Groundwater Application Review Summary Form

Application # G18924	
GW Reviewer Phil Marcy Date Review Comple	eted:04/01/2020
Summary of GW Availability and Injury Review:	
[] Groundwater for the proposed use is either over ap amounts requested without injury to prior water rights capacity of the groundwater resource per Section B of	, OR will not likely be available within the
Summary of Potential for Substantial Interference Rev	view:
[] There is the potential for substantial interference p	er Section C of the attached review form.
Summary of Well Construction Assessment:	
[] The well does not appear to meet current well cons review form. Route through Well Construction and Co	
This is only a summary. Documentation is attached an	d should be read thoroughly to understand the
basis for determinations and for conditions that may be	e necessary for a permit (if one is issued).

Version: 03/36/2020

WATER RESOURCES DEPARTMENT

MEM()						<u>A</u>	pril 1st	,	20 <u>20</u>		
TO:		Applica	ition G-	1892	4							
FROM	[:		Phillip Reviewer					_				
SUBJE	ECT: Sc	enic W	aterway	Interf	erence	Evaluat	ion					
_	ZES NO		ource of		oriation : itaries	is hydra	ulically	connect	ted to a	State So	cenic	
	YES NO	Use tl	ne Sceni	ic Wate	rway Co	ondition	(Condi	tion 7J)				
iı	er ORS nterferer	ice with	surface	water th	hat conti							
ir D p	er ORS nterferer Departm roposed naintain	nce with ent is u I use w	surface nable t vill mea	water to find the surable	hat cont hat the y reduc	ributes re is a p	to a scer repond surface	nic wate erance water	rway; t	herefor ence tha	e, the at the	
Calculat per crite	IBUTIO e the perc ria in 390 artment is	entage of .835, do i	consump not fill in	tive use b the table	y month o but check	k the "unc	ıble" opti					
Waterw	e of this way by th water fl	ne follo	wing an	lated to	reduce expresse	monthly d as a p	/ flows : roportio	in _ on of the	e consui	Somptive u	cenic use by v	vhich
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
	1	ı		1	1					1		1

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PUBLIC INTEREST REVIEW FOR GROUNDWATER APPLICATIONS

TO: FROM	[:		Rights Sec dwater Sec			Phillip I	Date <u>04/01/2020</u> lip I. Marcy							
						Review	wer's Nam							
SUBJE	ECT:	Applic	ation G- <u>18</u>	3924		Sup	ersedes	rev	iew of					
PUBL	IC INTE	EREST	PRESUM	PTION: 0	GROUND)WATER					D	ate of Revi	ew(s)	
								lwat	er use will en	sure th	e preser	vation of	the publi	c
									groundwater					
									e proposed us					
									agency polici					
	•		RMATION						ison	•		ounty:E		
A1.	Applica	nt(s) seel	k(s) <u>0.038</u>	cfs from	2	well(s) in the		Willamette					Basin,
						subba	sin							
A2.			ursery , Irrig											
	Seasona	lity: Nu	rsery: year-	round, Irrig	ation: Mar	. 1 st -Oct. 3	1 st (245	days	5)					
A3.	Well an	d aquifer	data (attac	h and num	ber logs fo	or existing	wells; i	marl	k proposed v	vells as	such ur	ıder logi	d):	
Well	Log	id	Applicant's	Propose	ed Aquifer*	Propo			Location			n, metes a		
			Well #			Rate((T/R-S QQ-Q			, 1200' E		
1						0.03						N, 145'W fr S, 124'W fr		
3	DENT	1310	Main	Al	iuvium	0.03	0		125/5 W-18 NE-	NE	1/1	5, 124 W II	NE COT S	18
4														
5														
* Alluvii	um, CRB,	Bedrock												
	Well	First			Well	Seal	Casir	nα	Liner	Darfo	rations	Well	Draw	
Well		Water	SWL	SWL	Depth	Interval	Interv		Intervals		creens	Yield	Down	Test
	ft msl	ft bls	ft bls	Date	(ft)	(ft)	(ft)		(ft)		ft)	(gpm)	(ft)	Type
1										,		(8)	()	
-	-	-	-											
Use data	from appl	ication fo	r proposed w	ells.										
A4.									n application ells on the co					y not
									ocations will					
									s as listed in					
									d as PODs in					
A5. 🗌	Provisi	ons of th	ie <u>Willame</u>	tte (690-50	2-0240)		Basir	ı rule	es relative to	the dev	elopmer	nt, classif	ication ar	nd/or
						ted to surf	ace wate	er L	are, or 🖂	are not	t, activat	ed by this	applicat	ion.
			les contain s											
	Comme	nts: <u>Wel</u>	lls are not w	ithin one q	<u>uarter mile</u>	of a surfac	ce water	sour	rce.					
								-						
A6. 🗌	Well(s)	#		,	,	,	,	tap((s) an aquifer	limited	d by an a	dministra	itive restr	iction.
	Name of	f adminis	strative area	:										
	Comme	nts:												
													-	
											Ve	rsion: 03/3	6/2020	

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

	ed upon available data, I have determined that groundwater* for the proposed use:
a.	is over appropriated, ⊠ is not over appropriated, or □ cannot be determined to be over appropriated during any period of the proposed use. * 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) 7C 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;
o .	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):
	senior water rights, not within the capacity of the resource, etc):
two	nearby wells (BENT 5004 and BENT 768) displayed stable elevations for that time period (see attached hydrograph).
the reco	en the minimal groundwater development since that time, the reviewer assumes water levels remain reasonable stable in shallow aquifer system here. Water level measurement condition 7C (seven years of March measurements) is emmended due to the lack of recent data, and the potential threat to sustainability of the target aquifer with continued elopment.
the reco	shallow aquifer system here. Water level measurement condition 7C (seven years of March measurements) is emmended due to the lack of recent data, and the potential threat to sustainability of the target aquifer with continued
the reco	shallow aquifer system here. Water level measurement condition 7C (seven years of March measurements) is emmended due to the lack of recent data, and the potential threat to sustainability of the target aquifer with continued
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the reco	shallow aquifer system here. Water level measurement condition 7C (seven years of March measurements) is emmended due to the lack of recent data, and the potential threat to sustainability of the target aquifer with continued

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	Quaternary Gravels		\boxtimes
2	Sandstone of the Spencer Formation	\boxtimes	

Basis for aquifer confinement evaluation: POA 1 (BENT 5247) is open to gravels occurring between 40-49' below land surface, which are likely a portion of Holocene alluvial sequence, consisting of river gravels, interfingering with terrace deposits, flood plain silts, and blanketed by fine-grained material from the Missoula Floods. This overlying sequence of fines is punctured in many places nearby, and incised by local streams which reside at similar elevations to water level elevations within the well. The attached cross-section displays incision of Marys River at similar elevations of the water-bearing zones within BENT 5247. POA 2 (BENT 1510) is constructed to produce from sandstones of the Spencer Formation (McClaughry and others, 2003). Many nearby wells producing from this unit report relatively thin water-bearing zones within massive gray sandstone greater than 100' in thickness, suggesting groundwater movement is primarily fracture-controlled. Despite the close proximity of these two wells, the measured water levels at the time of drilling are 36' different in elevation.

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 Subst. Int Assume YES	erfer. ed? NO
1	1	Marys River	254	229-252	2700			\boxtimes
2	1	Marys River	218	229-252	2550			\boxtimes

Basis for aquifer hydraulic connection evaluation: Based upon well construction and available water levels, POA 1 (BENT 5247) is hydraulically connected to local surface water within mile, with the incision of Marys River likely rendering it in direct connection with the productive zones in the well. POA 2 (BENT 1510) is limited to production from fractures within massive sandstones of the Spencer Formation, and water levels here are significantly different from nearby surface waters within 1 mile. Any hydraulic connection between this well and also occur outside of 1 mile of the proposed POA.

Water Availability Basin the well(s) are located within: MARYS R > WILLAMETTE R - AT MOUTH

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			MF121A	5.00		19.6		<25%	

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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 lim	nitations apply a	s 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?
		9								

Comments: Impacts to Marys River as a result of pumping at BENT 5247 are expected to be less than 25% after 30 days, due to distance from the river and the presence of fine-grained sediments on the streambed which delay response to changing hydraulic gradient due to nearby groundwater pumping.

C4a. **690-09-040 (5):** Estimated impacts on **hydraulically connected surface water sources greater than one mile** as a percentage of the proposed pumping rate. Limit evaluation to the effects that will occur up to one year after pumping begins. This table encompasses the considerations required by 09-040 (5)(a), (b), (c) and (d), which are not included on this form. Use additional sheets if calculated flows from more than one WAB are required.

Non-Di	istributed	Wells											
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
	as CFS												
Interfere	ence CFS												
Distrib	uted Well	le											
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS				,,,	,,,	, 0	,,,	70	70	70	70	
Interfere	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfere	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	9/0
Well Q	as CFS												
Interfere	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfere	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
	as CFS												
Interfere	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
	as CFS												
Interfere	ence CFS												
(A) = To	tal Interf.												
(B) = 80	% Nat. Q												
(C) = 1	% Nat. Q												
(D) = ((A) > (C)	✓	✓	✓	✓	✓	√	✓	√	✓	√	√	√
$(\mathbf{E}) = (\mathbf{A})$	/ B) x 100	%	%	%	%	%	%	%	%	%	%	%	%
_ 4-4-1:		CEC: (I) WAD										,,,

(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.

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Basis for impact evaluation: This	section does not apply.		

C4b. 690-09-040 (5) (b) The potential Rights Section.	ıl to impair or detrimentally	affect the public interest is to be determ	nined by the Water
C5. If properly conditioned, the surfaunder this permit can be regulated i. The permit should con	if it is found to substantially in	quately protected from interference, and/onterfere with surface water:	or groundwater use
	ntain special condition(s) as in	dicated in "Remarks" below;	•
C6. SW / GW Remarks and Conditions:			
·			
		Herrera, N.B., Fischer, B.J. Morgan, D.S n, Oregon: U. S. Geological Survey Scien	
Gannett, Marshall W., and Caldwell, Rand Washington: U. S. Geological Sur		mework of the Willamette Lowland Aquij A.	fer System, Oregon
McClaughry, J.D., Wiley, T.J., Ferns, Benton, Lane, Linn, Marin, and Polk C		Digital Geologic Map of the Southern Will Open-File Report O-10-03.	lamette Valley,

D. WELL CONSTRUCTION, OAR 690-200

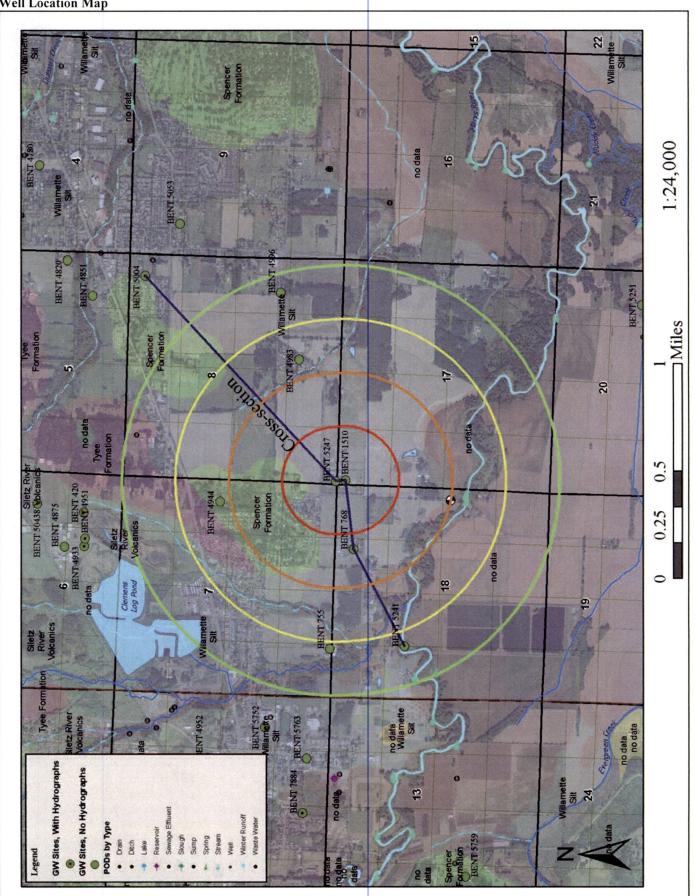
D1.	Well #: _	Logid:
D2.	a.	ELL does not appear to meet current well construction standards based upon: review of the well log; field inspection by
D3.	THE WE	ELL construction deficiency or other comment is described as follows:
D4.	Route to	the Well Construction and Compliance Section for a review of existing well construction.

Water Availability Tables

		DETAILED REPORT	ON THE WATER AVAILA	BILITY CALCULATIO	N				
watershed ID #: Time: 3:23 PM	70748	MARYS R > WILLAMETTE R - AT MOUTH 8 Basin: WILLAMETTE Exceedance Leve Date: 03/31							
Month	Natural Stream Flow	Consumptive Use and Storage	Expected Stream Flow	Reserved Stream Flow	Instream Requirements	Net Water Available			
Monthly values are in cfs. Storage is the annual amount at 50% exceedance in ac-ft.									
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC ANN	579.00 661.00 567.00 350.00 188.00 90.60 40.00 24.10 19.60 23.60 71.00 424.00 358,000	10.90 10.50 9.87 8.65 14.50 24.20 34.10 29.00 19.10 6.96 7.54 10.50	568.00 651.00 557.00 341.00 174.00 66.40 5.86 -4.94 0.51 16.60 63.50 414.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	135.00 135.00 135.00 135.00 135.00 70.00 20.00 15.00 15.00 38.70 135.00 66,400	433.00 516.00 422.00 206.00 38.50 -3.59 -14.10 -19.90 -14.50 -22.10 -71.50 279.00 282,000			

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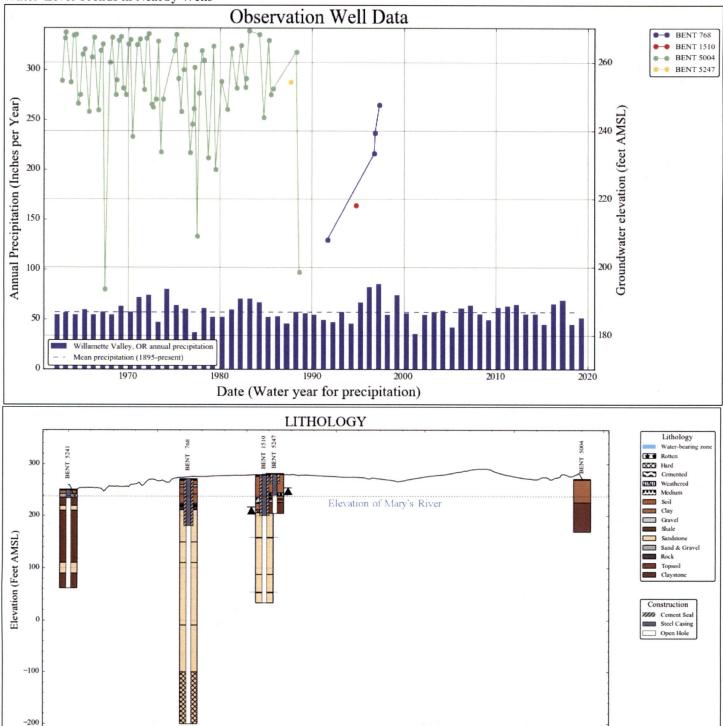
-200

2000

4000

Page

Water-Level Trends in Nearby Wells



Cross-section illustrates the correspondence of water-bearing gravels and head elevation of POA well 1 (BENT 5247) with the nearby Marys River. POA well 2 (BENT 1510) produces from discrete portions of the Spencer Formation sandstone, with resulting head elevations much lower. Cross-section well locations displayed on attached map.

6000 Distance (Feet)

Approved: The Hell

MEMO

To:

Kristopher Byrd, Well Construction and Compliance Section Manager

From:

Travis Kelly, Well Construction Program Coordinator

Subject:

Review of Water Right Application G-18924

Date:

April 8, 2020

The attached application was forwarded to the Well Construction and Compliance Section by the Ground Water Section. Phil Marcy reviewed the application. Please see Phil's Groundwater Review and the Well Reports.

Applicant's "Barn" Well (BENT 5247): Based on a review of the Well Report, Applicant's "Barn" Well seems to protect the groundwater resource.

The construction of Applicant's "Barn" Well may not satisfy hydraulic connection issues.

Applicant's "Main" Well (BENT 1510): Based on a review of the Well Report, Applicant's "Main" Well seems to protect the groundwater resource

The construction of Applicant's "Main" Well may not satisfy hydraulic connection issues.

STATE OF OREGON WATER WELL REPORT

(as required by ORS 537.765)

BRECEWED

Bent 3247 125/5W-19de

(1) OWNER:	MACCO	Well No	ımber:		(9) LOCATION	OF WELL by l	egal de	escript	ion:	
Address 6916	PALL AND	TA DO	WA ⁻	TER RES	OURCES DEFY!	Latitude	<u>, "</u>	Longitude	a	, ,
	OMATA	State AR.	Zip	SALEM	OREGON 12				_E or W,	WM.
${(2)} \text{ TYPE OF}$						NE_ 1/4				
		Recondition	Abandon			Lot Bloc Vell (or nearest address) _				
		Recondition	Abandon		Street Address of V	vell (or nearest address) _		17-12		-
(3) DRILL M	Rotary Mud	□ Cable		-	(10) COLATICA	VACUATO I TAXUAL				
Other	☐ Rotary Mud	Cable				VATER LEVEL	:		6.	- /
(4) PROPOS	ED LISE.	-	14.54			below land surface,			8-3	
	_	Industrial Irri	ration			lb. per squ		Date		
		Other	gation		(11) WATER I	BEARING ZONE	ES:			•
BORE HO					Depth at which water wa	as first found				
	approval Yes N	No Depth of Comp	leted Well _	75 ft.	From	То	Estin	nated Flow	Rate	SWL
Ye	e No L	×			3 Ce	41.		8		26
Explosives used	☐ Type _	Amount	-							,
HOLE neter From	To Motori	SEAL ial From To		nount or pounds						
	18 CEMI	ENT O 18	- 1 -	ACK			<u> </u>	-	-	
6 18			4		(12) WELL LO	Ground elevat	ion			
						Material		From	То	SWL
					Soil			0	1	
		\square B \square C \square D	□ E		CLAU	CRON	WW)	1	36	
Other TRE	•				GRAVEL		EIS	36	41	
Backfill placed from					CLAY	(BRI	swil)	41	47	
Gravel placed from _		ft, Size of gravel			GRAVEL	(^	15/2)	47	49	
(6) CASING		Constant	ŵ.	m	CLAY	(BR	own!)	49	54	
	From To	Gauge Steel Plastic		Threaded	CLAYSTO	NE (BL	UE)	54	75	
Cashig.										-
						,				
Liner:				. 🗆			THE WAR ALL AND			
				[*] 🔲						
location of shoe		7777								
(7) PERFOR	ATIONS/SC	CREENS:								
☐ Perforation	Method									
Screens	Type	Mater	ial			F 1984				
om To	Slot size Number	Tele/pipe Diameter size	Casing	Liner						· · · · ·
	Size Number	Diameter Size								
					Date started 8-3	5-78_Com	pleted	8-31	-87	7
(0)			. , 🗆		(unbonded) Water	Well Constructor Ce	rtificati	on:		
		um testing time i	s 1 hour Flowing	ng	I certify that th	e work I performed o	n the co	nstructio	n, altera	ation, or
☐ Pump	X Bailer	☐ Air	Artesi		abandonment of this	well is in compliant used and information	ce with (Oregon w	rell cons	struction
Yield gal/min	Drawdown	Drill stem at	Tir	me	knowledge and belief.		reported	above are	, true to	my best
8	40		1 h	ır.			W	WC Nur	nber	
					Signed		D	ate		
					(bonded) Water We	ll Constructor Certi	fication	: .		-
Temperature of water	·	Depth Artesian Flo	w Found		I accept respons	ibility for the constru	ction, alt	eration,	or aband	donment
Was a water analysis done? Yes By whom				work performed on the	his well during the con ring this time is in	struction compli	ance wi	ported a th Ores	ove. all	
	id any strata contain water not suitable for intended use? Too little				construction standard	ds. This report is true	to the b	est of my	y knowle	edge and
		lored Other	-	· · · · · ·	belief.	7 / 11	W	WC Nur	nber	621
Depth of strata:					Signed (Ponkella	<u></u> D	ate 	-30	-XZ_

BENT 5247

THIS CARD MUST BE POSTMARKED BEFORE COMMENCEMENT OF CONSTRUCTION
For Harry Maccarmock
6910 Flymwith DR Cornallis Or. (Owner's Mailing Address)
On or about the $8-18-87$ I will commence the construction of a well to be
located NE/4 SEX Sec 19 7125 R5W (Give 1/4, 1/4, Section, Township, and Range)
County: Benton
Well information:
Diameter of well <u>⊈</u> inches. Domestic X Industrial □ Municipal □
Estimated depth feet. Irrigation
Other
Date G-18-87 WAPANKALLA Contractor's License No. Colonia Colon
(Water Well Contractor—Please Print)
Authorized signature Wall Schools
NOTICE OF BEGINNING OF WELL CONSTRUCTION

16

STATE OF OREGON WATER SUPPLY WELL REPORT (as required by ORS 537.765)

BENT 1510

1	25/	5w	//	7	56
	(START CAI	RD)# 73	133		

(as required by ORS 537.765)

Instructions for completing this report are on the last page of this form.

Name Harry MacCormack Well Number	(9) LOCATION OF County Bent		-	ngitude	
Address 6910 S.W. Plymouth DR	Township 125	N of Rang			w) wM
City Corvallis State OR Zip 97333	Section 17	_ nw 1			11 111.
(2) TYPE OF WORK		Lot Block		Subdivision	
New Well Deepening Alteration (repair/recondition) Abandonment	Street Address of W	ell (or nearest address)	Samo	door vision	
(3) DRILL METHOD:	, short identity of the	car (or nearest address)	Sume		
Rotary Air Rotary Mud Cable Auger	(10) STATIC WAT	ED I EVEL.			
Other		elow land surface.		. 14	10-101
(4) PROPOSED USE:				Date 10	625/79
Domestic Community Industrial Irrigation	(11) WATER BEAL	lb. per so	quare inch.	Date	
Thermal Injection Livestock Other	(II) WALER BEAL	LING ZONES:			
(5) BORE HOLE CONSTRUCTION:	Death at 121		201		
Special Construction approval Yes No Depth of Completed Well 45 ft.	Depth at which water w	as first found	<i>XO</i>		
Explosives used Yes No Type Amount	r	T.	T		
HOLE SEAL	From	To		d Flow Rate	
	100	121'	2 CP		60'
	190'	191	3 GP		60'
6" 78' 245'	224'	255	4 GP1	27	60'
6 70 813					
	(12) WELL LOG:				
How was seal placed: Method A B C D E	Grou	nd Elevation			
Other	r				
Backfill placed fromft. toft. Material	Mate	rial	From	То	SWL
Gravel placed from ft. to ft. Size of gravel	Topsoil		0	2	0
(6) CASING/LINER:	Brown	Clay	2	43	0
Diameter From To Gauge Steel Plastic Welded Threaded	Cemente	& Gravel	43	54	0
Casing: 6" +2' 78' 250 \ \ \	Brown	ca Sandsh	54	67	0
	Weather	ed Sandst	me 67	72	0
	Grey 5	Stone	72	245	60'
	/				
Liner: None					
Final location of shoe(s) None					
(7) PERFORATIONS/SCREENS:		は自然の日間とい			
Perforations Method		MOV On too			
Screens Type Material		NOV 2 9 199	14		
Slot Tele/pipe From To size Number Diameter size Casing Liner	NAT	ER RESULTROFS	DEPT		
From To size Number Diameter size Casing Liner		SALEM OREGO			
		, , , , , , , , , , , , , , , , , , , ,	.,,		
(8) WELLTESTS: Minimum testing time is 1 hour	Date started 161	24/44 Co	mpleted /	0/25/	94
Flowing	(unbonded) Water Wel			4001	
Pump Bailer Air Artesian		I performed on the co		ration or aba	andonment
Yield gal/min Drawdown Drill stem at Time	of this well is in complia	ance with Oregon wate	r supply well co	nstruction st	tandards.
9 6Pm 1 hr.	Materials used and infor and belief.	mation reported above	are true to the b	est of my ki	nowledge
	• 1	\sim 1	WWC Nur	mber 14	11
	Signed Signed	1) MTS		Date	
Temperature of water 55° Depth Artesian Flow Found	(bonded) Water Well C	Constructor Cortificat			
Was a water analysis done? Yes By whom				andone	rio els
Did any strata contain water not suitable for intended use? Too little	performed on this well d	y for the construction, uring the construction	dates reported a	bove. All w	ork
Salty Muddy Odor Colored Other	performed during this til	ne is in compliance wi	th Oregon water	r supply well	1
Depth of strata:	construction standards.	ims report is true to th			•
	Sianal Transit	1101	WWC Nu	mber	15/
ODICOMAL & FIRST CONVIVIEND PROGRAM	Signed Jona	LOL & fore	ńg	Date //	13/44
ORIGINAL & FIRST COPY-WATER RESOURCES DEPARTMENT SEC	COND COPY-CONST	RUCTOR THIRI	COPY-CUS'	TOMER/	,