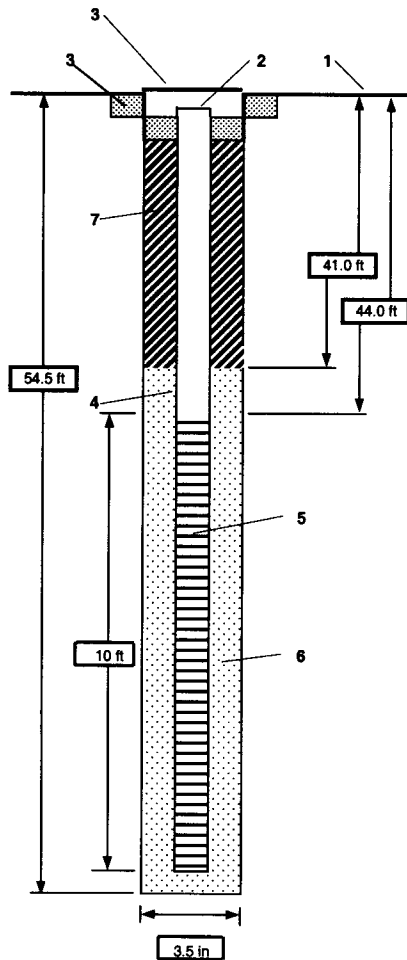




|                                       |                            |              |
|---------------------------------------|----------------------------|--------------|
| PROJECT NUMBER<br><b>113630.01.ZZ</b> | WELL NUMBER<br><b>PZ-2</b> | SHEET 1 OF 1 |
| <b>WELL COMPLETION DIAGRAM</b>        |                            |              |

PROJECT : DDMT October 1998 Well Installation LOCATION : Memphis, TN  
 DRILLING CONTRACTOR : Boart-Longyear, Little Falls, MN  
 DRILLING METHOD AND EQUIPMENT USED : Rotasonic; O.D. = 3.5 in., I.D. = 2.25 in.  
 WATER LEVELS : Not measured START : 10/28/98 END : 10/28/98 LOGGER : T. Proper/ATL



|                                   |                                                                                 |
|-----------------------------------|---------------------------------------------------------------------------------|
| 1- Ground elevation at well       | 284.82 ft                                                                       |
| 2- Top of casing elevation        | 284.39 ft                                                                       |
| 3- Wellhead protection cover type | Flush mount vault                                                               |
| b) concrete pad dimensions        | 3 ft x 3 ft                                                                     |
| 4- Dia./type of well casing       | 3/4-inch PVC                                                                    |
| 5- Type/slot size of screen       | 0.010 slot PVC (pre-packed)                                                     |
| 6- Type screen filter             | Filter Silt™ - 10/20 sand (+ formation sand)                                    |
| a) Quantity used                  | (Boundary b/t formation sand and Filter Silt™ - 51 ft.)<br>50 lbs (1 bag)       |
| 7- Grout                          |                                                                                 |
| a) Grout mix used                 | Quik Grout™ (100 lbs), 48 gal water                                             |
| b) Method of placement            | Pumped                                                                          |
| c) Vol. of well casing grout      | Approx. 103 gal                                                                 |
| Development method                | Did not develop                                                                 |
| Development time                  | Did not develop                                                                 |
| Estimated purge volume            | Did not purge (Driller estimated 20 gal of water added during PZ installation.) |
| Comments                          | Mud weight = 9.4 lbs/gal (not measured)                                         |
|                                   | Total Depth (BTOC) = 54.5 ft                                                    |
|                                   | PZ installed at HY-12 location                                                  |

Note: Diagram not to scale.