and the Rogue River. So although Well #1 is within the Rogue River WAB, hydraulic connection to the Rogue River will be small in comparison to connection to Little Butte Cr due to the topography so only Little Butte Cr. was evaluated for PSI.
	erences Used: Hunt, B. 1999. Unsteady Stream Depletion from Ground Water Pumping. Journal of Hydrologic Engineering, Vol 8(1), pp 12-19
	Reeves, H.W., 2008, STRMDEPL08—An Extended Version of STRMDEPL with Additional Analytical Solutions to Calculate Streamflow Depletion by Nearby Pumping Wells: U.S. Geological Survey Open-File Report 2008–1166, 22 p.
	Wiley, T. K. and J. G. Smith. 1993. Preliminary Geologic Map of the Medford East, Medford West, Eagle Point, and Sams Valley Quadrangles, Jackson County, Oregon. Oregon Dept. of Geology and Mineral Industries. OFR O-93-13
	OWRD Well Log Database – accessed 09/29/2016
D. <u>V</u>	WELL CONSTRUCTION, OAR 690-200
D1.	Well #: Logid:
D2.	THE WELL does not appear to meet current well construction standards based upon: a. review of the well log; b. field inspection by;

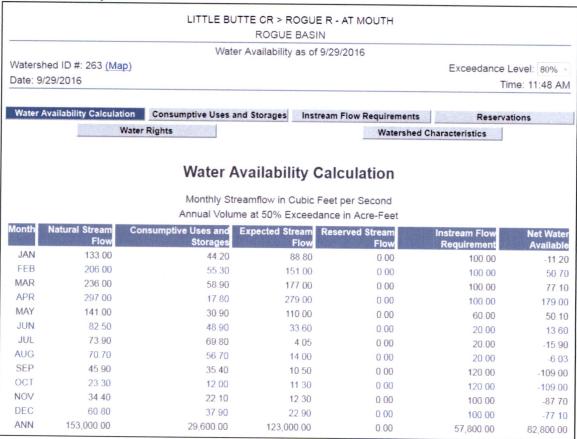
5

Page

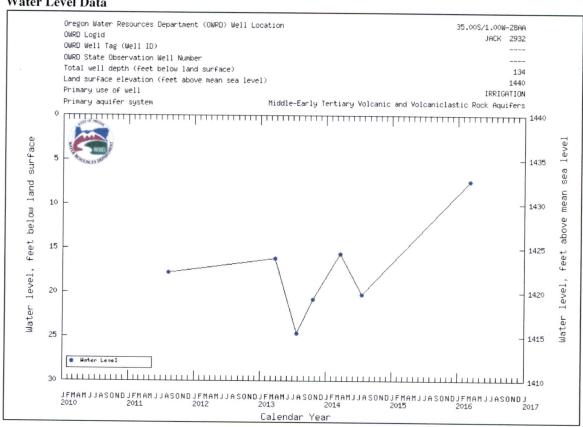
Application G-18350-RR

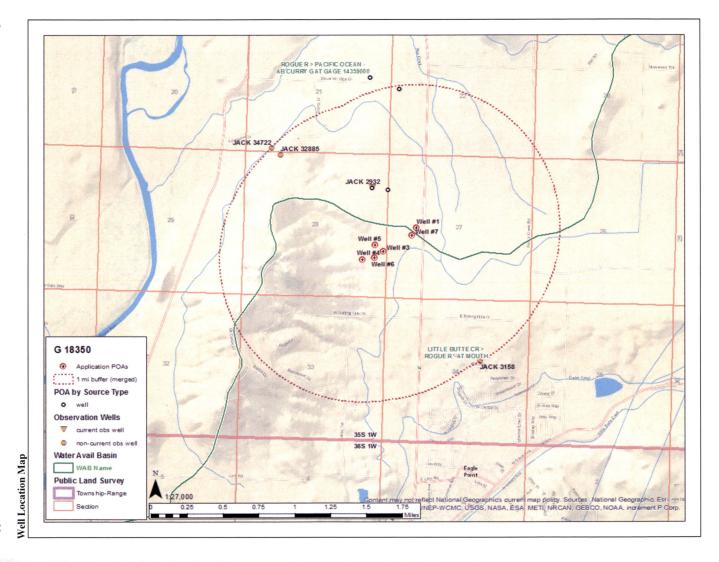
Version: 04/20/2015

Water Availability Tables



Water Level Data





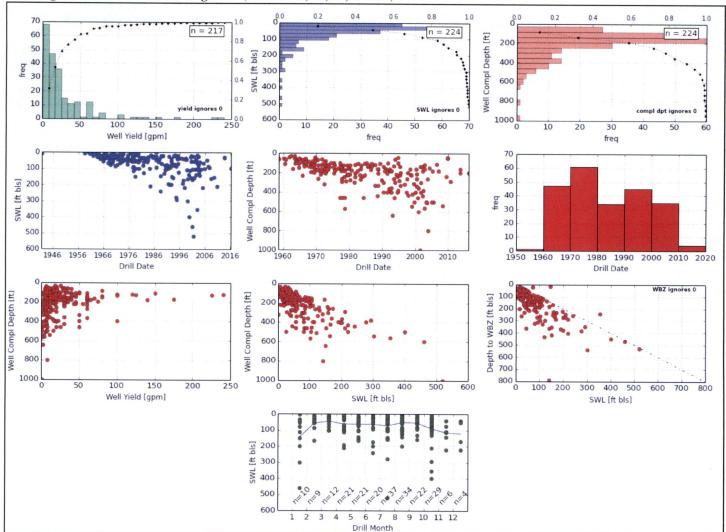
Stream-depletion Model Input Page

The Web-Based STRMDEPL08 evaluates four analytical solutions that simulate streamflow depletion by a nearby pumping well. It is based on STRMDEPL08 (Reeves, 2008) and the earlier STRMDEPL (Barlow, 2000). These two earlier programs are written in Fortran, require text input files, and produce tabular output. The web-based version was written to provide an easier interface to the analytical solutions with more convenient units and simplified output. (View more...)

Calculate Streamflow Deple	etion by Nearby Pumping Well
Fully penetrating stream with no streambed resistance (Jenkins, 1968) Distance (ft):	Fully penetrating stream with streambed resistance (Hantush, 1965) Distance (ft):
Transmissivity (ft2/day): Storage Coefficient: Pumping Rate (gpm): Days of Pumping: Reset Submit	Transmissivity (ft2/day): Storage Coefficient: Streambed Leakance (ft): Pumping Rate (gpm): Days of Pumping:
Partially penetrating stream with streambed resistance (Hunt, 1999) Distance (ft): 9240	Reset Submit Partially penetrating stream in an aquitard overlying a pumped aquifer (Hunt, 2003) Distance (ft):
Transmissivity (ft2/day): 15 Storage Coefficient: 0.0001 Streambed Conductance 1 (ft/day): Pumping Rate (gpm): 242 Days of Pumping: 365	Transmissivity (ft2/day): Storage Coefficient: Specific Yield of Aquitard: Hydraulic
Reset Submit Units used	Conductivity of Aquitard (ft/day): Stream Width (ft): Thickness of

Page





THOMA Michael J * WRD

From: Sent: Evan Malepsy <emalepsy@roguecivil.com>

То:

Monday, February 13, 2017 11:25 AM GRAHAM Elisabeth A * WRD

Cc:

THOMA Michael J * WRD

Subject:

RE: G-18350

Hi Lisa,

I've discussed the maximum rate of withdrawal with my client and Mike Thoma. We would like to change our request for maximum total withdrawal rate to 180 GPM. Please let me know if we need to make any revisions to the application. Also, could you let me know of any changes to the process that may occur due to making this change? Will the timing of the review and final order be affected?

Thanks,

Evan Malepsy, PE CWRE

541-621-2868

emalepsy@roguecivil.com

ROGUE CIVIL LLC

Civil Engineering Water Rights

From: GRAHAM Elisabeth A * WRD [mailto:Elisabeth.A.Graham@oregon.gov]

Sent: Thursday, February 9, 2017 12:31 PM

To: Evan Malepsy <emalepsy@roguecivil.com>

Cc: 'Megan LaNier' < megan@lanierlandconsulting.com'>; 'Ross Hrncir' < rossmh@yahoo.com'>; THOMA Michael J * WRD

<Michael.J.Thoma@oregon.gov>

Subject: RE: G-18350

Hi Evan,

Thank you for getting the new Land Use Form, from what I have been able to determine, the new form is the best way to go.

The attached Land Use Form is acceptable.

Thank you, Lisa Graham

From: Evan Malepsy [mailto:emalepsy@roguecivil.com]

Sent: Thursday, February 09, 2017 12:23 PM

To: GRAHAM Elisabeth A * WRD
Cc: 'Megan LaNier'; 'Ross Hrncir'

Subject: FW: G-18350

Hi Lisa,

I didn't hear back regarding the email below so I went ahead and obtained a new Land Use Form from the County showing the approvals have been obtained, see attached. This should satisfy the requirement for additional information outlined in the Initial Review Determination letter. We will continue to work with Mike Thoma on determining an acceptable flow rate for the wells.

Could you please confirm that you received this, and that it meets the requirement? If you need the original I can put it in the mail. Let me know if there any questions, or needs for additional information at this time.

Thanks,

Evan Malepsy, PE CWRE 541-621-2868 emalepsy@roguecivil.com

ROGUE CIVIL LLC

Civil Engineering Water Rights

From: Evan Malepsy

Sent: Wednesday, February 8, 2017 10:54 AM

To: GRAHAM Elisabeth A * WRD < Elisabeth.A.Graham@oregon.gov>

Subject: RE: G-18350

Hi Lisa,

Per the Initial Review Determination letter, dated January 27, 2017, my client is to provide a land use compatibility statement indicating that land use approvals have been obtained. I recently had a land use form completed for the property, but it was for a different water right application, see attached. Could this form satisfy the requirement for G-18350 also? If not, is it critical that we provide the land use form by February 10? I've been out sick and am behind schedule.

Also, thanks for talking to Mike Thoma regarding this application, I am hopeful that we can come up with a proposal that will be acceptable.

Thanks,

Evan Malepsy, PE CWRE 541-621-2868 emalepsy@roguecivil.com

ROGUE CIVIL LLC

Civil Engineering Water Rights

From: GRAHAM Elisabeth A * WRD [mailto:Elisabeth.A.Graham@oregon.gov]

Sent: Wednesday, February 1, 2017 9:34 AM **To:** Evan Malepsy < <a href="mailto:emai

Subject: G-18350

Hello Evan,

It was nice to talk with you this morning.

I have emailed Mike Thoma in groundwater requesting rate information.

Please reach out with any additional questions.

Sincerely,

Lisa Graham | Water Right Application Caseworker

Water Resources Department | 725 Summer St. NE, Suite A | Salem, Oregon 97301

NOTICE TO WATER WELL CONTRACTOR

The original and first copy
of this report are to be
filed with the

STATE ENGINEER, SALEM, OREGON 97310 within 30 days from the date of well completion.

WATER WELL REPORT

STATE OF OREGON

(Please type or print)
(Do not write above this line)

State Permit No.

(1) OWNER:	(11) LOCATION OF WELL:			
Name HERB R. MILLER	County JACKSON Driller's well nu	ımber		
Address POBOX 1217 MEDFORD, ORE	14 . 14 Section 27 T. 3		100	W.M.
	Bearing and distance from section or subdivision			
(2) TYPE OF WORK (check):	155 ft HJest 65+	Ct 50	auti	4
New Well ☐ Deepening ☐ Reconditioning ☐ Abandon ☐	fromthe northeast			
If abandonment, describe material and procedure in Item 12.	Cotiler millers &	99	Ran	2/1
(3) TYPE OF WELL: (4) PROPOSED USE (check):	(12) WELL LOG: Diameter of well b	olow ossi	na /	6
Cable Jetted Domestic Industrial Municipal	Depth drilled /// ft. Depth of comple		11g	2 A #
Bored Irrigation Test Well Other				1t.
CASING INSTALLED: Threaded Welded W	Formation: Describe color, texture, grain size a and show thickness and nature of each stratus	m and aq	ulfer pe	netrated,
6 " Diam. from +1 ft to 39 ft. Gage 1250	with at least one entry for each change of form in position of Static Water Level as drilling pro	ation. Re	port each	n change
	MATERIAL	From	To To	SWL
"Diam, from ft. to ft. Gage	Soil- brown		2	SWL
PERFORATIONS: Perforated? D. Ves. D. W.	Clay-sandy-Grown	0	~	
reflorated 1 les (2 No.	with Latge gravel	. 2	17	
Type of perforator used	Clay-pratrol	17	35	ant-co
Size of perforations in. by in.	Aboutong - healun	35	41	"
perforations from ft. to ft.	basalt - Grothen	.,,,	-	35
perforations from ft. to ft.	blue	41	44	26
perforations from	hasalt - 6/41e	44	81	
perforations from ft. to ft.	Lasalt - black-brocken	81	92	31
perforations from	Clayston - Congloment	- 92	100	
(7) SCREENS: Well screen installed? Yes You				
Manufacturer's Name				
Type Model No				
Diam Slot size Set from ft. to ft.				
Diam. Slot size Set from ft. to ft.				
(8) WATER LEVEL: Completed well.				
ic level 3/ ft. below land surface Date 1-18-68				
lbs. per square inch Date				
				1
(9) WELL TESTS: Drawdown is amount water level is lowered below static level				
Was a pump test made? Yes No If yes, by whom?	,			
d: gal./min. with ft. drawdown after hrs.	Work started /-/8 1968 Complete	d /	-18	1968
и - ч. и	Date well drilling machine moved off of well	/-	18	1968
" " " "	Drilling Machine Operator's Certification:			
Bailer test 32 gal./min. with 6/ft. drawdown after / hrs.	This well was constructed under my dir	ect supe	rvision.	Mate-
Artesian flow g.p.m. Dale	rials used and information reported above knowledge and belief.	e are tri	ue to m	ny best
Temperature of water Was a chemical analysis made? ☐ Yes 🔊 No	. // 1 (/1)	Date /	-19	10
was a chemical analysis made? Tes No	[Signed] (Drilling Machine Operator)	Date		19.60
(10) CONSTRUCTION:	Drilling Machine Operator's License No	.34	14	
Well seal-Material used Boutonite				
Depth of seal ft.	Water Well Contractor's Certification:			
Diameter of well bore to bottom of seal in.	This well was drilled under my jurisdic	tion and	l this re	port is
Were any loose strata cemented off? Tyes No Depth	true to the best of my knowledge and belief	76-	7.0	
Was a drive shoe used? Yes No	(Person, firm or corporation)	Type	or print)	ć
Did any strata contain unusable water?	Address 1923 Delta Wil	take	PI	•
Type of water? depth of strata	A		e.).Cl.:	
Method of sealing strata off	[Signed] All Historia			
Was well gravel packed? ☐ Yes No Size of gravel:	(Water Well Contracto		***************************************	
Gravel placed from ft. to ft.	Contractor's License No. 8.3 Date	1-19	7	1968
VICE ADDITIONAL OF				

NOTICE TO WATER WELL CONTRACTOR The original and first copy of this report are to be it 12 27 196 WATER WELL REPORT State Well No. 35/16-27 STATE ENGINEER, SALEM, OREGON 97310 within 30 days from the date of well completion. The ENGINEER of OREGON print) State Permit No. (1) OWNER: (11) WELL TESTS: Drawdown is amount water level is lowered below static level Name Was a pump test made? Tyes X No If yes, by whom? gal./min. with ft. drawdown after hrs. (2) LOCATION OF WELL: Bailer test gal./min. with / O ft. drawdown after Driller's well number hrs. Artesian flow g.p.m. Date SIW, 1/4 Section 27 Temperature of water 58 Was a chemical analysis made? \(\subseteq \text{Yes} \text{ Yes} \) No Bearing and distance from section or subdivision corner (12) WELL LOG: Diameter of well below casing Depth drilled / 0 7 ft. Depth of completed well-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. MATERIAL. FROM (3) TYPE OF WORK (check): Well 📉 Deepening [Reconditioning [Abandon [andonment, describe material and procedure in Item 12. (4) PROPOSED USE (check): (5) TYPE OF WELL: Domestic 💆 Industrial 🗌 Municipal 📋 Rotary Driven Cable 🔀 Irrigation

Test Well
Other Jetted Dug Bored (6) CASING INSTALLED: Threaded | Welded | / Diam. from C ft. to 48/3"ft. Gage 2.50" Diam. from ft. to ft. Gage (7) PERFORATIONS: Perforated? Yes No Type of perforator used Size of perforations in. by A. S. perforations from 2 2 ft. to 4 ... perforations from ft. to perforations from perforations from ft. to perforations from (8) SCREENS: Well screen installed?

Yes No Manufacturer's Name ... Model No. Slot size Set from ... Diam. Slot size 19 66 Completed Set from .. Date well drilling machine moved off of well (9) CONSTRUCTION: (13) PUMP: Well seal-Material used in seal .. Manufacturer's Name Depth of seal 2 2 ft. Was a packer used? (199 Water Well Contractor's Certification: Was a drive shoe used? ☒ Yes ☐ No This well was drilled under my jurisdiction and this report is Was well gravel packed? X Yes 🗆 No true to the best of my knowledge and belief. Gravel placed from ______ ft. to _____ Did any strata contain unusable water?

Yes X No Type of water? Method of sealing strata off Drilling Machine Operator's License No. 2.6. (10) WATER LEVELS:

(USE ADDITIONAL SHEETS IF NECESSARY)

Static level /2 ft. below land surface Date 7-26

lbs per square inch Date

Artesian pressure

NOTICE TO WATER WELL CONTRACTOR

The original and first foby of this report are to be filed with the filed with the STATE OF OREGON within 30 days from the date of well completion.

STATE ENGINEER, SALEM, OREGON \$7310

WILL COMPONE THE STATE OF OREGON Please type or print) of well completion.



State Well No. State Permit No.

(1) OWNER:	(11) LOCATION OF WELL		
Name Millers Ess Ranch	(11) LOCATION OF WELL:		
Address RO. BOX 1217, Medford, Ore	County Jack Son Driller's well number		
	14 14 Section 27 T. 35		
(2) TYPE OF WORK (check):	Bearing and distance from section or subdivision corner		
New Well Deepening Reconditioning Abandon	1000' West 450' Sout	htrom The	
If abandonment, describe material and procedure in Item 12.	Mosth cost property	COLURT	
(3) TYPE OF WELL: (4) PROPOSED USE (check):			
Rotary Driven Domestic Industrial Municipal	(12) WELL LOG: Diameter of well h	pelow casing8	
□ Bored □ Irrigation □ Test Well □ Other	Depth drilled / / ft Depth of comple	eted well 175 ft.	
(E) CACING INCHARY	Formation: Describe color, texture grain size	and structure of	
Threaded Welded Welded		m and acciden nemeters.	
"Diam from # 1 ft. to 33 ft. Gage 1280	in position of Static Water Level as drilling pro	ceeds. Note drilling rates.	
"Diam from tt. to ft. Gage	MATERIAL	From To SWL	
" Diam. from ft. to ft. Gage	Soil-brown-sticky	0 2	
PERFORATIONS: Perforated? Yes No.	Clay-6+own	7 18	
Type of perforator used	sandstone- brown	13 17	
Size of perforations in. by in.	basalt-blue	17 74	
perforations from	basalt - broken-blue	24 77	
perforations fromft. toft.	605alt - 6/44	27 30	
perforations from ft. to ft.	Easalt-broken-blux	30 32	
perforations fromft. toft.	basalt-6/ue	32 104 37	
perforations from ft. to ft.	6asat-6/ue-6token	104 115 51	
(7) CODERNO	60501t-6/110	115 119	
(7) SCREENS: Well screen installed? ☐ Yes ☑ No	Sandstone - 6/40	119 135	
Manufacturer's Name	Claystone-6/40	135 148	
Type Model No.	Clayston - Marroon	148 162	
Diam. Slot size Set from ft. to ft.	Clayslon - green	162 175	
Diam. Slot size Set from ft. to ft.	***************************************		
(8) WATER LEVEL: Completed well.			
c level 5/ ft. below land surface Date 7-29-69			
Artesian pressure lbs. per square inch Date			
(9) WELL TESTS: Drawdown is amount water level is			
lowered below static level Was a pump test made? Yes Po If yes, by whom?	7		
d.	-		
d: gal./min. with ft. drawdown after hrs.	Work started 7-28 1969 Completed	7-29 1969	
" " " "	Date well drilling machine moved off of well	7-29 1969	
" " " " " " " " " " " " " " " " " " " "	Drilling Machine Operator's Certification:		
Bailer test /40 gal./min. with 64 ft. drawdown after 4 hrs.	This well was constructed under	ct supervision. Mate-	
Artesian flow g.p.m. Date	rials used and information reported above knowledge and belief.	are true to my best	
Temperature of water Was a chemical analysis made? ☐ Yes ☑ No	[Signed] Grandy Harras	729 /9	
(10) CONSTRUCTION:	(Drilling Machine Operator)	ate 7-29 , 1969	
Well seal—Material used Bentonite	Drilling Machine Operator's License No	244	
Depth of seal 20			
Diameter of well beautiful 12	Water Well Contractor's Certification:		
Were any loose strata cemented off? Yes No Depth	This well was drilled under my jurisdicti	on and this report is	
Voc a deliveral	true to the best of my knowledge and belief.	11 00	
old any strata contain unusable water? Yes No	(Person, firm or corporation) Dype or print)		
ype of water? depth of strata	111 1977 11/4 11/2	tots RI MI	
gop-1-2	Da and	11d. 118d.	
Method of sealing strata off	[Signed]	>	
Vas well gravel packed? ☐ Yes Z→NO Size of gravel:	(Water Well Contractor)	***************************************	
ravel placed fromft. toft.	Contractor's License No. 83 Date	2-2969	
ÜSE ADDITIONAL SHI		, 19.0	

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this port CE VAJER WELL REPORT
are to be filed with the

WATER RESOURCES DEPARTMENT, SALEM, OREGON 97310
Within 30 days from the date.

STATE OF OREGON (Please type or print) within 30 days from the date.

State Well No.

State Permit No.

(3) TYPE OF WORK (check): Section The Secondition Compared to the properties Recondition Compared to the properties Recondition Compared to the properties Recondition Compared to the period to the properties Recondition Compared to the period Recondition Recondition Compared to the period Recondition Recon	of well completion WATER RESCURCE COPPETITION	above this line) State Permit No.		
Name Address County Accion Abandon	(1) OWNER. SALEM. CI.ECON			
Compared		(10) LOCATION OF WELL:		
Section Properties Reconditioning Abandon Bearing and datamore from extigion occurs. Colored Properties Donnestic Industrial & Mandrolog Properties Industrial & Mandrolog Properties Industrial & Mandrolog Properties Industrial & Mandrolog Industrial & Mandrolog Industrial & Industrial & Mandrolog Industrial & Ind	Address 12 Address to	County Driller's well number		
Type OF WORK (check): New Well Deepening Reconditioning Abandon I shandonnest (searche nativation and procedure in Hem 12. (3) TYPE OF WELL (4) PROPOSED USE (check): Child Deepening Todautrial Municipal Child Detect Demestic Todautrial Municipal Child Demestic Todautrial Municipal Child Demestic Todautrial Municipal Diam. From fi. to fi. Gage Diam. From fi. to fi. Gage Diam. From fi. to fi. Depth of completed well Resource PERFORATIONS: Perforated Ves PNo. PERFORATIONS: Perforated Ves PNo. Perforations from fi. to fi. Depth of completed well Resource Perforations from fi. to fi. Depth of completed well Resource Resource Perforations from fi. to fi. Depth of completed well Resource	1 3004 Carried Hills	1/ Section 77 m 3 cm - 111		
New Well Deepening Reconditioning Abandon H shandonment, describe material and precedure in frem 12.	(2) TYPE OF WORK (check)			
H shandonment, describe material and procedure in Item 12.		Acri I		
(1) WATER LEVEL: Completed well. Casing Derive Domestic Industrial Manicipal Depth a which water was first found Depth at Actional pressure Depth at Completed well Depth at Completed Depth at	Abandon [
Doubt at which water was first found \(\) fit. below land surface. Date \(\) 2. Static level \(\) Domestic \(\) Industrial \(\) Manufacture for mind. It to \(\) fit. Gage \(\) Diam. from \(\) fit. to \(\) fit. Gage \(\) Diam. from \(\) fit. to \(\) fit. Gage \(\) Diam. from \(\) fit. to \(\) fit. Gage \(\) Diam. from \(\) fit. to \(\) fit. Gage \(\) Diam. from \(\) fit. to \(\) fit. Gage \(\) Diam. from \(\) fit. to \(\) fit. Gage \(\) Beth from \(\) fit. to \(\) fit. Gage \(\) Beth from \(\) fit. to \(\) fit. Gage \(\) Beth from \(\) fit. to \(\) fit. Gage \(\) Diam. from \(\) fit. to \(\) fit. Gage \(\) Beth from \(\) fit. to \(\) fit. Gage \(\) Beth from \(\) fit. to \(\) fit. \(\) perforations from \(\) fit. to \(\) fit. \(\) perforations from \(\) fit. to \(\) fit. \(\) perforations from \(\) fit. to \(\) fit. \(\) perforations from \(\) fit. to \(\) fit. \(\) perforations from \(\) fit. to \(\) fit. \(\) perforations from \(\) fit. to \(\) fit. \(\) perforations from \(\) fit. to \(\) fit. \(\) perforations from \(\) fit. to \(\) fit. \(\) perforations from \(\) fit. to \(\) fit. \(\) perforations from \(\) fit. to \(\) fit. \(\) perforations from \(\) fit. to \(\) fit. \(\) perforations from \(\) fit. to \(\) fit. \(\) perforations from \(\) fit. to \(\) fit. \(\) perforations from \(\) fit. \(\) fit. \(\) perforations from \(\) fit. \(\) fit. \(\) perforations from \(\) fit. \(\) fit. \(\) fit. \(\) perforations from \(\) fit.		(11) WATER LEVEL: Completed		
Rotaty Driven Domestic Industrial Municipal Doug Broted Dright Driven Tright Distriction Test Woll Other Driven Driven	(3) TYPE OF WELL: (4) PROPOSED USE (check):			
Actesian finishment of the fin	Rotary Driven D			
CASING INSTALLED: Diam. from ft. to ft. Gage Diam. Store of perforations Diam. Store of perforations Diam. Store of perforations Diam. Store of perforations from ft. to ft. Diam. Store of perforations from ft. to ft. (8) WELL TESTS: Developer of perforation is amount wetter level is location ft. to ft. (8) WELL TESTS: Developer of perforation with ft. of ft. (8) WELL TESTS: Developer of perforation from ft. to ft. (8) WELL TESTS: Developer of yes Diam. Store of perforation from ft. to ft. (8) WELL TESTS: Developer of yes Diam. Store of perforation from ft. to ft. (8) WELL TESTS: Developer of yes Diam. Store of yes Diam. Stor	Dug Bored D Irrigation D Best Well D Co.	it. below land surface. Date		
Diam. from ft. to ft. Gage PERFORATIONS: Perforated? Yes g No. Type of perforator used Size of perforations from ft. to ft. b. ft. ft. ft. ft. ft. ft. ft. ft. ft. ft		Artesian pressure lbs. per square inch. Date		
Design from fit to fit Gage Diam from fit to fit Diam from fit	CASING INSTALLED: Threaded Welded	(12) WELL LOC.		
Diam. From ft. to ft. Gage Diam. From ft. to ft. Gage PERFORATIONS: Perforated? Yes Yes.	O "Diam from the ft. to of ft. Gage 250	Statistics of Well below casing		
PERFORATIONS: Perforated? □ Yes □ No. Type of perforator used MATERIAL □ From To SWL Size of perforations from th. to th.	"Diam. fromft. toft. Gage	It.		
PerforationS: Perforated? vs vs vs vs vs vs vs v	"Diam. from	Formation: Describe color, texture, grain size and structure of materials		
Size of perforations in, by in perforations from fit to fit perforations from fit for fit perforations from fit for fit perforations from fit fit perforations from fit for fit perforations from fit for fit perforation from fit for fit perforation from fit	PERFORATIONS:			
Size of perforations in. by in. perforations from ft. to ft. PEO 10 33 (7) SCREENS: Well screen installed? Yes I'No Manufacturer's Name 10 10 11 10 10 10 10 10 10 10 10 10 10	reflorated? Yes VNo.	position of Static Water Level and indicate principal water-bearing strata.		
perforations from ft. to ft. perforation ft. perforations from ft. to ft. perforations from ft. perforations ft. perforations from ft. perforations from ft. perforations ft. perforations from ft. perforations from ft. perforations from ft. perforations ft. perforations from ft. perforations from ft. perforations ft. perforation from ft. perforations ft. perforation ft. perforation from ft. perforations ft. perforation ft. perforation ft. perforation ft. perforation ft. perforation ft.	the second secon	MATERIAL From To SWL		
perforations from ft. to ft. perforations ft. perforations from ft. to ft. perforations. Stot size set from ft. to ft. plam. Stot size set from ft. plam. Stot size set from ft. plam. Stot size set from sind surface to plam. Stot size set from size set from size set from sind surface to size set from size set from sind surface to size set from sind surfac	The state of the s	DOIL BROWN O 1		
perforations from ft. to ft. perforations for ft. to ft. perforations for ft. to ft. perforations ft. pe				
Performance from	perforations from ft. to ft.	(1 A4) P=0 11 122		
Manufacturer's Name Manufacturer's Name Model No. Diam. Stot size Set from ft. to ft. Stot size Set from ft. to ft. (8) WELL TESTS: Drawdown is amount water level is lowered below static level Was a pump test made? Yes No If yes, by whom? Yield: gal/min. with ft. drawdown after hrs. Artesian flow gp.m. Perature of water Depth artesian flow encountered ft. Wark started Jeph artesian flow encountered ft. Diameter of well bore below seal Jeph artesian flow encountered ft. Diameter of well bore below seal Jeph artesian flow encountered ft. Diameter of well bore below seal Jeph artesian flow encountered ft. Diameter of well bore below seal Jeph artesian flow encountered ft. Diameter of well bore below seal Jeph artesian flow encountered ft. Diameter of well bore below seal Jeph artesian flow encountered ft. Diameter of well bore below seal Jeph artesian flow encountered ft. Diameter of well bore below seal Jeph artesian flow encountered ft. Diameter of well bore below seal Jeph artesian flow encountered ft. Diameter of well bore below seal Jeph artesian flow encountered ft. Diameter of well bore below seal Jeph artesian flow encountered ft. Diameter of well bore below seal Jeph artesian flow encountered ft. Diameter of well bore to below seal Jeph artesian flow encountered ft. Diameter of well bore to below seal Jeph artesian flow encountered ft. Diameter of well bore to below seal Jeph artesian flow encountered ft. Diameter of well bore to below seal Jeph artesian flow encountered ft. Diameter of well bore to below seal Jeph artesian flow encountered ft. Diameter of well bore to below seal Jeph artesian flow encountered ft. Diameter of well bore to below seal Jeph artesian flow encountered ft. Diameter of well bore to below seal Jeph artesian flow encountered ft. Diameter of well bore to below seal Jeph artesian flow encountered ft. Diameter of well bore to below seal Jeph artesian flow encountered ft. Mark started Jeph artesia	perforations fromft. toft.			
Manufacturer's Name Shot size Set from ft. to ft. Dlam. Shot size Set from ft. to ft. Dlam. Shot size Set from ft. to ft. Dlam. Shot size Set from ft. to ft. Drawdown is amount water level is lowered below static level; Was a pump test made? Yes No If yes, by whom? Yield: gal/min. with ft. drawdown after hrs. Artesian flow gp.m. seature of water Depth artesian flow encountered ft.	(7) SCREENS: Well screen installed? Vos. Vos.	160		
Model No	Manufacturer's Name			
Diam. Slot size Set from ft. to ft. plan. Slot size Set from ft. plan. Slot size Set from ft. to ft. plan. Slot size Set from ft. to ft. plan. Slot size Set from ft. plan. Slot size Set fro	The state of the s			
Solution	Diam. Slot size Set from ft to	(12945TOOK BLUE 96 113 101		
Was a pump test made? Yes No If yes, by whom? Yield: gal/min. with ft. drawdown after hrs.	Diam. Slot size Set from ft. to ft.			
Was a pump test made?	(8) WELL TESTS. Drawdown is amount water level in	-CLAYSTONE BLUE 155 165		
Yield: gal/min. with ft. drawdown after hrs. Barier test Gal/min. with St. drawdown after hrs.				
Date test pepth artesian flow encountered ft. Work started 19 Completed 19 Date well drilling machine moved off of well 29 Date well drilling machine moved off of well 29 Date well drilling machine moved off of well 29 Date well drilling machine moved off of well 29 Date well drilling machine moved off of well 29 Date well drilling machine moved off of well 29 Date well drilling machine operator's Certification: This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and lefter. [Signed] [1] [Signed] [Contractor's Certification: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. Was a drive shoe used? Test to Figs Size: location ft. Was a drive shoe used? Test to Figs Size: location ft. Was a drive shoe used? Test to Figs Size: location ft. 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. Name (Person, firm or corporation) Care or print (Contractor) 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. Name (Person, firm or corporation) Care or print (Contractor) Care or print (Contractor) Care or print (Contractor) Contracted (Contractor)	Yield: gal /min with ft drawdown att			
Deficit test 7 gal./min. with/ 3tt. drawdown after hrs. Arteslan flow gp.m. Description: (9) CONSTRUCTION: Well seal—Material used	"			
Artesian flow perature of water Depth artesian flow encountered ft. (9) CONSTRUCTION: Well seal—Material used Well sealed from land surface to Diameter of well bore to bottom of seal in Diameter of well bore to bottom of seal in Diameter of well bore below seal in Diameter of well was cement grout placed? Number of sacks of cement used in Well seal sacks in Diameter of well bore below seal in Diameter of well was cement grout placed? 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. Name 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. Name 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. Name 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. Name 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. Name 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. Name 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. Name Water Well Contractor's Certification: This well was drilled under my jurisdiction and this				
Artesian flow perature of water Depth artesian flow encountered ft. (9) CONSTRUCTION: Well seal—Material used Well sealed from land surface to Diameter of well bore to bottom of seal in Diameter of well bore to bottom of seal in Diameter of well bore below seal in Diameter of well was cement grout placed? Number of sacks of cement used in Well seal sacks in Diameter of well bore below seal in Diameter of well was cement grout placed? 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. Name 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. Name 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. Name 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. Name 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. Name 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. Name 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. Name Water Well Contractor's Certification: This well was drilled under my jurisdiction and this				
Work started 19 Completed 19 Date well drilling machine moved off of well (-3 19) Date well drilling machine moved off of well (-3 19) Date well drilling machine moved off of well (-3 19) Date well drilling machine moved off of well (-3 19) Date well drilling machine moved off of well (-3 19) Date well drilling machine moved off of well (-3 19) Drilling Machine Operator's Certification: This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief. [Signed] F17. [Signed] F17. [Drilling Machine Operator's License No. 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. Name (Person, firm or corporation) (Type or print) Address Address Gravel placed from the strata off (Water well Contractor) (Water well Contractor) (Water well Contractor) (Water well Contractor)				
Date well drilling machine moved off of well (-3 19) Date well drilling machine operator's Certification: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. Name (Person, firm or corporation) (Person, firm or c	Artesian flow g.p.m.			
Date well drilling machine moved off of well 19 Date well drilling machine moved off of well 19 Date well drilling machine moved off of well 19 Drilling Machine Operator's Certification: This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief. [Signed] [Signed] [Drilling Machine Operator's License No. 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. Name [Person, firm or corporation] [Signed] [Signed] [Person, firm or corporation] [Person, firm or corporation] [Signed] [Signed] [Signed] [Signed] [Signed] [Signed] [Signed] [Contractor's Certification: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. Name [Person, firm or corporation] [Person, firm or co	perature of water Depth artesian flow encountered ft.	Work started (->> 16>> 2		
Well seal—Material used Well sealed from land surface to Diameter of well bore to bottom of seal Diameter of well bore below seal Diameter of well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief. Diameter of well bore below seal Diameter of well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief. Diameter of well bore below seal Diameter of well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief. Diameter of well bore below seal Diameter of well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief. Diameter of well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief. Northly Matchine Operator's Certification: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. Name Person, firm or corporation (Person, firm or corporation) (Person, firm or corporation) (Water was Contractor) (Water was Contractor)	(9) CONSTRUCTION.	Completed 6 19/		
Well sealed from land surface to		5 50		
Diameter of well bore to bottom of seal in. Diameter of well bore below seal in. Number of sacks of cement used in well seal sacks. How was cement grout placed? Pres No Plugs Size: location of the best of my knowledge and belief. Was a drive shoe used? Yes No Plugs Size: location of the best of my knowledge and belief. Name Preson, firm or corporation of the best of my knowledge and belief. Name Preson, firm or corporation of the best of my knowledge and belief. Name Preson, firm or corporation of the best of my knowledge and belief. Name Preson, firm or corporation of the best of my knowledge and belief. Name Preson, firm or corporation of the best of my knowledge and belief. Name Preson, firm or corporation of the best of my knowledge and belief. Name Preson, firm or corporation of the best of my knowledge and belief. Name Preson, firm or corporation of the best of my knowledge and belief. Name Preson, firm or corporation of the best of my knowledge and belief. Name Preson, firm or corporation of the best of my knowledge and belief. Name Preson, firm or corporation of the best of my knowledge and belief. Name Preson, firm or corporation of the best of my knowledge and belief. Name Preson, firm or corporation of the best of my knowledge and belief. Name Preson, firm or corporation of the best of my knowledge and belief. Name Preson, firm or corporation of the best of my knowledge and belief. Name Preson, firm or corporation of the best of my knowledge and belief. Name Preson, firm or corporation of the best of my knowledge and belief. Name Preson, firm or corporation of the best of my knowledge and belief. Name Preson, firm or corporation of the best of my knowledge and belief. Name Preson, firm or corporation of the best of my knowledge and belief. Name Preson, firm or corporation of the best of my knowledge and belief. Name Preson, firm or corporation of the best of my knowledge and belief.	The state of the s	Drilling Machine Operator's Certification:		
Number of sacks of cement used in well seal sacks How was cement grout placed? Sacks How was cement grout placed? Sacks How was drive shoe used? Yes No Plugs Size: location ft. Did any strata contain unusable water? Yes No Type of water? Was well gravel placed? No Size of gravel: Gravel placed from ft. Contractor of well bore below seal for in with the sacks of cement used in well seal for in well sacks Sacks [Signed] Corlling Machine Operator's License No. 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. Name (Person, firm or corporation) (Water Well Contractor) (Water Well Contractor) (Water Well Contractor) (Water Well Contractor)	1.			
Number of sacks of cement used in well seal sacks How was cement grout placed? Programmed and the seal sacks How was cement grout placed? Programmed and the seal sacks Was a drive shoe used? Yes No Plugs Size: location ft. Did any strata contain unusable water? Yes No Type of water? denth of strata Method of sealing strata off Was well gravel packed? Yes No Size of gravel: Gravel placed from ft. Contractor's Certification: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. Name (Person, firm or corporation) (Signed) (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. Name (Signed) (Water Well Contractor) (Water Well Contractor)	Diameter of well have below seel	best knowledge and belief.		
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. Name (Person, firm or corporation) 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. Name (Person, firm or corporation) (Signed) (Water Well Contractor's License No.		[Signed] Ella esta Date 7-1		
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. Name (Person, firm or corporation) (Person, firm or corporation) (Address (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. Name (Person, firm or corporation) (Person, firm or corporation) (Signed) (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. Name (Person, firm or corporation) (Water Well Contractor) (Water Well Contractor)		Drilling Machine Operator)		
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. Name (Person, firm or corporation) (Person, firm or corporation) (Address (Water well Contractor) (Water well Contractor)	Jan Borning	and the Operator's License No		
Name (Person, firm or corporation) Type of water? depth of strata Method of sealing strata off Was well gravel packed? Yes No Size of gravel: Gravel placed from ft. to ft. t				
Old any strata contain unusable water?	Was a drive shoe used? T Voc Clark Divise	true to the best of my knowledge and belief		
Type of water? depth of strata Address				
Method of sealing strata off Was well gravel packed? Yes No Size of gravel: Gravel placed from Contractory Contract		(Person, firm or corporation) (Type or print)		
Was well gravel packed? Yes No Size of gravel: (Water well Contractor)				
Gravel placed from		[Signed]		
Fravel placed fromft. toft. Contractor's License No. 5 25 Date				
	Gravel placed from	Contractor's License No. 5 15 Date 7-5		

The original and first copy of this representation are to be filed with the WATER RESOURCES DEPARTMENT,

SALEM, OREGON 97310

within 30 days from the date

of well completion.

WATER COUNTY (Do not write above this line)

State Well No. 355/1W-2	7
-------------------------	---

State Permit No.

	V		
(1) OWNER:	(10) LQCATION OF WELL:		
Name MILLER & EGG KANCH	County CK Con Driller's well number		
Address 13004 PATER LAKE HALT	V 27 - 37 - 37 - 3		
EAGLE POINT DREGIN	Bearing and distance from section or subdivision corner 1700		
(2) TYPE OF WORK (check):	10		
New Well ☐ Deepening ☐ Reconditioning ☐ Abandon ☐	Contage M. F. Brobser		
If abandonment, describe material and procedure in Item 12.	(11) WATER LEVEL: Completed well.		
(3) TYPE OF WELL: (4) PROPOSED USE (check):			
Rotary Driven Demestic Demestic Demestic Description Demestic Description Demestic Description Descrip	Depth at which water was first found 99 ft.		
Cable	Static level ft. below land surface. Date (-\)7-\)		
	Artesian pressure lbs. per square inch. Date		
CASING INSTALLED: Threaded Welded	(12) WELL LOG: Diameter of well below easing		
Diam. from the to 19 ft. Gage 1250	Depth drilled ft. Depth of completed well of t.		
"Diam. from			
	Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated,		
PERFORATIONS: Perforated? Yes No.	with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.		
Type of perforator used	MATTERTAL		
Size of perforations in. by in.	Tom To SWL		
perforations from ft. to ft.	Brown 0 1		
perforations from ft. to ft.	PASA - 600 1 16 78 - 21		
perforations from ft. to ft.	CLAYSTONE BUE 28 94		
(7) CORECTO	BASOLT GRAY 94 97 78		
borden mistaned. 163 140	CLAUSTONE TUNE 97 123		
Manufacturer's Name	BASAUT 62A" 123 197		
Diam. Slot size Set from ft. to ft.	CLAYSTONE BUE 197 173		
Diam. Slot size Set from ft. to ft.	CHAUSTONE DROKEN BLUE 173 179 28		
	CLAY 500E BUT 174 200		
(8) WELL TESTS: Drawdown is amount water level is lowered below static level			
Was a pump test made? ☐ Yes ☐ No If yes, by whom?			
Yield: gal./min. with ft. drawdown after hrs.			
" " "			
_"			
Bailer test 30 gal./min. with 26t. drawdown after hrs.			
Artesian flow g.p.m.			
perature of water Depth artesian flow encountered ft.			
	Work started [19] Completed [19]		
(9) CONSTRUCTION:	Date well drilling machine moved off of well [19]		
Well seal—Material used CEment	Drilling Machine Operator's Certification:		
Well sealed from land surface to	This well was constructed under my direct supervision. Materials used and information reported above are true to my		
Diameter of well bore to bottom of seal in,	best knowledge and belief.		
Diameter of well bore below seal in.) Number of sacks of cement used in well seal sacks			
w was cement grout placed? — Source Story Drilling Machine Operator's License No.			
dem Diston of	operator's Literise 140.		
	Water Well Contractor's Certification:		
The state of the s	This well was drilled under my jurisdiction and this report is		
Was a drive shoe used? 🗆 Yes 🖫 No Plugs Size: location ft.	ft. true to the best of my knowledge and helief.		
Did any strata contain unusable water? If Yes PNo	Name (Person, firm or corporation) (Type or print)		
Type of water? depth of strata	Address 1923 Della Waters Pol Hart.		
Method of sealing strata off	Simula Charles 1 1 2		
Was well gravel packed? Yes No Size of gravel:	[Signed] (Water Well/Contractor)		
Gravel placed from	Contractor's License No. 525 Date 7-5		
	Date, 19,		

STATE OF OREGON

WATER WELL REPORT (as required by ORS 537.765)

WATER RESOURCES DEPO 158 SALEM, OREGON JACK

	355/	2w	12	7
8ID) #	19449	7		

(START CARD) #

(1) OWNER: Well Number:	(9) LOCATION OF WELL by legal description:	
Name Willamette Egg Farm	County Jackson Latitude Longitude	
Address 13003 Highway 62	Township 35S Nor S, Range 2W E or W, WM.	
City Facle Point State OR Zip 97524	Section	
(2) TYPE OF WORK:	Tax Lot 400 Lot Block Subdivision	
KKNew Well Deepen Recondition Abandon	Street Address of Well (or nearest address) 13003 Highway 62	
(3) DRILL METHOD	Eagle Point, Oregon 97524	
Rotary Air Rotary Mud Cable	(10) STATIC WATER LEVEL:	
Other	21 ft. below land surface. Date 6-11-90	
(4) PROPOSED USE:	Artesian pressure lb. per square inch. Date	
Domestic Community Industrial Irrigation		
☐ Thermal ☐ Injection ☐ Other	(11) WATER BEARING ZONES:	
(5) BORE HOLE CONSTRUCTION:	Depth at which water was first found182	
Special Construction approval Yes No Depth of Completed Well 300 ft.	From To Estimated Flow Rate SWL	
	182 183 15	
Explosives used Type Amount	236 238 15	
HOLE SEAL Amount	243 280 175-225 21	
Diameter From To Material From To sacks or pounds 12 0 76 cement 0 76 45 sacks		
12 0 76 cement 0 76 45 sacks 8 76 301	(12) WELL LOG: Cround elevation	
	Ground elevation	
	Material From To SWL Shale, fill 0 4	
How was seal placed: Method	clay, sticky, brown # 25	
Other	", W/gravel, small breaks 25, 60	
Backfill placed fromft. toft. Material	claystone, light blue 60 114	
Gravel placed fromft. toft. Size of gravel	sandstone, light blue, tight 144 121	
(6) CASING/LINER: Diameter From To Gauge Steel Plastic Welded Threaded		
011 10 100 100 100		
Casing: 8" +2 76,250 XX	160	
	nia nia	
Liner: 6" 0 300,250	STUDEBAKER DRILLING, INC.	
	1400 Ernold Lane	
Final location of shoe(s)	Medford, Oregon 97501	
(7) PERFORATIONS/SCREENS:		
Perforations Method GIT11 Saw		
Slot Tele/pipe		
From To size Number Diameter size Casing Liner	,	
180 300 6" 500 1/8" \pi		
	4	
	Date started 6-9-90 Completed 6-11-90	
	(unbonded) Water Well Constructor Certification:	
(8) WELL TESTS: Minimum testing time is 1 hour	I certify that the work I performed on the construction, alteration, or	
☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian	abandonment of this well is in compliance with Oregon well construction	
Yield gal/min Drawdown Drill stem at Time	standards. Materials used and information reported above are true to my best knowledge and belief.	
720	WWC Number 432	
200–250 299'	Signer Mush M Canada Date 6-12-90	
277		
	(bonded) Water Well Constructor Certification:	
Temperature of water Depth Artesian Flow Found I accept responsibility for the construction, alteration, or abandonmen work performed on this well during the construction dates reported above. al		
work performed during this time is in compliance with Oregon w		
Did any strata contain water not suitable for intended use? Too little Salty Muddy Odor Colored Other WWC Number WWC Number		
WWC Number		
Depth of strata:	Signed Date 6-12-90	
ORIGINAL & FIRST COPY - WATER RESOURCES DEPARTMENT SECON	D COPY - CONSTRUCTOR THIRD COPY - CUSTOMER 2000C 2/00	