



70-105 KA-1003-07 118th over I-70
 Br.No.70-105-03.12(330)
 Wyandotte County
 CD 1
 N: 39.103413 E:-94.853586
 SW ¼, SW ¼, SW ¼, S10, T11S, R23E

KANSAS DEPARTMENT OF TRANSPORTATION



| | | | | |
|-------------|------------------------------------|----------------|--------------------|--------------------|
| RTE./CO. | 70-Wyandotte | SOUNDING NO. | CH-1 | |
| BRIDGE STA. | 14474+85: 12.0' Rt | PROJ. NO. | KA-1003-01 | |
| SITE NAME | K-7 and I-70 Interchange, 118th St | | HOLE STA. | 47+00, 75.0' Lt CL |
| GEOLOGIST | K. Halverson, G.A. | SCALE | 1 inch = 10.0 feet | |
| DRILLER | J. Burns | RIG TYPE | CME 55 | |
| DATE | July 27, 2010 | | | |
| GW ELEV. | N/A | TOTAL DEPTH | 57.0 | |
| | | TOP HOLE ELEV. | 979.5 | |
| | | M/B ELEV. | 973.0 | |

| Bit Type | GEOLOGIC NAME | STRATIGRAPHIC COLUMN | DEPTH | ELEVATION | CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS | UNCONFINED COMPRESSION (TSF) | ELASTIC MODULUS (PSF) | N60 COUNT (SPT) | ELEVATION |
|------------------|--|----------------------|---|-------------------------|--|------------------------------|-----------------------|-----------------|-----------|
| 8" Hollow Augers | Longaxite Sandstone Mbr South Bend Sandstone Mbr Back Lake Shale Mbr Stoner Limestone Mbr Eudora Shale Mbr Captain Creek Limestone Mbr Vilas Shale | Soil Mantle | | 979.5 | Silty Sandy Clay, dark brown, slightly moist, medium stiff (Fill) | | | | |
| | | 1 | 6.5 | 973.0 | Sandstone, orangish brown, weathered, medium hard "C" | | | | |
| | | 2 | 7.1 7.8 | 972.4 971.7 | Sandstone, orangish brown, weathered, very closely fractured, cross-bedded, medium hard, fine grained, poorly cemented, "C" | | | | |
| | | 3 | 11.3 11.9 13.5 | 968.2 967.6 966.0 | Sandstone, orangish brown, weathered, very closely fractured, cross-bedded, medium hard to hard, fine grained, @8.0-9.5 occasional interbedded sandy Shale seams | 1.875 | 140000 | | 967.0 |
| | | 4 | | 965 | Sandstone with alternating Shale seams, gray to brown, very closely fractured, hard | 258.5 | 9.46E+07 | | 964.3 |
| | | 5 | 18.3 | 961.3 | Shale, gray, sandy, closely fractured, hard | 206 | 5.89E+07 | | 961.1 |
| | | 6 | 22.5 | 957.0 | Limestone, gray, very hard, closely fractured, non-weathered, fossiliferous, well cemented @ 15.3-16.1 verticle fractures, shaley | | | | |
| | | 7 | 26.3 27.7 | 953.2 951.8 | Shale, gray, clayey, hard, non-weathered, closely to very closely fractured, poor bedding structure, poorly laminated | 10.65 | 938000 | | 956.4 |
| | | 8 | 32.5 | 950 | Shale, gray, hard to very hard, abundant Limestone stringers, very closely fractured, non-weathered, alternating Shale and Limestone seams | 55 | 2.59E+07 | | 952.1 |
| | | 9 | 40.3 | 951.8 | Limestone, shaley, dark gray, very ahrd, very closely fractured, non-weathered, well cemented | 248 | 2.04E+08 | | 949.1 |
| | | 10 | 44.8 45.4 | 947.0 947.0 | Limestone, gray, closely to widely fractured, non-weatherd, occasional Shale seams, well cemented, fossiliferous | | | | |
| | | 11 | 49.6 | 945 | Limestone, gray to dark gray, widely fractured, non-weathered, very hard, well cemented, fossiliferous | 243 | 1.15E+08 | | 944.2 |
| 12 | | 940 | Shale, dark gray to black, fissile, very hard, non-weatherd, closely fractured, well laminated | 49.25 | 1.69E+07 | | 937.4 | | |
| | | 935 | Shale, dark gray, very hard, well laminated, closey fractured, non-weathered | | | | | | |
| | | 934.7 934.1 | Limestone, gray, very hard, well cemented, closely fractured, non-weathered | 505 | 1.92E+08 | | 931.2 | | |
| | | 930 | Shale, gray, limy, very hard, well laminated, abundant Limestone stingers non-weathered, very closely fractured | 25.3 | 2840000 | | 927.7 | | |
| | | 925 | | 41.45 | 7940000 | | 923.2 | | |
| | | 57.0 | 922.5 | T.D. = 57 | | | | | |

BOREHOLE REPORT - KANSAS DOT.GDT - 4/28/11 11:16 - C:\SHARED\GINT PROJECT FILES\GINT LOGS\KYLE'S PROJECTS\118TH ST KA-1003-01.GPJ