

7.1(B) GEOLOGIC LOG DRILL HOLES/OVERBURDEN ANALYSIS DATA

Hole No. DH-1
 Surface Elevation: 1234.50
 Bottom of Coal Elevations: 1204.5 Upper Freeport
 1189.5 Lower Freeport
 1169.5 Upper Kittanning
 1138.5 Middle Kittanning #3
 Groundwater Elevations and Date Measured: ▽ 1222.5 4/14/97
 ▼ 1216.5 4/15/97
 ▼ 1218.5 4/16/97
 Surveyed by: ACME Surveyors Method: NCD
 Remarks: Winds from south at 5-10 mph. Warm, sunny.

Operation Name: gINT Sample
 Method of Drilling: Hollow Stem Auger
 Date Drilled: 1/10/02
 Drilled By: I. Core
 Logged By: A. Bore
 Township: Northwestern
 County: Highland
 Quadrangle: West Minster
 Laboratory: XYZ Labs
 Latitude: 41° 20' 15.2" Longitude: 77° 32' 42.8"
 Grid Coordinates: N 12345 E 54321 UTM Zone: ABC

Depth	Thick-ness	Scale	Graphic Log	Lithologic Description: rock type, weathering, color, fossils, carbonate minerals concentrations, pyrite, etc.	Water Conditions	Overburden Analysis Logs					
						Munsell Color Code	OBA Sample No.	Log Interval	% Total Sulfur	Fizz Rating	NP
0.0	10.0	10		Brown Sandy Clay (CL), medium stiff, moist, with occasional gravels	Dry to 3 feet						
10.0	10.0	10		Dark Gray Silty Sand (SM), medium dense to dense, moist to wet	Wet Seepage Saturated	10YB6	100	10 - 12	80	MODERATE	6.5
20.0	10.0	20		Upper Freeport							
30.0	10.0	30		Blue-Gray Gravelly Sand (SP), very dense, saturated							
40.0	5.0	40		Lower Freeport							
45.0	15.0	50		Brown Sandstone closely space fractures, moderately hard, moderately strong, highly weathered							
60.0	5.0	60		Upper Kittanning							
65.0				Brown Sandstone							

