Groundwater Application Review Summary Form

Application # G- 18429
GW Reviewer M. Thome Date Review Completed: 07.19.17
Summary of GW Availability and Injury Review:
[] Groundwater for the proposed use is either over appropriated, will not likely be available in the amounts requested without injury to prior water rights, OR will not likely be available within the capacity of the groundwater resource per Section B of the attached review form.
Summary of Potential for Substantial Interference 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 construction standards per Section D of the attache review form. Route through Well Construction and Compliance Section.
This is only a summary. Documentation is attached and should be read thoroughly to understand the basis for determinations and for conditions that may be necessary for a permit (if one is issued).

WATER RESOURCES DEPARTMENT

MEM	0						-	July	19	,20 <u>/</u>	7
TO:		Applic	ation G	- 184	19		_			† !	
FROM	1:	GW: _	M. The (Reviewe	onu er's Name)		_				
SUBJI	ECT: S	cenic W	[/] aterwa	y Inter	ference	Evalua	ition			1 7	
	YES NO	The sou	arce of a	appropri	ation is	within	or above	e a Scen	ic Wate	erway	
	YES NO	Use the	Scenic	Waterv	vay con	dition (C	Conditic	on 7J)	•		
□	interfe	rence w	835, the surrest of t	face wa	ater tha	t contri					
×	the De	rence w epartme he pro	835, the ith surfacent is unposed maintain	ace wat nable to use wil	er that o o find t ll meas	contributhat the surably	tes to a re is a reduce	scenic prepone the s	waterwa deranc surface	ay; then e of ev water	refore, idence
Calcula calculat	te the per ted, per c	rcentage (criteria ii	INTERI of consum of 390.835 at the Dep	iptive use 5, do noi	by mont	he table	but check	k the "un	able" op	tion abo	ve, thus
Water	way by	the follo	t is calcowing an	mounts			•		e consu		Scenic use by
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		:							:		



MEMO

To:

Kristopher Byrd, Well Construction and Compliance Section Manager

From:

Joel Jeffery, Well Construction Program Coordinator

Subject:

Review of Water Right Application G-18429 G-18419 (

Date:

October 16, 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 Log.

Applicant's Well #1 (JACK 19353): 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 diameter of the borehole to the bottom of the annular seal is not adequate and there was not enough grout used for the annular seal. In order to meet minimum well construction standards, the well must be properly resealed with an approved grout.

My recommendation is that the Department not issue a permit for Applicant's Well# 1 (JACK 19353) unless it is brought into compliance with current minimum well construction standards or information is provided showing that it is in compliance with current minimum well construction standards.

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

NOTICE TO WATER WELL CONTRACTOR
The original and first copy
of this report are to be
filed with the

STATE ENGINEER, SALEM, OREGON 97318 within 30 days from the date of well completion.

WATER WELL REPORTE GE V STATE OF OREGON

(Please type or print)

OCT 14 1976 tate Permit No.

o not write above this line) VATER	RESOURCES DEPT.
	The state of the s

(1) OWNER:	(10) LOCATION OF WEEL:	
Name KENT E. STOVER	County JACKSON Driller's well number	
Address 9/30 Hw4 /40		W.M.
EAGLE POINT, ORE.	Bearing and distance from section or subdivision corner	
(2) TYPE OF WORK (check):	APPRO. 2400' W. AND BOO' N. FROM S	T.E.
New Well 💢 Deepening 🗆 Reconditioning 🗅 Abandon 🗆	CON	CNER.
If abandonment, describe material and procedure in Item 12.	(11) WATER LEVEL: Completed well.	_
(3) TYPE OF WELL: (4) PROPOSED USE (check):	Depth at which water was first found 57	ft.
Rotary Driven Domestic M Industrial Municipal D	Static level 28 ft. below land surface. Date/0-6	76
Cable Jetted Jetted Irrigation Test Well Other	Artesian pressure Ibs. per square inch. Date	<u></u>
1	ins. per square men. Date	
CASING INSTALLED: Threaded Welded	(12) WELL LOG: Diameter of well below casing 6	
	Depth drilled 76 ft. Depth of completed well 76	ft.
	Formation: Describe color, texture, grain size and structure of mate	rials:
ft. toft. Gage	and show thickness and nature of each stratum and aquifer penetr	rated,
(v) PERFORATIONS: Perforated? Yes No.	with at least one entry for each change of formation. Report each chan position of Static Water Level and indicate principal water-bearing s	
Type of perforator used	MATERIAL From To S	WL
Size of perforations in. by in.	Soil BLACK 0 2	
perforations from ft. to ft.	BROKEN ROCK, BROWN 2 6	 .
perforations from ft. to ft.	BASALT BROWN 6 9	
perforations from ft. to ft.	CLAYSTONE BLUE 9 22	
	CLAYSTONE LIGHT RED 22 24	
(7) SCREENS: Well screen installed? Yes No	CLAYSTONE BLUE HARD 34 76 2	-8
Manufacturer's Name		
Type Model No.		
Diam. Slot size Set from ft. to ft. Diam. Slot size Set from ft. jo ft.		
Didnit amount of the state of t		
(8) WELL TESTS: Drawdown is amount water level is lowered below static level		
Was a pump test made? ☐ Yes ⚠ No 11 yes, by whom?		
d: gal./min. with it. drawdown after hrs.		
" see. " "		
"4"		
Refur test 60 gal./min. with 8 ft. drawdown after 1 hrs.		
esian flow g.p.m.		 .
hperature of water Depth artesian flow encounteredft.	Work started 10-6 1976 Completed 10-6	
inderature of water. Debth stressing now excountered.		1976
(9) CONSTRUCTION:	Date well drilling machine moved off of well	1976
Well scal-Material used Ressure Coment Growt	Drilling Machine Operator's Certification:	_
Well sealed from land surface to	This well was constructed under my direct supervis Materials used and information reported above are true to	ion.
Diameter of well bore to bottom of sealin.	best knowledge and helief	· 111.5
Diameter of well bore below seal in in in.	[Signed] Loss Wartures Date 10-6, 11	2.6
Number of sacks of cement used in well seal sacks	Drilling Machine Operator's License No. 620	
Number of sacks of bentonite used in well seal sacks	The state of the s	
Brand name of bentonite	Water Well Contractor's Certification:	
Number of pounds of bentonite per 100 gallons of water Ibs./100 gals.	This well was drilled under my jurisdiction and this repo	rt is
Was a drive shoe used? ☐ Yes A No Plugs Size: location ft_	true to the best of my knowledge and belief.	متورير
Did any strata contain unusable water \(\subseteq \text{Yes } \text{No} \)	Name (Person, firm or corporation) (Type or print)	سن
Type of water? depth of strata	Address 81 BALL Rd. EAGLE POLA	TAR
Method of sealing strata off	() wait	
Was well gravel packed? Yes No Size of gravel:	[Signed] IWater Well Contractor)	
Gravel placed from ft. tott.	Contractor's License No. 406 Date 10-6	76
(USE ADDITIONAL SH		58-110

For Off		
rur vjji	icial Use Only by The Orcgon Water R	esources Department:
Received Date:	Well Log Number:	Well Identification Tag #:
RECEIVED	JACK 19353	L83511
MAR 1 5 2006		
ITER RESOURCES DEPT. API	PLICATION FOR A WELL IDE	ENTIFICATION TAG
		this is well # <u>l</u> of <u>l</u> wells on this proper
Do no	ot complete form if your well already has	a tag attached to the casing.
LANDOWNER INFO	RMATION PLEASE PR	IINT
Current landowner's name	and mailing address: Marga	ret Fay
10,000 H	wy 140 tagle tothe	-, OR 97524
Mail top and paneguarle to	(current landowner or realtor, or to buye	ar if mean only has alored in acceptable
Man lag and paperwork to:	(current randowner of realitor, of to buye	in property has closed in escrow)
Application submitted by:	(name & phone, fax # or e-mail)	Calcheath @ Nown 1 Scott
WELL LOCATION II	NFORMATION	Galbreath @ John I Scott Demail IS rong @ john Lso
WELL LOCATION II Township #: 36	NFORMATION (North or South) Range #:	(East or West)
WELL LOCATION II Township #: 36 Section # 3 Tax 1	NFORMATION (North or South) Range #: Lot #: County	(East or West)
WELL LOCATION II Township #: 36 Section # 3 Tax 1 Street address & city of well	NFORMATION (North or South) Range #: Lot #:	Lackson Dale Point
WELL LOCATION II Township #: 36 Section # 3 Tax 1 Street address & city of well	NFORMATION (North or South) Range #: Lot #: County	Lackson Dale Point
WELL LOCATION II Township #: 36 Section # 3 Tax I Street address & city of well Owner at time the well was	NFORMATION (North or South) Range #: Lot #:	Lackson Dale Point
WELL LOCATION II Township #: 36 Section # 3 Tax I Street address & city of well Owner at time the well was	NFORMATION (North or South) Range #: Lot #:	Lackson ackson ackson ackson ackson ackson ackson ackson
WELL LOCATION II Township #: 3 Tax I Street address & city of well Owner at time the well was If the property had a different	NFORMATION	Lackson ackson ackson ackson ackson ackson ackson ackson
WELL LOCATION II Township #: 3 Tax I Street address & city of well Owner at time the well was If the property had a different	NFORMATION (North or South) Range #: Lot #:	(East or West) LackSon Dogle Point Ons) Kent Source ate it, if known:
WELL LOCATION II Township #: 3 Tax 1 Street address & city of well Owner at time the well was If the property had a difference If known: 1/4 1/4 WELL INFORMATIO	NFORMATION (North or South) Range #: Lot #:	East or West) LackSom LackSo

Applications can be mailed to: Oregon Water Resources Department - 725 Summer Street N.E., Suite A - Salem, OR 97301-1271 OR fax to 503-986-0902. Applications are processed and tags mailed every Tuesday. Thank you for participating in Oregon's Well Identification Program!

(revised 8/05)

PUBLIC INTEREST REVIEW FOR GROUNDWATER APPLICATIONS TO: Water Rights Section Date _____ July 19, 2017 Groundwater Section Michael Thoma FROM: Reviewer's Name SUBJECT: Application G- 18419 Supersedes review of Date of Review(s) 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 groundwater 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: Russell Webb County: Jackson Applicant(s) seek(s) -0.03 cfs from 1 well(s) in the Rogue Basin, A1. subbasin Little Butte Cr A2. Proposed use ______Irrigation (15 ac) Seasonality: April 1 – October 31 (214 d) A3. Well and aquifer data (attach and number logs for existing wells; mark proposed wells as such under logid): Applicant's Proposed Location Location, metes and bounds, e.g. Well Logid Proposed Aquifer* Well# Rate(cfs) (T/R-S QQ-Q) 2250' N, 1200' E fr NW cor S 36 JACK 19353 Well #1 Bedrock 36S/01E-3 SWSE 1 0.03 1955'N, 1401'W of SE cor S3 * Alluvium, CRB, Bedrock Well Well First Seal Casing Liner Perforations Well Draw SWL **SWL** Test Well Elev Water Depth Interval Intervals Intervals Or Screens Yield Down ft bls Date Type ft msl ft bls (ft) (ft) (ft) (ft) (ft) (gpm) (ft) 28 10/6/1976 1580 57 76 0-19 Α Use data from application for proposed wells. A4. Comments: A5. Provisions of the Rogue (OAR 690-515) Basin rules relative to the development, classification and/or management of groundwater hydraulically connected to surface water \square are, or \boxtimes are not, activated by this application. (Not all basin rules contain such provisions.) Comments: _____, ___, ___, ___, tap(s) an aquifer limited by an administrative restriction. Name of administrative area:

Comments:

Version: 04/20/2015

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

a. ☐ is over appropriated, ☐ is not over appropriated, or ☒ 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. ☐ will not or ☐ 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) _TC (T-yr SWL); 7J (Seenic); Medium 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; a. ☐ Condition to allow groundwater production from no deeper than ft. below land surface; b. ☐ Condition to allow groundwater production only from the groundwater reservoir between approximately ft. and 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 are lated to water availability— that is likely to occur without well reconstruction (interference w/ senior water rights, not within the capacity of the resource, etc): Groundwater availability remarks: There are no OWRD Observation Well data in the area of the propos	1. Based up	on available data, I have determined that groundwater* for the proposed use:
is limited to the groundwater 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 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) \(\frac{TC-Vr SWL}{1} \) (Scenic): Medium 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; a. Condition to allow groundwater production from no deeper than ft. below land surface; b. 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 injuryas 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):	p	period of the proposed use. * This finding is limited to the groundwater portion of the over-appropriation
 d.		
i. The permit should contain condition #(s) TC (7-vr SWL); 7Ĵ (Scenic); Medium 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; a. Condition to allow groundwater production from no deeper than ft. below land surface; b. Condition to allow groundwater production only from the groundwater reservoir between approximately ft. and 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): Groundwater availability remarks: There are no OWRD Observation Well data in the area of the proposed POA so groundwater over-appropriation cannot be determined. There are also no permitted groundwater POAs within 1 mile of the proposed POA so injury to existing permitted groundwater users is unlikely. Taxlot density is low surrounding the proposed POA so significant interference with existing domestic wells is unlikely.	c. 🔲	will not or will likely to be available within the capacity of the groundwater resource; or
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): Groundwater availability remarks: There are no OWRD Observation Well data in the area of the proposed POA so groundwater over-appropriation cannot be determined. There are also no permitted groundwater POAs within 1 mile of the proposed POA so injury to existing permitted groundwater users is unlikely. Taxlot density is low surrounding the proposed POA so significant interference with existing domestic wells is unlikely.	· i.	The permit should contain condition #(s) 7C (7-yr SWL); 7J (Scenic); Medium Water-use Reporting; The permit should be conditioned as indicated in item 2 below.
c. Condition to allow groundwater production only from the groundwater reservoir between approximately ft. and ft. and 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): Groundwater availability remarks: There are no OWRD Observation Well data in the area of the proposed POA so groundwater over-appropriation cannot be determined. There are also no permitted groundwater POAs within 1 mile of the proposed POA so injury to existing permitted groundwater users is unlikely. Taxlot density is low surrounding the proposed POA so significant interference with existing domestic wells is unlikely.	a.	Condition to allow groundwater production from no deeper than 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): Groundwater availability remarks: There are no OWRD Observation Well data in the area of the proposed POA so groundwater over-appropriation cannot be determined. There are also no permitted groundwater POAs within 1 mile of the proposed POA so injury to existing permitted groundwater users is unlikely. Taxlot density is low surrounding the proposed POA so significant interference with existing domestic wells is unlikely.	b. 🔲	Condition to allow groundwater production from no shallower than ft. below land surface;
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): Groundwater availability remarks: There are no OWRD Observation Well data in the area of the proposed POA so groundwater over-appropriation cannot be determined. There are also no permitted groundwater POAs within 1 mile of the proposed POA so injury to existing permitted groundwater users is unlikely. Taxlot density is low surrounding the proposed POA so significant interference with existing domestic wells is unlikely.	c.	Condition to allow groundwater production only from the groundwater reservoir between approximately ft. and ft. below and surface;
Groundwater availability remarks: There are no OWRD Observation Well data in the area of the proposed POA so groundwater over-appropriation cannot be determined. There are also no permitted groundwater POAs within 1 mile of the proposed POA so injury to existing permitted groundwater users is unlikely. Taxlot density is low surrounding the proposed POA so significant interference with existing domestic wells is unlikely.	te is	o occur with this use and without reconstructing are cited below. Without reconstruction, I recommend withholding ssuance of the permit until evidence of well reconstruction is filed with the Department and approved by the
groundwater over-appropriation cannot be determined. There are also no permitted groundwater POAs within 1 mile of the proposed POA so injury to existing permitted groundwater users is unlikely. Taxlot density is low surrounding the proposed POA so significant interference with existing domestic wells is unlikely.		
groundwater over-appropriation cannot be determined. There are also no permitted groundwater POAs within 1 mile of the proposed POA so injury to existing permitted groundwater users is unlikely. Taxlot density is low surrounding the proposed POA so significant interference with existing domestic wells is unlikely.		· · · · · · · · · · · · · · · · · · ·
groundwater over-appropriation cannot be determined. There are also no permitted groundwater POAs within 1 mile of the proposed POA so injury to existing permitted groundwater users is unlikely. Taxlot density is low surrounding the proposed POA so significant interference with existing domestic wells is unlikely.		
	groundwa proposed	ter over-appropriation cannot be determined. There are also no permitted groundwater POAs within 1 mile of the POA so injury to existing permitted groundwater users is unlikely. Taxlot density is low surrounding the proposed

C. GROUNDWATER/SURFACE WATER CONSIDERATIONS, OAR 690-09-040

C1.	690-09-040 ·	(1)):	Evaluation	of	aquifer	confinement	t:
-----	--------------	-----	----	------------	----	---------	-------------	----

Well	Aquifer or Proposed Aquifer	Confined	Unconfined
1	Volcanics of Roxy Fm.		

Basis for aquifer confinement evaluation: Water-bearing zones in the Roxy Fm. rocks are generally in brecciated or fractured, horizontally stratified zones which often produce confined aquifer conditions; well logs for the surrounding area and of similar depths as the applicant's proposed report SWL near or above First Water indicating at least partially-confined aquifer 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 ¼ mile from a surface water source that produce water from an unconfined aquifer shall be assumed to be hydraulically connected to the surface water source. 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	Little Butte Cr.	~1550	1460-1490	2900		
1	2	Lick Cr.	~1550	1460-1500	2210		

Basis for aquifer hydraulic connection evaluation: <u>GW elevations are estimated to be above SW elevations suggesting that groundwater is flowing towards and discharging to surface water</u>

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?
1	1			MF262	20.0		23.3		**	
1	2			NA	NA		23.3		**	
									11 .	

Comments: **Interference @ 30 d could not be estimated because the complex geology (fractured bedrock aquifer juxtaposed with alluvial deposits) do not meet model assumptions of the widely accepted techniques for determining stream depletion (e.g., Hunt 1999, 2003)

Version: 04/20/2015

C3b. 690-0 9 conne	0-040 (cted ar	(4): Eva	luation of an 1 mile	stream i	mpacts <u>b</u> urface w	y total app ater source	propriation e. Comple	for all we	ells dete O is dis	rmined or tributed 2	assumed to	be hydr ls. Othery	aulically
			ions apply				P	-	C 12 0.11			io. Other	viso sum
	SW #		Qw 5 cfs	s? Ri	iter ght	Instream Water Right Q	Qw > 1% ISWR?	809 Natu Flo	ral w	0w > 1% of 80% Natural	Interfere @ 30 da (%)	nce lys fo	otential or Subst. nterfer.
	 	·				(cfs)		(cfs	5)	Flow?		A	ssumed?
<u> </u>	<u> </u>						<u> </u>						
Comn	nents:										- <u>-</u>		
This tab	age of ole enco	the propo ompasses	sed pump the cons	oing rate. iderations	Limit ev required	cally connaluation to I by 09-040 In one WA	the effect 0 (5)(a), (b	s that will), (c) and	occur u	p to one y	ear after pu	imping be	egins. m. Use
Non-Distril Well S	buted ` W#	Wells Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	76	%	%	7/0		<u>%</u>	%	760
Well Q as C Interference					No surfa	ace water	sources be	eyond 1 n	nile wer	e evaluate	d		
Distributed	Wells												
	W#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Wall O	NEG.	<u>%</u>	%	%	%	%	%	%	%	%	%	%	%
Well Q as C Interference						ļ			<u> </u>	-	-		
		· ·			<u> </u>	_1			L				<u> </u>
(A) = Total In						-							
(B) = 80 % Ns (C) = 1 % Ns	+	-							ļ	 	 		
(0) = 1 70 140					l	<u> </u>			<u> </u>		<u> </u>		
$(\mathbf{D}) = (\mathbf{A}) >$		·,'	1"	'	- /	7'			.,.				85
$(\mathbf{E}) = (\mathbf{A} / \mathbf{B}) \mathbf{x}$		%	%	%	%	%	%	%	%	%	%	%	%
(A) = total inte CFS; (D) = hi Basis i	ghlight	the check	mark for e	ach month	where (A	is greater	than (C); (s CFS; (C E) = total i) = 1% 0 nterferen	ce divided l	natural flow	v at 80% e:	tage.
Ri C5.	ghts S coperly cr this p i.	ection. y condition permit ca The per	oned, the n be regul	surface wated if it	vater sour is found conditio		be adequat	ely protection with the	cted fror	n interfere water:		-	
C6. SW/GV	V Rem raulica	arks and	l Conditi	ons: <u>Th</u> urface wa	e applica	condition(s ant's propo ifically Litt e proposed	sed well v	vould be p	oroducin Treeks, a	g from an t distances	of < 1 mil	e. Howev	er, there

	eferences Used: (unt, B. 1999. <i>Unsteady St</i>	ream Depletion from Ground Water Pumping. Journ	nal of Hydrologic Engineering, Vol 8(1),	pp 12-19
	(1), pp 12-19	ream Depletion when Pumping from a Semiconfined	d Aquifer. Journal of Hydrologic Enginee	ring. Vol
		G. Johnson, B. C. Moring, F. Gray. 1982. Prelimina alifornia. USGS Open-file Report 82-955	ary Geologic Map of the Medford 1 by 2	<u>Degree</u>
<u>C</u>	WRD Well Log Database	<u>– Accessed 7/19/2017.</u>		
			,	
D. <u>W</u>	ELL CONSTRUCTION	N, OAR 690-200		
D1.	Well #:	Logid:		
D2.	a. review of the	appear to meet current well construction standa well log; n by		
	c. report of CW	RE		
D3.	THE WELL construc	tion deficiency or other comment is described as	follows:	
D4.		nstruction and Compliance Section for a review		

5

Page

Application G-18419

E. ATTACHMENTS

Water-Level Trends in Nearby Wells

There are no nearby wells will water-level data:

Water Availability Tables

Water Availability Analysis Detailed Reports

LITTLE BUTTE CR > ROGUE R - AT MOUTH ROGUE BASIN

Water Availability as of 7/19/2017

Watershed ID #: 263 (Map)

Date: 7/19/2017

Exceedance Level: 80% -

Date: 7/19/2017

Time: 1:11 PM

Consumptive Uses and Storages

Instream Flow Requirements

Reservations

Water Rights

Watershed Characteristics

Water Availability Calculation

Monthly Streamflow in Cubic Feet per Second Annual Volume at 50% Exceedance in Acre-Feet

Month	Natural Stream Flow	Consumptive Uses and Storages	Expected Stream Flow	Reserved Stream Flow	Instream Flow Requirement	Net Water Available
JAN	133.00	44.20	88.80	0.00	100,00	-11.20
FEB :	206.00	55.30	151.00	0.00	100.00	50.70
MAR :	236.00	58.90	177.00	0.00	100.00	::. : : 77,10
APR	297.00	17.80	279.00	0.00	100.00	1,79,00
MAY	141.00	30.90	110.00	0.00	60.00	50.10
JUN -	82.50	48.90	33.60	0.00	20.00	- 13.60
JUL	73.90	69.80	4.05	0.00	20.00	-15.90
AUG	70.70	56 _. 70	14.00	0.00	20.00	-6.03
SEP	45.90	35.40	10.50			-109.00
OCT	23.30	12.00	11.30	[0.00	120.00	-109.00
NOA:	34.40	22,10	12.30	0.00	100.00	-87.70
DEC	60.80	37,90	22.90	0.00	100.00	-77.10
ANN	153,000.00	29,600.00	123,000.00	0.00	57,800.00	82,800.00

;;;;;; **L**

