



PROJECT NUMBER
160492.SA.03

WELL NUMBER
MW-85

SHEET 1 OF 1

WELL COMPLETION DIAGRAM

PROJECT : Long Term Operational Areas - Memphis Depot

LOCATION : Memphis, Tennessee

DRILLING CONTRACTOR : Tri-State Testing Services, Inc.

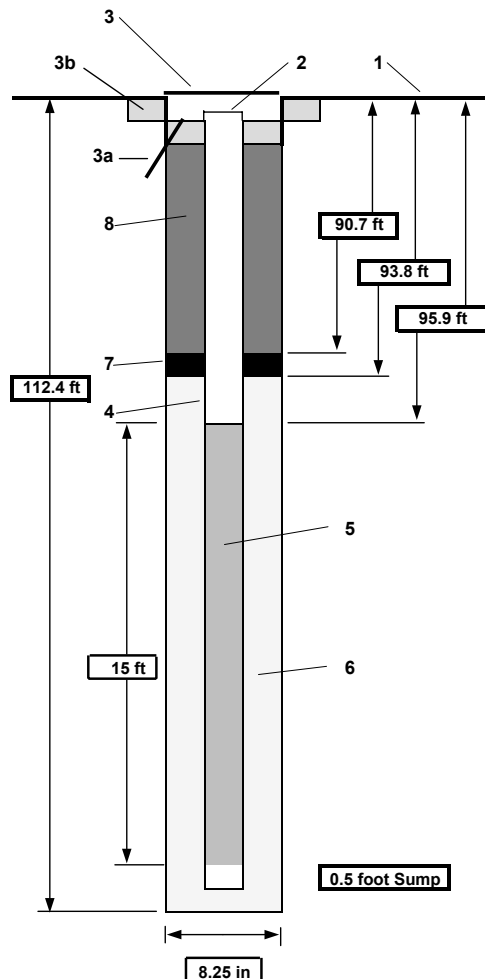
DRILLING METHOD AND EQUIPMENT USED : Hollow Stem Auger 4.25 inch ID with CME Sampler

WATER LEVELS : 99.97 feet BTOC (11/2001)

START : 09/18/2001

END: 09/19/2001

LOGGER : Jay Parker (Jacobs)



Note: Diagram not to scale.

1- Ground elevation at well	304.50 feet MSL
2- Top of casing elevation	304.13 feet MSL
3- Wellhead protection cover type	Flush mount vault
a) drain tube?	none
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	2.75 hour
Estimated purge volume	41 gallons
Comments	Total Depth (BGS) = 111.4 feet Completed based on LTOA workplan (2001) specifications.
Final field parameters collected during well development (11/01/2001):	
pH =	7.32
conductivity =	0.159 mS/cm
temperature =	22.93 °C
Dissolved Oxygen =	4.88 mg/l
Turbidity =	40 NTU