



FIELD BOREHOLE LOG

BOREHOLE NO.: MW-208A

TOTAL DEPTH: 206 ft.

PROJECT INFORMATION

PROJECT: Phase 2 Wells and April LTM Report

PROJECT NO.: 3202-019

SITE LOCATION: MI

PROJECT MANAGER: T. Holmes

FIELD STAFF: J. Anstaett

BOREHOLE STARTED: 3/22/2007 08:40

BOREHOLE FINISHED: 3/22/2007 16:30

DRILLING INFORMATION

DRILLING CO.: Prosonic

DRILLER: J. Asua

DRILLING METHOD/RIG: Sonic

BOREHOLE DIAMETER: 6-in.

GROUND SURFACE ELEVATION: 301.91 (ft, msl)

WATER DEPTH/ DATE: 105.39-ft. toc -5/4/07

BOREHOLE USE: Monitoring Well

NOTES:

| Depth | Soil Symbol | Soil Description | Well Completion | Well Description |
|-------|-------------|---|-----------------|------------------|
| | | Grass and topsoil | | Grouted Annulus |
| 10 | | CL Sandy clay - reddish brown 5YR (5/3), medium plasticity, medium to coarse grained sand, moist. | | |
| | | CL Silty clay - yellowish red 5YR (4/6), medium plasticity, moist. | | |
| 20 | | CL Silty clay - dark reddish brown 5YR (3/4), with gray mottling, low plasticity, moist. | | |
| 30 | | CL Silty clay - dark reddish brown 5YR (3/4), with gray mottling, medium plasticity, moist. | | |

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| Depth | Soil Symbol | Soil Description | Well Completion | | Well Description |
|-------|-------------|--|-----------------|--|------------------|
| | | | | | |
| | | CL Sandy clay - weak red 10R (4/4), medium plasticity, fine grained sand, moist. | | | |
| | | CL Sandy clay - weak red 10R (4/4), low plasticity, fine grained sand, gray mottling, moist. | | | |
| 40 | | | | | |
| | | SP Clayey sand - red 2.5YR (4/8), fine grained sand, poorly graded, moist. | | | |
| | | | | | |
| | | SP Clayey sand - yellowish red, 5YR (5/8), fine grained sand, poorly graded, wet. | | | |
| 50 | | | | | |
| | | SP Sand - yellow 10YR (8/8), fine to medium grained sand, poorly graded, moist. | | | |
| | | | | | |
| | | SW Gravely sand - yellow 10YR (7/8), fine to coarse grained sand, with some silt, sub-rounded to sub-angular gravel, well graded, dry. | | | |
| 60 | | | | | |

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| Depth | Soil Symbol | Soil Description | Well Completion | | Well Description |
|-------|-------------|---|-----------------|--|------------------|
| | | | | | |
| 70 | | SW Gravely sand - brownish yellow 10YR (6/8), fine to coarse grained sand, sub-rounded to sub-angular gravel, well graded, dry. | | | |
| | | SW Silty sand - yellow 10YR (7/8), with some gravel, fine grained sand, sub-rounded gravel, well graded, dry. | | | |
| 80 | | SW Gravely sand - yellow 10YR (8/8), fine to coarse grained sand, sub-rounded to sub-angular gravel, well graded, moist. | | | |
| | | SW Gravely sand - yellowish red 5YR (5/8), medium to coarse grained sand, sub-rounded gravel, well graded, wet. | | | |
| 90 | | | | | |

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| Depth | Soil Symbol | Soil Description | Well Completion | Well Description |
|-------|-------------|---|-----------------|------------------|
| | | MH Sandy silt - pale yellow 2.5Y (8/3), fine grained sand, dry. | | |
| | | CH Silty clay - light reddish brown 5YR (6/3), high plasticity, moist. | | |
| | | SP Clayey sand - reddish yellow 7.5YR (6/6), fine grained sand, poorly graded, moist. | | |
| | | SP Silty sand - reddish yellow 5YR (6/8), fine grained sand, poorly graded, moist. | | |
| 100 | | | | |
| | | SW Gravely sand - reddish yellow 7.5YR (6/6), fine to coarse grained sand, sub-rounded to sub-angular gravel, well graded, wet. | | |
| 110 | | | | |
| | | SW Gravely sand - reddish yellow 7.5YR (6/6), fine to coarse grained sand, sub-rounded gravel, well graded, wet. | | |
| | | CL Clay - red 5R (5/6), medium plasticity, moist. | | |
| 120 | | | | |

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| Depth | Soil Symbol | Soil Description | Well Completion | Well Description |
|-------|-------------|---|-----------------|------------------|
| 130 | | SW Gravely sand - reddish yellow 7.5YR (6/8), fine to coarse grained sand, sub-rounded gravel, well graded, wet. | | |
| | | SW Gravely sand - reddish yellow 7.5YR (6/8), fine to coarse grained sand, sub-rounded gravel, well graded, wet. | | |
| | | SW Silty sand - light red 2.5YR (6/6), with some gravel, fine to medium grained sand, sub-rounded gravel, well graded, wet. | | |
| | | SW Gravely sand - reddish yellow 7.5YR (6/6), fine to coarse grained sand, sub-rounded gravel, well graded, wet. | | |
| 140 | | SW Gravely sand - reddish yellow 7.5YR (6/6), fine to coarse grained sand, sub-rounded gravel, well graded, wet. | | |
| 150 | | SW Silty sand with gravel - very pale brown 10YR (8/4), fine to medium grained sand, sub-rounded gravel, well graded, wet. | | |

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| | | | | | |
| 160 | | SW Gravely sand - yellow 10YR (7/6), trace cobbles, fine to coarse grained sand, sub-rounded to sub-angular gravel, sub-angular cobbles, well graded, wet. | | | |
| 170 | | SP Silty sand - pale red 2.5YR (7/2), trace gravel, fine grained sand, sub-rounded gravel, poorly graded, wet. | | | |
| 180 | | SW Gravely sand - brownish yellow 10YR (5/8), fine to coarse grained sand, sub-rounded gravel, well graded, wet. | | | |
| | | | | | Bentonite Plug |

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| | | | | |
| | | | | Sand Pack |
| 190 | | SP Silty sand - pinkish white 7.5YR (8/2), trace gravel, fine grained sand, sub-angular to sub-rounded gravel, poorly graded, wet. | | Screened Interval |
| | | SP Silty sand - pinkish white 7.5YR (8/2), trace gravel, fine grained sand, sub-rounded gravel, poorly graded, wet. | | |
| 200 | | CH Clay - light gray 10R (7/1), high plasticity, moist. | | |
| | | End of Log | | |
| 210 | | | | |

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