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OCT 22 1990

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

WATER RESOURCES DEPT (START CARD) # 19840
SALEM, OREGON

(1) OWNER: Well Number: _____
Name City of Helix
Address PO Box 325
City Helix State OR Zip 97835

(2) TYPE OF WORK:
 New Well Deepen Recondition Abandon

(3) DRILL METHOD
 Rotary Air Rotary Mud Cable
 Other Pump Hoist

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

(5) BORE HOLE CONSTRUCTION:
Special Construction approval Yes No Depth of Completed Well 1296 ft.
Explosives used Yes No Type _____ Amount _____

Diameter	HOLE		Material	SEAL		Amount sacks or pounds
	From	To		From	To	
			Unchanged	4	496	

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 _____

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
	Casing:	12"	4	800	.375	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Pitless Unit	+1.8	4		.375	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liner:	8"	790	1296	.322	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Final location of shoe(s) _____

(7) PERFORATIONS/SCREENS:
 Perforations Method _____
 Screens Type _____ Material _____

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
Not Changed							

(8) WELL TESTS: Minimum testing time is 1 hour
 Pump Bailer Air Flowing Artesian
Yield gal/min _____ Drawdown _____ Drill stem at _____ Time 1 hr.

Temperature of water _____ Depth Artesian Flow Found _____
Was a water analysis done? Yes By whom _____
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 Umatilla Latitude _____ Longitude _____
Township 4N N or S, Range 33E E or W, WM.
Section 2 NE $\frac{1}{4}$ SW $\frac{1}{4}$
Tax Lot _____ Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) _____

(10) STATIC WATER LEVEL:
290 ft. below land surface. Date 9/6/90
Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:

Depth at which water was first found _____

From	To	Estimated Flow Rate	SWL

(12) WELL LOG: Ground elevation _____

Material	From	To	SWL
Casing modification to existing well completed 11/14/89; copy of original well log attached. Modification consisted of cutting off 6 feet of 12" casing and welding on a MAASS 12 X 6 pitless unit.			
See attached for dimensions on pitless unit.			

Date started 9/4/90 Completed 9/19/90

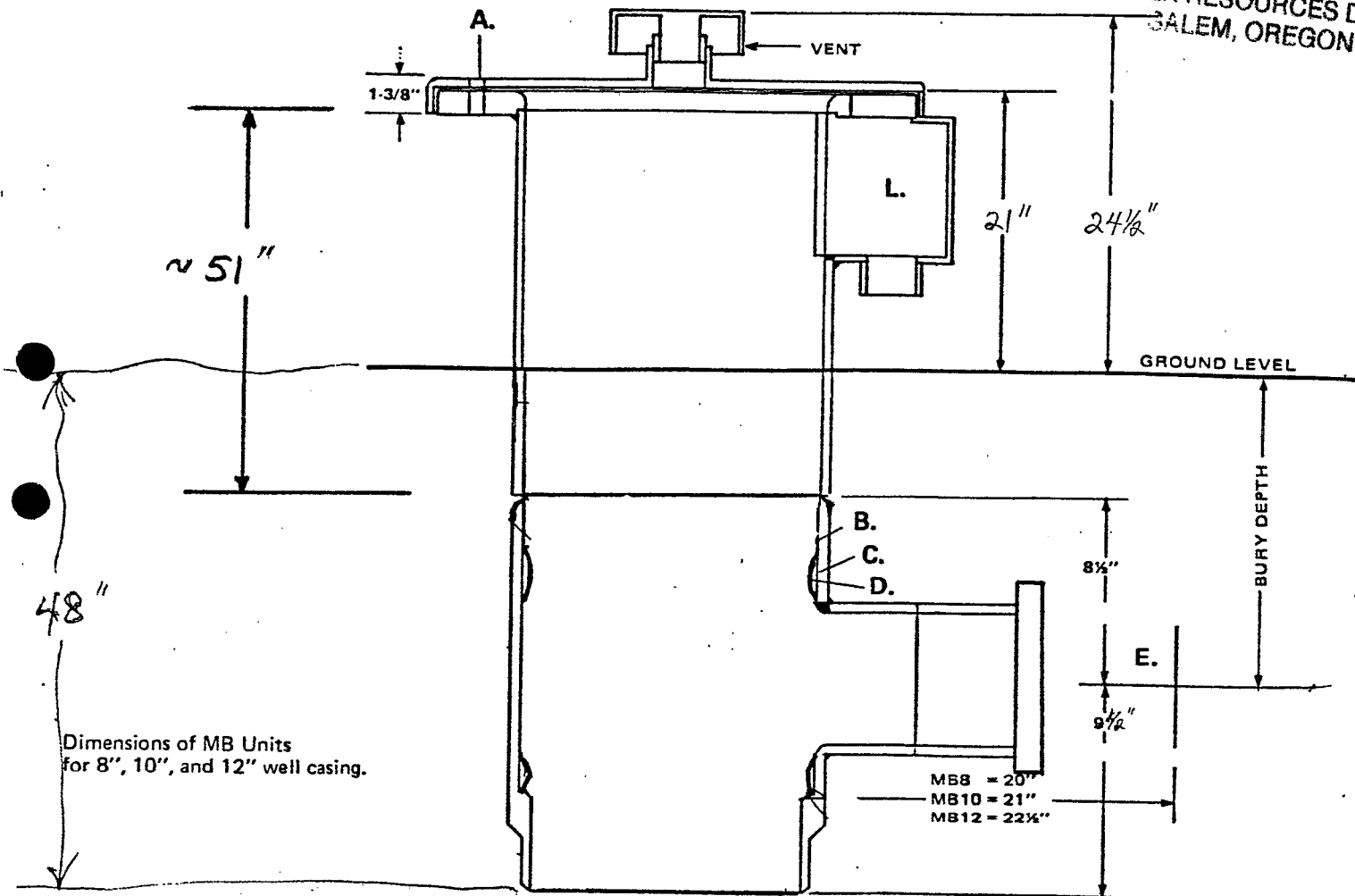
(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.
Signed _____ 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 well construction standards. This report is true to the best of my knowledge and belief.
Signed Thomas G. Schwenk WWC Number 673 Date 10/19/90

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SALEM, OREGON



Dimensions of MB Units
for 8", 10", and 12" well casing.

- A. Watertight, steel well cap illustrated. MB8, 16 1/2" cap dia.; MB10, 19 1/2" cap dia; MB12, 21 1/2" cap dia. Caps have six 11/16" holes in cap with 5/8" bolts and 1/8" neoprene gaskets. Air vent with screen. 2" NPT Coupling in center of cap.
MB8 and MB10 available with cast aluminum well cap. See MB8 Standard diagram.
- B. Centering blocks (4) 90° apart.
- C. 304 Stainless Steel O-Ring Seats.
- D. O-Rings, Buna N, 3/8" cross section.
- E. Discharge schedule 80 pipe, can be provided with transition sleeve, threaded or flanged ends.

- F. Spool pipe is sch. 80. Available threaded NPT or API-short or long thread.
- G. Male thread for lift pipes same size as drop pipe for equal strength.
- H. Butt weld casing end illustrated. Optional male or female threaded casing attachment available.
- I. Housing is 1/2" Wall.
- J. Two wire access holes 180° apart. Sealed wire connections available.
- K. Upper casing barrel can be provided by installer or factory.
- L. Electrical junction box, 5 1/2"W, 5 1/2"D, 8"H, 2" NPT Cplg. Spool discharge openings 100% or greater than spool pipe used.

Nominal Well Casing Size	8"	10"	12"	16"	20"
Spool Housing	10 1/2" O.D. x 1/2" Wall	12 1/2" O.D. x 1/2" Wall	14" O.D. x 1/2" Wall	18" O.D. x 1/2" Wall	22" O.D. x 1/2" Wall
Upper Casing Barrel	10 1/2" O.D. x 3/8" Wall	12 1/2" O.D. x 3/8" Wall	14" O.D. x 3/8" Wall	18" O.D. x 3/8" Wall	22" O.D. x 3/8" Wall
Standard Discharge & Spool Type Sizes	4"	6"	6"	8"	10"
Optional Sizes	2", 3", 5"	4", 5", 7"	4", 5", 7"	5", 6", 7"	6", 7", 8", 12"

- Material — Steel Housing and spool with 304 S.S. O-Ring Seats.
- Pitless Unit coated with epoxy (FDA approved for potable water).

Other Model MB specifications upon request.