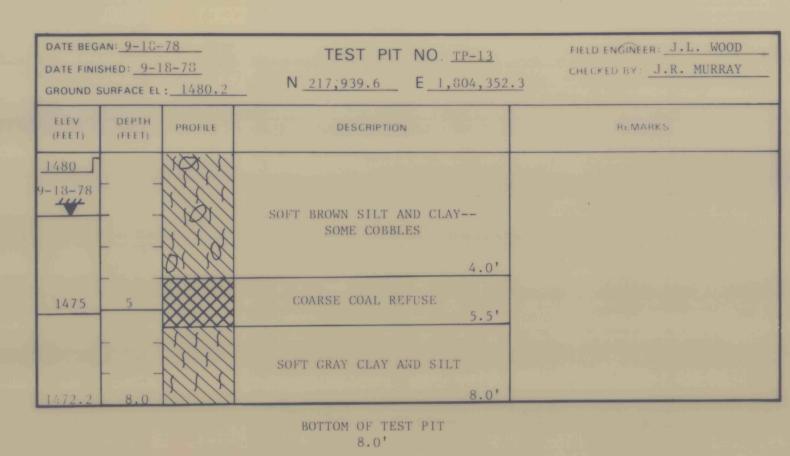
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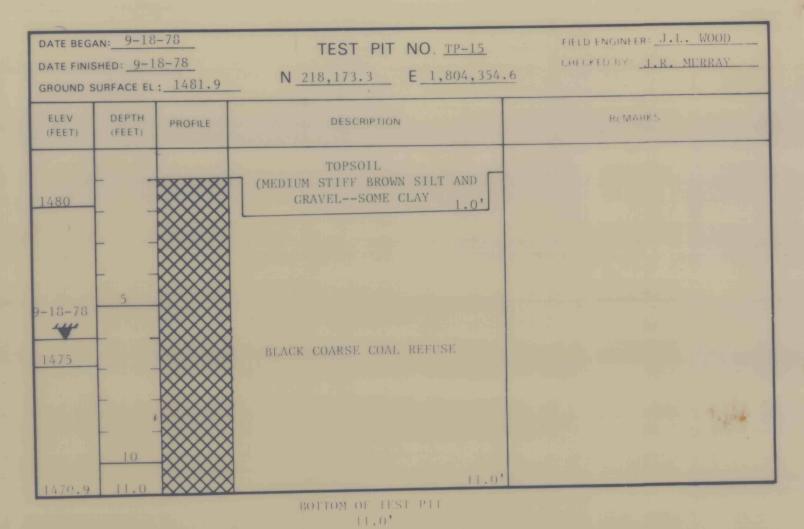
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359

-87



DATE FINISHED: 9-18-78 GROUND SURFACE EL: 1476.6			TEST PIT NO. <u>TP-14</u> N <u>218,013.1</u> E <u>1,804,397</u>	CHECKED BY: J.R. MURRAY	
ELEV (FEET)	DEPTH (FEET)	PROFILE	DESCRIPTION	REMARKS	
1475			BLACK AND ORANGE COARSE COAL REFUSESOME YELLOW-BROWN SILT AND CLAY 2.0'		
		J. J	SOFT GRAY CLAY AND SILT		
1471.6	5.0	XXX	5.01		



P INDICATES PITCHER BARREL SAMPLER

2" O.D. SPLIT BARREL SAMPLE NUMBER

75/0.5' PENETRATION REFUSAL RESISTANCE AND

12-10-75 GROUND WATER LEVEL AND DATE

FRACTIONAL INCREMENT DRIVEN IN FEET

U.S.C.S. UNIFIED SOIL CLASSIFICATION SYSTEM (CAPITAL LETTERS

BLACK COARSE COAL REFUSE

BOTTOM OF TEST PIT

SEDIMENTARY ROCKS OVERBURDEN: Glacial till Limestone Crystalline Limestone Organic Material Salt Conglomerate

METAMORPHIC & MISCELLANEOUS IGNEOUS ROCKS: Schistose Or Gneissoid Granite Granite Granite Gneiss Quartzite Approximate Existing Ground Surface -111-111 Approximate Top Of Rock

Bedded Tuff

INDICATE LAB TEST CLASSIFICATION, LOWER CASE LETTERS INDICATE VISUAL FIELD CLASSIFICATION) -SAMPLE NUMBER 3" UNDISTURBED SAMPLE (SHELBY TUBE) -RECOVERY INCHES -PLASTIC LIMIT (PL) ATTERBERG LIMITS -LIQUID LIMIT (LL) - RQD (ROCK QUALITY DESIGNATION - PERCENT) (LENGTH OF NUMBER OF PIECES GREATER THAN 4 INCHES DIVIDED BY THE LENGTH OF THE CORE RUN) -INDICATES PERCENT OF CORE RECOVERED (LENGTH OF CORE RECOVERED DIVIDED BY LENGTH OF CORE RUN) DRILLING FLUID LOSS _____% DRILLING FLUID REGAINED ____ %

TRACE - INDICATES PRESENCE OF LESS THAN 5% OF SUBJECT MATERIAL BY WEIGHT.

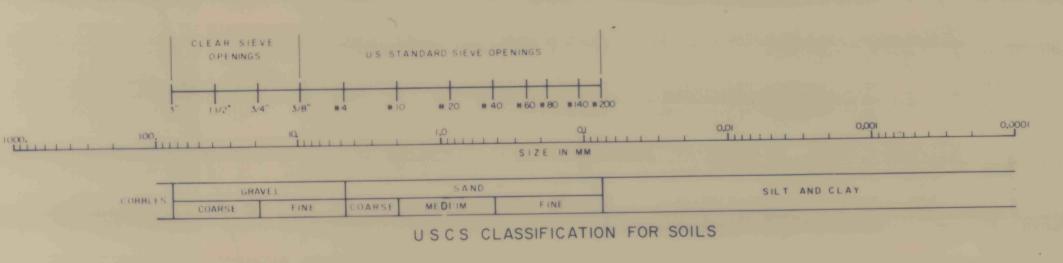
AND - INDICATES PRESENCE OF 30 TO 50% OF SUBJECT MATERIAL BY WEIGHT.

SOME - INDICATES PRESENCE OF 5 TO 30% OF SUBJECT MATERIAL BY WEIGHT.

CONSISTENCY OF COHESIVE SOILS UNCONFINED COMPRESSIVE CONSISTENCY STRENGTH TONS PER SQUARE FOOT LESS THAN 0 25 VERY SOFT 0.25 TO 0 50 SOFT 0.50 TO 10 MEDIUM STI 10 TO 20 STIFF 20TO 40 VERY STIFF MORE THAN 4 0

DENSITY OF GRANULAR SOILS							
DESIGNATION	BLOWS PER FOOT						
VERY LOOSE	0-4						
LOOSE	5-10						
MEDIUM DENSE	11-30						
DENSE	31-50						
VERY DENSE	OVER 50						

STANDARD PENETRATION RESISTANCE IS THE NUMBER OF BLOWS REQUIRED TO DRIVE A 2 INCH O.D. SPLIT BARREL SAMPLER 12 INCHES USING A 140 POUND HAMMER FALLING FREELY THROUGH 30 INCHES. THE SAMPLER WAS DRIVEN 18 INCHES AND THE NUMBER OF BLOWS RECORDED FOR EACH 6 INCH INTERVAL. THE RESISTANCE TO PENETRATION IS INDICATED ON THE DRAWING AS BLOWS PER FOOT.



									and the same of th		-
BOULDER	COBBIT	PEBBLE	GRANGE	VERY DARSE SAND	INAL E	ME DIUM SAND	FINE	VERY FINE SAND	SILT	CLAY	PARTICLES
BOUL JER CONGLOMERATE	COBBLE CONGLOME RATE	DERRIE CONGLOMERATE	GRANULF COMMENTAL FRATE	VERY COARSE SANDSTONE	COARSE	ME DIUM SANDSTONE	SANDSTONE	VERY FINE SANDSTONE	SILTSTONE	CLAYSTONE AND SHALE	CONSOLIDATED

WENTWORTH SCALE FOR ROCK

TERMS US	ED TO DESCRIBE THE RELATIVE DEGREES OF ROCK CORE HARDNESS			
DESCRIPTIVE TERMS	DEFINING CHARACTERISTICS			
VERY SOFT	CRUSHES UNDER PRESSURF OF FINGERS AND / OR THUMB			
SOFT	CRUSHES UNDER PRESSURE OF PRESSED HAMMER			
MEDIUM HARD	BREAKS EASILY UNDER SINGLE HAMMER BLOW BUT WITH CRUMBLY EDGES			
HARD	BREAKS UNDER ONE OR TWO STRONG HAMMER BLOWS BUT WITH RESISTANT SHARP EDGES			
VERY HARD	BREAKS UNDER SEVERAL STRONG HAMMER BLOWS BUT WITH VERY RESISTANT SHARP EDGES AND MAY SPALL LEAVING CONCHOIDAL FRACTURES			

THE SPACING OF THE DISCONTINUITIES IN THE ROCK MAY BE DESCRIBED

DESCRIPTIVE TERMS	SPACING
VERY BROKEN	LESS THAN 1 IN
BROKEN	1 IN TO 3 IN
SLIGHTLY BROKEN	3 IN TO 6 IN
MASSIVE	6 IN AND GREATER

SUBSURFACE DESCRIPTIONS SHOWN IN PARENTHESES () INDICATE CLASSIFICATION FROM WASH SOIL RETAINED ON DRILL TOOLS OR ACTION OF DRILL TOOLS DURING ADVANCEMENT OF BORING

Limestone Containing
Nodules Of Chert Or Flint

Symbols to be used for designation of subsurface materials on all boring logs and subsurface sections

TERMS USED TO DESCRIBE BEDDING THICKNESS					
VERY THICKLY BEDDED	THICKER THAN 1 m				
THICKLY BEDDED	30-100 cm				
MEDIUM BEDDED	10-30 cm				
THINLY BEDDED	3-10 cm				
VERY THINLY BEDDED	1-3 cm				
THICKLY LAMINATED	0.3-) cm				
THINLY LAMINATED	THINNER THAN 0.3 cm				

THE BORING LOGS AND RELATED INFORMATION DEPICT SUBSURFACE CONDITIONS ONLY AT THE SPECIFIC LOCATIONS AND DATES INDICATED. SOIL CONDITIONS AND WATER LEVELS AT OTHER LOCATIONS MAY DIFFER FROM CONDITIONS OCCURRING AT THESE BORING LOCATIONS. ALSO THE PASSAGE OF TIME MAY RESULT IN A CHANGE IN THE CONDITIONS AT THESE BORING LOCATIONS.

THE TEST PIT LOGS AND RELATED INFORMATION DEPICT SUBSURFACE CONDITIONS ONLY AT THE SPECIFIC LOCATIONS AND DATES INDICATED. SOIL CONDITIONS AND WATER LEVELS AT OTHER LOCATIONS MAY DIFFER FROM CONDITIONS OCCURRING AT THESE TEST PIT LOCATIONS. ALSO THE PASSAGE OF TIME MAY RESULT IN A CHANGE IN THE CONDITIONS AT THESE TEST PIT LOCATIONS

NOTES:

I. FOR PLAN AND LOCATION OF BORINGS AND TEST PITS SEE DWG. 78-359-E2.

FIGURE NO. SHEET NO. DRAWING NO. 78-359-E8

TEST PITS TP-12 THROUGH TP-16 AND GENERAL NOTES AND LEGEND

> BETHLEHEM MINE No. 101 CENTURY, WEST VIRGINIA PREPARED FOR

BETHLEHEM MINES CORPORATION BRIDGEPORT, WEST VIRGINIA

IDAPPOLONIA