Gulf Pittsburg-Midway Strat Well PM-20

HOLE NO.

DEPARTMENT OF THE ARMY

DIVISION

INSTALLATION

DRILLING LOG

1. PROJECT | SHEET OF

2. LOCATION (Coordinates or Station) SENENE 8-32S-22E

3. DRILLING AGENCY R+M Coal (Gulf Minerals)

4. HOLE NO. (As shown on drawing title and file No.) P+M # 20

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 895

18. TOTAL CORE RECOVERY FOR BORING (%) 100%

19. SIGNATURE OF INSPECTOR John W. Harris

8-32-22e

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	0					3.8 5 73.0 10.5 2.5 89.8
	5		Top of core		6'	
			Limestone - ltgy(N7) hard, wackestone, medium gr. at top to muddy at base, brachs, gradational lower contact	1.5'	# 1	Breezy Hill L.S.
			Mudstone - ltgy(N7) mod. hard, blocky fracs, massive, silty, micaceous, nonfossiliferous, calcareous cement, sharp lower contact.	2.5'		
	10					

ENG FORM 1836 1 JUN 87 (TRANSLUCENT) PREVIOUS EDITIONS ARE OBSOLETE (EM 1110-2-1803)

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)	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)
	10		Siltstone – alternating vltgy (N8) + medgy (N5) laminae, hard, parallel to blocky fracture, qtz, micaceous, abundant mud, massive at base with mud matrix to wavy bedded at top, few small plant frags, burrows, pyrite nodules to 1cm dia, sand sized authigenic siderite crystals, Concentric brown Fe oxide stains around pyrite nodules, gradational lower contact.	10.0'	# 1	Lagonda S.S. Interval
	15				# 2	
	20					

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		Mudshale - med gy (N5) w/ brown mottling, hard, parallel fracture, silty, qtz, micaceous, thin horizontal laminae with occasional thin silty lense, abundant small plant fragments, pyrite nodules less than 0.05' dia, clay ironstone bands less than 0.1' thick, brown Fe oxide stains, few small brachiopods near base, gradational lower contact. remarkably uniform color & composition throughout.		# 2	
	25			73.5'		
					27'	
					# 3	
	30					

HOLE NO. _____

DEPARTMENT OF THE ARMY

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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)
	30		Mudshale - same unit as above.			
					#3	
				73.5'		
	35'				35'	
					#4	
	40					

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)	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		Mudshale - same unit as above.			
	45			73.5'	#4 45'	
	50				#5	

ENG FORM 1836 1 JUN 57 (NSLUCENT) (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)	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)
	50		Mudshale - same unit as above,			
					#5	
				73.5'		
	55				55'	
					#6	
	60					

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: ☐ 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		Mudshale — same unit as above.		#6	
	65+			73.5'	65'	
					#7	
	70					

HOLE NO. _____

DEPARTMENT OF THE ARMY

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DRILLING LOG

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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)
	70		Mudshale - same unit as above.			
					#7	
				73.5'	75'	
	75+				#8	
	80					

ENG FORM 1836 (TRANSLUCENT) 1 JUN 57 (Ext 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		Mudshale- same unit as above			
					#8	
				73.5'		
	85					
					86'	
					#9	
	90					

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

PROJECT _____ HOLE NO. _____

HOLE NO. _____

DEPARTMENT OF THE ARMY
DIVISION _____
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DRILLING LOG

1. PROJECT | SHEET OF
2. LOCATION (Coordinates or Station)
3. DRILLING AGENCY
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5. NAME OF DRILLER
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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

93.5
20.0
73.5

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 - same unit as above.	13.5'	#9	
	95	T T T T T T	Clayshale - dk gy (N3), hard, parallel fracs, micaceous, thin horizontal laminae, abundant marine fossil frags at base, decreasing upwards, calcareous cement, gradational lower contact.	3.8'	96' #10	
			Coal blk (N1), banded, mod. bright, sulfate bloom calcareous cement sharp contacts,	1.4'		One half of coal sampled. Bevier Coal
	100		Mudstone - med gy (N5), soft, blocky fracs, silty micaceous, plant frags,	3.3'		

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: ☐ 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)
	100		Mudstone- (cont) irregular clay ironstone bands less than 0.05' thick, gradational lower contact.	3.3'	# 10	
		T	Clayshale- dk gy (N3) at base to med gy (N5) at top, hard, parallel fracs, micaceous, thin horizontal laminae, abundant brachs and other marine fossil fragS, calcareous cement, brown Fe oxide stains, sharp lower contact, disconformable.		104'	
					# 11	
	105	T		6.2'		
		T				
		T				
		T				
			Limestone- v ltgy (N8) hard, blocky fracs, wackestone, massive, abundant brachs, crinoid stems + other marine fossils, calcareous			Verdigris L.S.
	110					

ENG 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)
	110		**Limestone** – (cont) cement, abruptly gradational lower contact.	3.1'		Verdigris L.S.
			Clayshale – dkgy(N3), hard, parallel fracs, micaceous, thin horizontal laminae, abundant brachs + other marine fossils scattered throughout, calcareous cement, abruptly gradational lower contact.	5.6'	# 11 114' # 12	
	115		**Mudshale** – Hgy(N7), mod. hard, parallel fracs, slightly silty, micaceous, plant frags, thin laminae, sharp lower contact w/ coal.	2.2'		
			Coal blk(N1), banded, mod. bright, sulfate bloom, sharp contacts.	0.8'		Crowberg Coal
	120		mudstone – below	5.3'		

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

PROJECT _____ HOLE NO. _____

HOLE NO. _____

DEPARTMENT OF THE ARMY
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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
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7. THICKNESS OF OVERBURDEN
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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
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), soft, blocky & concoidal fracture, silty, micaceous, massive, abundant plant fragments, clay ironstone bands to 0.3' thick, gradational lower contact.	5.3'	# 12	
	124'					
					# 13	
	125		Fossiliferous clay shale - ltgy (N7) at base to dk gy (N3) at top, hard, abundant brachs, crinoid stems & marine fossils at base decreasing upwards, calcareous cement, sharp lower contact w/ coal.	2.9'		
			Coal, blk (N1), banded, mod. bright, sharp contacts.	1.0'		Fleming coal
			Mudstone - ltgy (N7) soft, blocky fracs, silty, micaceous, massive, plant frags,	1.4'		
	130					

ENG FORM 1836 1 JUN 87 (TRANSLUCENT) (EM 1110-3-1801) PREVIOUS EDITIONS ARE OBSOLETE

PROJECT _____ HOLE NO. _____

HOLE NO. _____

DEPARTMENT OF THE ARMY
DIVISION _____
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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)
	130		mudstone-(cont) clay ironstone nodules gradational lower contact	1.4'		
			Mudshale- med gy(N5), mod. hard, parallel fracture, silty, micaceous, thin horizontal laminae, abundant brachiopods & other marine fossil frags, localized calcareous cement, clay ironstone bands to 0.2' thick, sharp lower contact w/coal,		# 13	
					134'	
					# 14	
	135			11.2		
		T				
		T				
		T				
	140					

HOLE NO. _____

DEPARTMENT OF THE ARMY
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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)
	140	T	Mudshale- same unit as above.	11.2'		
		T				
		T				
			Coal blk(N1), bony, sharp cont.	0.2'		Unnamed coal
			Mudstone - lt gy(N7) soft, massive, plant frags, gradational lower contact	1.1'	#14	
			Mudshale- med dk gy(N4) at base to lt gy(N7) at top, hard, parallel fracture, silty, micaceous, plant fragments, clay ironstone nodules to 0.1' thick, gradational lower contact.	7.0'	144' #15	
	145					
	150					

1

EDG FORM 1 JUN 57 1836 (TRANSLUCENT) 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: ☐ 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)
	150	T	Clayshale - dkgy(N3) hard, parallel fracs, micaceous, thin horizontal laminae, abundant brachiopods crinoid stems & other marine fossil frags, calcareous cement, sharp lower contact w/ coal.	3.3'	# 15	
	155		Coal, blk(N1) banded. mod. bright, white & yellow sulfate bloom, calcareous cement in vertical fracs, sharp contacts.	1.7'	154' # 16	Mineral Coal
			Mudstone - med Hgy (N6), soft, blocky fracture, silty, micaceous, massive, abundant plant fragments, clay ironstone nodules & veins, brown Fe oxide stains, gradational lower contact.	5.0'		
	160					

ENG FORM 1836 (TRANSLUCENT) 1 JUN 57 (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 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)
	160		Mudshale - med dk gy (N4) at base to med lt gy (N6) at top, hard, parallel fracture, silty, qtz, micaceous, thin horizontal laminae at base, lenticular bedded at top w/ thin lenses, few pyritized plant fragments at base, burrows at top, clay ironstone nodules to 0.1' thick, few authigenic siderite veins near top, gradational lower contact.		# 16	
					164'	
					# 17	
	165			13'		abundant lenticular clay ironstone nodules in this interval!
	170					

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

PROJECT _____ HOLE NO. _____

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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)
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)
	170		Mudshale - same unit as above.	13.0'	# 17	
	175	T	Fossiliferous clayshale - dk gy (N3) at base to mid dk gy (N4) at top, hard, parallel fracs, micaceous, thin horizontal laminae, brachiopods, crinoid stems and other scattered marine fossils, calcareous cement, abundant pyritized plant fragments, clay ironstone bands & calcareous nodules, sharp lower contact.	4.4'	174' # 18	
			Coal, blk (N1), banded, mod. bright, calcareous cement in vertical fracs, sharp contacts.	0.9'		Scammon coal
			Mudstone - same unit as below.	4.7'		
	180					

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			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)
	180		Mudstone – med ltgy (N6), soft, blocky fracs, silty, micaceous, massive, plant fragments, clay ironstone nodules & veins, gradational lower contact.	4.7'		
			Mudshale – med gy (N5), hard, parallel fracs, silty, qtz, micaceous, lenticular bedding w/ thin lenses at base to thin horizontal laminae at top, small plant frags, few burrows at base, authigenic siderite crystals, sharp lower contact.	2.8'	# 18 184'	
	185		Sandstone – v ltgy (N8) w med gy (N5) muddy laminae, hard, blocky fracture, very fine – fine grained, qtz, micaceous comp, flaser bedded & rippled at base to massive at top, plant fragments, small clay ironstone nodules at base, sand sized authgenic siderite →	6.8'	# 19	Chelsea S.S.
	190					

HOLE NO. _____

DEPARTMENT OF THE ARMY
DIVISION _____
INSTALLATION _____

DRILLING LOG

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: ☐ 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)
	190		Sandstone – (cont) crystals, gradational lower contact.	6.8'	# 19	Chelsea SS.
			Siltstone – alternating vlt gy (N8) & med gy (N5) laminae, hard, blocky fracs, qtz, micaceous, abundant muddy laminae, wavy bedded at base to flaser bedded at top, abundant plant debris, elongate pyrite nodules less than 1cm long, with concentric brown Fe oxide stains, gradational lower contact.	2.9'	194' # 20	
	195		Mudshale – same unit as below.	14.8'		
	200					

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			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)
	200		Mudshale – med gy (N5) w brown mottling, hard, parallel fracture, silty, qtz, micaceous, thin horizontal laminae at base to lenticular bedded at top, abundant plant fragments, clay ironstone bands to 0.1' thick, pyrite nodules up to 1cm dia., concentric brown Fe oxide stains around pyrite nodules, gradational lower contact,		# 20	
					204	
				14.8'	# 21	
	205					
	210					

ENG FORM 1836 (TRANSLUCENT) 1 JUN 57 (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)
	210		Clayshale- dk gy(N3) at base to med gy (N5) at top, hard, parallel fracture, micaceous, thin horizontal laminae, few scattered marine fossil frags at base, abundant pyritized plant frags in upper part, localized calcareous cement in lower 6', clay ironstone bands to 0.2' thick, pyrite concretions to 0.05' dia, sharp lower contact w/coal.		# 21	
					214'	
				222'		
	215				# 22	
	220					

ENG FORM 1836 1 JUN 57 (INSLUCENT) (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)	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	—	Clayshale - same as above.			
		—			# 22	
	225	—		222'	225'	
		T			# 23	
		T				
		T				
	230	—				

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

PROJECT _____ HOLE NO. _____

HOLE NO. _____

DEPARTMENT OF THE ARMY
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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)
	230	—	Clayshale – same as above	22.2'		Tebo "B" coal
			Coal, blk(N1), banded mod. bright, sulfate bloom, sharp contacts.	1.1'		
			Mudstone – med ltgy(N6), soft, blocky fracs, silty, qtz micaceous, massive, plant frags, abundant brown Fe oxide stains, gradational lower contact.	2.7'	#23	
			Mudshale – dkgy(N3) at base to med gy(N5) at top, hard, parallel fracs, slightly silty, micaceous, thin horizontal laminae, few marine fossil fragments, localized calcareous cement, clay ironstone nodules to 0.1' thick, sharp lower contact.	9.5'	235' #24	
	235	—				
		T				
		—				
		—				
		—				
		—				
		—				
		T				
		—				
		—				
		—				
	240	—				

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)	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)
	240	T	Mudshale - same unit as above	9.5'	# 24	
		T				
		T				
	245		Mudstone - med lt gy(N6), soft, blocky fracs, silty, micaceous, massive, abundant plant fragments, brown Fe oxide stains, gradational lower contact.	3.5'	245' # 25	Underclay but no coal. Weir - Pittsburg horizon
			Interbedded siltstone & sandstone - med lt gy(N6) & v lt gy(N8) hard, parallel fracs, qtz, micaceous, sand layers of v fine sand up to 0.2' thick, rippled, wavy bedded, small plant fragments, sand sized authigenic	4.9'		Unnamed S.S.
	250					

ENG 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)
	250		Interbedded sandstone & siltstone - siderite crystals, sharp lower contact.	4.9'	# 25	
			Mudshale - same unit as below.			
	255+			11.1'	256'	
					# 26	
	260					

ENG FORM 1836 1 JUN 87 (TRANSCENT) (EM 1110-2-1301) 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)	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)
	260		Mudshale – dkgy (N3) at base to medgy (N5) at top, silty, micaceous, lenticular bedded w/ thin lenses, pyritized plant frags, some bioturbation, clay ironstone bands to 0.2' thick, gradational lower contact.	11.1'		
	265		Clayshale – dkgy (N3), hard, brittle, parallel fracs, micaceous, thin horizontal laminae, nonfossiliferous, clay ironstone bands to 0.1' thick, sharp lower contact w/ coal.	10.8'	#26 265 #27	
	270					

EMG FORM 1836 1 JUN 57 (RECENT) (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 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)
	270		Clayshale - same as above.	10.8'		
			Coal, blk (N1), banded, med. bright, sharp contacts.	0.3'		Bluejacket "A" coal
			Mudstone - med gy (N5), soft, blocky fracs, silty, micaceous, massive, plant frags, clay ironstone nodules to 0.1' dia, gradational lower contact	1.3'	# 27	
	275		Clayshale - dk gy (N3), hard, brittle, parallel fracs, micaceous, thin horizontal laminae, abundant crinoid stems, brachs and other marine fossil frags at base, calcareous cement, clay ironstone bands to 0.1' thickness top, sharp lower contact.	4.0'	27½' # 28	
			Mudstone - med lt gy (N6) at base to med dk gy (N4) at top, soft, blocky fracs, silty, micaceous, massive, plant frags, brown Fe oxide stains, gradational lower contact.	2.0'		Underclay but no coal! Bluejacket "B" horizon
	280					

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)
	280		Siltstone - med ltgy (N6), hard, blocky fracs, qtz, micaceous, abundant mud matrix, massive, few small plant frags, abundant bioturbation, abundant sand sized authigenic siderite crystals, abruptly gradational lower contact.		# 28	
				9.0'		
	285				286'	
					# 29	
			Interbedded sandstone & siltstone - ltgy (N8) to med ltgy (N6) laminae, hard, blocky fracs, very fine rippled sand beds up to 0.1' thick, qtz, micaceous, (cont).	1.9'		
	290					

Upper Bluejacket S.S.

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

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)	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)
	290		~~Interbedded sandstone & siltstone~~ cont. non-fossiliferous, authigenic siderite, gradational lower contact.	1.9'		
			Sandstone - v ltgy (N8) w/ med. ltgy (N6) muddy laminae, hard, blocky fracs, very fine - fine grained, qtz, micaceous, abundant mud matrix & laminae, flaser bedded w very thin flasers, rippled, abundant sand sized authigenic siderite crystals, dead oil stains, gradational lower contact.	4.5'	# 29	Upper Bluejacket S.S.
	295		Siltstone - alternating v ltgy (N8) & med gy (N5) wavy laminae, hard, blocky fracs, qtz, micaceous abundant mud, wavy bedded, nonfossiliferous, brown Fe oxide stains, sharp, nonscoured lower contact.	2.2'	296' # 30	
			Clayshale - dk gy (N3), hard, parallel fracs, micaceous, thin horizontal laminae, nonfossiliferous, clay ironstone bands, sharp lower contact.	1.9'		
			Argillaceous Limestone - lt gy (N7), hard, massive, brachs & other marine fossils, sharp lower contact.	0.9'		Swell?
	300					

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)	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		Argillaceous Limestone - same as above.	0.9'		Bluejacket "C" coal
			Coal, blk (N1) sharp contacts.	0.3'		
			Mudstone - med Hgy (N6), mod. hard, blocky fracs, silty, micaceous, massive, plant fragments, sand sized authigenic siderite crystals	3.3'	# 30	
	305		Mudshale - same unit as below.			
					306	
				14.1'	# 31	
	310					

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 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)
	310		Mudshale - med dk gy(N4) w/ vltgy (N8) silty laminae, hord, parallel fracs, silty, micaceous, lenticular bedded w/ thin lenses, abundant plant fragments, extensive biotubation, clay ironstone bands to 0.2' thick, sharp lower contact.	11.1'	# 31	
	315				316'	
					# 32	
			Coal, blk (N1), banded med. bright, sharp contacts.	0.3'		Bluejacket "D" coal
			Mudstone - same unit as below.	7.7'		
	324					

ENG FORM 1 JUN 57 1836 (TRANS VT) (EM 1110-2-1803) 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)	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)
	320		Mudstone - med lt gy (N6), soft, blocky fracture, silty, micaceous, massive, plant fragments, abundant clay ironstone veins, gradational lower contact.	7.7'	# 32	
	325				326'	
			Mudshale - same unit as below.	15.3'	# 33	
	330					

ENG FORM 1836 1 JUN 57 (TRANSMITTAL) (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)	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)
	330		Mudshale – med lt gy(N6), hard, parallel fracs, silty, micaceous, thin horizontal laminae, occasional very thin silty lense, few small plant fragments, sand sized authigenic siderite crystals, sharp lower contact w/underclay.		# 33	
				15.3'		
	335				336'	
					# 34	
	340					

ENG FORM 1 JUN 57 1836 (TRANSLUCENT) (EM 1110-1-1801) 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)	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)
	340		Mudshale - same unit as above.	15.3'		Drywood horizon Underclay but no coal.
			Mudstone - med gy (N5) at base to ltgy(N7) at top, soft, blocky - concoidal fracture, silty, micaceous, massive, abundant plant fragments, few sand sized authigenic siderite crystals, gradational lower contact.	4.7'	# 34	
	345+				346'	
			Clayshale - dk gy (N3), hard, brittle, parallel fracs, micaceous, thin horizontal laminae, nonfossiliferous, thin clay ironstone nodules less than 0.1' thick, sharp lower contact.	6.5'	# 35	
	350					

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)
	350		Clayshale - same unit as above.	6.5'	# 35	
			Coal, blk (N1), banded, mod. bright, sharp contacts.	0.6'		Rowe coal
			Mudstone - med Hg (N6) soft, blocky fracs, silty, micaceous, massive, plant frags, sand sized authigenic siderite xtals, gradational lower contact.	2.0'		
	355+		Mudshale - med dk gy (N4) at base to lt gy (N7) upwards, hard, parallel fracs, silty, qtz, micaceous, wavy to lenticular bedded, nonfossiliferous, few irregular clay ironstone nodules & veins, gradational lower contact.	6.0'	356' # 36	
	360					

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			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)
	360		Mudshale – same unit as above.	6.0'		
			Clayshale – dk gy(N3), hard, brittle, parallel fracture, micaceous, thin horizontal laminae, nonfossiliferous, clay ironstone bands to 0.1' thick near top, sharp lower contact w/ underclay.		# 36	
	365+			10.4'		
					366'	
					# 37	
	370					

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)
	370		Clay shale - same unit as above,	10.4'	# 37	Underclay but no coal, Neutral horizon
			mudstone - ltgy(N7), soft - mod. hard, blocky - concoidal fracture, silty, micaceous, massive, plant frags, clay ironstone nodules & veins, gradational lower contact.	1.4'		
	375		mudshale - med dk gy(N4) at base to med gy(N5) at top, few v ltgy(N8) silty laminae, hard, parallel fracture, silty, qtz, micaceous, thin horizontal laminae at base to wavy & lenticular bedded at top, 4.0 zone from 391'-395' contains crinoids, bracks, other fossil frags, biotur bation and calcareous cement, few clay ironstone bands & nodules to 0.1' dia, plant fragments, sharp lower contact w/coal.	29.6'	375' # 38	
	380					

ENG 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: ☐ 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)
	380		Mudshale same unit as below.			
					# 38	
				29.6'		
	385		Wavy to lenticular bedded, 381'-390'		385	
					# 39	
	390					

ENG FORM 1836 1 JUN 57 (SUPERSEDES PREVIOUS EDITIONS ARE OBSOLETE) (EM 1110-3-1801)

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)
	390		Mudshale — same unit as above			
		T				
		ST			# 39	
		TS	391 - 395' Fossiliferous & bioturbated, calcareous cement.			
		ST				
		TS				
		IS				
		TS		29.6'		
	395	T			395'	
					# 40	
	400					

ENG 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: ☐ 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)
	400		Mudshale - same unit as above	29.6'		
			Coal blk(N1), hard, banded, mod. bright, sulfate bloom, sharp contacts.	1.4'	# 40	"A" coal
			Mudstone - med Hqy(N6), soft, blocky fracs, silty, micaceous, massive, abundant plant frags, gradational lower contact,	2.0'	404' # 41	
	405		Mudshale - med dkgy(N4) at base to med gy(N5) at top, hard, parallel fracs, silty, qtz, micaceous, lenticular bedded w/thick and thin lenses, few pyritized plant fossils, clay ironstone nodules to 0.1' thick, sharp lower contact w/coal,	5.1'		
	410					

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)
	410		mudshale - same as above	5.1'		
			Coal, blk(N1) banded, mod. bright, sulfate, bloom, upper 0.1' bony, sharp contacts.	0.7'		"B" coal
			Mudstone - med Hgy (N6), mod hard, blocky fracs, silty, micaceous, massive,	3.0'	#41	
					#44'	
			Mudshale - med dkgy(N4) at base to med Hgy(N6) at top, hard, parallel fracs, silty, lenticular bedded w/thin lenses, few plant frags, brown Fe oxide stains at top, gradational lowercontact,	2.0'	#42	
	415+	T	Clayshale - same as below,			
		T		12.4'		
		T				
	420					

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

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)
	420	T	Clayshale- dk gy (N3), hard, brittle, parallel fracs, micaceous, thin horizontal laminae, few pyritized plant fragments, few clay ironstone bands less than 1cm thick, localized calcareous cement, small pyrite nodules, sharp lower contact w/coal,		# 42	
		T				
		T			423'	
		T		12.4'	# 43	
	426	T				
		T				
			Coal- blk (N1), banded, mod. bright, sharp contacts,	0.3'		"C" coal
			Mudstone- med ltgy (N6), soft - mod. hard, blocky fracs, silty, micaceous, massive,	3.7'		
	430					

ENG FORM 1836 1 JUN 57 (SUCCENT) (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 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)
	430		Mudstone - (cont) abundant plant frags, few sand sized authigenic siderite crystals & veins, gradational lower contact.	3.7'	# 43	
	433'		Mudshale - dk gy (N3), w/ v lt gy (N8) silty laminae & fossil frags, hard, parallel fracs, silty, qtz, micaceous, lenticular bedded w/ very thin lenses, scattered crinoid stems and small brachiopods, calcareous cement, few authigenic siderite crystals & veins near top, sharp lower contact w/ coal,	6.6'	# 44	
	435	T				
		T				
		T				
		T				
		T				
		T				
			Coal, blk (N1), banded, mod bright, sulfate bloom, sharp contacts,	0.3'		"D" coal
			mudstone - same unit as below.	3.7		
	440					

ENG 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

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	440		mudstone - ltgy(N7) at base to med gy(N5) at top, mod. hard - soft, blocky fracs, silty, micaceous, massive, abundant plant frags, clay ironstone bands & veins, gradational lower contact.	3.7'	# 44	
					443'	
			Mudshale - same unit as below.		# 45	
	445			2.5'		
	450					

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	450		Mudshale – med dk gy (N4) at base to med H gy (N6) at top, hard, brittle, parallel fracture, silty, qtz, micaceous, thin horizontal laminae at base to lenticular or wavy bedded at top, but silty zones extensively bioturbated & original bedding destroyed, few small plant frags, convolute bedding, clay ironstone bands to 0.3' thick, brown Fe oxide stains, sharp lower contact w/coal.		# 45	
					453'	
				25'	# 46	
	455+					
	460					

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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)
	460		Mud shale – same unit as above.		# 46	
	C.I.				462'	
					# 47	
				25'		
	465					
			Coal, blk (N1), banded, mod. bright, sulfate bloom in lower part, some calcareous cement, sharp contacts.	1.8'		Total coal thickness 2.1', 0.3' clay parting at 0.3' above base. Riverton Coal
	470		Mudstone – med gy (N5), soft.	0.3		

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

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	470		mudstone - parting	0.3'		Riverton coal
			Coal - crumbled by sulfate bloom,	0.3'		
			mudstone - med dkgy (N4), mod. hard, blocky fracs, massive, plant debris, gradational lower contact	0.9'	# 47	
			Mudshale - same unit as below.		472'	
					# 48	
				12.9'		
	475+					
	480					

EBG FORM 1 JUN 57 1838 (NSLUCENT) (PM 1110-2-1801) PREVIOUS EDITIONS ARE OBSOLETE

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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)
	480		Mudshale – dk gy (N3), hard, parallel fracs, slightly silty, micaceous, thin horizontal laminae at base to lenticular bedded w/ thin lenses at top, abundant pyritized wood & plant frags, few small burrows, horizontal, pyrite concretions to 0.2' dia, few microfaults, sharp, nonconformable lower contact.	12.9'	# 48 492' # 49	
	485+		Limestone – v ltgy (N8), hard, blocky fracs, massive, wackestone, brachiopods & other marine fossils, fractured at top, chert nodules to 0.2' dia, moderately oil stained near top, lower contact sharp.	6.3'		Mississippian Limestone
	490					

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

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	490		Limestone — same as above.	6.3'		Mississippian Limestone
		T	Shale - med dk gy (N4), very hard, parallel fracs, thinly laminated, abundant marine fossil frags, calcareous cement, fractured, lower contact not observed.	16'	# 49	
		T	Bottom of core		492'	
	495+					
	500					

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