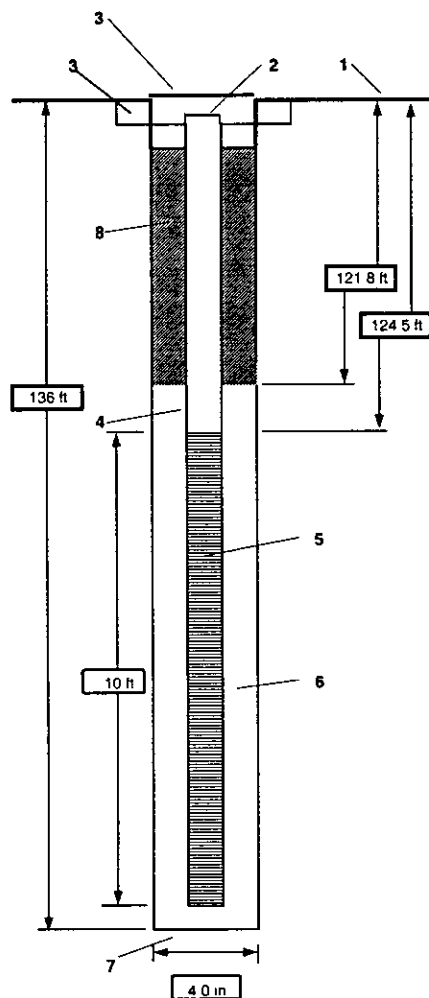




PROJECT NUMBER 113630.01.ZZ	WELL NUMBER MW-63	SHEET 1 OF 1
WELL COMPLETION DIAGRAM		

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 102.25 ft (11/12/98) START 10/13/98 END 10/13/98 LOGGER T Proper/ATL



Note: Diagram not to scale

1- Ground elevation at well	305.10 ft
2- Top of casing elevation	304.58 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 Sil™ -10/20 sand 200 lbs (4 bags)
7- Type of seal a) Quantity used	Shur Pel™ bentonite pellets (1/4 in) (Pellets used to seal confining unit if penetrated) 38 lbs (7 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. 185 gal
Development method	Pump with Grundfos pump
Development time	1.5 hours
Estimated purge volume	275 gal
Comments	Mud weight = 9.4 lbs/gal (not measured) Total Depth (BTOC) = 135.3 ft
Final field parameters collected during well development (10/21/98)	pH = 6.07 conductivity = 0.354 mS/cm temperature = 19.2°C