



PROJECT NUMBER
160492.SA.03

WELL NUMBER
MW-101

SHEET 1 OF 1

WELL COMPLETION DIAGRAM

PROJECT : Long Term Operational Areas - Memphis Depot

LOCATION : Memphis, Tennessee

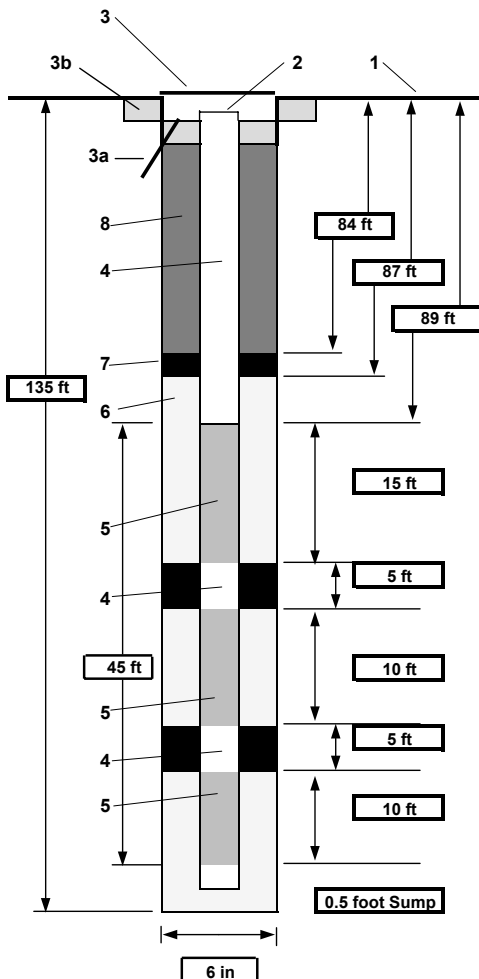
DRILLING CONTRACTOR : Prosonic Corporation

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

WATER LEVELS : 120.43 feet BTOC (11/2001) START : 11/14/2001

END: 11/14/2001

LOGGER : Jay Parker (Jacobs)



Note: Diagram not to scale.

1- Ground elevation at well	291.99 feet MSL
2- Top of casing elevation	291.70 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	4 hour
Estimated purge volume	96 gallons
Comments	total Depth (BGS) = 142 feet Completed based on field decision by TDEC.

Final field parameters collected during well development (10/29/2001):

	Upper	Middle	Lower	(Screened Int.)
pH =	6.09	6.03	6.2	
conductivity =	0.223	0.232	0.242	mS/cm
temperature =	19.39	19.21	18.81	°C
Dissolved Oxygen =	7.63	8.01	8.8	mg/l
Turbidity =	96	106	50	NTU