

CH2MHILL

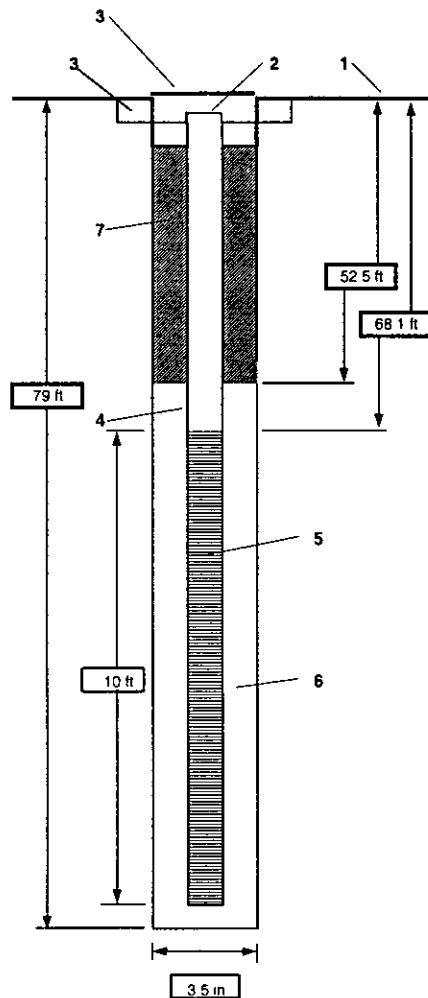
PROJECT NUMBER 113630.01.ZZ	WELL NUMBER PZ-5	SHEET 1 OF 1
WELL COMPLETION DIAGRAM		

PROJECT DDMT October 1998 Well Installation LOCATION Memphis, TN

DRILLING CONTRACTOR Boart-Longyear, Little Falls, MN

DRILLING METHOD AND EQUIPMENT USED Rotasonic, O D \approx 3.5 in, I D \approx 2.25 in

WATER LEVELS Not measured START 11/5/98 END 11/5/98 LOGGER T Proper/ATL



Note: Diagram not to scale

1- Ground elevation at well	256.55 ft
2- Top of casing elevation	256.04 ft
3- Wellhead protection cover type b) concrete pad dimensions	Flush mount vault 3 ft x 3 ft
4- Dia./type of well casing	3/4-inch PVC
5- Type/slot size of screen	0.010 slot PVC (pre-packed)
6- Type screen filter a) Quantity used	Filter Sil™ - 10/20 sand (+ formation sand) (Boundary b/l formation sand and Filter Sil™ - 67 ft) 100 lbs (2 bags)
7- Grout a) Grout mix used b) Method of placement c) Vol. of well casing grout	Quik Grout™ (100 lbs), 48 gal water Pumped Approx. 79 gal
Development method	Did not develop
Development time	Did not develop
Estimated purge volume	Did not purge (Estimated gal of water added during PZ installation unknown)
Comments	Mud weight = 9.4 lbs/gal (not measured) Total Depth (BTOC) = 78.6 ft PZ installed at HY-5 location