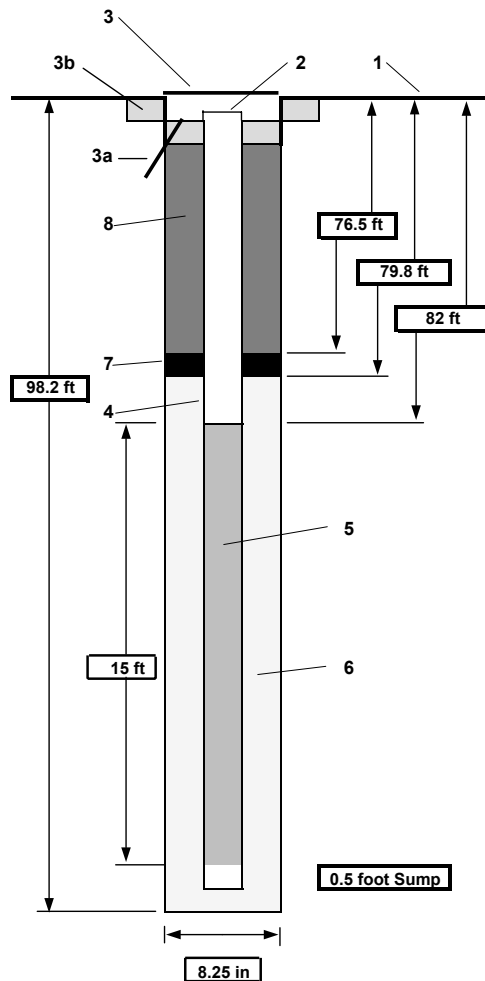




PROJECT NUMBER 160492.SA.03	WELL NUMBER MW-88	SHEET 1 OF 1
WELL COMPLETION DIAGRAM		

PROJECT : Long Term Operational Areas - Memphis Depot LOCATION : Memphis, Tennessee
 DRILLING CONTRACTOR : Tri-State Testing Services, Inc.
 DRILLING METHOD AND EQUIPMENT USED : Hollow Stem Auger 4.25 inch ID with CME Sampler
 WATER LEVELS : 80.98 feet BTOC (11/2001) START : 09/20/2001 END: 09/21/2001 LOGGER : Jay Parker (Jacobs)



Note: Diagram not to scale.

1- Ground elevation at well	305.47 feet MSL
2- Top of casing elevation	305.15 feet MSL
3- Wellhead protection cover type	Flush mount vault
a) drain tube?	no
b) concrete pad dimensions	3 ft x 3 ft x 6 in
4- Dia./type of well casing	2-inch Sch. 40 PVC
5- Type/slot size of screen	2-inch 0.010 slotted PVC
6- Type screen filter	#2 filter sand
a) Quantity used	bags
7- Type of seal	Bentonite chips
a) Quantity used	bags
8- Grout	
a) Grout mix used	90% Portland Grout, 10% bentonite powder
b) Method of placement	Tremie Method
c) Vol. of well casing grout	
Development method	Surge & pump with an electrical, centrifugal, in-line pump.
Development time	8 hour
Estimated purge volume	48 gallons
Comments	Total Depth (BGS) = 97.5 feet Completed based on LTOA workplan (2001) specifications.
Final field parameters collected during well development (11/02/2001):	
pH =	7.10
conductivity =	0.280 mS/cm
temperature =	26.33 °C
Dissolved Oxygen =	5.18 mg/l
Turbidity =	>1000 NTU