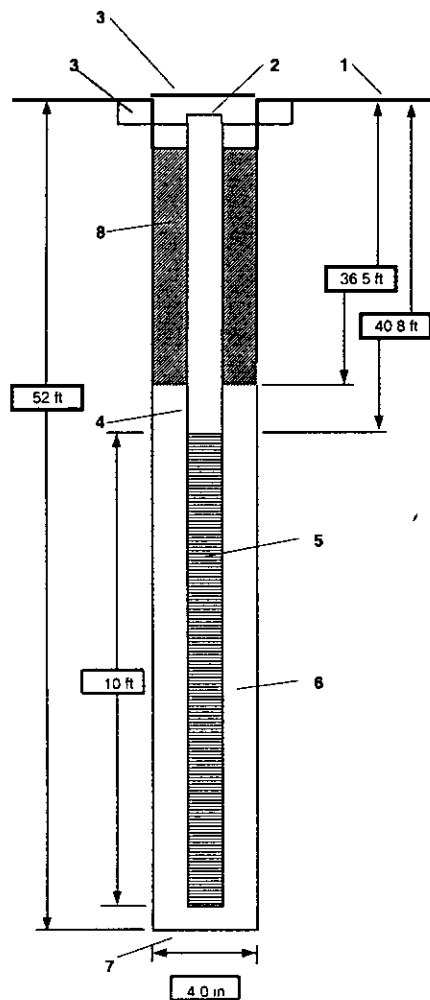


488 120

CH2MHILL

|                                |                      |              |
|--------------------------------|----------------------|--------------|
| PROJECT NUMBER<br>113630.01.ZZ | WELL NUMBER<br>MW-65 | SHEET 1 OF 1 |
| <b>WELL COMPLETION DIAGRAM</b> |                      |              |

PROJECT DDMT October 1998 Well Installation LOCATION Memphis, TN  
 DRILLING CONTRACTOR Boart Longyear, Little Falls, MN  
 DRILLING METHOD AND EQUIPMENT USED Rotasonic, 4 in x 6 in  
 WATER LEVELS 50.86 ft (11/12/98) START 11/6/98 END 11/6/98 LOGGER T Proper/ATL



|                                                                                         |                                                                                                                                                                                                          |
|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1- Ground elevation at well                                                             | 263.57 ft                                                                                                                                                                                                |
| 2- Top of casing elevation                                                              | 263.22 ft                                                                                                                                                                                                |
| 3- Wellhead protection cover type<br>b) concrete pad dimensions                         | Flush mount vault<br>3 ft x 3 ft                                                                                                                                                                         |
| 4- Dia./type of well casing                                                             | 2-inch PVC                                                                                                                                                                                               |
| 5- Type/slot size of screen                                                             | 0.010 slot PVC                                                                                                                                                                                           |
| 6- Type screen filter<br>a) Quantity used                                               | Filter Sil™ -10/20 sand<br>200 lbs (4 bags)                                                                                                                                                              |
| 7- Type of seal<br>a) Quantity used                                                     | Shur Pel™ bentonite pellets (1/4 in)<br>(Pellets used to seal confining unit if penetrated)<br>38 lbs (4 ft)                                                                                             |
| 8- Grout<br>a) Grout mix used<br>b) Method of placement<br>c) Vol. of well casing grout | Quik Grout™ (100 lbs), 48 gal water<br>Pumped<br>Approx. 55 gal                                                                                                                                          |
| Development method                                                                      | ??                                                                                                                                                                                                       |
| Development time                                                                        | ??                                                                                                                                                                                                       |
| Estimated purge volume                                                                  | ??                                                                                                                                                                                                       |
| Comments                                                                                | Mud weight = 9.4 lbs/gal (not measured)<br>Total Depth (BTOC) = ?? ft<br>Final field parameters collected during well development (11/??/98)<br>pH = ??<br>conductivity = ?? mS/cm<br>temperature = ??°C |

Note: Diagram not to scale