### Attachment A

### Well Logs for Existing Authorized Points of Appropriation for Permit G-10000

Well Name	Well Log Numbers		
Well 1 (Tuscarora)	DESC 5462, DESC 5482		
Well 2	DESC 5388		
China Hat 1	DESC 50740	_	
Conestoga	DESC 5722		
Parrel Rd.	DESC 50986		
Riverbend 1	DESC 5640		
Riverbend 2	DESC 4143		
Tekampe 3	DESC 5660		
Tekampe 2	DESC 528		
Tekampe 1	DESC 5659		
Sundance 2	DESC 5725		

RECEIVED

JUN 29 2009

WATER RESOURCES DEPT SALEM, OREGON NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report
are to be filed with the

WATER RESOURCES DEPARTMENT RECEIVAGE
SALEM, OREGON \$7310
Within 30 days from the date
of well completion.

## ECEIVIET OF OREGON (Please type or print) JUN 16979 write above this line

State Well No. 12	3shie-26th
State Permit No.	

(1) OWNER: WATER RESOURCES DEP	(10) LOCATION OF WELL:		
Name Deschutes Development Co. Inc	County Deschutes Driller's well no	umber	
Address P.O. Box 1251 Bend, Ore		R. 11E	W.M.
	Bearing and distance from section or subdivisi	on corner	
(2) TYPE OF WORK (check):	Lot 11 & 12 Block XX Deschu		aboode as
New Well 🗂 Deepening 🗆 Reconditioning 🗆 Abandon 🗆	Line Common to Bots		T. HOUGE
If abandonment, describe material and procedure in Item 13.	(11) WATER LEVEL: Completed w		
(3) TYPE OF WELL: (4) PROPOSED USE (check):	Donath of market made and a	233	ft.
Rotary Driven Domestic Industrial Municipal	Static level 233 ft. below land		
Dug   Bored   Irrigation   Test Well   Other	Artesian pressure lbs. per squar		
CASING INSTALLED: Threaded   Welded   Welded   Casing prom + 2 ft to 261 ft Gage 250	(12) WELL LOG: Diameter of well?	oelow casing	0
	Depth drilled 275 ft. Depth of compl	eted well	975 ft.
6 Diam from + 1 n to 275 n Gage 188	Formation: Describe color, texture, grain size		of materials:
ft. toft. Gage	and show thickness and nature of each stratu	m and aquife	r penetrated.
PERFORATIONS: Perforated? DXYes   No.	with at least one entry for each change of forma position of Static Water Level and indicate prin	tion. Report e: cipal water-b	ach change in earing strata.
Type of perforator used machine	MATERIAL	From 1	o swl
Size of perforations 1/8 in, by 3 in.			
	brn soil	0	3
456 perforations from235 ft. to275 ft.	brn soil & lava rock		9
perforations fromft. toft.	tan clay congl		55
perforations from	brn sand & crs gravel		i1
(7) SCREENS: Well screen installed? ☐ Yes ☐ No	grey congl fine		7
Manufacturer's Name	brn rock	67 10	
Type Model No.	tan claystone	101 11	
Diam. Slot size Set from ft. to ft.	white pumice	116 14	
Diam Slot size Set from ft. to ft.	grey congl fine	144 16	-
	bldrs & congl	166 17	
(8) WELL TESTS: Drawdown is amount water level is lowered below static level	med gravel	174 20	
Was a pump test made? ☐ Yes ☑ No If yes, by whom?	blk tuft	201 23	
	med gravel (WB)	233 24	
	brn congl med	244 25	_
Air lifting 18 GPM with 0 DD "	multi color gravel med(WB)	256 26	
<u> </u>	blk basalt with seams(WB)	261 27	
Bailer test gal./min. with ft. drawdown after hrs.	Genica 263-275+3		
Artesian flow g.p.m.			
erature of water & Depth artesian flow encountered ft.	Work started 5/11 1978 Complete	<u>5/16</u>	<u> 19 78</u> .
(9) CONSTRUCTION:	Date well drilling machine moved off of well	5/16	19 78
Well seal—Material used cement	Drilling Machine Operator's Certification:		
Well sealed from land surface to 26½	This well was constructed under my Materials used and information reported	direct su	pervision.
Diameter of well bore to bottom of sealin.	heet knowledgenend helief.		
Diameter of well bore below seal	[Signed] (Orilling Machine Operator)	Date 5/16	19 78
Number of sacks of cement used in well seal	(Drilling Machine Operator)		
Row was eemenf grout placed?	Drilling Machine Operator's License No.	<u>1039</u>	
pumped from 25 to 0	Water Well Contractor's Certification:		
THE CONTRACT OF THE CONTRACT O	This well was drilled under my jurisdi	iction and th	is report is
	true to the best of my knowledge and bel		
Was a drive shoe used? [] Yes [ No Plugs Size: location ft.	Name Johnson Well Drilling	·····	
Did any strata contain unusable water?  Yes No	(Person, firm or corporation)	(Туре с	
Type of water? depth of RECEIVED	Address 3626 NW Coxner Redmon	nd,Ore	
Method of sealing strata off	[Signed] John (Water Well Control		
Was well gravel packed? [] Yes & No. Bize of graval in			
Gravel placed fromft. toft:	Contractor's License No595 Date	5/16	, 1978.

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

WATER RESOURCES DEPARTMENT.
SALEM, OREGON 97310
within 30 days from the date
of well completion.

### WATER WEIL REPORT

(Do not write above this line)

State Well No. 185/11E-2666
State Permit No

	SOURCES DEPI.	<u> </u>
(1) OWNER: SALE	(f) TOCATION OF WELL:	
Name Deschutes Development Co. Inc.	County Deschutes Driller's well nu	ımber
Address P.O. Box 1251 Bend, Ore	NW 14 NW 14 Section 26 T. 185	
	Bearing and distance from section or subdivisis	
(2) TYPE OF WORK (check):	Lot 11 & 12 Block XX Deschu	
New Well ☐ Deepening ☐ Reconditioning ☐ Abandon ☐		
If abandonment, describe material and procedure in Item 12.	(11) WATER LEVEL: Completed w	ell.
(3) TYPE OF WELL: (4) PROPOSED JISE (check):	Depth at which water was first found 233	3 <u>n</u> .
Rotary 🔁 Driven 🗋 Domestic 🗆 Industrial 🗆 Municipal 🗋	Static level 233 ft. below land s	
Dug   Bored   Irrigation   Test Well   Other	Artesian pressure lbs. per squar	e inch. Date
CASING INSTALLED: Threaded   Welded		
	(12) WELL LOG: Diameter of well b	elow casing 617275 to 8
" Diam. from	Depth drilled 290 ft. Depth of comple	sted well 287 ft.
"Diam. from ft. to ft. Gage	Formation: Describe color, texture, grain size a and show thickness and nature of each stratus	and structure of materials;
	with at least one entry for each change of format	ion. Report each change in
PERFORATIONS: Perforated?   Yes   No.	position of Static Water Level and indicate prin	cipal water-bearing strata.
Type of perforator used	MATERIAL	From To SWL
Size of perforations in. by in.	blk basalt	275 277
perforations from ft. to ft.	crs redish brn sand fine	
perforations from	gravel (WB)	277 290 233
perforations fromft. toft.		<del>  </del>
(7) SCREENS: Well screen installed?   Yes   No	·	
Manufacturer's Name	-	
Type Model No.		
Diam Slot size Set from ft. to ft.		
Diam. Slot size Set from ft. to ft.		
(8) WELL TESTS: Drawdown is emount water level is lowered below static level		RECEIVED
		MEUCIVHO
Was a pump test made? ☐ Yes ☐ No If yes, by whom? Owner  Yield: 65 gal./min. with ¶ 1 ft. drawdown after 1 hrs.		JUN 2 9 2009
Yield: 55 gal./min. with 1 ft. drawdown after 1 hrs.		
		ER RESOURCES DEPT
	VVAI	SALEN, OREGON
Bailer test gal./min. with ft. drawdown after hrs.		SALLINI OTTO
Artesian flow g.p.m.	7/00 70	
perature of water 56 Depth artesian flow encountered ft.	Work started 7/22 19 78 Complete	
(9) CONSTRUCTION:	Date well drilling machine moved off of well	7/23 19 78
Well seal-Material usedundistrubed	Drilling Machine Operator's Certification:	
Well sealed from land surface to ft.	This well was constructed under my Materials used and information reported	above are true to my
Diameter of well bore to bottom of sealin.	best knowledge and belief.	
Diameter of well bore below sealin.	[Signed]	Date8/.21, 1978
Number of sacks of cement used in well seal	Drilling Machine Operator's License No.	
now was coment grout pieced?		
	Water Well Contractor's Certification:	
	This well was drilled under my jurisdi	ction and this report is ief.
Was a drive shoe used? ☐ Yes ☐ No Plugs Size: location ft.	true to the best of my knowledge and bel Name Johnson Well Drilling	
Did any strata contain unusable water?   Yes No	(Person, firm or corporation)	(Type or print)
Type of weter? depth of strata	Address 36.26 NW Covner Hedmon	d, Ore
Method of sealing strata off	[Signed] John V Johnson	
Was well gravel packed?   Yes No Size of gravel;	(Water Well Contr	
Gravel placed from ft. to ft.	Contractor's License No595 Date	8/21 <u>19.7</u> 8

of this report are to be APRS - 1972 STATE OF	OREGON DESC State Well No. 18 11-25a
STATE OF STATE OF	Total West Mos
within 30 days from the date  of well completion.  SALEM. OREGONOT Write a	or print)
	28
(1) OWNER:	(11) LOCATION OF WELL:
Name Deschutes Development Co.	County Deschates Driller's well number 79
Address 106 MINNOS ata Que Bout, 01-0	N.W & N.E. & Section 25 T.  8-SE    E W.M.
the state of the s	Bearing and distance from section or subdivision corner
(2) TYPE OF WORK (check):	
New Well Deepening Reconditioning Abandon	
If abandonment, describe material and procedure in Item 12.	
(3) TYPE OF WELL: (4) PROPOSED USE (check):	(12) WELL LOG: Diameter of well below casing
Cable Jetted Domestic Mindustrial Municipal	Depth drilled 402 ft. Depth of completed well 402 ft.
	Formation: Describe color, texture, grain size and structure of materials;
CASING INSTALLED: Threaded   Welded	and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change
8. Diam. from d ft. to 3.9 ft. Gage 250	in position of Static Water Level as drilling proceeds. Note drilling rates.
Diam. fromft. toft. Gage	MATERIAL From To SWL
ft. toft. Gage	top 5016 0 7
PERFORATIONS: Perforated? Tyee CNo.	Brown Clay 4 65
Type of perforator used	PWM168 65-80
Size of perforations in, by in.	Black Rock (Broken) PO 105
perforations from ft. to ft.	Red Civilers 185 180
perforations from ft. to ft.	Black Clan 160 160
perforations fromft. toft.	010 Class 170 9.05
perforations fromft. toft.	Brown Plack 305 255
perforations from ft. to ft.	Grev Rock 253- 705
(7) SCREENS: Well screen installed?   Yes P'No	Broke Rack 305 210
.,	Chev Deck . 316 330
Manufacturer's Name	Rel Rack 380 3355
Diam. Slot size Set from ft. to ft.	Res Cinders 735 350
Diam. Slot size Set from 1t. to 1t.	Arev Dark 360 785
(8) WATER LEVEL: Completed well.	Pel cristers 388 402
	702 702
Static level 380 At below land surface Date 3/2/72	
stan pressure lbs. per square men Date	
(9) 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.	Work started Ten 4 1972 Completed March 8 197
The same of the sa	Date well drilling machine moved off of well M3 1-Ch \$ 1979
	Drilling Machine Operator's Certification:
Bailer test 10 gal./min. with 0 ft. drawdown after 2 hrs.	This well was constructed under my direct supervision. Materials used and information reported above are true to my best
Artesian flow g.p.m. Date	knowledge and belief.
Temperature of water 5.0 Was a chemical analysis made? [] Yes [] No	[Signed] Alexander Marine Operator Date 3/3. 197.
(10) CONSTRUCTION:	Drilling Machine Operator's License No. 13.4
Well seal-Material used BRATANITE & Cement	Drilling Machine Operator's Incense No. 120
Depth of seal 257	Water Well Contractor's Certification:
Diameter of well bore to bottom of sealin.	This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Were any loose strata earmented off? Wes No Depth 130	NAME Mathers Drilling Co.
Was a drive shoe used? Tes No	(Person, firm or corporation) (Type or print)
Did any strata contain unusable water?   Yes Wo	Address MULPhy Rd. Banf, ale
Type of water? depth of strate	10. 11 Cm H
Method of sealing strate off	[Signed]
Was well gravel packed? Tes Who Size of gravel:	Contractor's License No.231 Date 3/3/ 19.73
Gravet biscar mont managements of the second	Contractor's License No. 214.1 Date 2

NOTICE TO WATER WELL CONTINUES A F I V F

RECEIVED WELL I.D. # 2 04580

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

MAR - 3 1997 (START CARD) # 89948 Instructions for completing this report are on the last page of this formaTER RESOURCES DEPT SASFMOOREGON OF WELL by legal description: (1) OWNER: Well Number County Described Longitude Township N or S Range E or W. WM. Zip 97106 1/4 (2) TYPE OF WORK Tax Lot (1/1/16(1)/ Block Subdivision New Wall Deepening Alteration (repair/recondition) Abandonment Street Address of Well (or nearest address) (3) DRILL METHOD: (10) STATIC WATER LEVEL: Rotary Air Rotary Mud Cable Auger Other ft. below land surface. (4) PROPOSED USE: Artesian pressure lb. per square inch. Domestic Community (11) WATER BEARING ZONES: Industrial ☐ Irrigation Thermal Injection Livestock Ż Other (5) BORE HOLE CONSTRUCTION: Depth at which water was first found Special Construction approval Tyes No Depth of Completed Well ft. Explosives used 🔲 Yes 🔣 No Type Amount Estimated Flow Rate HOLE SEAL 11dosacks ao cement (12) WELL LOG: How was seal placed: Method XC **Ground Elevation** Backfill placed from ft. Material Material SWL ft. to ñ. Size of gravel Gravel placed from ft. to (6) CASING/LINER: byla hynan Gauge Steel **Plastic** Welded Threaded  $\bar{\Box}$ Ō ok nakav red X Final location of shoe(s) (7) PERFORATIONS/SCREENS: Method Factor Perforations Material Screens Casing Diamejer ava more real army founds ō Smears of Ch П (8) WELLTESTS: Minimum testing time is 1 hour 4-9 (unbonded) Water Well Constructor Certification: Flowing **⊠** Air Artesian certify that the work I performed on the construction, alteration, or abandonment Bailer ☐ Pump of this well is in compliance with Oregon water supply well construction standards.

Materials used and information reported above are true to the best of my knowledge Drill stem at Time Yleid gal/min 10DC) <u> 500t</u> 1 hr. and belief. WWC Number <u>/672</u> (bonded) Water Well Constructor Eartification: Depth Artesian Flow Found Temperature of water \_\_\_\_\_\_\_\_ I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work Yes By whom Was a water analysis done? Did any strata contain water not suitable for inting the little Salty Muddy Odor Colored Other performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and b Depth of strata: <del>JUN 2</del> 9 2009

ORIGINAL & FIRST COPY-WATER RESOURCES DEPARTMENT SECOND COPY CONSTRUCTOR THIRD COPY-CUSTOMER

T 13918

### RECEIVED# LO4580

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

fage 20fa

MAR -3 1997 (START CARD) # 29948

Instructions fo	r completing this re	port are on the la:	st page of this form.	WATER RE	SOUNCES DEPT			
(1) OWNER:	•	Well No	umber	(9) LOCATIOSANE				
$\Lambda$	on water	Comme		County DENN		•	_ t t.	
			<del></del>				gitude	
	13 Harre		(2/2/2007)	Township 85			E or W	V. WM.
City Ben		State OK	Zip 97700	Section_29	_ NE_ 1/4_		1/4	
(2) TYPE OF W	VORK			Tax Lot UNKO	Block_	Sui	bdivision Hat	
☐ New Well ☐ I	Deepening   Alters	tion (repair/recond	ition) 🔲 Abandonment	Street Address of We	l (or nearest address)	Chuna	. HaŦ	· Ka
(3) DRILL ME								
• •	Rotary Mud	Cable Au	1807	(10) STATIC WATE	PIEVEL.			
		leans -	.g.u	1 -		_		
Other  (4) PROPOSEI	NICE.	The state of the s	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.		ow land surface.		ate	
				Artesian pressure		re inch. D	ale	# MARIN
_		_	Irrigation	(11) WATER BEAR	ING ZONES:			
			Other				3	<del>)</del>
(5) BORE HO	LE CONSTRUCT	TION:		Depth at which water wa	s first found			•
Special Constructi	ion approval Yes	No Depth of C	ompleted Wellft.					
•		_	Amount	From	To	Estimated	Flow Rate	SWL
HOLE		SEAL				4000000	42	
	To Materia	-	Casha an maunda				**	
Diameter From	To Materia	i From To	Sacks or pounds					<del></del> -
						_		
				(12) WELL LOG:				
How was seal place	ed: Method	□A □B	C D DE		f Elevation			
			u- u-	Giodin	- 2171			
Other		ft. Mate		Materi	.1	P	To	SWL
	om ft. to		erial	LAVOL OVAY		452	To	SWL
Gravel placed from	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	ft. Size	of gravel	Lava Cray	Last C I Vala	1720	727	
(6) CASING/L	INER:			LONG-PROMO	box a way	1 459	4/0	
Diameter	From To G	auge Steel Plas	tic Welded Threaded	lava aray	mari '	472	476	
Ci		In r		Tava sonu-	frac_	476	479	
Casing:				TAIN BIALL	MAIN	Ung	498	
	<del></del>			TOVA MALL	ana	100	200	
	<del></del>			The state of the s	10016	333	2/3	
				lava gray		503	513	
Liner:					KN W/SOME	513	-	
				Cincers			518	
Final location of s	thoe(s)			lava aav	and_	518	523	
	TIONS/SCREEN	S:		LOVA AVIVE	Kn hn 2000	U\$523	551	
				Lava aby	Franc	FRI	553	
Perforations	-			prisa 4-dy	1. Proper Sin	1 660	Zna	
Screens	Туре	Tele	fatorial				2.7	
From , To	Slot , size , Number	Diameter , si	te Casing Liner	Basa H 1	a britis	529	1-A-3-	
				wiredt	Taystone.		603	
		T		Lava aray	DIKN DUN	03 603	617	
. —				A Va Varav	med	(017	620	
	+			0.1				
		<del>  </del>						
				I <del></del>		_		
				Date started 2/3	07 -	<u> </u>	2419	<del>_</del>
(8) WELLTES	iTS: Minimum te	sting time is 1 h	our				-717	
			Flowing	(unbonded) Water Wei	Constructor Certifical	tion:		
Pump	Bailer	☐ Air	Artesian	I certify that the work	I performed on the cons	truction, altera	tion, or aba	ndonment
Yield gal/min	Drawdown	Drill stem at	Time	of this well is in complia Materials used and infor	nce with Oregon water s	upply well con	istruction st	andards.
Trees Tay Hills	I Diguidant		1 hr.	and belief.	mation reported above at	e due to die o	cat Ot my ki	n witer Re
						WWC Num	ther ICY	72:
				Signed Zella	79/1		1061 <u>/ 629 /</u> Date	
	L						A#	
Temperature of w	ater1	Depth Artesian Flo	w Found	(bonded) Water Well C				
Was a water analy		es By whom		I accept responsibility	for the construction, alt	eration, or aba	ndonment w	ronk
Did any strate con	ntain water not suitab	le for intended and	N E Mille	performed on this well d performed during this tis	uring the construction de	nes reported at	DOVS. All W	Offic
Clearly state on	ddy Odor O	Colored	FEMER	construction stageards.	This report is true to the	best of my kno	wiedes and	belief.
_	m,					WWC Nun		58
Depth of strata:		JUN	2 9 2009	Samuel # 4	BY T		Data 2	28-0
		301		Signed Description				<u> </u>
ORIGINAL & F	IRST COPY-WAT	ER RESQUECE	S DEPARTMENT SE	COND COPY CONSTI	RECIPOR THIRD	COPY-CUST	OMER	

SALEM, CREGON

NOTICE TO WATER WELL CONTRACTOR	Roitas Pan. 13s	
The original and first copy of this report are to be filed with the	LL REPORT	
WATER RESOURCES DEPARTMENT.	OREGON No State Well No.	271
within 30 days from the date APR 12 1978 (Please type	e or punt) DESU(1)	
of well completion	hove the line) Blate Permit No.	
VATER RESOURCES DEPT.	APPC - 6-10208	
(1) OWNER: (WASON WHEELS DEMERTERANT)	(10) LOCATION OF WELL:	
Name Ethic Simpson + Associates	County Deschetes Driller's well number	
Address 63970 Sunset Dr.	115 y 110 y 2 y 10 - 10 5 - 1015	
12 out Ore, 97701	Bearing and distance from section or subdivision corner	W.M.
(2) TYPE OF WORK (check):	search and district their section of suppliation coulds.	
New Well M Deepening   Reconditioning   Abandon		
If abandonment, describe material and procedure in Item 13.	(11) WATER LEVEL: Completed well.	
(3) TYPE OF WELL: (4) PROPOSED USE (check):		
Rotary PC Driven   Domestic C Industrial C Municipal C	Depth at which water was first found  Static level 200 ft. below land surface. Date 2-11	<u> </u>
Cable   Jetted   Dug   Bored   Irrigation   Test Well   Other M		
	Artesian pressure lbs. per square inch. Date	
CASING INSTALLED: Threaded   Welded	(12) WELL LOG: Dismeter of well below codes	
Diam from + 1 to 20 th Gage 1025	Depth drilled 840 ft. Depth of completed well 840	
"Diam. from ft. to ft. Gage		TL.
" Diam. from ft. to ft. Gage	Formation: Describe color, texture, grain size and structure of mater and show thickness and nature of each stratum and aquifer penetr	-
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 st	
Type of perforator used		
Size of perforations in. by in.		W.L.
	LOUSE LAVA, BORLOFES - SAMD 0 4	
perforations fromft. toft.	BROKEN LAVA & CONS. 40 65	
perforations from	LAUA 65 66	—
	CONG. 66 85	—
(7) SCREENS: Well acreen installed?   Yes No	LAVA 85 110	
Manufacturer's Name	BROKEN LAVA 110 120	
Type	LAUA 120 147	
Diam Slot size Set from ft. to ft.	RES CINDERS L BROKEN LAVA MT 152	_
Diam Slot size Set from ft. to ft.	LAVA 152 240	
(8) WELL TESTS: Drawdown is amount water level is	RED CINDERS 240 242	
10A6460 DATOM BUTTLE MAGE	LAUA - 2'TO 4 FT. CONG 24-4' 241 390	
Was a pump test made?   Yes   No If yes, by whom?	AVA 390 443	
V'''d: gal./min. with ft. drawdown after hrs.	SANDSTONE 443 469 LAVA 469 580	—
	RED CINDER CONG. 580 595	—
	LAVA 595 630	
Bailer test 5 gal./min. with 0 ft. drawdown after / hrs.	SANDSTONE CONG. 630 631	
Artegian flow g.p.m.	LAVA	
perature of water 52 Depth artesian flow encountered ft.	Work started /- 2 18 / Completed 2 11 19	12
(A) CONCEDITORION.		18
(9) CONSTRUCTION:  Well seal-Material used CEMENT	Drilling Machine Operator's Certification:	
10	This well was constructed under my direct supervisi	on.
Well sealed from land surface to	Materials used and information reported above are true to	
Diameter of well bore to bottom of seal /2 in.  Diameter of well bore below seal	[Signed] William O. from Date 2-27, 19	28
Number of sucks of cement used in well seel	[Signed] Willing Sachine Operator) Date	RJ.
How was cement grout placed? Poul & Down	Drilling Machine Operator's License No	•••••
		_
	Water Well Contractor's Certification:	
	This well was drilled under my jurisdiction and this reportrue to the best, of my knowledge and belief.	t is
Was a drive shoe used? - Yes No Plugs Size: location	Name ORUALL BUCKNER	
Did any strata contain unusable water?   Yes No	(Person, firm or corporation) (Type or print)	
Type of water? depth of atrata	Address WELNEGHS KO, KENNANDURE, 97	756
Method of sealing strate off	[9]mad1 ( ) 1/9 A	
Was well gravel packed?  Yes No Size of gravel:	[Signed]	 
Gravel placed from tt. to TENENTED	Contractor's License No. 408 Date	18
	EETS IF NECESSARY) SP-6666	B-119
•		

JUN 29 2009

STATE OF OREGON 50 JUL 1 5 1997	SC 50986 # —	
WATER SUPPLY WELL REPORT	START CARD) # 77916	
(as required by ORS 537.765)  Instructions for completing this report are on the last page of this form.	900 (0,2 (START CARD)#	
(1) OWNER: Well Number	(9) LOCATION OF WELL by legal description:	
Name HVON WOLLEY CO.	County Dechites Latitude Longitude	
Address COS 3 FOR PULL ROLL City POOL State OR Zip 90007	Township 18S N or S Range 18E E or Section 17 SW 1/4 SW 1/4	W. WM.
(2) TYPE OF WORK	Tax Lot 22/4 Lot Block Subdivision	
New Well Deepening Alteration (repair/recondition) Abandonment	Street Address of Well (or nearest address)	
(3) DRILL METHOD:	Mailing	
Rotary Air Rotary Mud Cable Auger	(10) STATIC WATER LEVEL:	065
Other  (4) PROPOSED USE:		<u>270</u>
Domestic Community Industrial Irrigation	(11) WATER BEARING ZONES:	
Thermal Injection Livestock Other		
(5) BORE HOLE CONSTRUCTION:	Depth at which water was first found 387	
Special Construction approval Yes No Depth of Completed Well 470 ft.		
Explosives used Yes No Type Amount	From To Estimated Flow Rate	SWL
HOLE SEAL  Diameter From To Material From To Sacks or pounds	367 306 7700	_577
24 10 30 Venent 0 30 66 50CKS		
17 30 430		
13 430 500		
	(12) WELL LOG:	
How was seal placed: Method A B C D E	Ground Elevation	
Other	Material From To	SWL
Gravel placed from ft. to ft. Size of gravel	Sandy dirt brown 0 2	
(6) CASING/LINER:	Iava aray brkn, 2 6	
Diameter From To Gauge Steel Plastic Welded Threaded	avagray had some bru 6 30	
Casing: $18 + 130.315$ $\square$ $\square$	Tava gay langh rad 30	
	Land Jay Lown 57	+ - 1
	highly without 70	$\Box$
Liner: 14 7 427 188 🗷 🗆 🗷 🗆	ava-body mod 70 89	
12 390 440 × 0 × 0	Cimens rea within 189	
Final location of shoe(s)	ava by specific and 94 129	
(7) PERFORATIONS/SCREENS:	ava avay hyd some barn 94 129	+
Perforations Method	Tail (m) med by n 137 154	
Slot Tele/pipe	Modera Mod MER 154 161	
From To tize Number Diameter size Casing Liner	Tava om Man soft 161 165	<u> </u>
	Java 5m 6mn 1105 171	++
	Tava gray not some birn 171 214	
	Lava Stayrua 214 216	4
	- CONTINUED-	† 1
(8) WELLTESTS: Minimum testing time is 1 hour	Date started Completed	
Flowing	(unbonded) Water Well Constructor Certification:	
□Pump □Bailer ☑Air □Artesian	I certify that the work I performed on the construction, alteration, or all of this well is in compliance with Oregon water supply well construction	sandonment standards.
Yield gal/min Drawdown Drill stem at Time	Materials used and information reported above are true to the best of my	rnowledge
70b 1hr.	and belief.  WWC Number	
	SignedDate	
Temperature of water 53 Depth Artesian Flow Found	(bonded) Water Well Constructor Certification:	
Was a water analysis done? Yes By whom	I accept responsibility for the construction, alteration, or abandonment performed on this well during the construction dates reported above. All	work
Did any strata contain water not suitable for intended use? [ ] Too little	performed on this well auring the constitution dates reputed acres with performed during this time is in compliance with Oregon water supply we construction standard. This report is for to the best of my knowledge as	ell ad baliar
Salty Muddy Odor Colored Other	construction standard. This report is that to the best of my knowledge a	
Depth of strata:	Signed Date 7	1497
RECEIVED.	COND COPY CONSTRUCTOR THIRD COPY-CUSTOMER	

-JUN 29 2009

1 10918

NOTICE TO WATER WELL CONTRACTOR
THE CONTRACTOR DESC WATER WELL REPORT

State Well No	180/12E-19a	
State Permit No	), <u></u>	_,

WATER RESOURCES DEPARTMENT. STATE OF BALLO 2005 07310 Please type		لمدال	LZE.	-140
within 30 days from the date WATER RESOURCES. DEPT (Do not write al	Afete Dermit N	īo	<del></del>	
SALEM, OREGON		_	<u> </u>	
(1) OWNER:	(10) LOCATION OF WELL:			
Name Avion Water Company	County Deschutes Driller's well m	umber		
Address 60813 Parrell Rd.	NE¼ Section 19 т. 18S	R. 12	2B.	W.M.
Bend, Oregon 97701	Bearing and distance from section or subdivisi	on corne	r	
(2) TYPE OF WORK (check):	West & of Lot 92, River Bend B	state	3	
New Well Deepening Reconditioning Abandon D				
If abandonment, describe material and procedure in Item 12.	(11) WATER LEVEL: Completed w	ell.		
(3) TYPE OF WELL: (4) PROPOSED USE (check):	Depth at which water was first found	388		ft.
Rotary 🗖 Driven 🗌 Domestic 🗆 Industrial 🗋 Municipal 🗀	Static level 388 ft. below land a		Data 2=	
Dug   Bored   Drigation   Test Well   Other   D	Artesian pressure lbs. per squar	•		10.00
CASING INSHAFI MD.	per squar	———		
(J) CASING INSTALLED: Threaded   Welded	(12) WELL LOG: Diameter of well 1	below can	ing 1	2"
12 Diam from +1 n to 26 n Gage • 250  Diam from ft to ft Gage	Depth drilled 447 ft. Depth of compl			ñ.
"Diam. fromft. toft. Gage	Formation: Describe color, texture, grain sixe	and struc	ture of r	naterials:
Dient Iron It to manne It Gage	and show thickness and nature of each stratu with at least one entry for each change of forma	m and ac	quifer pe	netrated.
(6) PERFORATIONS: Perforated?  Yes No.	position of Static Water Level and indicate prin	cipal wat	er-bearin	ig strata.
Type of perforator used	MATERIAL	From	To	SWL
Size of perforations in. by	Sandy Pumice Conglem.	0	3	
perforations fromft. toft.	Lava. Mild	3	25	
perforations fromft. toft.	Brown Conglomerate	25	27	
perforations from ft. to ft.	Lava, Mild	27	32	
(#) SCDEENC.	Broken Blk.& Red Cinder Congl	32	37	
(7) SCREENS: Well screen installed?   Yes No	Lava, Mild	37	38	·
Manufacturer's Name	Basalt	38	40	
Type Model No Diam Slot size Set from ft. to ft.	Seft & Broken-Crevice	40	49	
Diam. Slot size Set from ft. to ft.	Lava	49	<u>53</u>	<del></del>
•	Soft Mild Lava	53 54	54 60	<del></del>
(8) WELL TESTS: Drawdown is amount water level is lowered below static level	Soft	60	65	<del></del>
Was a pump test made? ☐ Yes ☑ No If yes, by whom?	Lava- Returns Back	65	67	
d: gal./min. with ft. drawdown after hrs.	Brown Conglomerate	67	71	
	Mild Lava	71	80	
	Red Cinder Conglomerate	80	88	
	Lava	88	90	
	Brewn Sandatone Conglomerate	90	112	
Antesian flow g.p.m.	Soft & Crevice	112	120	•
Amperature of water 53 Pepth artesian flow encountered	Work started 1-22 19 80 Complete	d 2-18	<u> </u>	1980
(9) CONSTRUCTION:	Date well drilling machine moved off of well	2-18		19 80
Well seal—Material used Cement	Drilling Machine Operator's Certification:			
Well sealed from land surface tot.	This well was constructed under my Materials used and information reported	direct	super	vision.
Diameter of well bore to bottom of seal16 in.	best knowledge and belief	WDOVE .	me auc	w my
Diameter of well bore below seal	[Signed]	Date	2-18	., 19.80
Number of sacks of cement used in well sealsacks	(Drilling Machine Operator)	9	26.2	
How was cement grout placed? Pressure Grout	Drilling Machine Operator's License No.			
***	Water Well Contractor's Certification:		•	
	This well was drilled under my jurisd true to the best of my knowledge and bel		d this r	eport is
Was a drive shoe used? ☐ Yes 🙀 No Plugs Size: location ft.	Name Orvail Buckner Well Drill			•
Did any strata contain unusable water 2. 7 Yes Yes	(Person, firm or corporation)	(I)	be er bip	
Type of water? depth of strata	Address 1986 N. B. Negus Way, Be	angna.	.UTC.	9/756
Method of sealing strata off	[Signer Like	Son.	_	
Was well gravel packed? Yes No Size of ravel.	(Water Well Contr			
Gravel placed from ft. to ft. o	Contractor's License No608 Date	<u>2-18</u>		, 19 <u>80</u>
JUN 2 0 LUUS	ibets if Necessary)		81	P*45656-110

### NOTICE TO WATER WELL CONTRACTOR The original and art topology the report

WATER RESOURCES DEPARTMENT, SALEME DESCRIPTION SALEME DESCRIPTION TO BE SALEME WATER PESSOURCES DEPT

#### WATER WELL REPORT

#### STATE OF OREGON

(Please type or print)

(Do not write above this line)

			Pg.	2	of	3	
State	Well	No.	[X].	5/	122		19a

State Permit No.

SALEM, OREGON		
(1) OWNER:	(10) LOCATION OF WELL:	
Name Avien Water Company	County Deschutes Driller's well no	mber
Address 60813 Parrell Rd.	% NE % Section 19 T. 183	
Bend, Oregon 97761	Bearing and distance from section or subdivisi	
(2) TYPE OF WORK (check):	West & of Lot 92. River Bend I	
New Well ☑ Deepening □ Reconditioning □ Abandon □	HERE 2 OF DOL 321 WINET DRIVE I	BLALES
If abandonment, describe material and procedure in Item 12.	(11) WAMED I MYEL. Commission	.11
(3) TYPE OF WELL: (4) PROPOSED USE (check):	(11) WATER LEVEL: Completed w	
Rotary Driven		388 <u>n.</u>
Cable	Static level 388 ft. below land a	urface. Date 2-18-80
D Boren   Irrigation   Test Well   Other	Artesian pressure lbs. per squar	e inch. Date
(5) CASING INSTALLED: Threaded   Welded	(12) WELL LOG: Diameter of well b	
12" Diam from +1 n to 26 n Gage #250		pelow casing12#
" Diam. from ft. to ft. Gage	Depth drilled 447 ft. Depth of compl	
Diam. from ft. to ft. Gage	Formation: Describe color, texture, grain size and show thickness and nature of each stratu	ind structure of materials;
DEDECT A MICAYS	with at least one entry for each change of format	tion, Report each change in
(6) PERFORATIONS:Perforated? YesXNo.	position of Static Water Level and indicate prin	cipal water-bearing strata.
Type of perforator used	MATERIAL	From To SWL
Size of perforations in. by in.	Lava	120 121
perforations from ft. to ft.	Brown Sandatene Conglomerate	121 132
perforations from ft. to ft.	Lava	132 133
perforations from ft. to ft.	Brown Sandstene Conglomerate	133 135
(7) SCREENS: Well screen installed? [] Yes [X No	Lava	135 139
(1) SCREENS: Well screen installed? Yes XNo	Brown Conglomerate	139 141
Type Model No.	Broken Lava	141 156
Diam. Slot size Set from ft. to ft.	Lava	156 157
Diam. Slot size Set from ft. to ft.	Brown Conglomerate	157 158 158 163
	Conglomerate	163 165
(8) WELL TESTS: Drawdown is amount water level is lowered below static level	Lava	165 167
Was a pump test made? ☐ Yes ☐ No_If yes, by whom?	Brown Sandstone Conglomerate	167 169
gal./min. with ft. drawdown after hrs.	Lava	169 170
A	Brown Sandstene	170 180
	Punice	180 192
	Brown Sandstone Conglomerate	192 210
Baller test gal./min. with ft. drawdown after hrs.	Dark Brn. Sandstone	210 260
Anterian flow g.p.m.	Hard Lava	260 320
Temperature of water Depth artesian flow encountered ft.	Work started 1-22 19 80 Complete	d 1-24 1980
(9) CONSTRUCTION:	Date well drilling machine moved off of well	1-24 19 80
Well seal-Material used Cement (Pg. 1)	Drilling Machine Operator's Certification:	
Well sealed from land surface to	This well was constructed under my	direct supervision.
Diameter of well bore to bottom of sealin.	Materials used and information reported best knowledge and belief	above are true to my
Diameter of well bore below seal		Date 1-25 , 19 80
Number of sacks of cement used in well seal 26 sacks	[Signed](Drilling Machine Operator)	/ _
How was cement grout placed? Pressure Grout	Drilling Machine Operator's License No.	962
	Water Well Contractor's Certification:	
1 (77)	This well was drilled under my jurisd true to the best of my knowledge and bel	
Was a drive shoe used? ☐ Yes 🐼 No Plugs Size; location	_	
Did any strata contain unusable water? 🔟 Yes 🛣 No	Name Orwail Buckner Well Drill (Person, firm or corporation)	(Type or print)
Type of water? depth of strate property	Address 1686 N. R. Negus Nara Re	dmond. Ore. 27756
Method of sealing strata off		
Was well gravel packed? Yes I No - Size of gravel - Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q	[Signed] (Water Well Cont	actor)
Gravel placed from	Contractor's License No. 608 Date	1-25 19.80

### NOTICE TO WATER WELL CONTRACTOR

#### WATER WELL REPORT

# The original and first copy of this report are to be filed with the WATER RESOURCES DEPARTMENT E IVE STATE OF OREGON BALLEM, OREGON 97370 within 20 days from the date of well completion. FEB 2 2 1980 (Do not write above this line)

Pg 3 of 3	
State Well No. 186/19 E - 190	•
State Permit No.	

WATER RESOURCES DEPT			
(1) OWNER: SALEM, OREGON	(10) LOCATION OF WELL:		
Name Avion Water Company,	County Deschutes Driller's well no	umber	
Address 60813 Parrell Rd.	34 NE 34 Section 19 T. 188	R. 12 R.	W.M.
Bend, Oregon - 37701 (2) TYPE OF WORK (check):	Bearing and distance from section or subdivisi		
	West 's of Lot 92, River Bend 1		
New Well Deepening Reconditioning Abandon			
If abandonment, describe material and procedure in Item 12.	(11) WATER LEVEL: Completed w	ell.	
(8) TYPE OF WELL: (4) PROPOSED USE (check):	<b>.</b>	388	žt.
Rotary Driven Domestic Dindustrial Municipal Domestic	Static level 388 ft. below land s		
Cable   Jetted     Domestic   Industrial   Municipal	Arfesian pressure lbs. per squar		-10-00
(5) CASING INSTALLED: Threaded   Welded	(12) WELL LOG: Diameter of well b	relow cestne	1211
12" Diam. from +1 n to 26 n Gage 250	Depth drilled 447 ft. Depth of compl	_	
"Diam from ft. toft. Gage	Formation: Describe color, texture, grain size	nd structure	f materials:
7 Diam. fromft. toft. Gage	and show thickness and nature of each stratu- with at least one entry for each change of format position of Static Water Level and indicate prin	m and aquifer	penetrated,
(6) PERFURATIONS: Perforated?  Yes No.  Type of perforator used	MATERIAL.		
Size of perforations in. by in.		From To	
perforations from ft. to ft.	Crevess &	320 32 327 32	_
perforations from ft. to ft.	Seft & Broken	328 33	
perforations from ft. to ft.	Lava Broken	334 35	_
(7) SCREENS.	Red Cinders Conglemerate	352 35	
(7) SCREENS: Well screen installed?   Yes No	Brown Sandstone Conglowerate	358 38	3
Manufacturer's Name	Hard Lava	383 38	
Diam. Siot size Set from ft. to ft.	Seft	386 38	
Diam. Slot size Set from ft. to ft.	Lava	389 39 395 40	
Market Control of the	Lava Kild	395 40 401 41	
(8) WELL TESTS: Drawdown is amount water level is lowered below static leval	Broken Lava	410 41	
Was a pump test made? ☐ Yes ☑ No If yes, by whom?	Lava	411 42	
Yal: gal./min. with ft. drawdown after hrs.	Red Cinders	427 44	
• • • • •	Hard Lava	442 44	7
Beiler test 10 gal./min. with 0 ft. drawdown after 1 hrs.			+
American flow g.p.m.			
Temperature of water53 & Depth artesian flow encountered ft.	Work started 1-22 18 8(Complete	d 2-12	19 80
(9) CONSTRUCTION:	Date well drilling machine moved off of well	2-18	<u> 19 8</u> 0
Well seal-Material used Cement	Drilling Machine Operator's Certification:		
Well sealed from land surface to ft.	This well was constructed under my Materials used and information reported	direct sup	ervision.
Diameter of well bore to bottom of seal16 in.	best knowledge and fielief		
Diameter of well bore below seal	[Signed] LITYLTURE	Date 1-1	<b>7</b> 19 80
Number of sacks of cement used in well seal26sacks	(brilling Machine Operator)  Drilling Machine Operator's License No.	967	•
How was cement grout placed? Pressure Greut	Drining Machine Operator 5 Internse 110.		
Todoo	Water Well Contractor's Certification:		
I	This well was drilled under my jurisdi true to the best of my knowledge and bel		s report is
Was a drive shoe used? ☐ Yes M No Plugs Size: location ft.	Name Orvail Buckner Well Dril	ling. Inc	
Did any strata contain unusable water? Yas No	Address 1686-Ne Re. Negus Hear Red	(Type or	print)
Type of water? depth of strate of the control of th	Address Abstract American Starting	THE LAND	
Method of sealing strata off	[Signed]	7	p. 07 1 1 10 11 11 11 11 11 11 11 11 11 11 11
Was well gravel packed? Yes R No Size of grid H: 2.9. 2009	(Water Well Contr		00
Gravel placed from ft. to ft.	Contractor's License No Date	7-70	, 1Q. <u></u> U

STATE OF OREGON	NLCLIY X /17 /	90
WATER WELL REPORT 4143 JUL 2	6 1993 SEP - 7 1993	1 u
(as required by ORS 537.765) WATER RESOL	INCES DEFENATER RESIDENCES DEPT 780	
(1) CANTER:	A CATION ON WEING DIegal description:	
THE TURBY WATER CO.	County DESCHIOES Latitude Longitude	•
City REND State OR, Zip 97702	Township 185 Not Stance 12 E	a. a.v
	Section 9 SW W NB W  Tax Lot 20 Lot 72 Block Subdivision  Street Address of Well (or nearest address)	
(2) TYPE OF WORK:  New Well    Deepen    Recondition    Abandon	Tax Lot Block Subdivision	0-
(3) DRILL METHOD	RANGE BEAD ESTATES WETT to of LOT 92.	BEND C
Rotary Air Rotary Mud Cable	(10) STATIC WATER LEVEL:	
Other	390 ft. below land surface.	5-07
(4) PROPOSED USE:	Artesian pressure ib. per square inch. Date	
□ Domestic □ Community □ Industrial □ Irrigation	(11) WATER BEARING ZONES:	
☐ Thermal ☐ Injection . ☐ Other		
(5) BORE HOLE CONSTRUCTION:	Depth at which water was first found 438	
Special Construction approval Yes No Depth of Completed Well 4477 ft.	From To Estimated Flow Rate	SWL
Explosives used Type Amount	430 445 506 MR	390
HOLE SEAL Amount		<del></del>
Diameter From To, Material From To, sacks or pounds 18 0 30 CEMENT 0 30 83 5KS.	12	+
18" 0 30 CEMENT 0 30 93 5KS.	(12) WELL LOG: Ground elevation	
	Material From To	SWL
	BRN, SAVAY SOEL O 8'	
How was seal placed: Method	BROWEN LAVA (MALD) 8' 19'	
Uther	GRAY ROCK (MEA.) 19 45	
Backfill placed fromft. toft. Material	BRN. CONG. 45 110	2
Gravel placed fromft, toft. Size of gravel	BROKENLAUA (MILD) 1/0' 1/25	
(6) CASING/LINER:	REDCENDER CONS. 125 170	_
Casing: 14" +2 30 250 B   Casing: 14" +2 30 250	GRAY SAND STONE 170 ARC	
	BRN. SANDSTONE RZO 290 (YARD)GRAY ROCK E76172	
	CREUESES BROKEN ROCK 325 350	
	RENCHUSER CONG. 130 1970	
Liner: 12" - 3 1747/250	BAN. SANDSTONE CONG. 370 39	
	GRAY ROCK (TRD) 590 WY	
Final location of shorts:	BROKEN LAUA HARD 415 491 RED CANDER GRAVEL (W.B.) 450 44	5 390
(7) PERFORATIONS/SCREENS:  Perforations Method MTMS KARE	HARN GRAV ROCK 445 44	
	773 17	4-
Stot Tele/pipe		
From To size Number Diameter size Casing Liner		
407 447 XXX 640 1211		
457 947 VAS (A) 72"		_
		<del>-</del>
	Date started 5-10-93 Completed 7-5-9	23
	(unbonded) Water Well Constructor Certification:	
(8) WELL TESTS: Minimum testing time is 1 hour	I certify that the work I performed on the construction, alt	teration, o
☐ Pump ☐ Bailer ☐ Air ☐ Artesian	abandonment of this well is in compliance with Oregon well co	onstructio
Yield gal/min Drawdown Drill stem at Time	standards. Materials used and information reported above are true knowledge and belief.	to my bea
50GPH- 1 hr.	WWC Number	
T TOPER	Signed Date	
	(bonded) Water Well Constructor Certification:	
Temperature of water 58° Depth Artesian Flow Found	I accept responsibility for the construction, alteration, or abover performed on this well during the construction dates reported	
Was a water analysis done? Yes By whom	work performed during this time is in compliance with O	regon we
Did any strata contain water not suitable for intended ALU IN ALE	construction standards. This report is true to the best of my known belief.  WWC Number	
Salty Muddy Odor Colored Other	Signed Date 2-/2-	<del>-93</del>
Depth of strata: UN 2 9 2009	Office to the second se	-

## STATE OF OREGON WATER WELL REPORT (as required by ORS 587.765)

### RECEIVED

ŰJUN 1 2 1987

18=/12E-21ad

			10,				<u></u> .	<del>-</del>				
(1) 0	WNER		t am		Dwner's W	·I WATER F	ESOUR	(9) LOCATION OF WELL by I DES DEPT Des Latitude 185	egal d	escrip	tion:	
			rell	<u> </u>	-	SAL	EM. ORF	GONCOUNTY Des Letitude	1 5 -	Longitud	•	
		Pal	LeTT	Ka.				Township Nor S. Rang	<u> </u>		_ E or W,	WM.
	Bend				State ()	ce zip 9	7701	Section 21 SE 4	NE	<u> </u>	ـ	
	YPE O	F W(	QRK:					Tax Lot Lot Bloc	k	<b>S</b> ubd	ivision _	
New 1	Well	☐ Dec	epen [	Recon	dition	Abandon		Street Address of Well (or nearest address) .				
(8) D	RILL	MET	HOD:					60615 Tekampe Rd Be	nd, (	rego	n	
Rota			otary Mud		Cable	Other		(10) STATIC WATER LEVEL			-	
								775		Data	5/16	/87
						•		Artesian pressure				<del>, , ,</del> .
(4) P	ROPO	RD	USE.						quare inc	a. Date		·
Dom				Indus	trial [	Irrigation	•	(11) WELL LOG: Ground elevat	lon			
Then		☐ Injec		Other			,	Material	From	To	WB?	SWL
			CONST					sandy soil	0	2		
(4)			Depth	of Com	oleted Well	<u> 435</u>	n.	brn congl fine	2	9		
						approval		gray vesicular basalt	9	14		
	HOLE			SEAL		Amoun	t	redish congl med	14	16		
Diamet	er From	To	Material	From	To	sacks or po	unds	gray basalt	16	24		
7611	0	273		0	271	37 s	acks	redish gray congl	- 24	29		
12"	271	75	cent	0	<u> 6/2</u>	71.5	DACKE	gray basalt	29			
12"	- C7	:22.				<del>                                     </del>		no return hd brkn	-62			
						1- 0-		gray basalt	73			
		7 Meth	od □ A	⊔ B	Larc L	ID CIR		redish brn congl	87			
Other						-	•	gray basalt	98			
_						al		brn congl med	150	173		
			ft_ to	n.	Size of	gravel		gray basalt	173			
	ASING	•	ER:			–		brn ss congl med	195			
Casing: _	Diameter		127 <del>1</del>	Gauge	Steel P	lastic Welded		gray basalt	221	234		
Casing: _	1012		coulcos.	-256				brn congl crse	234		ļ	
-	- IXXXX	7	XXXXX					gray basalt		298	ļ	
-		1						brn congl very crse		307		
Liner:		1		•	ם	<u>.</u> _	_	gray basalt		328		<del>   </del>
Litter	10"	+1	435	250	_			brn basalt		340	<u> </u>	-
Final los	ation of sh				, L.			gray basalt		351		<b>├</b>
				TO TO TO	DYG.			red cindery rubble@cavi		363	<del> </del>	705
_			ONS/S					gray basalt fractured	363	381	WB	375
<b>3</b>	Perforation	ns.			mach		<del>.        </del> .	gray the same d	381	386	WB	<del>  ,  </del>
	Screens		Туре			Material		gray basalt with	200	389	WB	
Erom	To	Slo		- Diem		/pipe ize Casing	Liner	gray brkn basalt		406	₩B	<del>                                     </del>
<b>6</b>	1			:1	-			redish brn congl		409	WB	<del>   </del>
370	435		1160	1/8	bv		<b>R</b>	brn congl		428 435	W/B	<del>                                     </del>
	,,,,,			7				gray basalt	420	455	<del>                                     </del>	+
								<del> </del>		$\vdash$	+	<del>  </del>
							□	1 /20 /90		5/1	6/87	
								Date started 4/20/07 Cox	npleted	2/ 1	07 07	
(8) W	TELL 1	EST	S: Minir	num t	esting t	lme is 1 hour		(unbonded) Water Well Constructor C	ertificat	ion:		
· ·				_		Flowin	Æ	I constructed this well in complian	ce with	Oregon	well cor	struction
	Pump		Bailer		Air	Li Artesi	<b>an</b>	standards. Materials used and information knowledge and belief.	reported	above a	re true t	o my best
Yield	gal/min	Pump 3	ing level	Dr 	ill stem a	t Time		knowledge and belief.			_	
-7			4			1 hr		Signed WWW.		_ Date _	5/19	9/87_
				F	·1 *.		.•	(handed) When Wall Commission Com	i Cantin	n.		
					1.7	<del>/ 1</del>		(bonded) Water Well Constructor Cert			nd H=	mnlienes
Тепе		<u> </u>	52		unth Autori	an Flow Found		I accept responsibility for construction with all Oregon water well standards. The				
•	sture of wa ster analys			By w		THE POUNT THE		knowledge and belief.				
	-					REALIV	<u>IED</u>				5/19	9/87
			Ódor 🏻 C			U CAETI	- <b>L</b>		1/2 I			
•	f strata:	-				- desired	2000	Company Johnson Well Dri	.llin,	5 Joh	io	
Depail of						11.W.5.8	2009	Company	<del></del>	70. 000 I		
						•		•				2000C 10 700

#### WATER WELL REPORT

WATER RESOURCES DEPARTMENT,
SALEM, OREGON 87310
within 30 days from the date
of well completion.

RECE VELSE POREGON

APR 2 1979



Page 1
State Well No. 185/12E - 21 AD

State Permit No.

(1) OWNER: WATER RESOURCES DEF	T(10) LOCATION OF WELL:	
Name AVION WATER COMPANY SALEM, OREGON	County Deschutes Driller's well no	umbee
Address 60813 Parrell Road	se 14 me 14 Section 21 T. 18S	R. 12E W.M.
Bend, Gregon 97701	Bearing and distance from section or subdivisi	
(2) TYPE OF WORK (check):	Tecampe Rd.	
New Well Deepening Reconditioning Abandon		•
If abandonment, describe material and procedure in Item 12.	(11) WATER LEVEL: Completed w	rell.
(3) TYPE OF WELL: (4) PROPOSED USE (check):	Depth at which water was first found	374 n.
Rotary Driven Domestic Mindustrial Municipal Domestic Mindustrial Municipal	Static level 374 ft. below land	surface. Date 4-4-79
Dug   Bored   Irrigation   Test Well   Other	Artesian pressure The. per squar	
CASING INSTALLED: Threaded   Welded   12 I. Dane from +11 ft to 331 ft. Gage . 250	(12) WELL LOG: Diameter of well 1	below easing 12 in.
"Dism. from	Depth drilled 435 ft. Depth of compl	
"Diam from	Formation: Describe color, texture, grain size and show thickness and nature of each stratu	and structure of materials;
THE HOLD A MYOUR	with at least one entry for each change of forma position of Static Water Level and indicate prin	tion. Report each change in
PERFORATIONS: Perforated?  Yes [ANo.]	MATERIAL	
	Brewn sandy soil	Prom To SWL
Size of perforations in. by in.  perforations from tt. to tt.	Grey, broken lava	6 35
perforations from ft to ft.	Red, broken rock	35 44
perforations fromft, toft.	Grey lava	44 51
	Med., red cinders	51 58
(7) SCREENS: Well screen installed?   Yes  No	Grey, broken lava	58 105
Manufacturer's Name	Crevices ( no return )	105 127
Type Model No.	Med., brown conglomerate	127 174
Diam. Slot size Set from ft. to ft.	Coarse, red cinders	174 189
Service and the service and se	Med., brown sandstone Grey lava	189   220     220   231
(8) WELL TESTS: Drawdown is amount water level is lowered below static level	Med., brown sandstone	231 238
Was a pump test made?  Yes  No If yes, by whom?	Crevices ( ne return )	238 247
Yield: gal./min. with ft. drawdown after hrs.	Grey, broken lava	247 278
	Med. brown conglomerate	278 352
N M M	Red, coarse cinders	352 371
Baller test 24 gal./min. with 0 ft. drawdown after 1 hrs.	Coarse, black cinders-water-	971 987 974
	Med. brown conglomerate	371   397   374   397   412
aperature of water 58 Depth artesian flow encounteredft.	Work started Feb. 12 1979 Complete	
	Date well drilling machine moved off of well	April 5 1979
(9) CONSTRUCTION:		
Well seal-Material used SCREAT  Well sealed from land surface to 33½ ft.	Drilling Machine Operator's Certification: This well was constructed under my	direct supervision.
Diameter of well bore to bottom of seal	Materials used and information reported best knowledge and belief	above are true to my
Dismeter of well bore below seal	[Signed] Dellet R. Linn	Date 4-5 1079
Number of sacks of cement used in well seal 7 70 sacks	(Drilling Machine Operator)	// >
How was cement grout pleced? Dumped under pressure	Drilling Machine Operator's License No.	415
down the annular space drilled for the grout	Water Well Contractor's Certification:	
until it flowed out of the top	This well was drilled under my jurisd	iction and this report is
Was a drive shoe used?   Yes,   No Plus   Bize: location	true to the best of my knowledge and bel Name Orvail Buckner Well Dril	lief.
Did any strata contain unusable water?   Yes No	(Person, firm or corporation)	(Type or print)
Type of water? depth of strate	Address 1686 N.E. Negus Way, Red	mond, Ore. 97756
Method of sealing strata off RFCEIVED	resignation of the	Sur-
Was well gravel packed? Yes No Size of gravel:	[Signed] (Water Wall Comb	ractor)
Gravel placed from	Contractor's License No. L.O.S. Date	<u> 1-5</u> , 1079
T 10918 WATER RESCURCES DEPT	ERTS IF NECESSARY)	EP*4564-119

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report

or property are to be filed with the

WATER RESOURCES DEPARTMENT, SALEM, OREGON 97310 within 30 days from the date of well completion.

10918

#### WATER WELL REPORT

STATE OF OREGON

RECEIVATION type or print)

RECEIVATION (Type or print)



Page 2

		•	-		
State	Well	No.	185	12E	-214D

State Permit No. .

(1) OWNER: APR 24 1979	(10) LOCATION OF WELL:
Name AVION WATER COMPANYATER RESOURCES DEPT.	a Sanatus a
Address 60813 Parrell Boad SALEM, OREGON	
Bend, Oregon 97761	14 14 Section T. R. W.M.
(2) TYPE OF WORK (check);	Bearing and distance from section or subdivision corner
New Well Deepening Reconditioning Abandon	
If abandonment, describe material and procedure in Item 12.	
(3) TYPE OF WELL: (4) PROPOSED USE (check):	(11) WATER LEVEL: Completed well.
Rotary Driven D	Depth at which water was first found 374 ft.
Dust D Bowed D Toursellier D Book Wall D Co.	Static level 374 #1. below land surface. Date 4-4-79
GASTING PROMATE See Page 1	Artesian pressure Ibs. per square inch. Date
TIME REGION TO WANTER TO	(12) WELL LOG: Diameter of well below casing 12 in.
" Diam. from ft. to ft. Gage	Depth drilled 435 ft. Depth of completed well 435 ft.
Diam. fromft. toft. Gage	Formation: Describe color, texture, grain size and structure of materials;
	and show thickness and nature of each stratum and acquirer penetrated, with at least one entry for each change of formation. Report each change in
PERFORATIONS: Perforated?   Yes   No.	position of Static Water Level and indicate principal water-bearing strata.
Type of perforator used see page 1	MATERIAL From To SWL
Size of perforations in. by in.	Coarse, brown conglomerate 412 424
perforations from ft. to ft.	Med. red cinders 424 433
perforations from ft. to ft.	Red reck 433 435
perforations from ft. to ft.	
/E) COMPENSO	
(7) SUREENS: Well screen_installed?	
Type Model No.	
Diam Slot size Set from ft. to ft.	
Diam Slot size Set from ft. to ft.	
At 80	
(8) WELL TESTS: Drawdown is amount water level is lowered below static level	<del></del>
Was a pump test made? [] Yes [] No If yes, by whom?	
Yield: gal./min, with ft. drawdown after hrs.	RECEIVED
	JUN 2 9 2009
Bailer test Dago 1 gal./min. with ft. drawdown after hrs.	WATER REACUERE REPT
	WATER RESOURCES DEPT
	Work started Feb. 12 1979 Completed ADT 1 4 1979
nperature of water Depth artegian flow encountered ft.	
(9) CONSTRUCTION:	Date well drilling machine moved off of well April 5 19 79
Well seal-Material used See Dage 1	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.	hest knowledge and helief
Dismeter of well bore below seal in.	[Signed] Pellet R. Lina Date 4-5 1079
Number of sacks of cement used in well seal	(Drilling Machine Operator)
How was cement grout placed?	Drilling Machine Operator's License No. 415
	Water Well Contractor's Certification:
	This well was drilled under my jurisdiction and this report is
Was a drive shoe used? ☐ Yes ☐ No Plugs Size: location ft.	true to the best of my knowledge and belief.  Name Orvail Buckner Well Drilling, Inc.
Did any strata contain unusable water? [] Yes [] No	(Person, firm or corporation) (Type or print)
Type of water? depth of strata	Address 1686 N. R. Negus Way, Redwond, Ore, 97756
Method of sealing strata off	
Was well gravel packed?  Yes No Size of gravel:	[Signed] (Water Well Contractor)
Gravel placed from	Contractor's License No. 408 Date 4-5 1979
Green placed from	COMMISSION DESCRIPTION ATTENDED ATTENDED AND AND ADDRESS AND ADDRE

### STATE OF OREGON DESC WATER WELL REPORT 5634

### RECEIVED

JUN 28 1989 - - - - - -

183	1/2	E/	21	ad
٠ /		/		

(as required by ORS 53	7.765)	<b>'</b> //			TOTAL CHED) F-	5306 ′	• •	
(1) OWNER:	Company The	Il Number:	WATER	150 E333 C	OF WELL by le	gal descrip	tion:	
Address 60813 Parne	Company, Inc.			County Desch	Letitude	Longitu	de	•
City Bend		-	07700 17	18S	N or S, Range	12E	E or W	, WM.
	State OR	Zip	97702	Section 12	SE 4	<u>NE</u>		
(2) TYPE OF WOR	•			Tax Lot	Lot Block	Surb	division	
New Well Deepen	Recondition	Abandoz 🗆		Street Address of W	ell (or nearest address) _			
(8) DRILL METHO	D .			Í				
🔀 Rotary Air 🔲 Rotary	Mud Cable			(10) STATIC V	ATER LEVEL:	_		
Other			;	1 777 .	below land surface.	·	6-16-	<b>-89</b> .
(4) PROPOSED US	E:				lb. per squ			
	· .	Irrigation	٠.					
☐ Thermal ☐ Injection				(11) WATER B	EARING ZONE	8:		
(5) BORE HOLE CO				Depth at which water was	first found 378		<u> </u>	
Special Construction approval Yes No	Yes No Depth of C	completed Well		From	To -	Estimated Flor	r Rete	8WL
Yes No				378	421			373
Explosives used 🔲 🔯 '	Туре Ато	ount			47.1			3/3
HOLE	SRAL	4	mount					<del> </del>
Diameter From To	Material From	To sack	or pounds					<b>†</b>
18" 0  -20	cement 0	-19 23	sacks	(12) WELL LO	<sub>G</sub> ,			
16"   20   -426				(12) WELL LO	Ground elevati	on		
10"  426   -430	-				Material	From	Тъ	SWL
		<u> </u>		topsoil		0	3	
How was seal placed: Method	LA LB CC	ID 🖸 B		sandstone &		3	12	
Other			<del></del>	grey hard ro		12	20	
Backfill placed from ft.				soft brown b	roken rock	20	89	
Gravel placed fromft.	toft. Size of gre	avel		lost return		89	378	373
(6) CASING/LINE	<b>ł:</b>			soft broken		378	421	
Diameter From	To Gauge Steel Plac -19 .250 📉 🗀	stic Welded	Threaded	black hard r	ock	421	430	
Casing: 14" +1	<u>-19 .250 K</u>							Ĭ –
			🛚					
100	404 100 0	J. 🛄 .	. 🔲					
iner: 12" -3	-426.188 M							
inal location of shoe(s)					•			
7) PERFORATION	NS/SCREENS:							
• •	Method <u>factory</u>				•	RECE	WED	
<b>~</b>	•	laterial				MLCE	Visit	1
Elot .	Tele/r					11441-0	2000	
From To size	Number, Diameter , size	e Casin				JUN 2	2009	1
366 -426	2160 <del>1</del> X4"		Ä			ATED I	L	
		□		\		ATER PESOU	TUES D	EPT
						SALEM, OF	ECCN	
		□	. $\square$					
			. 🗖	Date started5-	8-89 Com	pleted <u>6-17</u>	-89	
				(unhanded) Weter !	Well Constructor Ce	rtification:		
(8) WELL TESTS: 1	Minimum testing tir	ne is 1 hou	•		e work I performed of		ion, alter	ration. o
☐ Pump 🏻 Bail	_	☐ Arts	wing	abandonment of this	well is in compliance	e with Oregon	well con	struction
-					used and information r	eported above a	re true to	my bes
Yield gal/min Drawde	own Drill stem at	7	Cime .	knowledge and belief.		WWC No	ımbe-	
8 gpm no			1 hr.	Signed		Date		
				organica				
					ll Constructor Certi			
Temperature of water	Depth Artesia	n Flow Found .			ibility for the construct			
	Yes By whom				is well during the con- ring this time is in			
Did any strata contain water not		☐ Too little		construction standard	le. This report is true			
Salty Muddy Odo				belief.	11	WWCN		
				Signed 2	26/0	Date	6-25-	89
			81100	ND COPY - CONSTRUCT	OR OTHER CO.	PY - CUSTOME		
ORIGINAL & FIRST COPY -	WATER RESOURCES DEP.	AKIMENT	SECO!	ND CUPY - GUNSTRUCT	OK ALHIKD CO.	FI - CUSTOME		9609C 8/6

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

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

#### WATER WELL REPORT

STATE OF OREGON

(Please type or print)

(De not write above this line)

RECEIVED

State JAN 15 1976
WATER RESOURCES DEPT.

(1) OWNER:	(10) LOCATION OF WELL OREGON	
Name CARY CLAWSON	County DESCHUE Driller's well number	
Address RT 1 BO. 607	NE % % Section 31 T. 185 R. 13 E	W.M.
REND ORG.	Bearing and distance from section or subdivision corner	W.M.
(2) TYPE OF WORK (check):	seems and discerted trons section of subdivision colles.	
New Well Deepening Reconditioning Abandon		
If abandonment, describe material and procedure in Item 12.	(11) WAMED I SUBT. Complete II	
(3) TYPE OF WELL: (4) PROPOSED USE (check):	(11) WATER LEVEL: Completed well.	
Batany Cl. Delvan Cl	Depth at which water was first found	<u>#</u> t.
Cable 🗵 Jetted 🛘 Domestic 🖼 Industrial 🗖 Municipal 🗎	Static level \$ 5.5 ft. below land surface. Date Se	<u> Priš</u> , 2
Trig   Bored   Irrigation   Test Well   Other	Artesian pressure . Ibs. per square inch. Date	·
CASING INSTALLED: Threaded   Welded	(12) WELL LOG: Diameter of well below seeing Si	11
8 Diam from Q n to 30 n Gage 250		
6 Diem styl C.O n to 925 n Cage 250	Depth drilled 925 st. Dapth of sompleted well 925	2 w
ft. to ft. Gage	Formation: Describe color, texture, grain size and structure of man and show thickness and nature of each structum and aquifur pens	terials;
	with at least one entry for each change of formation. Report such cho	ange in
) PERFORATIONS: Perforated? # Yes [] No.	position of Static Water Level and indicate principal water-bearing	strata.
Type of perforator used Sa	MATERIAL From To	SWL
Bise of perforations 3/16 in. by 8 in.	Over Burgen 0 2.	
180 perforations from 850 n to 925 n	BROKEN LANA 2 20	
perforations from	HARD LANA 20 30	
perforations from	CLAY 30 35	
(7) SCREENS: Well screen installed?   Yes Yo	35 230	
Manufacturer's Name	BROKENLANA 230 350	
Type Model No.	- KED LANA ( YNOW) 050 300	
Diam. Slot size Set from ft. to ft.	Broken Land 300 400	
Diam Slot size Set from ft. to ft.	PEOCHNERS 400 405	
	Broken Sanus zono 6/5 680	
(8) WELL TESTS: Drawdown is amount water level is lowered below static level	Recken Laua 630 760	
Was a pump test made? ☐ Yes ☐ No If yes, by whom?	13 LALK SAWD 760880	
'id: gal./min. with ft. drawdown after hrs.	(WATER) 820 850.	
Burning and An	FINE BLACK SAND 850 925	
		3 <i>5</i> 5
		<u>·</u> :
Bailer test 4 gal./min. with 1 ft. drawdown after 1 hrs.		
Ariesian flow g.p.m.		<del></del>
aperature of water Depth artesian flow encountered ft.	Work started 22 1 12 19 74 Completed / -	10/6
(9) CONSTRUCTION:	Date well drilling machine moved off of well 1-5	19 <i>76</i>
Orna Marchan	Drilling Machine Operator's Certification:	
Well seal—Meterial used Seal Miles Seal Miles Seal Miles Seal Meterial used Seal Meterial	This well was constructed under my direct supervi	sion.
Diameter of well bore to bottom of seal	Materials used and information reported above are true to best knowledge and belief.	o my
Diameter of well bore below seal	[Signed] Drilling Machine Operator)	1076
Number of sacks of cement used in well sealsacks	(Drilling Machine Operator)	
Number of sacks of bentonite used in well seal	Drilling Machine Operator's License No	
Brand name of bentonite	Water Well Contractor's Certification:	
Tumber of pounds of bentonite per 100 gallons	•	
nt water	This well was drilled under my jurisdiction and this rep true to the best of my knowledge and belief.	OFT IS
Was a drive shoe used? 🗆 Yes 💘 No Flugs Size; location ft.	Name WOSENER DELLING & Lung	<b>D.</b>
Did any strata contain unusable water?   Yes   No	(Person, firm or corporation) ' (Type or print)	•
Type of water? depth of strata	Address PEDMOND ORE	
Sethod of sealing strata off	[Signed]	
Was well gravel packed? [] Yes [] No Size [] [ [ ] [ ] [ ]	(Water Well Contractor)	
Fravel placed from	Contractor's License No. 499 Date	10,25

### Attachment E

# Well Logs for Proposed Additional Points of Appropriation

Well Name	Well Log Numbers
China Hat 2	DESC 52881
<b>Deschutes River Woods</b>	DESC 55124
Riverbend 3	DESC 57475
Dyer 1	DESC 58007

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JUN 29 2009

WATER RESOURCES DEPT SALEM, CRECON

#### WATER SUPPLY WELL REPORT (as required by ORS \$37.785)

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

**DESC 52881** 

Received Date 03/14/2000

Well	D Tag	#	L.	40122

Stert Card # 125179

(1) OWNER	Well Number	(9) LOCAT	TON OF	HOLE By lega	al description	n
Name		County		Letitude	Longitud	
AVION WATER CO. INC.		Township 18	.00 S	Range 12.00	E Subdi	h delos
Street 60813 DARRELL RD City BEND Sta	te OR Zip 977022507	Tex lot	900 Lot	Block	Gusar	VISION
(2) TYPE OF WORK	OR 27 91/022501	Section 29		4 NE 1/4		
⊠ Now ☐ Alter (Rec	endition) Alter (Repair)	Street Address of		rest address)		
☐ Deepening ☐ Abandoni	,,	60395 CHINA		must be attached		
(3) DRILL METHOD		<del>                                     </del>				
☐ Rotary Air ☐ Rotary Mud ☐	Cable	(10) STATI	_			
Other	-	1	-	/ land surface.	Date 02/28	/2000
(4) BBODOCED HOE		Artesian Pre		lb/sq. in.	Date	
(4) PROPOSED USE  ☐ Domestic ☒ Community ☐ Indu	strial   Irrigation   Injection	· ·		NG ZONES		
Livestock Thermal Other		From		first found 501		1
(5) BORE HOLE CONSTRUCTI	ON	†	508		500 501	1
_ · · · · · · · · · · · · · · · · · · ·	of completed well 624 ft.					
Explosives Used Amount	Туре	(12) WELL	100	Ground Eleve	rtion R.	
Diameter From To	Begin End Material		Ms	terial	From	To SWL
20.00 0.00 624 Material	Depth Depth Amount Units	SANDY	LOAM BRAY BR	OVEN	0	6
Cemen			RAY PO		12	12 30
Cemen	t 497.0 507.00 12.00 S	LAVA G	RAY FRA	AC MED	30	50
			BRAY REI	D BROKEN	50 55	55 165
			T GRAY			202
How as seel placed: Method C Other			RED FINE			223
Backfill placed from 30 ft. TO 497	ft. Material SA		T GRAY RS FINE E	ROWN		270 272
Filter pack from ft. TO	ft. Size in.	BASAL	T GRAY		272	287
(6) CASING/LINER			ITE GRAY BRAY REI			367 388
Casing or Liner Begin End	Construction	ANDES	ITE GRAY			400
	Location ge Material Weld Threaded Of Shoe	CAVES	NOUS LO IO SICUL	ST SICULAIIC		405 425
C 14.00 1.00 624.00 .37	75 S <b>H</b>	LAVA E	SLACK MI	ED		430
		LAYA Y	ARIOUS		425	624 501
		1				
(7) PERFORATION/SCREENS					REC	EIVED
Perforations Method						
Screens Type	Material				JUN	<b>29</b> 2009
14.00 519 624	Maxerial Type Slot Size  S C .010				יייייייייייייייייייייייייייייייייייייי	SOURCES DEPT
14.50	0 .0.10				WAIERINE	M, OREGON
					SALL	,,,,
(8) WELL TESTS (Minimum te	sting time is 1 hour)	Date started	02/15	/2000	Completed 03/0	3/2000
Type Yield Units Drawdow		(unbonded) Water			93/0	3/2000
Air   500.0 G	550    1.0				ction, alteration, or	
					ruction standards. I t knowledge and be	
Temperature of water 43 *F/C De	opth artesian flow found ft.	Signed By	TERRY M	MCCOY JR		
Was water analysis done?		(bonded) Water			WWC Number	1672
By Whom? AVION WATER DISTRICT		performed on this v	vell during the	construction dates	on, or abandonment reported above. Al	l work
Did any strata contain water not suitable for it		I'		ompliance with Ore my knowledge and	gon well construction belief.	m standards.
	Other	·			WWC Number	1464
Depth of strate #.		Signed By GRE	g Mcinnis	GEO	-TECH EXPLOR	ATIONS

STATE OF OREGON
WATER SUPPLY WELL REPORT DESC 55724
(an required by ORS 537.765)

(WELL LD.)# L 58412 .	
STADT CARD) # 150230	

	Instructions for completing this report are on the last page of this form.				page of this form.	(START CARD) # 150230					
(1) OWNER:						(9) LOCATION OF	•	_	•	ngitude	
Address 19741 E		ny ona ar				Township 18	8 E	Range 1		E	WM
City Bend			State OR		Zio 97902	Section 39	NE	1/4 N		1/4	WML
Z) TYPE OF	WODK		CARL CIT			Tux Lot 5300	Lot	Block		ubdivision	
•		Alterati	on (renair/	econdi:	ion) 🔲 Abandozment	Street Address of W					<b>1</b>
3) DRILL MI			on (repen)	· ·	AMI) [ ] AUGUANUM	97002	en (m nestese			140 04140 (	
Rotary Air		Mod M	Cable	Aug	er	(10) STATIC WAT	R LEVEL:	2*-1-W-008 VIII-4-	<del></del>		
Other	,,				_		clow land surf			Date Jan 11	2003
4) PROPOSE	D USE:					Artesian pressure		b. per squar		Date	, 2000
•	Comm	mnity 🗀	Industrial		Irrigation	(11) WATER BEAF			-		
Thornal	Injecti	· —	Livestock	_	Other	(, -,					
(5) BORE HO	LE CO	STRUCT	ION:			Depth at which water w	as first found	200			
Special Construc	tion appro	val 🗌 Yes 📝	No Dept	h of Co	mpleted Well 520 A.	'					
Explosives used					mount	From		To	Estimate	d Flow Rate	SWL
HOLE			SEAL			200	225		150 GPM P	tus	167
Diameter From	To .	Material	From	Te	Sacks or pounds	302	310		100 GPM P	lus	167
29" 0	310	ement	210	300	11 yards	405	520	1	500 GPM P	lus	405
	C	ement	0	30	25 Sacks						7
16" 310	520										
20" UR 400	415 C	ement	400	415	22 Sacks	(12) WELL LOG:					
How was seal pla	ced:	Method [	]A [	В	ZC DD DE	<b>,</b>	nd Elevation _				
Other											
Backfill placed fr	om 30	1. to 210	ft.	Mater	ial Sand/coment	Mate	rial		From	To	SWL
Gravel placed fro	ma. ——	ft. 40	ft.	Size o	of gravel	Soli			0	7	
6 CASING/I	LINER:					Grey Baselt			7	79	
Diameter		To Ga	age Steel	Planti	: Welded Threaded	Brown Lava			79	105	
Casing: 16"	+1		75			Broken Lava Black	and Brown		195	119	\$
				ă		Black Baselt			119	157	WATER T
	1			ă		Red and Brown Lav	a soft with (	clay stone	157	190	SE L
				ă		Black Besalt			190	200	
iner: 14"	405	415 0.3	375	ă		Broken Black Bassi	1		200	225	<u> </u>
				$\Box$		Black Basalt			225	302	<u> </u>
Final location of	shoc(s)					Broken Lava weath	ered with Pe	a gravel	302	310	
7) PERFORA		SCREENS:	:			Grey Lava			310	405	<b>20</b> €
Perforation		ethod Fac		<u>chi</u> ne	Slot	Lava and Cinders G	irey and Rec	l	405	435	而
Screens		тре		M	aterial	Lava and Cinders B	rown and R	ed	435	443	.3
From . To	Slet		Diameter	Tele/p		Lava Black			443	483	
415 520	1/8x3		4" 8,375			Lava weathered Car			483	497	
						Lave Grey Fracture	<u> </u>		467	520	
					_ 0 0						
				<u> </u>	_ 0 0	l				-	
						* No return - Water		messure	<b>a</b>		•
						in galions per mine				45.55	
8) WELL TE	STS: MI	nimum tes	ting time	is 1 bo	er	Date started October				ary 13, 200	<u>,                                     </u>
					Flowing	(unboaded) Water We					
Pump	□B	uiler	<b>₩</b> Air		Artesian	I certify that the wor	k I performed	on the cons	truction, alto mody well o	ration, or abs costruction of	ndonmen anderds
Yleki gal/mia	Dra	wdows	Drill et	<b>#</b>	These	of this well is in compli Materials user and info	mation repor	ed above ar	e true to the	best of my kr	wiedge
(") N/R		(	520		1 hr.	and belief.	· //				
						I In. L	-#		WWC N	imber 1523	97
						Signed T	_///			Date Jan	ar, 2003
Temperature of v	Water 48	D	epth Artesi	an Flow	Found	(bonded) Water/Well		Certification		L	
Was a water and	tysis done?	Ye	s By whom	a		I accept responsibility performed on this well	during the cor	istriaction de	stes reported	above. All w	TOTAL .
Did any strata co	ontain wate	r not suitable	for intend	ed use?	Too little	I maniferented descine this t	ime is in come	allimore with	Oregon was	er seemely wei	
Saity Ma	nddy 🔲	Odor C	olored [	Othe		construction standards.	This report is	true to the	best of my k	nowledge and	i bellef.
Depth of strata:				<del></del>	EMEN.	1	1//	-	WWC N	umber 1464	97 986
			R		CIVED	Signes		<u> </u>	<u> </u>	_ Date Jan	21, 2003
ORIGINAL &	FIRST C	OPY-WATE	R RESO	u <b>rce:</b> JUN	2 9 2009	CONTROL CONT	RUCTOR	THIRD (	COPY-CUS	TOMER	

WATER RESOURCES DEPT SALEM, OREGON

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### 1 messe 57475

STATE OF OREGON WATER SUPPLY WELL REPORT (as required by ORS 537.765 & OAR 690-205-0210)

DESC 57475

WELL LABEL # L	82816
START CARD#	186487

(1) LAND OWNER Owner Well I.D. 19860 RockingHorse By				
First Name	-   () LOCATION OF WELL (legal description)			
Company Avion Water Company	County DESCHUTE! Twp 18 S N/S Range 12 E E/W WM			
Address 60813 Parrell Rd	Sec   19   SW   1/4 of the   NE   1/4   Tax Lot 201   Tax Map Number   Lot			
City Bend State OR Zip 97702				
(2) TYPE OF WORK New Well Deepening Conversion				
Alteration (repair/recondition) Abandonment	Omega			
(3) DRILL METHOD	19860 Rocking Horse Rd, Bend, OR 97702			
Rotary Air   Rotary Mud   Cable   Auger   Cable Mud   Reverse Rotary   Other	(10) STATIC WATER LEVEL Date SWL(psi) + SWL(ft)			
(4) PROPOSED USE Domestic Irrigation X Community	Existing Well / Predeepening   Predeepening			
	Completed Well 06-06-2006 386			
Thermal Injection Other	Flowing Artesian? Dry Hole?			
	WATER BEARING ZONES Depth water was first found			
(5) BORE HOLE CONSTRUCTION Special Standard Attach copy)				
Depth of Completed Well 450 ft.  BORE HOLE SEAL secks/	D6-30-2006 360 440 200 386			
Dia From To Material From To Amt lbs	▎┟ <del>┈┈┤┈┈┤┈┈┤</del>			
16 0 455 Cement 0 45 45 S				
Cement 315 327 6 S				
	(11) WELL LOG Ground Flevation			
	Ground Elevation			
How was seal placed: Method A B XC D E	Material From To			
Other	Soil			
Hackfill placed from 327 ft. to 330 ft. Material Bentonite Chips  Filter pack from ft. to ft. Material Size	Red cinders - vesicular 20 45			
	Black basalt - vesicular 45 190			
Explosives usedYes Type Amount	Brown sandstone - soft 190 260			
(6) CASING/LINER	Black and red basalt - vesicular w/ gravel 260 275			
Chsing Liner Dia + From To Gauge Stl Plstc Wld Thrd	Red basalt - vesicular and hard cinders         275         320           Red vesicular cinders         320         340			
$\bigcirc \qquad \bigcirc \qquad   \qquad   \qquad   \qquad   \qquad   \qquad   \qquad   \qquad   \qquad $	Black vesicular basalt 340 455			
$\triangleright \leftarrow \rightarrow \leftarrow $				
	RECEIVED			
Shoe Inside X Outside Other Location of shoe(s) 450				
	100 2.9 7009			
(7) PERFORATIONS/SCREENS Perforations Method Factory	WATER DESCRIPTED DEPT			
Screens Type Material	WATER RESOURCES DEPT			
	SALEM, OREGON			
Perf/ Casing/Screen Scrn/slot Slot # of Tele/ Screen Liner Dia From To width length slots pipe size	Date Started 05-17-2006 Completed 06-07-2006			
Perf Liner 12 430 450 .188 3 960	(uubonded) Water Well Constructor Certification			
	I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon water supply well			
	construction standards. Materials used and information reported above are true to			
	the best of my knowledge and belief.			
(8) WELL TESTS: Minimum testing time is 1 hour	License Number 1702 Date /- // - C 7			
Pump Bailer (a) Air Flowing Artesian	Password : (if filing electronically)			
Yield gal/min Drawdown Drill stem/Pump depth Duration (hr)	Signed A. That III			
200 440 i	(bonded) Water Well Constructor Certification			
	I accept responsibility for the construction, deepening, alteration, or abandonment			
	work performed on this well during the construction dates reported above. All work			
Temperature 57 °F Lab analysis Yes By Water quality concerns? Yes (describe below)	performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.			
Water quality concerns? Yes (describe below) RECEIVED.	License Number 1323 Date 1- 11- 07			
	Password : (if filing electron cally)			
JAN 1 8 2007	Signed Miller !			
	Contact Info (optional) Boart Longean Company / Geo-Tech Explorations			
THIS REPORT MUST BE SUBMITTED TO THE WATER AND SOCIETY OF REM	EPARTMENT SENT WITHIN 30 DAYS OF COMPLETION OF WORK Form Version: 0.88			
	rom version. 0.88			

1 1091 6

### **DESC 57475**

### WATER SUPPLY WELL REPORT - continuation page

WELL I.D. # L	82816
START CARD	# 1864B7

(5) BORE HOLE CONSTRUCTION										
BORE HOLE	SEAL			(10) STATI	C WATE	R LEVEL				
Dis From To Material		Amt_II	ks/	Water Bea	ring Zones					
		<del>                                     </del>	J	SWL Date	From	To	Est Flow	SWL(psi)	+ 9	SWL(ft)
			<b>⊣</b> /						П	
					<del>                                     </del>				H	
			1							
			<b>⊣</b> [							
			$\Box$						H	
FILTER PACK From To Material Size			- 1				-		H	
From To Material Size	$\neg$									
	4									
						_				
(6) CASING/LINER			-	(11) WELL 1	L <b>OG</b>					
			ı		Material			From		Ta
Casing Liner Dia + From To	Gauge Sti Pisto	Wid Thro	'							
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	<del></del>	HH	- 1							
		HH							+-	
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	- Q	$\vdash$								
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			- []							
(T) DEDECORATIONS (CORPORA)										
(7) PERFORATIONS/SCREENS Perl/ Casing/ Screen Screen			. 11							
Screen Liner Dia From To wi	n/slot Slot # o dth length slo									
	I I I	J.p. J.	۱ [							
			_		······································			FALL		n
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		-	$\exists$ [ $\Box$						- 40	00
			<b>□</b>					JUN Z	20	ועס
						_		DE0011	d CE	S DEDI
			- 1				WATE	RESOU		
			∃I¦	_			- 8	ALEM, O	EU	CIV
			<u>-</u>   ˈ							
(8) WELL TESTS: Minimum testing to	ime is 1 hour									
Yield gul/min Drawdown Drill stem/Pt	unn denth Durati	ion (hr)	١.							
		LEAT THE	- 1	Comments/F	Remarks					
		——								
				Backfill-	L-1	330 /3 1 3				
Water Quality Concerns				- Bentonite	: chips 327 - : hackfill nlece	330 (3 secks) xd from 45 - 3	15 feet (1 s	ards)		
From To Description	Amount	Units		- SUIMING !	piace	73 * 3		44,		
				Air Test:		-i-t 4't	!-			
				- could not	maintain con low at approx	sistent discha cimately 200 (	rge fatê in ( Epm	Maer to accu	rately	test.
		+-			<del></del>					



## DESC 57475 Boart Longyear Company Geo-Tech Explorations Division

19700 SW Teton Ave
Tualatin, OR 97062
Toll free 1-800-275-3885
(503) 692-6400 Fax (503) 692-4759
www.geotechinc.com / www.boartlongyear.com

January 11, 2007

Oregon Water Resources Department North Mall Building 725 Summer St. NE, Suite A Salem, OR 97301-1271

Re: Amendments to DESC 57475

The Attached well report has been amended to make corrections in regards to the boring diameter, filter pack and backfill material. The boring diameter was 16" and not 15". No filter pack was installed. And the backfill material and intervals have been changed in accordance with the work performed.

Thanks,

Keith Vidos

**Contract Drilling Services** 

Geo-Tech Division-Tualatin,OR
ISO 14001 Certified
800 275 3885 Office
503 692 4759 Fax
Offices:AL,AZ,IN,GA,MA,MN,OH,OR,UT,VA,WA,WI

RECEIVED

JUN 29 2009

WATER RESOURCES DEPT SALEM, OREGON

RECEIVED

JAN 1 6 2007 WATER RESOURCES DEPT SALEM CRESON

#### **DESC 58007**

**DESC 58007** 

**STATE OF OREGON** WATER SUPPLY WELL REPORT (as required by ORS 537,765 & OAR 690-205-0210)

05-17-2007

WELL LABEL # L	84181	
START CARD#	191737	

Page 1 of 4

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	6/	14	10	7

(I) I AND OHAIRD	<u>V /</u>	
(1) LAND OWNER Owner Well I.D. L14181	(9) LOCATION OF WELL (legal description)	_
First Name Last Name	County Deschutes Twp 17.00 S N/S Range 12.00 E E/W W	/M
Company AVION WATER CO.	Sec 14 NE 1/4 of the SE 1/4 Tax Lot 805	
Address 60813 PARREL RD	Tax Map Number Lot	_
City BEND State OR Zip 97702	Lat 0 or DMS or DE	5
(2) TYPE OF WORK New Well Deepening Conversion	Long 0 or DD DMS or DD	)
Alteration (repair/recondition) Abandonment	Street address of well Nearest address	
(3) DRILL METHOD	63365 HAMEHOOK RD	7
Rotary Air Rotary Mud Cable Auger Cable Mud		<u></u>
Reverse Rotary Other	(10) STATIC WATER LEVEL Date SWL(psi) + SWL(ft)	
	Existing Well / Predeepening Date SWL(psi) + SWL(ft)	
(4) PROPOSED USE Domestic Irrigation Community	Completed Well 05-10-2007 694	
Industrial/ Commercial Livestock Dewatering	Flowing Artesian? Dry Hole?	
Thermal Injection Other	WATER BEARING ZONES Depth water was first found	
(5) BORE HOLE CONSTRUCTION Special Standard Attach copy)		•
Depth of Completed Well 854.00 ft.	05-07-2007 715 784 200 694	
BORE HOLE SEAL sacks/ Dia From To Material From To Amt the	05-07-2007 791 798 200 694 05-07-2007 807 813 200 694	
Dia         From         To         Material         From         To         Amt         lbs           24         0         19         Cement         0         19         30         S	D5-07-2007   807   813   200   694	
20 19 620 Cement 19 31 10 S	55 07 2507 422 420 200 354	
20 620 645 Cement 620 645 20 S	(1) WELL LOC	
	(11) WELL LOG Ground Elevation	
How was seal placed: Method A B C D E	Material From To	
Other	See Attached 0 854	
Backfill placed from 31 ft. to 620 ft. Material Concrete  Filter pack from ft. to ft. Material Size		
Explosives used: Yes Type Amount		
(6) CASING/LINER Casing Liner Dia + From To Gauge Stl Piste Wid Thrd		
●       C       20         ■       C       16         ■       C       0         16       E         2.5       854         375       E         ○       E		
		)
	11 100 10 100	
	RECEIVED IIIN 2 9 200	q
Shoe Inside Outside Other Location of shoe(s) 854	HECEIVED JUN 23 200	5
Temp casing Yes Dia From To	HIN 1 9 2007 WATER RESOURCES	DEP.
(7) PERFORATIONS/SCREENS		
Perforations Method Factory Milled	SALEM, Officado	V
Screens Type Material	WATER RESOURCES DEPT	
Perf/ Casing/Screen Scm/slot Slot # of Tele/	Date Started 03-03-200FGON Completed 05-11-2007	
Screen Liner Dia From To width length slots pipe size	Completed 03-11-2007	-
Perf Casing 16 754 834 .125 3 5,120	(unbonded) Water Well Constructor Certification	
<del></del>	I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon water supply well	
	construction standards. Materials used and information reported above are true to	
	the best of my knowledge and belief.	
(8) WELL TESTS: Minimum testing time is 1 hour	License Number 1530 Date 05-17-2007	
Pump Bailer Air Flowing Artesian	Electronically Filed	
Yield gal/min Drawdown Drill stem/Pump depth Duration (hr)	Signed STEVEN VIBBARD (E-filed)	_
1,500 20.5 820 1.5	(bonded) Water Well Constructor Certification	
	I accept responsibility for the construction, deepening, alteration, or abandonmen	
Temperature 56 °F Lab analysis Yes By	work performed on this well during the construction dates reported above. All wor performed during this time is in compliance with Oregon water supply we	
Temperature 56 °F Lab analysis Yes By Water quality concerns? Yes (describe below)	construction standards. This report is true to the best of my knowledge and belief.	
From To Description Amount Units	License Number 1523 Date 05-17-2007	
· · · · · · · · · · · · · · · · · · ·	Electronically Filed	
	Signed ROBERT STADELI (E-filed)	
	Contact Info (optional)	_

#### **DESC 58007**

WATER SUPPLY	WELL REPORT -	
continuation page		

DESC 58007 05-17-2007

WELL I.D. # L 84181	Page 2 of 4
START CARD # 191737	

### Casing Screen Liner Dia From To width length slots pipe size    SWL Date From To Est Flow SWL(psi) + SWI(psi) + SWI(p	(5) I	BORE	HOLE		NSTRU	JCTIC erial	S	EAL	т.		sacks/		10) STATIO	C WATE	R LEVEL				
(6) CASING/LINER  Casing Liner Dis + From To Gauge Sd Plute Wild Three Screen Liner Dis From To width lensth slots pipe size screen Liner Dis From To width lensth slots pipe size screen Liner Dis From To width lensth slots pipe size screen Liner Dis From To width lensth slots pipe size Screen Liner Dis From To width					- Wildle					Ami	Ins					Est Flow	SWL(psi)	Ė	SWL(ft)
(6) CASING/LINER  Casing Liner Dis + From To Gauge Sd Plute Wild Three Screen Liner Dis From To width lensth slots pipe size screen Liner Dis From To width lensth slots pipe size screen Liner Dis From To width lensth slots pipe size screen Liner Dis From To width lensth slots pipe size Screen Liner Dis From To width																			
Casing Liner Dis + From To Gauge Sd Plate Wid Thrd  (7) PERFORATIONS/SCREENS  Perif Casing/Screen Screen Liner Dia From To width length slots pipe size  Screen Liner Dia From To width length slots pipe size  RECEIVED  JUN 2-9-2  JUN 1-8-2007 WATER RESOURCES DEPT SALEM, OREGON  Comments/Remarks  Water Quality Concerns  Water Quality Concerns  Apartic Using Screen S					terial	Siz	<u> </u>												
Casing Liner Dis + From To Gauge Sd Plate Wid Thrd  (7) PERFORATIONS/SCREENS  Perif Casing/Screen Screen Liner Dia From To width length slots pipe size  Screen Liner Dia From To width length slots pipe size  RECEIVED  JUN 2-9-2  JUN 1-8-2007 WATER RESOURCES DEPT SALEM, OREGON  Comments/Remarks  Water Quality Concerns  Water Quality Concerns  Apartic Using Screen S												-		_					
(7) PERFORATIONS/SCREENS Perf Casing/Screen Screen Liner Dia From To width length slots pipe size Streen Liner Dia From To width length slots pipe size    RECEIVED					Fro	m To	Gauc	. 51	Disease	ma .	Thed	(1	11) WELL				From		То
Perf/ Casing/ Screen Screen Liner Dia From To width length slots pipe size  RECEIVED  JUN 2 9 2  JUN 18 2007 WATER RESOURCES DEPT SALEM, OREGON  (8) WELL TESTS: Minimum testing time is 1 hour  Yield sal/min Drawdown Drill stem/Pump depth Duration (hr)  Water Quality Concerns  Water Quality Concerns  Bentonite sand and gravel installed on steel ring on 16" casing used to land					, 101	10	Jaug												
Perf/ Casing/ Screen Screen Liner Dia From To width length slots pipe size  RECEIVED  JUN 2 9 2  JUN 18 2007 WATER RESOURCES DEPT SALEM, OREGON  (8) WELL TESTS: Minimum testing time is 1 hour  Yield sal/min Drawdown Drill stem/Pump depth Duration (hr)  Water Quality Concerns  Water Quality Concerns  Bentonite sand and gravel installed on steel ring on 16" casing used to land	_	<del>}</del>																	
RECEIVED  JUN 29 2  JUN 18 2007 WATER RESOURCES DEPT SALEM, OREGON  (8) WELL TESTS: Minimum testing time is 1 hour Yield sal/min Drawdown Drill stem/Pump depth Duration (hr)  Water Quality Concerns  Bentonite sand and gravel installed on steel ring on 16" casing used to land	Perf/	Casing	/ Screen																
RECEIVED JUN 29 2  JUN 18 2007 WATER RESOURCES DEPT SALEM, OREGON  WATER RESOURCES DEPT SALEM, OREGON  Comments/Remarks  Comments/Remarks  Bentonite sand and gravel installed on steel ring on 16' casing used to land	Screen	Liner	Dia	Fro	m	10	width	lengt	h sic	ots pi	pe size						RE		WED
(8) WELL TESTS: Minimum testing time is 1 hour  Yield gal/min Drawdown Drill stem/Pump depth Duration (hr)  Water Quality Concerns  Bentonite sand and gravel installed on steel ring on 16" casing used to land														RECEI	VED				
(8) WELL TESTS: Minimum testing time is 1 hour  Yield sal/min Drawdown Drill stem/Pump depth Duration (hr)  Water Quality Concerns  Bentonite sand and gravel installed on steel ring on 16" casing used to land												E		UN 18			ATER RE	:SC	URCES DI OREGON
Yield gal/min Drawdown Drill stem/Pump depth Duration (hr)  Comments/Remarks  Water Quality Concerns  Bentonite sand and gravel installed on steel ring on 16" casing used to land	(8)	VEI I	TEST	S. Mi-	im	testi	a time	ie 1 b	0112							<b>T</b>		<b>=</b> É	
Demonite said and graver instanted on seet ring on to casing used to and										tion (hr	i)	-	Comments/	Remarks					<del></del>
Demonite said and graver instanted on seet ring on to casing used to and											-			_					
IUTICI 3061.				Concer		escriptio	ภ	^_	mount	Units	]			d and gravel	installed on s	teel ring on	16" casing u	ısed	to land

#### WATER SUPPLY WELL REPORTcontinuation page

### DESC 58007 DESC 58007

05-17-2007

WELL I.D. # L 84181

START CARD # 191737

Page 3 of 4

Map of well



Boart Longyear Company. 19700 SW Teton Tualatin, OR 97062 Ph: (503) 692-6400, Fax: (503) 692-4759

Well Name: Avion Production Well
Start Card #: 191737
Label #: L84181

Material Description	From:	To:	
Baselt Hard Gray	0,	21'	
Cinders Red	21'	24'	
Basalt Gray Med Hard	24'	31'	
Cinders Red	31'	44'	
Basalt Gray Hard	44'	81'	
Cinders Red	81'	86'	
Basalt Gray Med Hard Vesicular	86'	99'	
Cinders Red	38,	105'	
Basalt Gray & Brown Med Hard Vesicular	105'	115'	
Basalt Gray Red & Brown Soft Vesicular	115'	126'	
Basalt Gray & Brown Med Hard	126'	131'	
Ne Return	131'	136'	
Basalt Gray Broken	136'	144'	
Conglomerate	144'	160'	
Basalt Gray Med Hard with some Brown Clay Binder	160'	163'	
Conglomerate	163'	167'	
No Return	167'	173'	
Conglomerate Med Hard	173'	186'	
Basalt Gray Med Hard	186'	196'	
Basalt Brown Med Hard	196'	215'	
Basalt Gray & Red Soft Vesic	215'	224'	I I Can O for t A few to
Basalt Gray Hard	224'	235'	
Basalt Gray Broken Vesic	235'	243'	JUN <b>2 9</b> 2009
Basalt Gray Hard	243'	250'	
Brown Conglomerate Med Hard	250'	265'	WATER RESOURCES!
No Return 8 Yards Cement	265'	281'	SALEM, OREGON
Basalt Red & Gray Vesicular	281'	285'	SALLINI, OTTLOOP
Conglomerate Brown	285'	298'	
Basalt Red & Gray Vesicular Med Hard	298'	305'	
Conglomerate Brown	305'	309,	
Basalt Gray Hard	309'	316'	
ava Red	318'	323'	
Basalt Gray Hard	323'	355'	
ava Cyinders Red Soft	355'	360'	
Basalt Gray Med Hard Some Fractures	360'	365'	
Basalt Gray Hard	365'	386'	
ava Rock Red & Gray Badly Broken	386'	395'	
Basalt Gray Med Hard Basalt Gray & Red Hard	395'	400'	
Basalt Gray & Red Hard	400'	405	
Basalt Gray & Red Badly Broken	405'	409'	
ava Rock Red Vesicular Pour Return JUN 1 8 2007	409'	415'	
Regit Gray Hard	415'	421'	
Basalt Gray Med Hard WATER RESOURCES DED-	421'	446'	
No Return Pour Cement SALEM, OREGON	446'	470'	
Basait Gray Med Hard	470'	480'	

DEPT N:

05-17-2007

			_
WELL	I.D.	#L	84181

START CARD # 191737

Page 4 of 4

Map of well



Boart Longyear Company. 19700 SW Teton Tualatin, OR 97062 Ph: (503) 692-6400, Fax: (503) 692-4759

Well Name: Avion Production Well (page 2)
Start Card #: 191737
Label #: L64181

Material Description	From:	To:	]
Basalt Gray & Red Soft	480'	485'	7.
Cynders Red	485'	506'	
Basalt Dark Brown Med Hard Vesicular	506'	530'	1
Basalt Gray Hard Little Return	530'	535'	1
Basalt Brown Med Hard Little Return	535'	542'	7
Basalt Brown Soft	542'	546'	7
Basait Brown & Gray Hard Little Return	546'	571'	1
Basalt Brown Soft Broken Vesicular	571'	585'	7
Basalt Brown Med Hard Vesicular	585'	605'	7
Basalt Gray Soft Vesicular	605'	624'	7
Basalt Gray Med Hard Vesicular	624'	638'	
Basalt Gray Med Hard Fractured	638'	643'	1
Basalt Brown Broken	643'	650'	7
Basalt Brown Med Hard	650'	654'	7
Basalt Brown Broken	654'	665'	7
Basalt Brown Broken with Yellowish Clay Binder	665'	671'	1
Lava Gray & Red Broken Vesicular	671'	683'	7
Lava Gray & Red Med Hard Vesicular	683'	705'	7
Basalt Gray Hard	705'	715'	1
Lava Red & Gray Vesicular with Broken Streaks	715'	751'	RECEIVED
Basalt Gray Med Hard with Broken Streaks Red & Gray	751'	784'	UEOFIAFO
Basait Gray Hard	784'	791'	
Basalt Red & Gray Broken	791'	796'	JUN <b>2 9</b> 2009
Basalt Red & Gray Med Hard Vesicular	796'	798'	
Basalt Gray Hard	798'	807' INIA	ER RESOURCES DEPT
Basalt Gray Broken	807'	813'	CALEM CDECON
Basalt Gray Hard	813'	818'	SALEM, OREGON
Basalt Gray Med Hard	818'	822'	1
Basalt Gray Broken	822'	828'	1
Basalt Gray Hard	828'	850'	1 _
Basalt Gray Broken	850'	954- 8	<b>354</b> ′
			T *
RECEIVED			
IIIN 1 8 2007			
JUN 1 O ZUUI		<del>                                     </del>	1
WATER RESOURCES DEPT			<u> </u>
SALEM, OREGON			7