CH2MHILL

PROJECT NUMBER	WELL NUMBER	
177556	MW-133	SHEET 1 OF 1

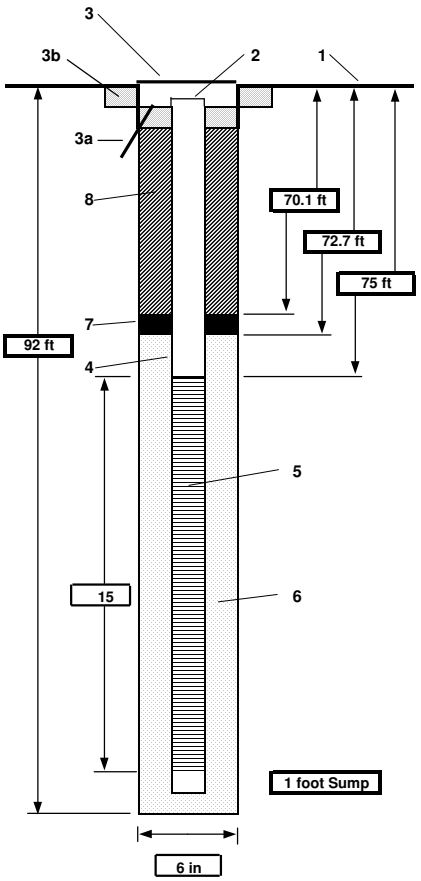
WELL COMPLETION DIAGRAM

PROJECT : ZVI Pilot Study — LOCATION : Memphis Depot, Dunn Field

DRILLING CONTRACTOR Prosonic Corp

DRILLING METHOD AND EQUIPMENT USED Rotasonic rig (4 inch sample casing / 6 inch outer casing)

WATER LEVELS : START : 10/17/2003 — END: 10/17/2003 — LOGGER : Mike Karafa



Note: Diagram not to scale.

1-	Ground elevation at well	feet MSL
2-	Top of casing elevation	feet MSL
3-	Wellhead protection cover type	Flush-mount wellhead pad
	a) drain tube?	No
	b) concrete pad dimensions	3 by 3 feet
4-	Dia./type of well casing	2 inch Schedule 40 PVC with 10 ft of stainles Steel riser on top of screen
5-	Type/slot size of screen	2 inch stainless steel 0.010 in slotted screen
6-	Type screen filter	Filtersil by Unicorp #JC50FS
	a) Quantity used	bags
7-	Type of seal	Holeplug 3/8" bentnite chips
	a) Quantity used	2 bags
8-	Grout	
	a) Grout mix used	Portland Cement and bentonite powder 13.5 l
	b) Method of placement	Tremmie Method
	c) Vol. of well casing grout	
	Development method	Surge and develop with stainless steel bailer
	Development time	hour
	Estimated purge volume	gallons
	Comments	Total Depth (BGS) = feet

Final field parameters collected during well development (/ /):

pH =	
conductivity =	mS/cm
temperature =	°C
Dissolved Oxygen =	mg/l
Turbidity =	NTU