



# FIELD BOREHOLE LOG

BOREHOLE NO.: MW-202B

TOTAL DEPTH: 136 ft.

## PROJECT INFORMATION

PROJECT: DDMT - Main Installation, New Plume Wells  
 PROJECT NO.: 3202-019  
 SITE LOCATION: MI  
 PROJECT MANAGER: T. Holmes  
 FIELD STAFF: D. Whitesides  
 BOREHOLE STARTED: 8/21/2006 11:15:00 AM  
 BOREHOLE FINISHED: 8/22/2006

## DRILLING INFORMATION

DRILLING CO.: Prosonic  
 DRILLER: A. Marshall  
 DRILLING METHOD/RIG: Sonic  
 BOREHOLE DIAMETER: 6-in.  
 GROUND SURFACE ELEVATION: 299.74 (ft, msl)  
 WATER DEPTH/ DATE: 123.82 ft.toc - 8/24/06  
 BOREHOLE USE: Monitoring Well

### NOTES:

| Depth | Soil Symbol | Soil Description  | Well Completion | Well Description |
|-------|-------------|---|-----------------|------------------|
|       |             | Gravel  |                 | Grouted Annulus  |
|       | CL          | Clay - dark yellowish brown (10YR 4/6) massive, plastic, moist                                      |                 |                  |
|       | CL          | Clay - gray (10YR 6/1) massive, plastic   |                 |                  |
| 10    | CL          | Clay - dark yellowish brown (10YR 4/4) massive, very plastic, moist                                 |                 |                  |
|       | CL          | Clay - dark yellowish brown (10YR 4/4) massive, very plastic, moist                                 |                 |                  |
| 20    | CL          | Clay - dark yellowish brown (10YR 4/4) massive, very plastic, moist                                 |                 |                  |
|       | CL          | Clay - gray (10YR6/2) massive, very plastic, mottled, occasional dark reddish brown oxidation zones |                 |                  |
| 30    |             |   |                 |                  |

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|-------|-------------|--|-----------------|------------------|
|       |             | <b>CL</b><br>Clay - yellowish brown (10YR 5/8) sandy                               |                 |                  |
|       |             | <b>SC</b><br>Sand - dark reddish brown (2.5YR 3/4) clayey, fine grain, moist       |                 |                  |
|       |             | <b>SP</b><br>Sand - yellowish brown (2.5YR 7/8) fine grain, moist                  |                 |                  |
| 40    |             | <b>SP</b><br>Sand - white (2.5YR 8/1) fine grain, moist                            |                 |                  |
|       |             | <b>SP</b><br>Sand - yellowish brown (10YR 5/8) fine grain, cobbles to 1-in., moist |                 |                  |
|       |             | <b>SP</b><br>Sand - red (2.5YR 4/6) fine grain, moist                              |                 |                  |
|       |             | <b>SP</b><br>Sand - white (2.5YR8/1) fine grain                                    |                 |                  |
| 50    |             | <b>SP</b><br>Sand - white (2.5YR8/1) gravelly, fine grain                          |                 |                  |
|       |             | <b>SP</b><br>Sand - yellow (105YR7/8) gravelly, fine grain                         |                 |                  |
| 60    |             | <b>SP</b><br>Sand - white (2.5YR8/1) fine grain                                    |                 |                  |

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|       |             |   |                 |                  |
|       |             | <b>SP</b><br>Sand - light gray (10YR 7/1) gravelly, cobbles to 1- in.,                      |                 |                  |
|       |             | <b>SP</b><br>Sand - brownish yellow (10YR 6/8) fine grained, moist                          |                 |                  |
| 70    |             | <b>SP</b><br>Sand - strong brown (7.5YR5/6), fine grain, cobbles to 2-in., gravel up to 50% |                 |                  |
|       |             | <b>SM</b><br>Sand - yellowish red (5YR4/6), silty, fine grain                               |                 |                  |
| 80    |             | <b>GW</b><br>Gravel - yellow (10 YR7/8) sandy   |                 |                  |
|       |             | <b>SA</b><br>Sandstone, cemented, very hard   |                 |                  |
|       |             | <b>SW</b><br>Sand - yellowish brown (10YR 5/6) gravelly                                     |                 |                  |
|       |             | <b>GP</b><br>Gravel - sandy silty, dry  |                 |                  |
| 90    |             | <b>CL</b><br>Clay - brownish yellow (10YR 6/8) massive, plastic,                            |                 |                  |

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| Depth | Soil Symbol | Soil Description   | Well Completion | Well Description |
|-------|-------------|--|-----------------|------------------|
|       |             | <b>CL</b><br>Clay - light gray (10YR 7/1) massive, hard, plastic,          |                 |                  |
|       |             | <b>CL</b><br>Clay - dark gray (10YR 4/1) massive, hard,                    |                 |                  |
|       |             | <b>CL</b><br>Clay - dark gray (10YR 4/1) massive, hard, dry                |                 |                  |
| 100   |             | <b>SP</b><br>Sand - light gray (10YR 7/1) very fine grained, moist         |                 |                  |
|       |             | <b>SC</b><br>Sand - light gray (10YR 7/1) clayey, very fine grained, moist |                 |                  |
| 110   |             | <b>CL</b><br>Clay - light gray (10YR 7/1) very plastic, sandy              |                 |                  |
|       |             | <b>SP</b><br>Sand - white (10YR 8/1) fine to very fine grained,            |                 |                  |
|       |             | <b>SP</b><br>Sand - white (10YR 8/1) fine grained, wet                     |                 |                  |
| 120   |             |  |                 | Bentonite Plug   |
|       |             |  |                 | Sand Pack        |

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