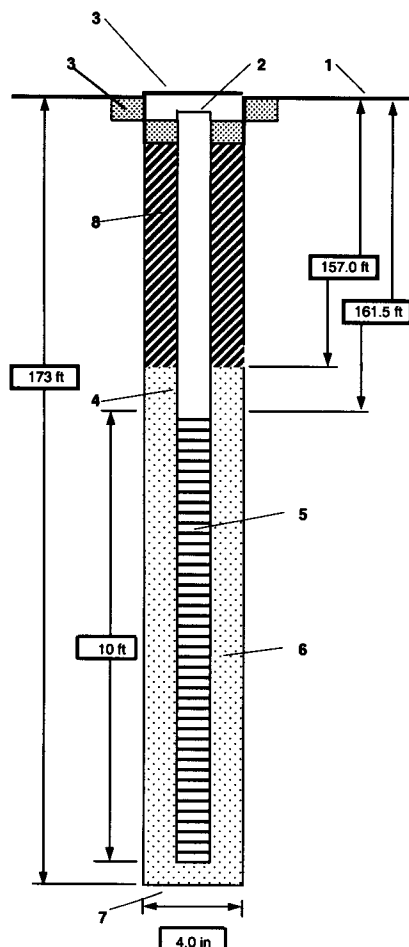




PROJECT NUMBER 113630.01.ZZ	WELL NUMBER MW-43	SHEET 1 OF 1
WELL COMPLETION DIAGRAM		

PROJECT : DDMT October 1998 Well Installation LOCATION : Memphis, TN
 DRILLING CONTRACTOR : Boart-Longyear, Little Falls, MN
 DRILLING METHOD AND EQUIPMENT USED : Rotasonic, 4 in x 6 in
 WATER LEVELS : 128.38 ft (11/12/98) START : 10/26/98 END : 10/26/98 LOGGER : T. Proper/ATL



1- Ground elevation at well	285.53 ft
2- Top of casing elevation	284.99 ft
3- Wellhead protection cover type b) concrete pad dimensions	Flush mount vault 3 ft x 3 ft
4- Dia./type of well casing	2-inch PVC
5- Type/slot size of screen	0.010 slot PVC
6- Type screen filter a) Quantity used	Filter Silt™ -10/20 sand 200 lbs (4 bags)
7- Type of seal a) Quantity used	Shur Pal™ bentonite pellets (1/4 in) (Pellets used to seal confining unit if penetrated.) 238 lbs (16 ft)
8- Grout a) Grout mix used b) Method of placement c) Vol. of well casing grout	Quik Grout™ (100 lbs), 48 gal water Pumped Approx. 236 gal
Development method	Pump with Grundfos pump
Development time	6.5 hours
Estimated purge volume	800 gal
Comments	Mud weight = 9.4 lbs/gal (not measured) Total Depth (BTOC) = 171.6 ft
Final field parameters collected during well development (11/8/98):	pH = 6.14 conductivity = 0.333 mS/cm temperature = 18.6°C

Note: Diagram not to scale.