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STATE OF OREGON JAN 24 2001

WATER SUPPLY WELL REPORT

WELL I.D. # L 45724

START CARD # 137390

(as required by ORS 537.765)

WATER RESOURCES DEPT.

Instructions for completing this **SHERMAN, OREGON** page of this form.

(1) **LAND OWNER** Well Number _____
 Name CITY OF RUFUS C/O MORSE CONSTRUCTION GRP.
 Address 5500 SOUTH FIRST AVENUE
 City EVERETT State WA Zip 98203

(2) **TYPE OF WORK**
 New Well Deepening Alteration (repair/recondition) Abandonment

(3) **DRILL METHOD:**
 Rotary Air Rotary Mud Cable Auger
 Other _____

(4) **PROPOSED USE:**
 Domestic Community Industrial Irrigation
 Thermal Injection Livestock Other _____

(5) **BORE HOLE CONSTRUCTION:**
 Special Construction approval Yes No Depth of Completed Well 459 ft.
 Explosives used Yes No Type _____ Amount _____

HOLE			SEAL			
Diameter	From	To	Material	From	To	Sacks or pounds
24"	0	5	Cem/Bent	0	5	5 sks+gel
19"	5	52	Cem/Bent	0	52	190 sks+gel
15"	52	194	Cem/Bent	0	194	90 sks+gel
12"	194	459				

How was seal placed: Method A B C D E
 Other _____

Backfill placed from _____ ft. to _____ ft. Material _____
 Gravel placed from _____ ft. to _____ ft. Size of gravel _____

(6) **CASING/LINER:**

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	20"	0	5	250	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	16"	+1 1/2	51 1/2	250	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	12"	0	194	250	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liner:	10"	182	442	250	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		452	459	250	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Drive Shoe used Inside Outside None
 Final location of shoe(s) _____

(7) **PERFORATIONS/SCREENS:**

Perforations Method Johnson Screen
 Screens Type Pipe size Material Stainless Steel

From	To	Slot size	Number	Diameter	Tele/pipe size	Steel Casing	Liner
442	457	.050		10"	pipe	<input type="checkbox"/>	<input checked="" type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>

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

Yield gal/min	Drawdown	Drill stem at	Flowing Time
<input checked="" type="checkbox"/> Pump <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Air <input type="checkbox"/> Artesian			
450 (air)		459	1 hr.
100	11 ft.		1 hr.
200	40 ft.		24 hrs.

Temperature of water 68°F Depth Artesian Flow Found _____
 Was a water analysis done? Yes By whom AMJ & LAB
 Did any strata contain water not suitable for intended use? Too little
 Salty Muddy Odor Colored Other _____
 Depth of strata: _____

(9) **LOCATION OF WELL by legal description:**
 County SHERMAN Latitude _____ Longitude _____
 Township 2N N or S Range 17E E or W. WM. _____
 Section 6 NW 1/4 NE 1/4 _____
 Parcel # 2 Lot _____ Block _____ Subdivision _____
 Street Address of Well (or nearest address) 101 CHINA HOLLOW RD. MORO, OR

(10) **STATIC WATER LEVEL:**
205 ft. below land surface. Date 01/11/01
 Artesian pressure _____ lb. per square inch Date _____

(11) **WATER BEARING ZONES:**

Depth at which water was first found 220/335

From	To	Estimated Flow Rate	SWL
220	335	Trace	205
335	372	150 gpm	205
435	459	300 gpm	205

(12) **WELL LOG:**
 Ground Elevation _____

Material	From	To	SWL
Basalt blocks, boulders, occ. granite boulders with brown clay/claystone, silty	0	35	
Black&brn. basalt, broken caving	35	55	
Brown, gray-brown&black basalt, dirty, occ. gravel, cemented occ. clay seams	55	108	
Gray-brn clay/claystone	108	125	
Brn. basalt, weath, occ. gray-brown	125	166	
Brown basalt, firm, frac.	166	180	
Gray-black basalt, occ. gray-brown, hard, very hard (occ. columbar)	180	326	205
Gray-blk. basalt, brkn. strk	326	328	205
Gray-black basalt, hard	328	335	205
Black&gray-blk, basalt, lava, brkn, strks.	335	372	205

Date started 12/04/00 Completed 01/19/01

(unbonded) **Water Well Constructor Certification:**
 I certify that the work I performed on the construction, 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.
 Signed _____ WWC Number _____ Date _____

(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 construction standards. This report is true to the best of my knowledge and belief.
 Signed [Signature] WWC Number 573 Date 01/22/01

STATE OF OREGON

JAN 24 2001

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(as required by ORS 537.765) WATER RESOURCES DEPT.

WELL I.D. # L 45724

START CARD # 137390

Instructions for completing this report are on the reverse side of this form.

(1) LAND OWNER: Well Number, Name CITY OF RUFUS C/O MORSE CONSTRUCTION GRP, Address 5500 SOUTH FIRST AVENUE, City EVERETT State WA Zip 98203

(2) TYPE OF WORK: [X] New Well [] Deepening [] Alteration (repair/recondition) [] Abandonment

(3) DRILL METHOD: [X] Rotary Air [] Rotary Mud [] Cable [] Auger [] Other

(4) PROPOSED USE: [] Domestic [X] Community [] Industrial [] Irrigation [] Thermal [] Injection [] Livestock [] Other

(5) BORE HOLE CONSTRUCTION: Special Construction approval [] Yes [X] No Depth of Completed Well 459 ft. Explosives used [] Yes [X] No Type Amount

Table with columns: HOLE Diameter, From, To, Material, SEAL From, To, Sacks or pounds

How was seal placed: Method [] A [] B [] C [] D [] E [] Other

Backfill placed from ft. to ft. Material Gravel placed from ft. to ft. Size of gravel

(6) CASING/LINER: Table with columns: Diameter, From, To, Gauge, Steel, Plastic, Welded, Threaded

Drive Shoe used [] Inside [] Outside [] None Final location of shoe(s)

(7) PERFORATIONS/SCREENS: Table with columns: From, To, Slot size, Number, Diameter, Tele/pipe size, Casing, Liner

(8) WELL TESTS: Minimum testing time is 1 hour. Table with columns: Yield gal/min, Drawdown, Drill stem at, Time

Temperature of water, Depth Artesian Flow Found, Was a water analysis done?, Did any strata contain water not suitable for intended use?, Depth of strata:

(9) LOCATION OF WELL by legal description: County SHERMAN Latitude Longitude Township 2N N or S Range 17E E or W. WM. Section 6 NW 1/4 NE 1/4 Tax Lot Parcel Lot Block Subdivision Street Address of Well (or nearest address) 101 CHINA HOLLOW MORO, OR

(10) STATIC WATER LEVEL: 205 ft. below land surface. Date 01/11/01 Artesian pressure lb. per square inch Date

(11) WATER BEARING ZONES: Table with columns: From, To, Estimated Flow Rate, SWL

(12) WELL LOG: Ground Elevation

Table with columns: Material, From, To, SWL. Entries include Gray-black basalt, hard, fract. (columnar), Black basalt & lava, brkn, Gray-black basalt, occ. hard, fract., occ. broken, mineral seams

Date started 12/04/00 Completed 01/19/01

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