



PROJECT NUMBER
160492.SA.03

WELL NUMBER
MW-100

SHEET 1 OF 1

WELL COMPLETION DIAGRAM

PROJECT : Long Term Operational Areas - Memphis Depot

LOCATION : Memphis, Tennessee

DRILLING CONTRACTOR : Tri-State Testing Services, Inc.

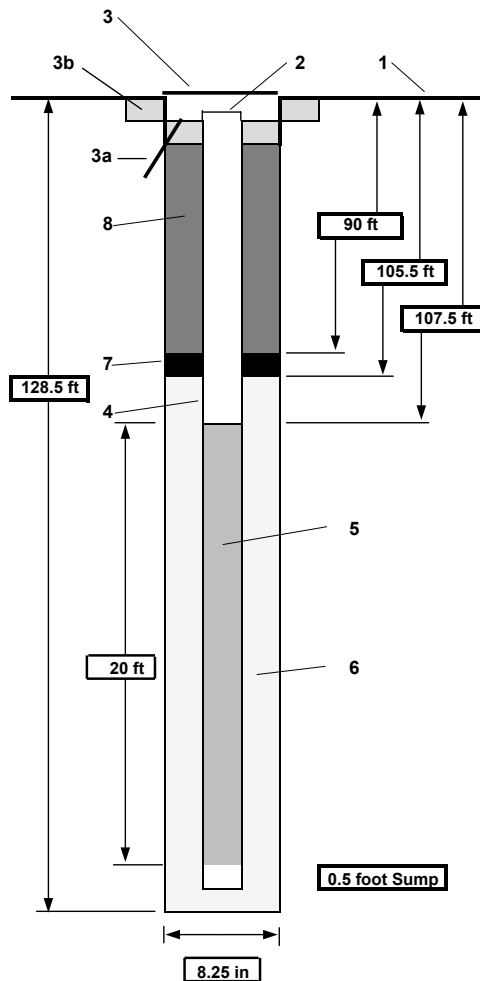
DRILLING METHOD AND EQUIPMENT USED : Hollow Stem Auger 4.25 inch ID with CME Sampler

WATER LEVELS : 92.98 feet BTOC (11/2001)

START : 11/15/2001

END: 11/15/2001

LOGGER : Jay Parker (Jacobs)



Note: Diagram not to scale.

1- Ground elevation at well	291.60 feet MSL
2- Top of casing elevation	291.06 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	8 bags
7- Type of seal	Bentonite chips
a) Quantity used	5 - 5 gallon buckets
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	2.5 hour
Estimated purge volume	45 gallons
Comments	Total Depth (BGS) = 132.5 feet Completed based on LTOA workplan (2001) specifications.
Final field parameters collected during well development (11/19/2001):	
pH =	5.30
conductivity =	0.182 mS/cm
temperature =	20.06 °C
Dissolved Oxygen =	2.92 mg/l
Turbidity =	95 NTU