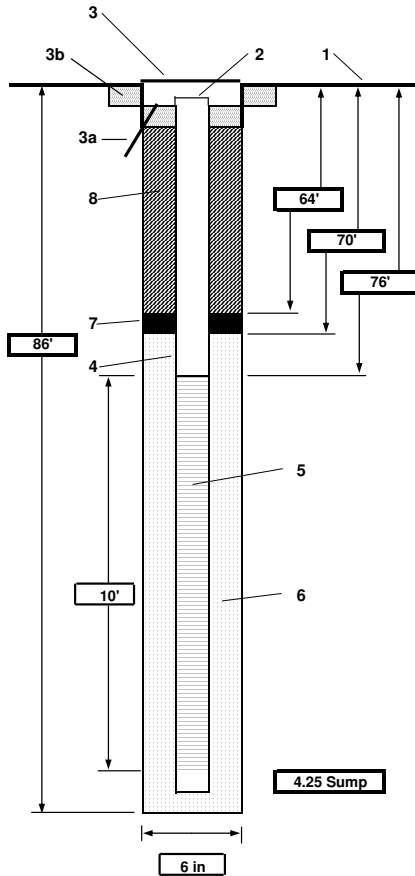




<b>PROJECT NUMBER</b> <div style="border: 1px solid black; padding: 2px; text-align: center;">177556.SA.FE</div>	<b>WELL NUMBER</b> <div style="border: 1px solid black; padding: 2px; text-align: center;">MW-178</div>
SHEET 1 OF 1	
<b>WELL COMPLETION DIAGRAM</b>	

PROJECT : DDMT 2005 Well Installation	LOCATION : Memphis Depot, Dunn Field	
DRILLING CONTRACTOR : Prosonic Corp		
DRILLING METHOD AND EQUIPMENT USED : Rotasonic rig (4 inch sample casing / 6 inch outer casing)		
WATER LEVELS :	START : 10/13/2005	END: 10/14/2005
LOGGER : Mike Karafa		



**Note: Diagram not to scale.**  
 Back filled boring from 96' to 86' with bentonite chips

1- Ground elevation at well	300.57 feet MSL
2- Top of casing elevation	300.26 feet MSL
3- Wellhead protection cover type	Flush-mount wellhead pad
a) drain tube?	No
b) concrete pad dimensions	3 by 3 feet
4- Dia./type of well casing	2" ID Sch 40 PVC Steel riser on top of screen
5- Type/slot size of screen	2" ID Sch 40 PVC 0.010 in slotted screen
6- Type screen filter	Unimin FilterSil 20/40 #00N
a) Quantity used	7.5 bgs 50lbs
7- Type of seal	Pure Gold Medium Bentonite Chips
a) Quantity used	2 bags
8- Grout	
a) Grout mix used	Loanstar Type I/II Portland Cement and bentonite powder 26.8 lbs
b) Method of placement	Tremmie Method
c) Vol. of well casing grout	
Development method	Grundfos surge and develop with YSI
Development time	3.5 hour
Estimated purge volume	880 gallons
Comments	Depth To Water (DTW) = 73.81 feet
Final field parameters collected during well development (11/8/05):	
pH =	5.94
conductivity =	0.269 mS/cm
temperature =	18.25 °C
Dissolved Oxygen =	6.75 mg/l
Turbidity =	4.1 NTU