PROJECT NUMBER	WELL NUMBER	
160492.SA.03	MW-104	SHEET 1 OF 1

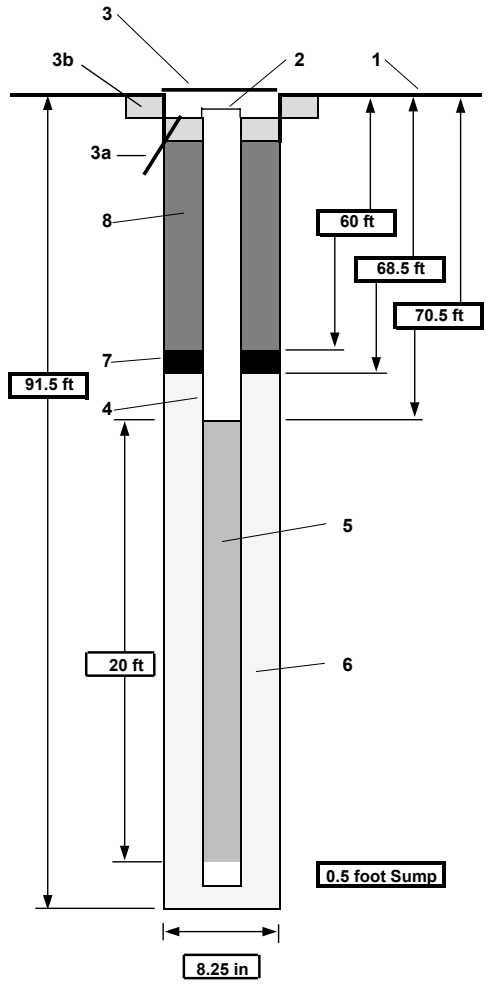
WELL COMPLETION DIAGRAM

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 : 63.01 feet BTOC (11/2001) — START : 10/15/2001 — END: 10/15/2001 — LOGGER : Jay Parker (Jacobs)



Note: Diagram not to scale.

1- Ground elevation at well	296.13 feet MSL
2- Top of casing elevation	295.76 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	8.5 hour
Estimated purge volume	204 gallons

Comments: Total Depth (BGS) = 93 feet

Completed based on LTOA workplan (2001) specifications.

Final field parameters collected during well development (10/08/2001):

pH =	6.25
conductivity =	0.426 mS/cm
temperature =	22.63 °C
Dissolved Oxygen =	2.25 mg/l
Turbidity =	35 NTU