Strat Well PM-21

Gulf Pittsburg-Midway

HOLE NO. _____

DEPARTMENT OF THE ARMY
DIVISION _____
INSTALLATION _____

DRILLING LOG

1. PROJECT: NE NE NW | SHEET OF
2. LOCATION (Coordinates or Station): NE NE NW 13/32S/22E
3. DRILLING AGENCY: P+M Coal Co. (Gulf Minerals)
4. HOLE NO. (As shown on drawing title and file No.): P+M #21
5. NAME OF DRILLER
6. DIRECTION OF HOLE: ☐ VERTICAL ☐ INCLINED; DEGREES WITH VERTICAL
7. THICKNESS OF OVERBURDEN
8. DEPTH DRILLED INTO ROCK
9. TOTAL DEPTH OF HOLE
10. SIZE AND TYPE OF BIT
11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
12. MANUFACTURER'S DESIGNATION OF DRILL
13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
14. TOTAL NO. CORE BOXES
15. ELEV. GROUND WATER
16. DATE HOLE: STARTED / COMPLETED
17. ELEV. TOP OF HOLE: 880
18. TOTAL CORE RECOVERY FOR BORING (%): 100%
19. SIGNATURE OF INSPECTOR: J. W. Harris

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (drilling time, water loss, depth of weathering, etc., if significant)
	10					
	15		Top of Core		15'	
			Clayshale - dkgy (N3), hard, parallel fracs, micaceous, thin hor. laminae, no fossils found, calcareous concretion 0.6' thick, sharp lower contact.	3.4'	#1	
			Clayshale - ltgy (N7) mod. hard, parallel fracs, micaceous, thin horizontal laminae →	4.0'		
	20					

13-32-22c

EBS FORM 1 JUN 57 1836 (TRANSLUCENT) (EBS 1110-3-1801) PREVIOUS EDITIONS ARE OBSOLETE

PROJECT _____ HOLE NO. _____

HOLE NO. _____

DEPARTMENT OF THE ARMY

DIVISION _____

INSTALLATION _____

DRILLING LOG

1. PROJECT		SHEET OF
2. LOCATION (Coordinates or Station)		
3. DRILLING AGENCY		
4. HOLE NO. (As shown on drawing title and file No.)	5. NAME OF DRILLER	

6. DIRECTION OF HOLE			7. THICKNESS OF OVER-BURDEN	8. DEPTH DRILLED INTO ROCK	9. TOTAL DEPTH OF HOLE
☐ VERTICAL	☐ INCLINED	DEGREES WITH VERTICAL			
10. SIZE AND TYPE OF BIT	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	12. MANUFACTURER'S DESIGNATION OF DRILL			

13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN		14. TOTAL NO. CORE BOXES	15. ELEV. GROUND WATER	16. DATE HOLE	
DISTURBED	UNDISTURBED			STARTED	COMPLETED
17. ELEV. TOP OF HOLE	18. TOTAL CORE RECOVERY FOR BORING (%)	19. SIGNATURE OF INSPECTOR			

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	20		Clayshale – ltgy(N7), nonfossiliferous, brown Fe oxide stains, sharp lower contact, uniform color & comp.	4.0'		
			Coal – blk (N1), banded, mod. bright, sulfate bloom, sharp contacts.	0.8'	# 1	Fleming coal
			Mudstone – ltgy(N7), soft, blocky fracture, silty, micaceous, massive, plant frags, clay ironstone nodules & veins, brown Fe oxide stains, gradational lower contact.		24'	
	25+				# 2	
				9.8		
	30					

HOLE NO. _____

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INSTALLATION _____

DRILLING LOG

1. PROJECT		SHEET OF
2. LOCATION (Coordinates or Station)		
3. DRILLING AGENCY		
4. HOLE NO. (As shown on drawing title and file No.)	5. NAME OF DRILLER	
6. DIRECTION OF HOLE: ☐ VERTICAL ☐ INCLINED; DEGREES WITH VERTICAL	7. THICKNESS OF OVER-BURDEN	8. DEPTH DRILLED INTO ROCK / 9. TOTAL DEPTH OF HOLE
10. SIZE AND TYPE OF BIT	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	12. MANUFACTURER'S DESIGNATION OF DRILL
13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED	14. TOTAL NO. CORE BOXES / 15. ELEV. GROUND WATER	16. DATE HOLE: STARTED / COMPLETED
17. ELEV. TOP OF HOLE	18. TOTAL CORE RECOVERY FOR BORING (%)	19. SIGNATURE OF INSPECTOR

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	30		mudstone- same as above.	9.8'	# 2	
					33'	
			Clayshale- same unit as below		# 3	
	35			13.6'		
	40					

HOLE NO. _____

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1. PROJECT			SHEET OF
2. LOCATION (Coordinates or Station)			
3. DRILLING AGENCY			
4. HOLE NO. (As shown on drawing title and file No.)	5. NAME OF DRILLER		
6. DIRECTION OF HOLE: ☐ VERTICAL ☐ INCLINED; DEGREES WITH VERTICAL	7. THICKNESS OF OVER-BURDEN	8. DEPTH DRILLED INTO ROCK	9. TOTAL DEPTH OF HOLE
10. SIZE AND TYPE OF BIT	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	12. MANUFACTURER'S DESIGNATION OF DRILL	
13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED	14. TOTAL NO. CORE BOXES	15. ELEV. GROUND WATER	16. DATE HOLE: STARTED / COMPLETED
17. ELEV. TOP OF HOLE	18. TOTAL CORE RECOVERY FOR BORING (%)	19. SIGNATURE OF INSPECTOR	

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	40		Clayshale - dkgy(N3) at base to med lt gy (N6) at top, hard, parallel fracs, micaceous, thin horizontal laminae, few brachs + other marine fossil frags at base, calcareous cement at base, clay ironstone bands to 0.1' thick in upper portion, sharp lower contact w/coal.	13.6'	# 3	
	45+	T			45'	
		T			# 4	
		T				
		T				
			Coal, blk, (N1), banded, mod. bright, sulfate bloom, sharp contacts.	2.1'		Mineral coal
			Mudstone - same as below.	4.1'		
	50					

ENG FORM 1836 1 JUN 57 (TRANSLUCENT) (EM 1110-2-1801) PREVIOUS EDITIONS ARE OBSOLETE PROJECT _____ HOLE NO. _____

HOLE NO. _____

DEPARTMENT OF THE ARMY
DIVISION _____
INSTALLATION _____

DRILLING LOG

1. PROJECT | SHEET OF
2. LOCATION (Coordinates or Station)
3. DRILLING AGENCY
4. HOLE NO. (As shown on drawing title and file No.)
5. NAME OF DRILLER
6. DIRECTION OF HOLE: ☐ VERTICAL ☐ INCLINED; DEGREES WITH VERTICAL
7. THICKNESS OF OVER-BURDEN
8. DEPTH DRILLED INTO ROCK
9. TOTAL DEPTH OF HOLE
10. SIZE AND TYPE OF BIT
11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
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13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN: DISTURBED | UNDISTURBED
14. TOTAL NO. CORE BOXES
15. ELEV. GROUND WATER
16. DATE HOLE: STARTED | COMPLETED
17. ELEV. TOP OF HOLE
18. TOTAL CORE RECOVERY FOR BORING (%)
19. SIGNATURE OF INSPECTOR

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	50		Mudstone - dk gy (N3) at base to med ltgy (N6) at top, soft, blocky fracs, silty, micaceous, massive, plant frags, sulfate bloom & brown Fe oxide stains, abruptly gradational lower contact.	4.1'	#4	
			Coal, blk (N1), banded, mod. bright, sharp contacts.	0.8'		Unnamed coal
			Mudstone - ltgy (N7) at base to med gy (N5) at top, soft, blocky fracture, silty, micaceous, massive, plant frags, clay ironstone veins & brown Fe oxide stains, gradational lower contact.	8.6'	55' #5	
	55					
	60					

HOLE NO. _____

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3. DRILLING AGENCY			
4. HOLE NO. (As shown on drawing title and file No.)	5. NAME OF DRILLER		
6. DIRECTION OF HOLE: ☐ VERTICAL ☐ INCLINED; DEGREES WITH VERTICAL	7. THICKNESS OF OVER-BURDEN	8. DEPTH DRILLED INTO ROCK	9. TOTAL DEPTH OF HOLE
10. SIZE AND TYPE OF BIT	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	12. MANUFACTURER'S DESIGNATION OF DRILL	
13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED	14. TOTAL NO. CORE BOXES	15. ELEV. GROUND WATER	16. DATE HOLE: STARTED / COMPLETED
17. ELEV. TOP OF HOLE	18. TOTAL CORE RECOVERY FOR BORING (%)	19. SIGNATURE OF INSPECTOR	

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	60		Mudstone - same unit as above.	8.6'		
	65		Mudshale - med lt gy (N6), hard, parallel fracs, silty, micaceous, thin horizontal laminae, no fossils found, abundant sand sized authigenic siderite & clay ironstone veins, gradational lower contact.	5'	#5	
					67'	
			Clayshale - same unit as below.	9.7'	#6	
	70					

HOLE NO. _____

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4. HOLE NO. (As shown on drawing title and file No.)
5. NAME OF DRILLER
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7. THICKNESS OF OVER-BURDEN
8. DEPTH DRILLED INTO ROCK
9. TOTAL DEPTH OF HOLE
10. SIZE AND TYPE OF BIT
11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
12. MANUFACTURER'S DESIGNATION OF DRILL
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14. TOTAL NO. CORE BOXES
15. ELEV. GROUND WATER
16. DATE HOLE: STARTED | COMPLETED
17. ELEV. TOP OF HOLE
18. TOTAL CORE RECOVERY FOR BORING (%)
19. SIGNATURE OF INSPECTOR

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	70		Clayshale - dk gy(N3) at base to med gy(N5) at top, hard, parallel fracs, micaceous, thin horizontal laminae, few brachs, gastropods & crinoid frags at base, Calcareous cement near base, abundant clay ironstone nodules to 0.1' dia, sharp lower contact w/ limestone.	9.7'	#6	
	75+		Argillaceous Limestone - lt gy(N7), hard, wackestone, brachs, crinoids, other fossil frags, massive, sharp lower contact.	0.8'	77'	
			Coal, blk(N1), banded mod. bright, sulfate bloom, sharp contacts.	0.8'	#7	Scammon coal
			Mudstone - Same unit as below.	5.5'		
	80					

EDG FORM 1 JUN 57 1836 (TRANSLUCENT) (EM 1110-2-1801) PREVIOUS EDITIONS ARE OBSOLETE

PROJECT _____ HOLE NO. _____

HOLE NO. _____

DEPARTMENT OF THE ARMY

DIVISION _____

INSTALLATION _____

DRILLING LOG

1. PROJECT		SHEET OF
2. LOCATION (Coordinates or Station)		
3. DRILLING AGENCY		
4. HOLE NO. (As shown on drawing title and file No.)	5. NAME OF DRILLER	

6. DIRECTION OF HOLE			7. THICKNESS OF OVER-BURDEN	8. DEPTH DRILLED INTO ROCK	9. TOTAL DEPTH OF HOLE
☐ VERTICAL	☐ INCLINED	DEGREES WITH VERTICAL			

10. SIZE AND TYPE OF BIT	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	12. MANUFACTURER'S DESIGNATION OF DRILL

13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN		14. TOTAL NO. CORE BOXES	15. ELEV. GROUND WATER	16. DATE HOLE	
DISTURBED	UNDISTURBED			STARTED	COMPLETED

17. ELEV. TOP OF HOLE	18. TOTAL CORE RECOVERY FOR BORING (%)	19. SIGNATURE OF INSPECTOR

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	80		mudstone - Hgy (N7) at base to medgy (N5) at top, soft, blocky fracs, silty, micaceous, massive, plant frags, abundant irregular siderite veins, brown Fe oxide stains, gradational lower contact.	5.5'	# 7	
	85		mudshale - same unit as below.	15'	88'	
					# 8	
	90					

ENG FORM 1836 1 JUN 57 (TRANSLUCENT) (EM 1110-2-1801) PREVIOUS EDITIONS ARE OBSOLETE

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1. PROJECT		SHEET OF
2. LOCATION (Coordinates or Station)		
3. DRILLING AGENCY		
4. HOLE NO. (As shown on drawing title and file No.)	5. NAME OF DRILLER	
6. DIRECTION OF HOLE: ☐ VERTICAL ☐ INCLINED; DEGREES WITH VERTICAL	7. THICKNESS OF OVER-BURDEN	8. DEPTH DRILLED INTO ROCK / 9. TOTAL DEPTH OF HOLE
10. SIZE AND TYPE OF BIT	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	12. MANUFACTURER'S DESIGNATION OF DRILL
13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED	14. TOTAL NO. CORE BOXES	15. ELEV. GROUND WATER / 16. DATE HOLE: STARTED / COMPLETED
17. ELEV. TOP OF HOLE	18. TOTAL CORE RECOVERY FOR BORING (%)	19. SIGNATURE OF INSPECTOR

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	90		Mudshale - med gy (N5) at base to med lt gy (N6) at top, hard, silty, qtz, micaceous, lenticular bedded w/ thin lenses, abundant plant material, clay ironstone bands to 0.1' thick, few burrows, brown Fe oxide stains gradational lower contact.	15'	#8	
	95					
					98'	
			Clayshale - same unit as below.	19.2'	#9	
	100					

HOLE NO. _____

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4. HOLE NO. (As shown on drawing title and file No.)	5. NAME OF DRILLER	

6. DIRECTION OF HOLE			7. THICKNESS OF OVER-BURDEN	8. DEPTH DRILLED INTO ROCK	9. TOTAL DEPTH OF HOLE
☐ VERTICAL	☐ INCLINED	DEGREES WITH VERTICAL			

10. SIZE AND TYPE OF BIT	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	12. MANUFACTURER'S DESIGNATION OF DRILL

13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN		14. TOTAL NO. CORE BOXES	15. ELEV. GROUND WATER	16. DATE HOLE	
DISTURBED	UNDISTURBED			STARTED	COMPLETED

17. ELEV. TOP OF HOLE	18. TOTAL CORE RECOVERY FOR BORING (%)	19. SIGNATURE OF INSPECTOR

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	100		Clayshale — Same as below.			
	105			19.2'	#9	
					108'	
					#10	
	110					

ENG FORM 1836 1 JUN 57 (TRANSLUCENT) (EM 1110-2-1801) PREVIOUS EDITIONS ARE OBSOLETE

PROJECT _____ HOLE NO. _____

HOLE NO. _____

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INSTALLATION _____

DRILLING LOG

1. PROJECT		SHEET OF
2. LOCATION (Coordinates or Station)		
3. DRILLING AGENCY		
4. HOLE NO. (As shown on drawing title and file No.)	5. NAME OF DRILLER	

6. DIRECTION OF HOLE			7. THICKNESS OF OVER-BURDEN	8. DEPTH DRILLED INTO ROCK	9. TOTAL DEPTH OF HOLE
☐ VERTICAL	☐ INCLINED	DEGREES WITH VERTICAL			
10. SIZE AND TYPE OF BIT	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	12. MANUFACTURER'S DESIGNATION OF DRILL			

13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN		14. TOTAL NO. CORE BOXES	15. ELEV. GROUND WATER	16. DATE HOLE	
DISTURBED	UNDISTURBED			STARTED	COMPLETED
17. ELEV. TOP OF HOLE	18. TOTAL CORE RECOVERY FOR BORING (%)	19. SIGNATURE OF INSPECTOR			

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	110		Clayshale – dkgy(N3) at base to med gy N5 ↑, hard, parallel fracs, micaceous, thin horizontal laminae, few small brachs, crinoid stems & other marine fossil frags near base, calcareous cement, clay ironstone bands to 0.1' thick in upper portion, sharp lower contact w/coal.	19.2'	# 10	
	115	T				
		T				
		T				
		T				
		T			118'	
			Coal – blk(N1), banded, mod. bright, sulfate bloom, sharp contacts.	0.75	# 11	Tebo coal
			Mudstone – same unit as below.	1.9'		
	120					

ENG FORM 1 JUN 57 1836 (TRANSLUCENT) (EM 1110-1-1801) PREVIOUS EDITIONS ARE OBSOLETE

PROJECT _____ HOLE NO. _____

HOLE NO. _____

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DRILLING LOG

1. PROJECT		SHEET OF
2. LOCATION (Coordinates or Station)		
3. DRILLING AGENCY		
4. HOLE NO. (As shown on drawing title and file No.)	5. NAME OF DRILLER	

6. DIRECTION OF HOLE			7. THICKNESS OF OVER-BURDEN	8. DEPTH DRILLED INTO ROCK	9. TOTAL DEPTH OF HOLE
☐ VERTICAL	☐ INCLINED	DEGREES WITH VERTICAL			

10. SIZE AND TYPE OF BIT	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	12. MANUFACTURER'S DESIGNATION OF DRILL

13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN		14. TOTAL NO. CORE BOXES	15. ELEV. GROUND WATER	16. DATE HOLE	
DISTURBED	UNDISTURBED			STARTED	COMPLETED
17. ELEV. TOP OF HOLE	18. TOTAL CORE RECOVERY FOR BORING (%)	19. SIGNATURE OF INSPECTOR			

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	120		Mudstone- med ltgy(N6) - ltgy(N7), soft, crumbled, blocky fracture, silty, micaceous, massive, plant + root frags, brown Fe oxide stains, sharp lower contact w/ coal.	7.9'	# 11	
	125				127'	
			Coal, blk(N1), banded, mod. bright, sharp contacts.	0.6'	# 12	Tebo "B" coal
			Mudstone - ltgy (N7), soft, blocky fracs, silty, micaceous, qtz, massive, plant frags, sand sized auth. siderite xtals, brown Fe oxide stain, gradational lower cont.	3.5'		
	130					

ENG FORM 1836 (TRANSLUCENT) 1 JUN 57 (EM 1110-2-1801) PREVIOUS EDITIONS ARE OBSOLETE

PROJECT _____ HOLE NO. _____

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DRILLING LOG

1. PROJECT		SHEET OF
2. LOCATION (Coordinates or Station)		
3. DRILLING AGENCY		
4. HOLE NO. (As shown on drawing title and file No.)	5. NAME OF DRILLER	
6. DIRECTION OF HOLE: ☐ VERTICAL ☐ INCLINED; DEGREES WITH VERTICAL	7. THICKNESS OF OVERBURDEN	8. DEPTH DRILLED INTO ROCK / 9. TOTAL DEPTH OF HOLE
10. SIZE AND TYPE OF BIT	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	12. MANUFACTURER'S DESIGNATION OF DRILL
13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED	14. TOTAL NO. CORE BOXES	15. ELEV. GROUND WATER / 16. DATE HOLE: STARTED / COMPLETED
17. ELEV. TOP OF HOLE	18. TOTAL CORE RECOVERY FOR BORING (%)	19. SIGNATURE OF INSPECTOR

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (drilling time, water loss, depth of weathering, etc., if significant)
	130		Mudstone – same unit as above.	3.5'		
			Clay shale – dk gy (N3) hard, brittle, parallel fracs, micaceous, thin horizontal laminae, nonfossiliferous, calcareous nodules to 0.075' thick, calcareous cement near base, clay ironstone bands to 0.1' thick, sharp lower contact w/coal.		# 12	
	135			11.5'		
					137'	
					# 13	
	140					

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4. HOLE NO. (As shown on drawing title and file No.)	5. NAME OF DRILLER	

6. DIRECTION OF HOLE			7. THICKNESS OF OVER-BURDEN	8. DEPTH DRILLED INTO ROCK	9. TOTAL DEPTH OF HOLE
☐ VERTICAL	☐ INCLINED	DEGREES WITH VERTICAL			

10. SIZE AND TYPE OF BIT	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	12. MANUFACTURER'S DESIGNATION OF DRILL

13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN		14. TOTAL NO. CORE BOXES	15. ELEV. GROUND WATER	16. DATE HOLE	
DISTURBED	UNDISTURBED			STARTED	COMPLETED

17. ELEV. TOP OF HOLE	18. TOTAL CORE RECOVERY FOR BORING (%)	19. SIGNATURE OF INSPECTOR

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	140		Clayshale – same unit as above.	11.5'		
		T				
		T	Coal blk(N1), banded, mod. bright, sharp cont.	0.2'		Weir-Pittsburg coal
			Mudstone – lt gy(N7) soft, crumbled, blocky fracture silty, qtz, micaceous, massive, plant frags, brown Fe oxide stains, gradational lower contact.	4.2'	# 13	
	145				146'	
					# 14	
			Siltstone – same unit as below	7.1'		Unnamed S.S.
	150					

ENG FORM 1 JUN 57 1836 (TRANSLUCENT) (EM 1110-2-1801) PREVIOUS EDITIONS ARE OBSOLETE

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1. PROJECT		SHEET OF
2. LOCATION (Coordinates or Station)		
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4. HOLE NO. (As shown on drawing title and file No.)	5. NAME OF DRILLER	

6. DIRECTION OF HOLE			7. THICKNESS OF OVER-BURDEN	8. DEPTH DRILLED INTO ROCK	9. TOTAL DEPTH OF HOLE
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10. SIZE AND TYPE OF BIT	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	12. MANUFACTURER'S DESIGNATION OF DRILL			

13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN		14. TOTAL NO. CORE BOXES	15. ELEV. GROUND WATER	16. DATE HOLE	
DISTURBED	UNDISTURBED			STARTED	COMPLETED
17. ELEV. TOP OF HOLE	18. TOTAL CORE RECOVERY FOR BORING (%)	19. SIGNATURE OF INSPECTOR			

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (drilling time, water loss, depth of weathering, etc., if significant)
	150		Siltstone – v lt gy(N8) – lt gy(N7), hard, parallel fracs, qtz, micaceous, wavy bedded, abundant plant frags, abundant sand sized authigenic siderite crystals near base, sharp lower contact	7.1'	#14	
	155		Mudshale – same unit as below.	18.9'	156' #15	
	160					

ENG FORM 1 JUN 57 1836 (TRANSLUCENT) (EM 1110-2-1801) PREVIOUS EDITIONS ARE OBSOLETE

PROJECT _____ HOLE NO. _____

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DRILLING LOG

1. PROJECT				SHEET OF
2. LOCATION (Coordinates or Station)				
3. DRILLING AGENCY				
4. HOLE NO. (As shown on drawing title and file No.)		5. NAME OF DRILLER		
6. DIRECTION OF HOLE: ☐ VERTICAL ☐ INCLINED; DEGREES WITH VERTICAL		7. THICKNESS OF OVER-BURDEN	8. DEPTH DRILLED INTO ROCK	9. TOTAL DEPTH OF HOLE
10. SIZE AND TYPE OF BIT	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	12. MANUFACTURER'S DESIGNATION OF DRILL		
13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED	14. TOTAL NO. CORE BOXES	15. ELEV. GROUND WATER	16. DATE HOLE: STARTED	COMPLETED
17. ELEV. TOP OF HOLE	18. TOTAL CORE RECOVERY FOR BORING (%)	19. SIGNATURE OF INSPECTOR		

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	160		mudshale— med dk gy (N4), hard, parallel fracture, slightly silty, micaceous, thin horizontal laminae with occasional very thin silty lenses, few small plant fragments, more common in silty zones, clay ironstone bands to 0.1' thick, brown Fe oxide stains, sharp lower contact w/coal.	18.9'	# 15	
	165				166'	
					# 16	
	170					

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3. DRILLING AGENCY		
4. HOLE NO. (As shown on drawing title and file No.)	5. NAME OF DRILLER	

6. DIRECTION OF HOLE			7. THICKNESS OF OVER-BURDEN	8. DEPTH DRILLED INTO ROCK	9. TOTAL DEPTH OF HOLE
☐ VERTICAL	☐ INCLINED	DEGREES WITH VERTICAL			
10. SIZE AND TYPE OF BIT	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	12. MANUFACTURER'S DESIGNATION OF DRILL			

13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN		14. TOTAL NO. CORE BOXES	15. ELEV. GROUND WATER	16. DATE HOLE	
DISTURBED	UNDISTURBED			STARTED	COMPLETED
17. ELEV. TOP OF HOLE	18. TOTAL CORE RECOVERY FOR BORING (%)	19. SIGNATURE OF INSPECTOR			

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (drilling time, water loss, depth of weathering, etc., if significant)
	170	T	Mudshale - same unit as above			
		T		18.9'		
			Coal - blk(N1), banded, mod. bright, sulfate bloom, sharp contacts.	0.55'	# 16	Bluejacket "A" coal
	175		Mudstone - med ltgy (N6), soft, blocky fracs, silty, micaceous, massive, plant frags, irregular clay ironstone nodules, gradational lower contact.	2.0'		
			Clayshale - dkgy(N3), hard, brittle, parallel fracture, micaceous, thin horizontal laminae, few small brachs + other marine fossil frags at base, calcareous cement at base, clay ironstone bands to 0.1' thick near top, sharp lower contact w/coal.	5.4'	176' # 17	
	180					

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10. SIZE AND TYPE OF BIT	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	12. MANUFACTURER'S DESIGNATION OF DRILL		
13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED	14. TOTAL NO. CORE BOXES	15. ELEV. GROUND WATER	16. DATE HOLE: STARTED	COMPLETED
17. ELEV. TOP OF HOLE	18. TOTAL CORE RECOVERY FOR BORING (%)	19. SIGNATURE OF INSPECTOR		

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	180		Claystone - same unit as above.	5.4'		
			Coal, blk (N1), banded mod. bright, sulfate bloom, sharp contacts	0.4'		Bluejacket "B" coals
			Mudstone - med gy (N5), soft, blocky fracs, silty, micaceous, massive, abundant plant frags, brown Fe oxide stain at base, gradational lower contact.	2.2'		
			Siltstone - med lt gy (N6), mottled, hard, blocky fracs, qtz, micaceous comp, abundant mud matrix, wavy bedded at base to massive at top, few small plant frags, some zones burrowed, abundant sand sized authigenic siderite crystals, gradational lower contact.		# 17	
	185				186'	
				10.1'	# 18	Upper Bluejacket S.S.
	190					

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4. HOLE NO. (As shown on drawing title and file No.)	5. NAME OF DRILLER		
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10. SIZE AND TYPE OF BIT	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	12. MANUFACTURER'S DESIGNATION OF DRILL	
13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED	14. TOTAL NO. CORE BOXES	15. ELEV. GROUND WATER	16. DATE HOLE: STARTED / COMPLETED
17. ELEV. TOP OF HOLE	18. TOTAL CORE RECOVERY FOR BORING (%)	19. SIGNATURE OF INSPECTOR	

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	190		Siltstone - same unit as above.	10.1'		
	195		Sandstone - v lt gy (N8), very fine - fine gr, qtz, micaceous comp, flaser bedded at base, rippled at top, few small plant frags, modi oil stn at base, sand sized auth. siderite, grad. lower contact.	2.4'	#18	Upper Bluejacket S.S.
					196'	
			Siltstone - alternating v lt gy (N8) & med gy (N5) laminae, hard, parallel fracture, qtz, micaceous comp, lenticular bedded at base to wavy bedded ↑, few small plant frags, some convolute bedding, sand size authigenic siderite crystals, clay ironstone bands →	6.9'	#19	
	200					

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13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED	14. TOTAL NO. CORE BOXES	15. ELEV. GROUND WATER	16. DATE HOLE: STARTED / COMPLETED
17. ELEV. TOP OF HOLE	18. TOTAL CORE RECOVERY FOR BORING (%)	19. SIGNATURE OF INSPECTOR	

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	200		Siltstone (cont), to 0.1' thick, sharp, non scoured, lower contact.	6.9'		
	205		Clayshale - dkgy(N3) hard, brittle, parallel fracs, micaceous, thin horizontal laminae, nonfossiliferous clay ironstone band at top, sharp lower contact w/ limestone.	2.8'	#19	
			Argillaceous Limestone - ltgy(N7), dkgy(N3) mud. matrix, hard, massive, brachs, crinoid stems, sharp lower contact.	0.6'	205 #20	
			Coal - blk, (N1), banded, mod. bright, sulfate bloom.	0.2'		Bluejacket "C" coal
			Mudstone - med ltgy (N6), mod. hard, blocky fracs, silty, micaceous, massive, plant frags, clay ironstone nodules & veins, gradational lower contact.	1.6'		
			Mudshale - same unit as below.	15.6'		
	210					

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3. DRILLING AGENCY				
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10. SIZE AND TYPE OF BIT	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	12. MANUFACTURER'S DESIGNATION OF DRILL		
13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED	14. TOTAL NO. CORE BOXES	15. ELEV. GROUND WATER	16. DATE HOLE: STARTED	COMPLETED
17. ELEV. TOP OF HOLE	18. TOTAL CORE RECOVERY FOR BORING (%)	19. SIGNATURE OF INSPECTOR		

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (drilling time, water loss, depth of weathering, etc., if significant)
	210		Mudshale – med gy(N5) w/ H gy(N7) silty laminae, hard, parallel fracture, silty, qtz, micaceous, lenticular bedded w/ very thin lenses, abundant organic material, some zones bioturbated, clay ironstone bands to 0.15' thick, abundant pyrite nodules in upper 5', less than 1cm dia, sharp lower contact w/coal.		# 20	
	215			15.6'		
					216'	
					# 21	
	220					

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10. SIZE AND TYPE OF BIT	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	12. MANUFACTURER'S DESIGNATION OF DRILL	
13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED	14. TOTAL NO. CORE BOXES	15. ELEV. GROUND WATER	16. DATE HOLE: STARTED / COMPLETED
17. ELEV. TOP OF HOLE	18. TOTAL CORE RECOVERY FOR BORING (%)	19. SIGNATURE OF INSPECTOR	

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	220		Mudshale - same as above.	15.6'		
			Coal, blk (N1), banded mod. bright, sharp cont.	0.2'	# 21	Bluejacket "D" coal
			Mudstone - med gy (N5), soft, crumbled, massive, silty, plant frags, gradational lower contact.	0.8'		
	225		Mudshale - med gy (N5) w H gy (N7) lenses, hard, blocky fracs, qtz, micaceous, lenticular bedded, abundant bioturbation, abundant organic material, clay ironst. nodules to 0.1' thick, gradational lower contact.	2.4'	226' # 22	
			Clayshale - dk gy (N3), hard, parallel fracs, micaceous, thin horizontal laminae, nonfossiliferous, small amount of calcareous cement at base, clay ironstone bands to 0.1' thick, sharp lower contact.	3.4'		
	230					

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4. HOLE NO. (As shown on drawing title and file No.)	5. NAME OF DRILLER	

6. DIRECTION OF HOLE			7. THICKNESS OF OVER-BURDEN	8. DEPTH DRILLED INTO ROCK	9. TOTAL DEPTH OF HOLE
☐ VERTICAL	☐ INCLINED	DEGREES WITH VERTICAL			
10. SIZE AND TYPE OF BIT	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	12. MANUFACTURER'S DESIGNATION OF DRILL			
13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED	14. TOTAL NO. CORE BOXES	15. ELEV. GROUND WATER	16. DATE HOLE: STARTED	COMPLETED	
17. ELEV. TOP OF HOLE	18. TOTAL CORE RECOVERY FOR BORING (%)	19. SIGNATURE OF INSPECTOR			

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	230		Claystone - same as above.	3.4'		Unnamed coal
			Coal blk(N1) smut.	0.1'		
			Siltstone - ltgy(N7) & medgy(N5), hard, blocky fracs, qtz, micaceous comp, wavy bedded at base to massive at top, top burrowed, plant & root frags, abruptly gradational lower contact.	2.7'	# 22	
			Sandstone - v ltgy(N8), hard, blocky fracs, qtz, micaceous comp, massive at base to rippled at top, with muddy layers to 0.2' thick, abundant plant fragments, convolute bedding, brown Fe oxide stains, sharp lower contact.	5.9'	234' # 23	Lower Bluejacket S.S.
	235					
			Interbedded sandstone & shale - same as below.	4.2'		
	240					

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6. DIRECTION OF HOLE			7. THICKNESS OF OVER-BURDEN	8. DEPTH DRILLED INTO ROCK	9. TOTAL DEPTH OF HOLE
☐ VERTICAL	☐ INCLINED	DEGREES WITH VERTICAL			
10. SIZE AND TYPE OF BIT	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	12. MANUFACTURER'S DESIGNATION OF DRILL			

13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN		14. TOTAL NO. CORE BOXES	15. ELEV. GROUND WATER	16. DATE HOLE	
DISTURBED	UNDISTURBED			STARTED	COMPLETED
17. ELEV. TOP OF HOLE	18. TOTAL CORE RECOVERY FOR BORING (%)	19. SIGNATURE OF INSPECTOR			

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	240		Interbedded sandstone & shale - same as below except very fine sand beds, at base to 0.5 thick grade upwards into lenticular bedded shale. sharp lower content. 30-70 sand/shale	4.2'	# 23	
			Interbedded siltstone & shale - alternating V. lt. gy. (N8) & med dk gy (N4) laminae, hard parallel fracture, qtz, micaceous comp, wavy bedded at base to lenticular bedded at top with thick & thin lenses, silty lenses may contain some very fine sand, abundant plant material, brown Fe oxide stains, sharp lower contact. 20-80 sand/shale ratio.	13.4'	244' # 24	
	245					
	250					

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☐ VERTICAL	☐ INCLINED	DEGREES WITH VERTICAL			

10. SIZE AND TYPE OF BIT	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	12. MANUFACTURER'S DESIGNATION OF DRILL

13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN		14. TOTAL NO. CORE BOXES	15. ELEV. GROUND WATER	16. DATE HOLE	
DISTURBED	UNDISTURBED			STARTED	COMPLETED

17. ELEV. TOP OF HOLE	18. TOTAL CORE RECOVERY FOR BORING (%)	19. SIGNATURE OF INSPECTOR

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	250		Interbedded siltstone & shale - same unit as above.			
					# 24 253'	
				13.4'		
					# 25	
	255					
			Sandstone - U lt gy(N8) w few med dk gy(N4) muddy laminae, hard, blocky fracs, fine gr., qtz, micaceous, massive at base w/ mud & coal clasts to rippled & flaser bedded at top, calcareous cement at base, clay ironstone nodules to 0.1' thick, abruptly gradational lower contact.	4.2'		Upper Warner S.S.
	260					

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9. TOTAL DEPTH OF HOLE			
10. SIZE AND TYPE OF BIT	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	12. MANUFACTURER'S DESIGNATION OF DRILL	
13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED	14. TOTAL NO. CORE BOXES	15. ELEV. GROUND WATER	16. DATE HOLE: STARTED / COMPLETED
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ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (drilling time, water loss, depth of weathering, etc., if significant)
	260		Sandstone – v lt gy (N8) w/ med dk gy (N4) laminae, hard, fractures along muddy laminae, qtz, micaceous, wavy bedded at base to flaser bedded at top, rippled, plant debris, some brown Fe oxide stains, small amount of calcareous cement in muddy laminae.	5.2'	# 25 263'	
	265		Interbedded s.s. + shale- alternating med. dk gy (N4) & v. lt gy (N8) laminae, hard, blocky fracs, silty, qtz, micaceous, comp, wavy bedded, sand layers up to 0.05' thick, 60% mud, 40% sand, sand v fine gr., rippled, small amt. plant material, brown Fe oxide stains, gradational lower contact. calcareous cement in muddy laminae	4.0'	# 26	
	270		Interbedded s.s. + shale- alternating v lt gy (N8) & med dk gy (N4) laminae, hard, blocky fracs,	3.1'		

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10. SIZE AND TYPE OF BIT	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	12. MANUFACTURER'S DESIGNATION OF DRILL			

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DISTURBED	UNDISTURBED			STARTED	COMPLETED
17. ELEV. TOP OF HOLE	18. TOTAL CORE RECOVERY FOR BORING (%)	19. SIGNATURE OF INSPECTOR			

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	270		Interbedded S.S & Shale - (cont), approx. 3:1 S.S. - shale ratio, sandstone beds up to 0.6' thick, very fine - fine gr, qtz, micaceous, rippled & flaser bedded, abund. plant debris, convolute bedding & load structures, some authigenic siderite, sharp lower contact.	3.1'	# 26	Calcareous cement in muddy laminae.
			Mudshale - same unit as below, small amount of localized calcareous cement at top.		273' # 27	
	275			28.3'		
	280					

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☐ VERTICAL	☐ INCLINED	DEGREES WITH VERTICAL			

10. SIZE AND TYPE OF BIT	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	12. MANUFACTURER'S DESIGNATION OF DRILL

13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN		14. TOTAL NO. CORE BOXES	15. ELEV. GROUND WATER	16. DATE HOLE	
DISTURBED	UNDISTURBED			STARTED	COMPLETED

17. ELEV. TOP OF HOLE	18. TOTAL CORE RECOVERY FOR BORING (%)	19. SIGNATURE OF INSPECTOR

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (drilling time, water loss, depth of weathering, etc., if significant)
	280		mudshale- med dk gy (N4) w v ltgy (N8) silty laminae, hard, parallel fracture, silty, qtz, micaceous, lenticular bedded, with thin lenses at base & thick lenses at top, silt content increases upwards, abundant plant material, burrowed at base, clay ironstone nodules & veins to 0.05' dia, sharp lower contact w/coal.		# 27	
					283'	
					# 28	
	285			28.3'		
	290					

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10. SIZE AND TYPE OF BIT	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	12. MANUFACTURER'S DESIGNATION OF DRILL			

13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN		14. TOTAL NO. CORE BOXES	15. ELEV. GROUND WATER	16. DATE HOLE	
DISTURBED	UNDISTURBED			STARTED	COMPLETED
17. ELEV. TOP OF HOLE	18. TOTAL CORE RECOVERY FOR BORING (%)	19. SIGNATURE OF INSPECTOR			

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	290		Mud shale - same unit as above.		#28	
					292'	
					#29	
				28.3'		
	295					
	300		Coal, same as below.	1.3'		"A" Coal

ENG FORM 1 JUN 57 1836 (TRANSLUCENT) (EM 1110-2-1801) PREVIOUS EDITIONS ARE OBSOLETE

PROJECT _____ HOLE NO. _____

HOLE NO. _____

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INSTALLATION _____

DRILLING LOG

1. PROJECT | SHEET OF
2. LOCATION (Coordinates or Station)
3. DRILLING AGENCY
4. HOLE NO. (As shown on drawing title and file No.)
5. NAME OF DRILLER
6. DIRECTION OF HOLE: ☐ VERTICAL ☐ INCLINED | DEGREES WITH VERTICAL
7. THICKNESS OF OVERBURDEN
8. DEPTH DRILLED INTO ROCK
9. TOTAL DEPTH OF HOLE
10. SIZE AND TYPE OF BIT
11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
12. MANUFACTURER'S DESIGNATION OF DRILL
13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN: DISTURBED | UNDISTURBED
14. TOTAL NO. CORE BOXES
15. ELEV. GROUND WATER
16. DATE HOLE: STARTED | COMPLETED
17. ELEV. TOP OF HOLE
18. TOTAL CORE RECOVERY FOR BORING (%)
19. SIGNATURE OF INSPECTOR

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	300		Coal blk(N1), banded, mod. bright, broken, sulfate bloom, sharp contacts	1.3'	# 29	"A" coal
			Mudstone - med Hgy(N6) mod. hard, blocky fracs, slightly silty, micaceous, massive, abundant plant & root frags, few sand sized authigenic siderite crystals & veins, gradational lower contact.	3.0'	302'	
					# 30	Drillers skipped from 292' - 312' with no evidence of core loss.
	305		Mudshale - dk gy(N3) hard, parallel fracture, silty, qtz, micaceous, lenticular bedded w/thin lenses, few burrows, few small plant fragments, clay ironstone concretions to 0.1' dia, sharp lower contact	4.0'		Footage markers from 312' to 391' are all 10' off. 312' = 302' 322' = 312' etc.
			Coal - (blk)(N1), banded, mod. bright, sulfate bloom, sharp contacts	0.6'		"B" coal
			Mudstone - lt gy(N7), mod. hard, blocky fracs, silty, micaceous massive, plant fragments →	3.4'		
	310					

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DRILLING LOG

1. PROJECT				SHEET OF
2. LOCATION (Coordinates or Station)				
3. DRILLING AGENCY				
4. HOLE NO. (As shown on drawing title and file No.)		5. NAME OF DRILLER		
6. DIRECTION OF HOLE: ☐ VERTICAL ☐ INCLINED; DEGREES WITH VERTICAL		7. THICKNESS OF OVER-BURDEN	8. DEPTH DRILLED INTO ROCK	9. TOTAL DEPTH OF HOLE
10. SIZE AND TYPE OF BIT	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	12. MANUFACTURER'S DESIGNATION OF DRILL		
13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED	14. TOTAL NO. CORE BOXES	15. ELEV. GROUND WATER	16. DATE HOLE: STARTED	COMPLETED
17. ELEV. TOP OF HOLE	18. TOTAL CORE RECOVERY FOR BORING (%)	19. SIGNATURE OF INSPECTOR		

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	310		Mudstone - (cont) few sand sized authigenic siderite crystals, irregular clay ironstone nodules + veins, gradational lower contact.	3.4'	#30	
					312'	
			Clayshale - same as below.		#31	
	315			16.2'		
	320					

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4. HOLE NO. (As shown on drawing title and file No.)	5. NAME OF DRILLER	

6. DIRECTION OF HOLE			7. THICKNESS OF OVER-BURDEN	8. DEPTH DRILLED INTO ROCK	9. TOTAL DEPTH OF HOLE
☐ VERTICAL	☐ INCLINED	DEGREES WITH VERTICAL			

10. SIZE AND TYPE OF BIT	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	12. MANUFACTURER'S DESIGNATION OF DRILL

13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN		14. TOTAL NO. CORE BOXES	15. ELEV. GROUND WATER	16. DATE HOLE	
DISTURBED	UNDISTURBED			STARTED	COMPLETED

17. ELEV. TOP OF HOLE	18. TOTAL CORE RECOVERY FOR BORING (%)	19. SIGNATURE OF INSPECTOR

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (drilling time, water loss, depth of weathering, etc., if significant)
	320		Clayshale - med dk gy (N4), hard, parallel fracture, micaceous, thin horizontal laminae, few small plant fragments along bedding planes, clay ironstone band 0.1' thick at base, few small pyrite nodules less than 1 cm dia, brown Fe oxide stains, sharp lower contact w/ under clay. upper 1' becomes silty + lenticular bedded w/ thin lenses, & few burrows	16.2'	# 31 322' # 32	
	325					
		XXX				
			Mudstone - med ltgy (N6) soft, blocky fracture, silty, micaceous, massive, plant + root frags, few sand sized authigenic siderite crystals →	3.3'		Underclay but no coal. "C" coal horizon
	330					

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4. HOLE NO. (As shown on drawing title and file No.)	5. NAME OF DRILLER	

6. DIRECTION OF HOLE			7. THICKNESS OF OVER-BURDEN	8. DEPTH DRILLED INTO ROCK	9. TOTAL DEPTH OF HOLE
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10. SIZE AND TYPE OF BIT	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	12. MANUFACTURER'S DESIGNATION OF DRILL

13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN		14. TOTAL NO. CORE BOXES	15. ELEV. GROUND WATER	16. DATE HOLE	
DISTURBED	UNDISTURBED			STARTED	COMPLETED

17. ELEV. TOP OF HOLE	18. TOTAL CORE RECOVERY FOR BORING (%)	19. SIGNATURE OF INSPECTOR

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	330		Mudstone - (cont) irregular clay ironstone band at top. gradational lower contact.	3.3'	# 32	
			Mudshale - dk gy (N3) at base to med lt gy (N6) at top, hard, parallel fracture, silty, qtz, micaceous, thin horizontal laminae, brachiopods crinoid stems & other marine fossils at base, few small plant frags, calcareous cement at base, brown Fe oxide stains, sharp lower contact.	4.9'	332' # 33	
	335		Coal, blk (N1) smut sharp contacts	0.1'		"D" Coal
			Mudstone - lt gy (N7), mod. hard, blocky - concoidal fracture, silty, micaceous, plant & root fragments, few sand sized authigenic siderite crystals, brown Fe oxide stains, gradational lower contact.	4.9'		
	340					

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1. PROJECT	SHEET OF
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3. DRILLING AGENCY	
4. HOLE NO. (As shown on drawing title and file No.)	5. NAME OF DRILLER

6. DIRECTION OF HOLE			7. THICKNESS OF OVER-BURDEN	8. DEPTH DRILLED INTO ROCK	9. TOTAL DEPTH OF HOLE
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10. SIZE AND TYPE OF BIT	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	12. MANUFACTURER'S DESIGNATION OF DRILL

13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN		14. TOTAL NO. CORE BOXES	15. ELEV. GROUND WATER	16. DATE HOLE	
DISTURBED	UNDISTURBED			STARTED	COMPLETED

17. ELEV. TOP OF HOLE	18. TOTAL CORE RECOVERY FOR BORING (%)	19. SIGNATURE OF INSPECTOR

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	340		mudstone - same as above.	4.9'	# 33	
			mudshale - med dk gy (N4), hard, brittle, parallel fracture, silty, qtz, micaceous, thin horizontal laminae at base, to wavy bedded at top, silty zones show abundant bioturbation,		342' # 34	
	345		few pyritized plant fragments, clay ironstone bands to 0.4' thick with calcareous cement in vertical fractures, sharp lower contact w/ coal.	25'		
	350					

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4· HOLE NO. (As shown on drawing title and file No.)		5· NAME OF DRILLER		
6· DIRECTION OF HOLE: ☐ VERTICAL ☐ INCLINED; DEGREES WITH VERTICAL		7· THICKNESS OF OVER-BURDEN	8· DEPTH DRILLED INTO ROCK	9· TOTAL DEPTH OF HOLE
10· SIZE AND TYPE OF BIT	11· DATUM FOR ELEVATION SHOWN (TBM or MSL)	12· MANUFACTURER'S DESIGNATION OF DRILL		
13· TOTAL NO. OF OVERBURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED	14· TOTAL NO. CORE BOXES	15· ELEV. GROUND WATER	16· DATE HOLE: STARTED	COMPLETED
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ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	350		Mudshale- same unit as above.		# 34	
					352'	
					# 35	
				25'		
	355					
	360					

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ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	360		mudshale - same unit as above.		# 35	
					362'	
					# 36	
				25'		
	365					
			Coal, blk (N1), banded mod. bright, sulfate bloom, 0.2' mud parting near base, sharp contacts, some zones crumbled.	1.7'		Riverton coal
			mudstone parting	0.2'		
			Coal - blk (N1), sharp contacts.	0.3'		
			mudstone - med dkgy (N4), massive, plant frags, gradational lower cont.	0.5'		
			Mudshale - same as below.	9.0'		
	376					

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3· DRILLING AGENCY				
4· HOLE NO. (As shown on drawing title and file No.)		5· NAME OF DRILLER		
6· DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED	DEGREES WITH VERTICAL	7· THICKNESS OF OVER-BURDEN	8· DEPTH DRILLED INTO ROCK	9· TOTAL DEPTH OF HOLE
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ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	370		Mudshale - dk gy (N3), hard, parallel fracture, silty, qtz, micaceous, thin horizontal laminae at base, upper 6' lenticular bedded w/ very thin lenses, pyritized plant fragments, pyrite concretions to 0.1' dia, sharp, disconformable lower contact.	9.0'	# 36	
					371'	
					# 37	
	375					
	380		Limestone - H gy (N7), hard, blocky fracs. massive, no fossils found, extensively fractures, mod. oil stains, abundant pyrite crystals, lower contact not observed.	3.0'		Mississippian Limestone

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	380		Limestone - same as above.	3.0'	# 37	Mississippian Limestone
			Bottom of core		38	
	385					
	390					

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