



PROJECT NUMBER <b>160492.SA.03</b>	WELL NUMBER <b>MW-107</b>	SHEET 1 OF 1
<b>WELL COMPLETION DIAGRAM</b>		

PROJECT : Long Term Operational Areas - Memphis Depot

LOCATION : Memphis, Tennessee

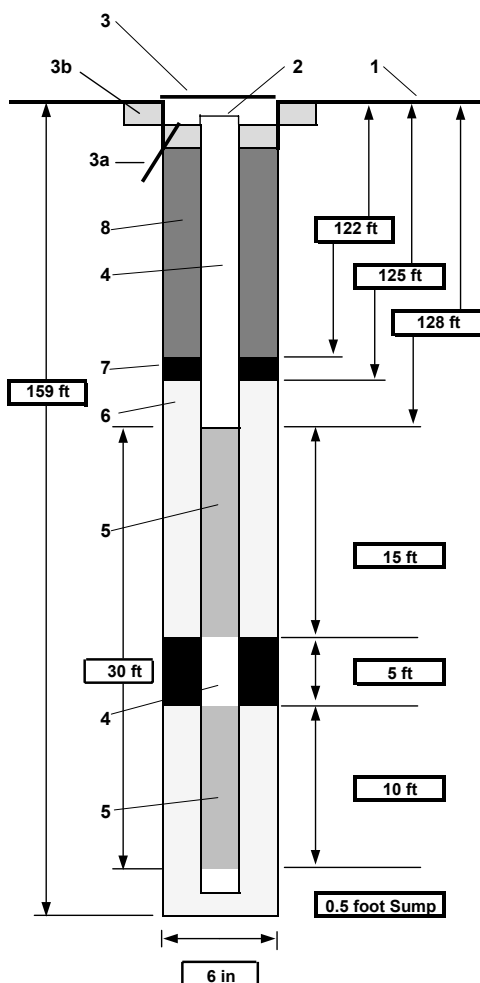
DRILLING CONTRACTOR : Prosonic Corporation

DRILLING METHOD AND EQUIPMENT USED : Rotosonic (4 and 6 inch casing)

WATER LEVELS : 114.43 feet BTOC (11/2001) START : 10/17/2001

END: 10/18/2001

LOGGER : Jay Parker (Jacobs)



Note: Diagram not to scale.

1- Ground elevation at well	305.18 feet MSL
2- Top of casing elevation	304.92 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	1 hour
Estimated purge volume	48 gallons

Comments Total Depth (BGS) = 167 feet  
Completed based on decision by TDEC.

Final field parameters collected during well development (12/24/2001):

	Upper	Lower	(Screened Int.)
pH =	6.30	6.23	
conductivity =	0.168	0.167	mS/cm
temperature =	18.9	18.6	°C
Dissolved Oxygen =	5.4	5.8	mg/l
Turbidity =	214	297	NTU