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

MULT 132797

WELL I.D. LABEL# L

Page 1 of 3

L1 132191	START CARD #	1042794	
/20/2019	ORIGINAL LOG#	MULTNOMAH	802

(1) LAND OWNER Owner Well I.D. MULT 802		
First Name Last Name	(9) LOCATION OF WELL (legal description)	
Company NW NATURAL	County MULTNOMAH Twp 1.00 N N/S Range 1.00 V	
Address (MULT 802), 7540 NW ST HELENS RD, P City PORTLAND State OR Zip 97209	Sec <u>12</u> <u>SW</u> <u>1/4 of the SW</u> <u>1/4 Tax Lot <u>100</u></u>)
City PORTLAND State OR Zip 97209 2) TVPF OF WORK New Well Deepening Conversion	Tax Map Number Lot	
2) 111E OF WORK 1	Tax Map Number Lot Lat or Long or	DMS or DD
Alteration (complete 2a & 10) X Abandonment(complete 5a) PRE-ALTERATION	Long or or	DMS or DD
Dia + From To Gauge Stl Plstc Wld Thrd	Street address of well Nearest address	_
Casing: 12 0 63 .250 Image: Comparison of the co	7540 NW ST HELENS RD, PORTLAND, OR 97210	
Seal: Concrete 0 1 4 Sacks	(10) 67 1 77 6 77 1 77 7	<u>-</u>
3) DRILL METHOD	(10) STATIC WATER LEVEL	GTT (0)
Rotary Air Rotary Mud Cable Auger Cable Mud	Date SWL(psi) + Existing Well / Pre-Alteration 8/13/2019	SWL(ft)
Reverse Rotary X Other PERF & GROUT / SONIC	Completed Well	10
4) PROPOSED USE Domestic Irrigation Community	Flowing Artesian? Dry Hole?	
X Industrial / Commercial Livestock Dewatering		
	WATER BEARING ZONES Depth water was first found _	
ThermalInjectionOther	SWL Date From To Est Flow SWL(psi)	+ SWL(ft)
(Attach copy) Special Standard (Attach copy)		
Depth of Completed Well 382.00 ft.		
BORE HOLE SEAL sacks/		
Dia From To Material From To Amt 1bs		
12 0 63 Concrete 0 1 4 S		
10 63 382 Calculated 3		
Bentonite Chips 1 10 9 S	(11) WELL LOG Ground Flavation	
Calculated 10	Glound Elevation	
How was seal placed: Method A B C D E	Material From	To
X Other TREMIE PIPE	Concrete 0	1
Backfill placed from10 ft. to382 ft. Material ORGANO CLAY / B	Perf & Bent Chip - Mills Knife 1	10
Filter pack from ft. to ft. Material Size	Perf & Organo Clay Grout - Mills Knife 10	63
Explosives used: Yes Type Amount	Organo Clay Grout 63	382
5a) ABANDONMENT USING UNHYDRATED BENTONITE		
•		
6) CASING/LINER		
Casing Liner Dia + From To Gauge Stl Plstc Wld Thrd		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		
● 8 □ 243 382 .25 ● X □		
Shoe Inside Outside Other Location of shoe(s)		
<u> </u>		
Temp casing Yes Dia From + To To		
7) PERFORATIONS/SCREENS		
Perforations Method Mills Knife		
Screens Type 8" Perforated Material Steel	Date Started 5/13/2019 Completed 8/22/2019	
Perf/ Casing/ Screen Scrn/slot Slot # of Tele/	(unbonded) Water Well Constructor Certification	
Screen Liner Dia From To width length slots pipe size	I certify that the work I performed on the construction, deepenin	na alteration or
Perf Casing 12 0 63 .125 5 252 Screen Casing 8 243 382 .25	abandonment of this well is in compliance with Oregon wat	
Screen Casing 8 243 362 .23	construction standards. Materials used and information reported a	
	the best of my knowledge and belief.	
	License Number 2022 Date 9/5/2019	
8) WELL TESTS: Minimum testing time is 1 hour	7/3/2017	
	Signed STEVE VIBBARD (E-filed)	
Pump Bailer Air Flowing Artesian		
Yield gal/min Drawdown Drill stem/Pump depth Duration (hr)	(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	
	performed during this time is in compliance with Oregon was	
Temperature 54 °F Lab analysis Yes By	construction standards. This report is true to the best of my knowled	uge and benef.
Water quality concerns? Yes (describe below) TDS amount 125 ppm From To Description Amount Units	License Number 1786 Date 9/20/2019	
From To Description Amount Units	Signed reasons and a contract of	
	Signed JOSEPH STALOCH (E-filed)	
	Contact Info (optional) Cascade Drilling 110-19-1048	
	Top a part (E) ye	

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9/20/2019

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(2a) PRE-ALTERATION

Dia	+	From	To	Gauge	Stl	Plstc	Wld T	`hrd
					\bigcap			
					\bigcirc			
	Ш				\bigcirc		\sqcup L	
Mat	erial		From	To	O A	Amt s	acks/lbs	
Bentonite (Chips		1	10	0	9	Sacks	
Other			10	38	32	89	Sacks	
			П					

(5) BORE HOLE CONSTRUCTION

В	ORE HO	LE		SEAL			sacks/
Dia	From	То	Material	From	То	Amt	lbs
			Other	10	382	89	S
				(Calculated	62	
				(Calculated		
					Calculated		
				(Calculated		Τ.
			_				_

FILTER PACK

To Material Size

From	То	Material	Size

(6) CASING/LINER

Casing Liner Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd

(7) PERFORATIONS/SCREENS

	Casing/ Liner		Б	Tr-	Scrn/slot	Slot	# of slots	Tele/ pipe size
Screen	Liner	Dia	From	То	width	length	SIOLS	pipe size

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

Yieid gai/min	Drawdown	Drawdown Drill stem/Pump depth			

		~
Water	Onality	Concerns

From	10	Description Amount		Omis

(10) STATIC WATER LEVEL

SWL Date	From	To	Est Flow	SWL(psi)	+	SWL(ft)
					L	
					L	
					\vdash	
					\vdash	1
					\vdash	
					Г	

(11) WELL LOG

Material	From	То
		_
		_

Comments/Remarks

Perf and grout 382 ft Industrial Water Well as per Final Order. Upper Steel casing 0 - 63 ft perforated. Screen removed from bottom of well 243 to 382 feet. Organo-Clay grout was used as per OWRD Final Order from 10 - 382 feet. 8 sacks of organo clay were used with 81 sacks of bentonite grout to make the Organo-Clay seal.

WATER SUPPLY WELL REPORT - Map with location identified must be attached and shall include an approximate scale and north arrow

MULT 132797

9/20/2019

Map of Hole



Notes: Base Map from Google Earth Imagery Date: 5/22/2017 OU = Operable Unit



0 1000 2000 4000 1"=2000' Scale in Feet

FIGURE 1 Location Map

7540 NW St Helens Rd, Portland, OR 97210 Water Supply Well Decommissioning NW Natural Gasco Site Portland, Oregon