MORR 52283

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

WELL I.D. LABEL# L	116902
START CARD #	1024838
ORIGINAL LOG #	

(1) LAND OWNER Owner Well I.D.	
First Name FRANK Last Name ILLE	(9) LOCATION OF WELL (legal description)
Company LOVE'S TRAVEL STOP & COUNTRY STORES, LLC	County MORROW Twp 4 N N/S Range 24 E E/W WM
Address 10601 PENNSYLVANIA AVE	Sec 15 NE 1/4 of the SE 1/4 Tax Lot 134
City OKLAHOMA CITY State OK Zip 73120	Tax Map Number Lot
(2) TYPE OF WORK New Well Deepening Conversion	Tax Map Number Lot Lat " or DMS or DD
Alteration (complete 2a & 10) Abandonment(complete 5a)	Lat ' ' or DMS or DD Long ' " or DMS or DD Cong the street address of well Congress address address of well Congress address
(2a) PRE-ALTERATION Dia + From To Gauge Stl Plstc Wld Thrd	Street address of well Nearest address
Casing:	
Material From To Amt sacks/lbs	78665 TOWER ROAD, BOARDMAN, OR 97818
Seal:	
(3) DRILL METHOD	(10) STATIC WATER LEVEL
Rotary Air Rotary Mud Cable Auger Cable Mud	Date SWL(psi) + SWL(ft) Existing Well / Pre-Alteration
Reverse RotaryOther	Completed Well 07-23-2015 39
(4) PROPOSED USE Domestic Irrigation Community	Flowing Artesian? Dry Hole?
Industrial/Commercial Livestock Dewatering	WATER BEARING ZONES Depth water was first found 89
Thermal Injection Other	
(5) BORE HOLE CONSTRUCTION Special Standard (Attach copy)	
Depth of Completed Well 945 ft.	12-03-2014 138 153 5 1 X 2
BORE HOLE SEAL sacks/ Dia From To Material From To Amt Ibs	01-05-2015 338 460 150 50
Dia From To Material From To Amt lbs 16 0 19 Cement 2 19 9 S	02-09-2015 465 474 800 75
12 19 500 Calculated 8	03-09-2015 517 521 1,400 75
10 496 936 Bentonite Chips 0 2 2	(1) WELL LOC
8 905 945 Calculated 1.5	(11) WELL LOG Ground Elevation
How was seal placed: Method A B XC XD E	Material From To
X Other POURED CHIPS	ATTACHED FORMATION PROFILE
Backfill placed from ft. to ft. Material	ATTACHED FORMATION PROFILE
Filter pack from ft. to ft. Material Size	
Explosives used: Yes Type Amount	
(5a) ABANDONMENT USING UNHYDRATED BENTONITE	
Proposed Amount Pounds Actual Amount Pounds	
(6) CASING/LINER_	RECEIVED BY OWRD
Casing Liner Dia + From To Gauge Stl Plstc Wld Thrd	
	1110 0 (0017
● 12 10 X 1 1 496 250 X 2 905 250 X 2	AUG 2 6 2015
	SALEM, OR
Shoe Inside Outside Other Location of shoe(s)	
Temp casing Yes Dia From To	
(7) PERFORATIONS/SCREENS	
Perforations Method	
Screens Type Material	Date Started 11-24-2014 Completed 07-23-2015
Perf/S Casing/ Screen Scrn/slot Slot # of Tele/ creen Liner Dia From To width length slots pipe size	(unbonded) Water Well Constructor Certification
etech Emel Dia 110m 10 Wighti Ichighi 310ts pipe 3120	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.
	License Number Date
(8) WELL TESTS: Minimum testing time is 1 hour	Signed
Pump Bailer • Air Flowing Artesian	
Yield gal/min Drawdown Drill stem/Pump depth Duration (hr)	(bonded) Water Well Constructor Certification
1,644 835 1	I accept responsibility for the construction, deepening, alteration, or abandonment
1,372 710 I 1,300 270 I	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 construction standards. This report is true to the best of my knowledge and belief.
Temperature 76 °F Lab analysis X Yes By TABLE ROCK ANALYTIC	
Water quality concerns? Yes (describe below) TDS amount 231 ppm From To Description Amount Units	License Number 1881 Date 08-18-2015
	Signed Lamorallina
	Contact Info (optional)

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WATER SUPPLY WELL REPORT - continuation page

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WELL I.D. LABEL# L	116902		
START CARD#	1024838		
ORIGINAL LOG #			•

	ORIGINAL LUG #	
2a) PRE-ALTERATION	Water Quality Concerns	
Dia + From To Gauge Stl Plste Wld Thrd		unt Units
	Tom 10 Beautiption	
		-
Material From To Amt sacks/lbs		-
170 II		
		-+-
DODE HOLE CONCEDICTION	(10) STATIC WATER LEVEL	
5) BORE HOLE CONSTRUCTION	SWL Date From To Est Flow SWL(psi)	+ SWL(ft)
BORE HOLE SEAL sacks/	03-20-2015 520 540 1,000	76
Dia From To Material From To Amt lbs	03-26-2015 546 555 2,500	75
	04-14-2015 587 595 1,000	75
Calculated 132	05-08-2015 618 625 5,000	90
Cement 0 910 490 ° S	06-18-2015 929 945 5,000	39
Calculated 209		!
		i
Calculated		l [
Calculated		l
		; <u> </u>
FILTER PACK	(11) WELL LOG	
From To Material Size		_
	Material From	To
	THE COURT HOND LAND AND COURT IN	_
	ATTACHED FORMATION PROFILE	
CASING/LINER		
) CASING/BINER		
Casing Liner Dia + From To Gauge Stl Plstc Wld Thrd		
	WOMBD	
	RECEIVED BY OWRD	
		_
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	AUG 2 0 7013	_
	SALEM, OR	
	SALEWI, OH	
7) PERFORATIONS/SCREENS		
) PERFORATIONS/SCREENS		
Perf/S Casing/ Screen Scrn/slot Slot # of Tele/		— ——
creen Liner Dia From To width length slots pipe size	1	_
 		
	1	
	1	
]	
	- 	
] Comments/Remarks	
	CEMENT CHOIT WAS BUILDED TO SEAT OFF WATER D	EADBIO
(8) WELL TESTS: Minimum testing time is 1 hour	CEMENT GROUT WAS PUMPED TO SEAL OFF WATER B	
Yield gal/min Drawdown Drill stem/Pump depth Duration (hr)	FORMATIONS, THEN BOREHOLE RE-DRILLED TO TARG	ILI CABINU
Data to the second and second and second (iii)	METHOD "D" USED TO SEAL 10IN CASING AND 8IN CAS	SING
	I STATE OF THE PROPERTY OF THE	
1 1 1 1	11	

LOVE'S TRAVEL STOP, BOARDMAN, OR

WELL LABEL - 116902 PERMIT - G-17263 11-24-2014 to 7-23-2015			12" casing	8" casing +2 to 905ft, se
depth	interval	formation		
0-3 ft 3-7 ft	3' 4'	soil, sand, small gravels soft weathered basalt		16' open hole 0-19ft
7-25 ft	18'	solid black basalt		12"casing set from + 1.
25-27 ft	2'	brown basalt		
27-89 ft	62'	black basalt		
89-105 ft	16'	brown soft basalt		sign of water- not enou
105-113 ft 113-138 ft	8' 25'	black basalt with green claystone brown baasalt with brown claystone		
138-153 ft	15'	brown basalt with green claytsone		water- flowing about 5
153-240 ft	87'	black basait		pressure cemented gro
240-245 ft	5'	black basalt with green claystone		
245-290 ft	45'	black basalt		
290-305 ft	15'	black basalt with grey claystone		1
305-338 ft	33'	green claystone with some bl basalt green claystone-caving area- drill string		
338-460 ft	122'	stuck - hole filled form 150' to bottom-		water- 50 ft SWL estima
330-40010	466	switched over to mud rotary drilling		Water- 30 It 344 L estille
460-465 ft	5'	green, dark brown, grey claystone		pressure cemented gro
465-474 ft	9'	broken black basalt		water- 75 ft SWL estima
474-500 ft	26'	black basalt		Ran 10in casing to 496
500-517 ft	17'	black basalt		10 in open hole drilling
517-521 ft	4'	black scoria basalt	A CONTRACTOR OF THE PARTY OF TH	water- 75 ft SWL estima
521-525 ft	4'	black basalt w/trace visicular		
525-540 ft	15'	black basit w/ white granite?/visicular		water - 76 ft SWL est. 1
540-546 ft	6'	broken black basalt w/some visicular		
546-555 ft	9'	broken black basalt w/visicular		water - 75 ft SWL est. 2
555-566ft	11'	black basalt		pressure cemented wat
566-583ft	17'	black basalt		
583-587ft 587-595ft	4' 8'	black basalt visicular, some brown basalt black basalt-broken, hard drilling		water - 75 ft SWL est. 1
595-613ft	18'	black basalt- visicular		
613-618ft	5'	drill string fell and no returns		
618-625ft	7'	broken black visicular basalt w/blue claystone		water - 90 ft SWL est. 5
625-636ft	11'	bik basalt, blue basalt, dk green basalt		
636-650ft	14'	black basalt w/ green claystone		
650-669ft	19'	green claystone / black basalt		pressure cemented wat
669-683ft	14'	green claystone - soft and caving some		est. 50gpm still leaking
683-690ft	7'	green claystone w/black basalt		
690-697ft	7'	black basalt - hard		SWL 91ft
697-720ft	23'	green claystone + black basalt		
720-760ft	40'	black basalt w/ green claystone		
760-773ft	13'	green claystone w/black basalt		
773-779ft	6'	black basalt w/blue+green claystone, soft		
		g , , ,		
779-869ft	90'	green claystone w/black basalt		
869-883ft	14'	black basalt w/green claystone		rough drilling-cutting re
883-899ft	6'	black basalt w/green claystone, hard		returns good
899-929ft	30'	black basalt w/green claystone, hard		Last foot-new water-41 with OWRO, gave the o
				Halliburton style pumpe
929-930ft	1'	black basalt w/visicular - water bearing		in and drilled through c
930-936ft	6'	black and blue visicular basalt,		Extreme amount of wat
936-945ft	9'	broken black visicular basalt, soft		Returns coming out in I

ZOLLMAN'S LARRY BURD WELL DRILLING, LLC LICENSE 1881

RECEIVED BY OWRD

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SALEM, OR

				CONTRACTOR DESCRIPTION OF THE PARTY OF THE P
casing ±2 l	NA DOSER	cooled bat	tom to ton su/	cement grout

.5ft to 18.5ft, cemented seal, continued drilling 12" open hole

ugh to measure

5 GPM with estimated 1-2psi pressure

nated 150 GPM

out to stop water nated 800 gpm

pressure cemented grout to stop water

ft - Halliburton pressure cemented grout seal- bottom to surface

nated over 1400 gpm

pressure cemented grout to stop water

1000gpm+, pressure cemented water zone and redrilled

2500gpm+, watered out hammer/w/aux air, tripped in roller bit ater zone and redrilled hole w/hammer and aux air

1000gpm+, watered out hammer, added air booster

5000gpm

ater zone and redrilled hole w/ roller bit

g in hole after cementing. Left to help keep claystone moist

return volumn low

SWL, est 1000gpm. Discussed well depth and formation k to seal casing in this formation. Ran 8in casing to 905', ed grout bottom to ground surface, 20 yards. Tripped bac

ater, measured flow in dug canal. Est over 5000gpm Returns coming out in large pieces, stopped drilling, developed well with air lift

41 ft SWL after 24 hours 39 ft SWL after 60 hours

Took water samples for lab