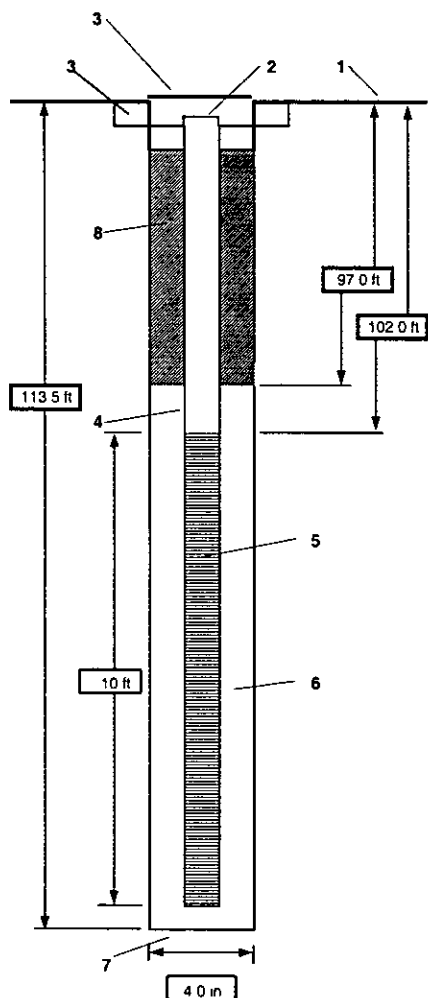




PROJECT NUMBER 113630.01.ZZ	WELL NUMBER MW-64	SHEET 1 OF 1
WELL COMPLETION DIAGRAM		

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 106.53 ft (11/12/98) START 10/15/98 END 10/15/98 LOGGER T Proper/ATL



1- Ground elevation at well	304.63 ft
2- Top of casing elevation	304.24 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) 25 lbs (2.5 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. 146 gal
Development method	Bailed with disposable bailer (slow recovery)
Development time	6 hours (intermittently)
Estimated purge volume	33 gal
Comments	Mud weight = 9.4 lbs/gal (not measured) Total Depth (BTOC) = 112.8 ft Final field parameters collected during well development (10/24/98) pH = 6.82 conductivity = 0.324 mS/cm temperature = 18.4°C

Note: Diagram not to scale