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STATE OF OREGON WATER SUPPLY WELL REPORT (as required by ORS 537,765)

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

(WELL I.D.)# L 68018 (START CARD) # 161699

(1) OWN					ν	Vell Nui	mber PW-4	(9) LOCATION OF WELL by legal description:
Name City								County Multnomah Latitude Longitude Township 1 S Range 5 E WM
Address 11		5th Ave					7: 07204	Section 26 SE 1/4 SE 1/4
City Portl				Sta	te OR		Zip 97204	Tax Lot 400 Lot Block Subdivision
(2) TYPE								
			Alte	ration ((repair/i	recondit	ion) 🗌 Abandonme	<u> </u>
(3) DRIL						-		No.2 and above the headworks
7 Rotary	Air [Rotary	Mud	Cab	le	Aug	er	(10) STATIC WATER LEVEL:
Other								ft. below land surface.
(4) PROI	POSED	USE:						Artesian pressure 45' lb. per square inch. Date 1-15-04
Domest	tic [Comm					Irrigation	(11) WATER BEARING ZONES:
Therma		Injection		Live		V	Other test	= 1
(5) BOR								Depth at which water was first found 103'
							mpleted Well 635	
Explosives	s used [Yes 🗸	∄ No Ty	vpe		A	mount	From To Estimated Flow Rate SWL
11	OLE			S	SEAL			(SEE ATTACHMEN T)
Diameter	From	To	Mater	rial	From	To	Sacks or pounds	
12"		1	ement		15'	117'	70 sacks	
		В	ent. Chi	ips	0	15'	10 sacks	
8"	117'	218' ce	ement			218'	18 sacks	
6"		635'						(12) WELL LOG:
How was s	L		Method		\	1B [Z C D C	Ground Elevation
Othe	,				- L	, - (• U · L	Ground Elevation
Backfill pl					n n	Mater	rial	Material From To SWL
-							of gravel	
Gravel pla			_ 11. 10_		11.	3126	n graver	(SEE ATTACHMENT)
(6) CAS								
	iameter	From		Gauge	1 _	Plasti	c Welded Thread	
Casing 8"		+ 1'	117'		V			
6"		+ 1.5'	218'	.250	V		\checkmark	
Liner:								
						П		
Final locat	tion of sh	noe(s)	-					
(7) PERI			CREE	NS:				
, ,	orations							
		Too	pe			M	nterial	RECEIVED
-		Slot				Tele/p	ipe	
From	To	size	Numbe	r Dia	meter	size	Casing Li	
						ļ		JUN 3 0 2004
								WATER RESOURCES DEPT
			-				📙 💆	SALEM OREGON
								<i>O/10-2-1</i>
	,							-
(8) WEL	LTES	TS: Mir	ıimum	testing	g time	is 1 ho	ur	Date started 12-13-03 Completed 1-15-04
							Flowing	(unbonded) Water Well Constructor Certification:
Pum	тр	Bai	iler	Γ	Air		✓ Artesian	I certify that the work I performed on the construction, alteration, or abandonmen
Yield g	•	<u> </u>	down		– Drill ste	os at	Time	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
250		flowing					l hr.	and belief.
					***			Signed $\frac{1523}{4111}$ Date $\frac{6/28}{6}$
								Signed 1/28/0 Date 6/28/0
Temperatu	ura of wa	ler 58 F		Dessil	Artosi	an Flow	Found 131'	(bonded) Water Well Constructor Certification:
•				Vac D	i mitesti u wkan	 പ്രവേഷ	er Associates	Laccent responsibility for the construction, alteration, or abandonment work
Was a wat	-							 I performed on this well during the construction dates reported above. All work
Did any st							Too little	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
Salty		dy ∐€	or [] Color	ed [Other		construction standards. This report is true to the best of my knowledge and benefit www. Number
Depth of s	strata:							- 1/1/2/
ORIGINA	AL& FI	RST CC	PY-WA	TER I	RESOU	JRCES	DEPARTMENT	SECOND COPY-CONSTRUCTOR THIRD COPY-CUSTOMER

MULT 72560 STATE OF OREGON (WELL I.D.)# L 68018 WATER SUPPLY WELL REPORT (as required by ORS 537.765) (START CARD) # 161699 Instructions for completing this report are on the last page of this form. Well Number PW-4 (9) LOCATION OF WELL by legal description: (1) OWNER: County Multnomah Latitude Longitude Name City of Portland Township 1 Range 5 WM Address 1120 SW 5th Ave Zip 97204 SE 1/4 SE 1/4 State OR Section 26 City Portland Subdivision Tax Lot 400 Block Lot (2) TYPE OF WORK Street Address of Well (or nearest address) at the foot of Bull Run Dam ✓ New Well ☐ Deepening ☐ Alteration (repair/recondition) ☐ Abandonment No.2 and above the headworks (3) DRILL METHOD: (10) STATIC WATER LEVEL: Rotary Air Rotary Mud Cable Other ft, below land surface. Artesian pressure 45' Date 1-15-04 (4) PROPOSED USE: lb. per square inch. Irrigation (11) WATER BEARING ZONES: Community Industrial Domestic [] Livestock Other test Injection Thermal Depth at which water was first found 103' (5) BORE HOLE CONSTRUCTION: Special Construction approval Yes V No Depth of Completed Well 635 ft SWL То **Estimated Flow Rate** Explosives used Yes No Type _ From (SEE ATTACHMEN T) SEAL HOLE Diameter From To Material From To Sacks or pounds 15' 117' 12" 117' 70 sacks Cement Bent. Chips 15' 10 sacks 8" 117' 218' cement 218' 18 sacks (12) WELL LOG: $\mathbf{Z}_{\mathbb{C}}$ How was seal placed: Method \ \ \ \ \ \ □ B \Box D Ground Elevation Other Bentonite poured dry To SWL From Material Material Backfill placed from ft. to ft. Size of gravel Gravel placed from ft. to (SEE ATTACHMENT) (6) CASING/LINER: Welded Threaded Diameter To Gauge Steel Plastic 117' Casing: 8" .250 + 1' 1 + 1.5 218' .250 Z \checkmark Liner Final location of shoe(s) (7) PERFORATIONS/SCREENS: Perforations Method Material

Screens Type Tele/pipe Slot Casing Liner From Number Diameter 1 1

(8) WELL TESTS: Minimum testing time is 1 hour

Salty Muddy Odor Colored Other

Depth of strata:

Pump	Bailer	Air	Flowing Artesian
Yield gal/min	Drawdown	Drill stem at	Time
250	flowing		l hr.
Temperature of v	vater 58 F	Depth Artesian Flow F	ound 131'
Was a water anal		Yes By whom Golder	
Did any strata co	_	table for intended use?	Too little

(unbonded) Water Well Constructor Certification:

9 2004

WATER RESOURCES DEPT SALEM, OREGON

Date started 12-13-03

I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Orgon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

WWC Number Date 3-31-04

(bonded) Water Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well

nstruct	ion standards.	This report is true to the t	sest of my knowledg	e and bener
	11		WWC Number _	146 <u>9 </u>
gned	1/-//	E-111E	Date	4/13/05

Completed 1-15-04

MULT 72560



Geo-Tech Explorations, Inc. 19700 SW Teton Tualatin, OR 97062

Ph: (503) 692-6400, Fax: (503) 692-4759

Well Name: PW-4

Start Card #:

161699

Label #: <u>L68017</u>

(11) Water Bearing Zones

Depth at which water was first found 103 ft.

From	To	Est. Flow Rate	SWL
103	106'	10-15gpm	
131'	165'	50 gpm	30 psi
177'	184'		30 psi
278'	283'		42 psi
324'	283'		42 psi
470'	478'	200 gpm total	

(12) Well Log

Material	From:	To:	
Pit run		0	3'
Boulders (+ 2 feet diameter)		3'	15'
Gravels and Brown silt		15'	96'
Blue and brown clay		96'	103'
gravels	103'	106'	
Medium basalt - dark gray		106'	131'
Fractured gray basalt	131'	165'	
Medium basalt - light to dark gray	165'	177'	
Claystone - blue gray / fractured	177'	184'	
Medium basalt - gray		184'	260'
Medium basalt - gray / fractured		260'	265'
Medium basalt - gray		265'	278'
Medium basalt - gray / fractured		278'	283'
Medium basalt - gray		283'	295'
Hard basalt - gray		295'	318'
Basalt - gray / red vesicular		318'	324'
Fractured basalt - gray / green	RECEIVED	324'	350'
Medium basalt - gray	North Land	350'	368'
micalalli basait - graj	APR 1 9 2004	1	ı

WATER RESOURCES DEPT SALEM, OREGON

MULT 72560

Basalt - gray / black (very hard)	368'	370'
Medium basalt - gray	370'	430'
Basalt - gray / black (hard)	430'	470'
Fractured basalt - gray / green (medium)	470'	478'
Medium basalt - gray	478'	565'
Basalt - gray with brown seams of siltstone	565'	567'
Vesicular basalt with blue streaks	567'	589'
Basalt - gray	589'	635'

RECEIVED

APR 1 9 2004

WATER RESOURCES DEPT SALEM, OREGON

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

(WELL I.D.)# L 68018 (START CARD) # 164463

	tions to	or comp	leting this re	port are	on th	ie last	page of this	torm.						
1) OWN	VER:				We	ll Num	ber PW-4		(9) LOCATION OF	WELL by	legal descrip	otion:		
Name City	of Po	rtland							County Clackam					
Address 1	120 SV	V 5th A	ve						Township 1	S	Range 5		E	WM.
ity Portl	and			State C	OR		Zip 9	7204	Section 26	SE	1/4 SE		1/4	
2) TYPI		VORK							Tax Lot 400	Lot	Block		Subdivision	
				ation (rep	air/re	conditi	on) [] Aban	donment	Street Address of We					Dam
3) DRII									No.2 and above t	he headwo	rks			
			ry Mud [∃Cable	Г	Auge	er		(10) STATIC WATE					
Other	7111	LITCH	iy irida _		L				ft. be				Date	
4) PRO	DACE	D LIGH							Artesian pressure 43			inch	Date 6/21/0	4
				□ In duate	امنا	ΠЭт	rrigation		(11) WATER BEAR			men.	Date 5,21,0	·
Domes			imunity [towns.	Other test		(II) WATER DEAR	100 2011	20.			
Therma		Language of		Livesto	ock	V	mer test		Danth at subjek suntan su	a finat found	103'			
			NSTRUC		~ .1	0.0	1 . 1337 11	600 0	Depth at which water wa	is first found	103			
							npleted Well		-	T	- T	F 41 4	151 D .	61777
		∐ Yes	No Typ			A	mount		From	040	To	Estimat	ed Flow Rate	SWL
ŧ1	HOLE			SEA	AL				635	643				70ps
Diameter	From	1	Materi	al Fr	om	To	Sacks or p	ounds						
6"	635	690								4				
	ļ	ļ												
·	ļ	<u> </u>								<u> </u>				
	L								(12) WELL LOG:					
How was	seal pla	iced:	Method	A		в []C	E	1 ` ′	d Elevation		·		
Otho	er											· · · · · · · · · · · · · · · · · · ·		,
Backfill p	laced fr	om	fl. to	ft	t.	Mater	ial		Mater			From	То	SWL
Bravel pla	aced fro	m	ft. to	ft	t.		f gravel		(reference original s	tart # - 161	699)			
6) CAS					,									
Đ	liameter	Fro	m To	Gauge Ste	eel	Plastic	Welded	Threaded						
Casing N.		1		· I		П	П	[7]	basalt (hard) - black	/ gray		635	643	70 psi
c asing							\Box		basalt (softer) - blac	k		643	645	·
									basalt (hard) - black			645	658	
					_				basalt (soft) - black		some white	658	665	
									quartz	D. O. W. 1	Joine Wille		1003	
liner:									basalt (soft) - black	w/ como w	hito quarte	665	672	
									chips (bigge		inte quartz	003	672	
Final loca			VOODEEN							··		070		
′			S/SCREEN						Basalt (hard) - black			672	690	
	foration		Method											
Scr	eens	Slo	Туре			Ma Tele/pi	terial					-		
From	To	size	t Number	Diamet	ter	size	pe Casing	Liner	RECE	IVE)			
NA									S AL MARIN COP ELA					
							🗆			- 2001				
1									AUI:	<u>3 2004 </u>				
		1							WATER RESC					
and Marketine at the same and									SALEM	OREGON				
						s 1 ho	ur		Date started 5/17/04		Comple	ted 5/28	/04	
8) WE1	LTE!	STS: N	Linimum t	esting ti	ıme ı				(unbonded) Water Wel	1.61				
8) WE1	L TES	STS: N	Iinimum t	esting ti	ıme ı			uine	(unbunucu) water wer	i Constructo	er Certificatio	n:		
			Ainimum t Bailer					wing esian	1 '				eration, or abs	andonmen
Pun	np		Bailer	A	Air		Flov Arte	esian	1 '				eration, or aba	indonment andards
	np	D	Bailer rawdown	A			Flov Arte	esian Time	I certify that the worl of this well is in complia Materials used and info				eration, or aba construction st best of my ki	indonment tandards. nowledge
Pun Yield g	np		Bailer rawdown	A	Air		Flov Arte	esian	1 '			uction, altoply well of true to the		andonmen tandards nowledge
Pun Yield g	np	D	Bailer rawdown	A	Air		Flov Arte	esian Time	I certify that the worl of this well is in complia Materials used add infol and belief.			uction, altoply well of true to the	umber 1523	
Pun Yield g 250	np gal/min	Diflowir	Bailer rawdown 1g	A Dril	Air III sten	ı at	Flov Arte	esian Time 1 hr.	I certify that the worl of this well is in complia Materials used and infol and belief. Signed	I performed ance with offer mation regor	on the construegen water sup told above are	uction, altoply well of true to the		andonmen tandards. nowledge
Pun Yield g 250 Temperati	np gal/min ure of w	flowir	Bailer rawdown Ig	Depth Ar	Air III sten	at n Flow	Flov Arte	esian Time 1 hr.	I certify that the worl of this well is in complia Materials used and information and belief. Signed Water Well (c I performed ance with Green mation reformation refor	on the construction water sup ted above are to Certification:	uction, alt ply well of true to the WWC N	umber 1523 Date	3-09-
Yield g 250 Temperati Was a wal	np gal/min ure of w	flowir svater 58	Bailer rawdown ng F	Depth Ar	Air III stem rtesiar	ı at ı Flow	Flow Arter	Time L hr.	I certify that the worl of this well is in complia Materials used and infol and belief. Signed (bonded) Water Well (I accept responsibility)	c I performed ince with the mation region constructor of the construct	on the construction water sup- ted above are to Certification:	wetion, altoply well curve to the WWC N	umber 1523 Date	<i>?09-</i> vork
Pun Yield g 250 Temperati Was a wal	np gal/min ure of w ter analy	Di flowir water 58 ysis don ntain wa	Bailer rawdown ng F c?	Depth Ar	Air ill sten rtesiar vhom	n Flow	Found	Time L hr.	I certify that the worl of this well is in complia Materials used and information of the second of t	cal performed ince with offer mation report mation report constructor of the configuring the configuration and the configu	on the construction alternature to the construction date of the constru	uction, altoply well of true to the WWC N ation, or a fregor ted regon wat	Date 1523 Date 0	2
Pun Yield g 250 Temperati Was a wal	np gal/min ure of w ter analy	Di flowir water 58 ysis don ntain wa	Bailer rawdown ng F	Depth Ar	Air ill sten rtesiar vhom	n Flow	Found	Time L hr.	I certify that the worl of this well is in complia Materials used and information of the second of t	cal performed ince with offer mation report mation report constructor of the configuring the configuration and the configu	on the construction alternature to the construction date of the constru	wetion, altoply well of true to the WWC N ation, or a fregor wat st of my k	bandonment vabove. All wer supply wel nowledge and	2-09- work vork 1
Pun Yield g 250 Temperati Was a wal	np ure of w ter analy trata col	Di flowir water 58 ysis don ntain wa	Bailer rawdown ng F c?	Depth Ar	Air ill sten rtesiar vhom	n Flow	Found	Time L hr.	I certify that the worl of this well is in complia Materials used and information of the second of t	cal performed ince with offer mation report mation report constructor of the configuring the configuration and the configu	on the construction alternature to the construction date of the constru	wetion, altoply well of true to the WWC N ation, or a fregor wat st of my k	Date 1523 Date 0	vork vork l l belief.