



PROJECT NUMBER 160492.SA.03	WELL NUMBER MW-86	SHEET 1 OF 1
WELL COMPLETION DIAGRAM		

PROJECT : Long Term Operational Areas - Memphis Depot

LOCATION : Memphis, Tennessee

DRILLING CONTRACTOR : Tri-State Testing Services, Inc.

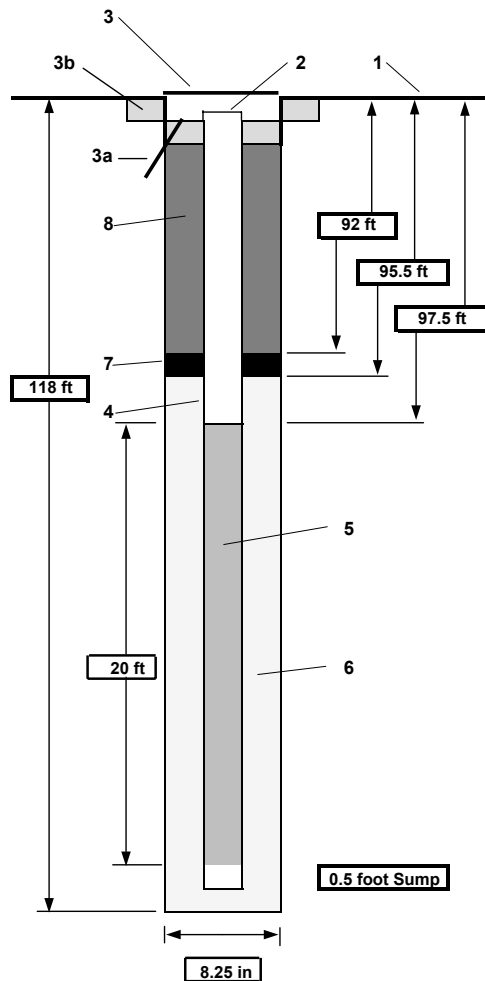
DRILLING METHOD AND EQUIPMENT USED : Hollow Stem Auger 4.25 inch ID with CME Sampler

WATER LEVELS : 98.27 feet BTOC (11/2001)

START : 09/18/2001

END: 09/21/2001

LOGGER : Adam Kaiser (Jacobs)



Note: Diagram not to scale.

1- Ground elevation at well	304.89 feet MSL
2- Top of casing elevation	304.35 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	2.5 hour
Estimated purge volume	38 gallons
Comments	Total Depth (BGS) = 117.5 feet Completed based on LTOA workplan (2001) specifications.
Final field parameters collected during well development (10/31/2001):	
pH =	6.38
conductivity =	0.139 mS/cm
temperature =	27.58 °C
Dissolved Oxygen =	5.54 mg/l
Turbidity =	22 NTU