

PAGE 4 of 4

SOIL BORING LOG

DATE 6/20/2012
 LOGGED BY DR
 GSI JOB No. 09174

ROUTE FAP 353 (US 30) DESCRIPTION US Route 30 @ EJ&E/CN Railroad, IDOT Job No. D-91-046-12
 SECTION 11-Y-A LOCATION SEC 20 & 29, T 35 N, R 15 E, 3rd PM
 COUNTY Cook DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE Diedrich Automatic

STRUCT. NO. ---
 Station ---
 BORING NO. **BS-15**
 Station 278+78
 Offset 30.6' Right
 Ground Surface Elev. 633.1

DEPTH (ft)	BLOW S (1/6")	UCS (tsf)	MOIST (%)	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	Groundwater Elevation: First Encounter Upon Completion (ft)	After (Hrs.)	DEPTH (ft)	BLOW S (1/6")	UCS (tsf)	MOIST (%)
Run 1 continued.				n/a	n/a	820					
Very porous from -123.7' to -125.0'. Recovery=98.0% RQD=74.5%						820					
508.1-125						820					
Silurian System, Niagaran Series Dolomite RUN 2 (-125.0' to -130.0') Light gray mottled gray & fine grained with horizontal bedding. Horizontal fractures @ -125.5', -129.4', -129.7' & -129.9'. Recovery=100.0% RQD=86.0%						862					
503.1-130						862					
End Of Boring @ -130.0 Hollow Stem Augers To -10.0' Rotary Drilling To Completion 116.0' Of 3.0" Casing Used 10.0' Of 4.0" Casing Used CME Automatic Hammer						862					
-135						862					
-140						862					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist (%)
 NR-No Recovery

PAGE 1 of 2

ROCK CORE LOG


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 SECTION 11-Y-A LOCATION SEC 20 & 29, T 35 N, R 15 E, 3rd PM
 COUNTY Cook CORING METHOD Rotary Wash

STRUCT. NO. ---
 Station ---
 BORING NO. **BS-15**
 Station 278+78
 Offset 30.6' Right
 Ground Surface Elev. 633.1

CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
 Core Diameter 2.0 in
 Top of Rock Elev. 519.1
 Begin Core Elev. 518.1

DEPTH (ft)	CORRECTION (%)	RECOVERY (%)	RQD (%)	CORRECTION (min/ft)	STRENGTH (tsf)
1	98.0	74.5	n/a	820	820
Silurian System, Niagaran Series Dolomite RUN 1 (-115.0' to -125.0')					
Gray & fine grained with horizontal bedding becoming lighter gray & slightly porous @ -121.0'. Vertical fracture from -115.1' to -115.5'. Highly fractured from -116.5' to -116.8'. 2.0" clay parting @ -116.8'. Horizontal fractures @ -118.1', -120.1', -120.2', -121.5', -121.6', -122.2', -122.6', -123.4', -123.7' & -124.3'. Very porous from -123.7' to -125.0'.					
-120					
-125					



Color pictures of the cores Yes Cores will be stored for examination for --
 The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

PAGE 2 of 2

ROCK CORE LOG

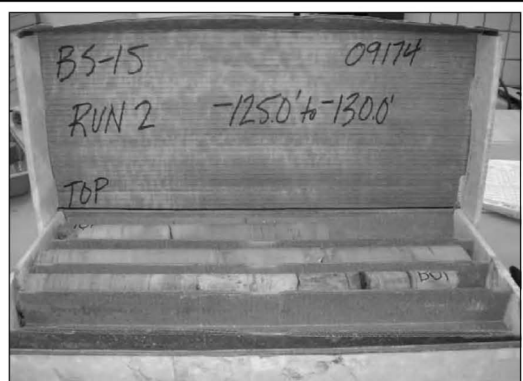
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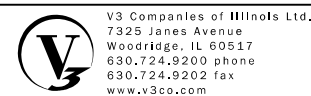
STRUCT. NO. ---
 Station ---
 BORING NO. **BS-15**
 Station 278+78
 Offset 30.6' Right
 Ground Surface Elev. 633.1

CORING BARREL TYPE & SIZE NX Double Swivel-5 ft
 Core Diameter 2.0 in
 Top of Rock Elev. 519.1
 Begin Core Elev. 518.1

DEPTH (ft)	CORRECTION (%)	RECOVERY (%)	RQD (%)	CORRECTION (min/ft)	STRENGTH (tsf)
2	100.0	86.0	n/a	862	862
Silurian System, Niagaran Series Dolomite RUN 2 (-125.0' to -130.0')					
Light gray mottled gray & fine grained with horizontal bedding. Horizontal fractures @ -125.5', -129.4', -129.7' & -129.9'.					
-130					



Color pictures of the cores Yes Cores will be stored for examination for --
 The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)



USER NAME =	DESIGNED - EVS	REVISED
PLOT SCALE =	CHECKED - WJV	REVISED
PLOT DATE =	DRAWN - EVS	REVISED
	CHECKED - WJV	REVISED

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SOIL BORING LOGS
 STRUCTURE NO. 016-1279**

SHEET NO. 30 OF 35 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-Y-A	COOK	354	250
CONTRACT NO. 60R19				
ILLINOIS FED. AID PROJECT				