Gulf Pittsburg-Midway

Strat Well PM-14

HOLE NO.

DEPARTMENT OF THE ARMY

DIVISION

INSTALLATION

DRILLING LOG

1. PROJECT

SHEET OF

2. LOCATION (Coordinates or Station) SWSWNE 17-32S-22E

3. DRILLING AGENCY P+M Coal Co. (Gulf Minerals)

4. HOLE NO. (As shown on drawing title and file No.) P+M # 14

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
835		

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					Clogged by John Harris
	25		Top of Core		25'	
		T T T	Clayshale - dkgy(N3), hard, parallel fracs, micaceous, thinly laminated, fossil frags, calcareous cement, sharp lower contact	1.8'	# 1	
			Coal - blk (N1), hard, brittle, banded, mod. bright, sharp contacts,	1.4'		Bevier Coal
			Mudstone - med ltgy (N6), soft, blocky fracs, plant frags, lower contact not observed.	1.0'		
	30	X	8.7' core loss 29.3' - 38.0'	8.7'		

17 - 32 - 22e

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)
	30		8.7' core loss 29.3' - 38.0'	8.7'	#1	
		T	Clayshale - dk gy (N3) hard, parallel			
		T	fracs, micaceous,	2.6'		
		T	thin horizontal laminat, few marine			
	40	T	fossils, calcareous cement.			

ENG FORM 1 JUN 57 1837 (RECENT) PREVIOUS EDITIONS ARE OBSOLETE (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)
	40		Clayshale – (cont), sharp lower contact	2.6'		
			Limestone – v lt gy (N8), hard, wackestone, abundant brachs, crinoid stems & other fossil frags, massive, calcareous cement, gradational lower contact.	4.4'	#1	Verdigris Limestone
	45		Clayshale – gy blk (N2) – dk gy (N3), hard, brittle, parallel fracs, micaceous, thin horizontal laminae, few zones of marine fossil frags, calcareous cement & nodules to 0.3' dia, pyrite nodules, sharp lower contact.	5.1'	44 / #2	
	50					

EDG FORM 1836 (TRANSMITTAL) 1 JUN 57 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)
			Clayshale – same as above	0		
	50		Coal, blk (N1) – banded, mod. bright, sulfate bloom, sharp contacts.	0.6'		Croweburg coal
			Mudstone – same unit as below.		#2	
					53'	
					#3	
				6.9'		
	55					
			2.4' core loss 57.6' – 60.0' mudstone	2.4'		
	60					

ENG FORM 1836 (TRANSIT) 1 JUN 57 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		Mudstone = same unit as below.	3.0'	#3	
	65		7.0' core loss 63' - 70'			
	70					

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 OVERBURDEN	8. DEPTH DRILLED INTO ROCK / 9. TOTAL DEPTH OF HOLE
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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		Mudstone - med ltgy (N6), soft, blocky fracs, silty, micaceous, massive, plant frags, clay ironstone nodules to 0.2' thick, sharp lower contact w/ coal.	3.0'	#3 72'	
			Coal - smut <0.05'	0.05	#4	Unnamed coal
			Mudstone - med ltgy (N6) soft, crumbled, blocky fracs, massive, plant frags, clay ironstone nodules, gradational lower contact.	1.5'		
	75+		Mudshale - med gy (N5), mod. hard, parallel fracs, silty, micaceous, thin horizontal laminae, few plant frags, clay ironstone nodules & brown Fe oxide stains, lower contact not observed.	2.8'		
			4.7' core loss 77.3' - 82.0' probably Mudshale	4.7'		
	80					

ENG FORM 1836 1 JUN 57 (TRANSIT) 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)		
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4. HOLE NO. (As shown on drawing title and file No.)	5. NAME OF DRILLER	
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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		4.7' core loss 77.3'-82.0' probably mudshale	4.7'	#4	Mineral Coal
		T	Clayshale - dkgy(N3) - gy blk(N2), hard, brittle, parallel fracs, micaceous, brachs & other scattered marine fossils, calcareous cement & nodules, sharp lower contact.	2.9'		
	85+		Coal, blk(N1) banded, mod. bright, sulfate bloom, calcareous cement in fracs, sharp contacts.	1.1'		
			Mudstone - ltgy(N7) soft, blocky fracs, silty, micaceous, massive, abundant plant fragS, clay ironstone veins & brown Fe oxide stains, gradational lower contact.	4.0'	87' #5	
	90					

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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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 H 94 (N6), hard, parallel fracs, silty, micaceous, thin horizontal laminae, non-fossiliferous, abundant irregular clay ironstone bands & veins, gradational lower contact.	7.5'	#5	
	95				98'	
	100	X	2.0' core loss 98' – 100' mudshale, same as above & below.		#6	

ENG FORM 1836 1 JUN 57 (TR NT) PREVIOUS EDITIONS ARE OBSOLETE (PM 01)

PROJECT _____ HOLE NO. _____

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	

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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)
	100		Mudshale - same as above	2.0'	# 6	
		XXX	Clayshale - dkgy(N3), hard, parallel fracs, micaceous, thin horizontal laminae, few brachs & other marine fossils, calcareous cement at base, clay ironstone bands to 0.2' thick, sharp lower contact.	4.2'		
	105	T				
		T	Argillaceous Limestone - lt gy(N7), brachs, crinoids & other fossil frags, massive, sharp lower contact.	0.3'		
			Coal - blk(N1), banded, mod. bright, sulfate bloom, sharp contacts.	0.6'		Scammon Coal
			Mudstone - lt gy (N7), soft, blocky fracs, silty, micaceous, massive, plant fragments, abundant irregular clay ironstone nodules & veins, gradational lower contacts.	2.9'		
	110				110'	

ENG FORM 1836 1 JUN 57 (TRANSLUCENT) (FM 1110-2-1) 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		mudshale – med Hgy(N6), hard, parallel fracs, silty, micaceous, thin horizontal laminae, nonfossiliferous, abundant irregular clay ironstone bands & veins, gradational lower contact.	5.4'	110 # 7	
	115		Interbedded sandstone & shale – v Hgy(N8) & med gy(N5) laminae, hard, parallel fracs, quartz, micaceous, comp, sand v fine gr, rippled, abundant plant frags, sand sized authigenic siderite crystals, gradational lower contact.	4.2'		
	120		mudshale – same as below.	5.9'	120	

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			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)
	120		Mudshale – med dkgy (N4) with V Hgy (N8) silty laminae, hard, parallel fracture, silty, micaceous, lenticular bedded w/ thick & thin lenses, abundant plant frags, few burrows, Clay ironstone bands to 0.1' thick, gradational, intercalating lower contact.	5.9'	120	
	125		Sandstone – vlt gy (N8), very fine grained, qtz, micaceous, rippled at base, flaser to wavy bedded upwards, abundant small plant fragments, few sand sized authigenic siderite crystals, sharp lower contact w/ load casts.	3.4'	# 8	Chelsea S.S.
			Mudshale – same as below.	11.2'		
	130				130	

ENG FORM 1836 1 JUN 87 (TRANSLU) (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	
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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		Mudshale- med gy (N5) w brown mottling & occasional v lt gy (N8) silty laminae, hard, parallel fracture, silty, micaceous, thin horizontal laminae at base, lenticular bedded at top w/ very thin lenses, abundant plant fragments, few burrows near top, brown Fe oxide stains, gradational lower contact.		130	
					# 9	
				11.2'		
	135					
	140				140	

ENG FORM 1836 (TRAN) 1 JUN 57 PREVIOUS EDITIONS ARE OBSOLETE

PROJECT _____ HOLE NO. _____

HOLE NO. _____

DEPARTMENT OF THE ARMY

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DRILLING LOG

	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	

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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 - dkgy (N3) at base to med gy (N5) at top. hard, parallel fracs, micaceous, thin horizontal laminae plant fragments, clay ironstone bands to 0.16' thick, sharp lower contact w/coal.		140'	
		XXX			#	
					10	
		XXX		13'		
	145+					
	150				150'	

ENG FORM 1 JUN 57 1836 (TRA ...VT) PREVIOUS EDITIONS ARE OBSOLETE

PROJECT _____ HOLE NO. _____

HOLE NO. _____

DEPARTMENT OF THE ARMY

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INSTALLATION _____

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1. PROJECT		SHEET OF
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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)
	150	T	Clay-shale- same as above.	13'	150	
		T				
		T				
			Coal- blk (N1), banded, mod. bright, sulfate bloom, sharp contacts	0.6'	# 11	Tebo coal
			Siltstone- same as below.			Seatrock
	155½					
				15.4'		Unnamed Siltstone
	160				160	

HOLE NO. _____

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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		Siltstone - med lt gy (N6), hard, blocky fracs, abundant mud matrix, qtz, micaceous, thinly laminated to lenticular bedded, few plant fragments, some zones bioturbated, abundant sand sized authigenic siderite crystals, gradational lower contact.	15.4'	160' #12	
	165					
			Mudshale - same as below.	3'	170'	
	170					

ENG FORM 1836 1 JUN 57 (TRANSL FEM 1110-...) 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)
	170		Mudshale – dk gy (N3) + med lt gy (N6) laminae, hard, parallel fracs, silty, micaceous, lenticular bedded, nonfossiliferous, sand sized authigenic siderite crystals, gradational lower cont,	3'	170'	
	175+	T	Clayshale – dk gy (N3) hard, parallel fracs, micaceous, thin horizontal laminae, few small crinoid appendages, bryozoans and other marine fossil frags, localized calcareous cement, clay ironstone bands to 0.1' thick, lower contact not observed.	8'	#13	
	180				180'	

ENG FORM 1 JUN 57 1836 (TRANSLUCENT) 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		180' - 190' missing Box # 14 missing Probably a coal in this interval.		180'	
					# 14	
				10'		Weir-Pittsburg Coal was lost in this interval.
	195					
	190				190'	

ENG FORM 1836 1 JUN 57 (TRANSLUCENT) 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)
	190		Sandstone – v lt gy (N8) hard, very fine-fild gr., qtz micaceous, rippled, few small plant frags, abundant sand sized authigenic siderite crystals, sharp lower contact w/ load casts,	3.5'	190'	Unnamed Sandstone
	195+		Mudshale – med dk gy (N4) at base to med lt gy (N6) at top, hard, parallel fracs, silty, qtz, micaceous, thin horizontal laminae at base, lenticular bedded at top with thin lenses, few small plant fragments, some bioturbation, sharp lower contact w/ coal,	20.6'	#15	
	200				206'	

ENG FORM 1 JUN 57 1836 (TRANSFERRED FROM ...) 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)
	200		Mudshale — same unit as above.		200'	
				206'	# 16	
	205*					
	210				210'	

ENG FORM 1836 1 JUN 57 (TRANSLUCENT) 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)
	210		Mudshale – same unit as above.	20.6'	210'	
					# 17	
			Coal, blk(N1), banded, mod. bright, smut.	0.1'		Bluejacket "A" coal
	215		Mudstone – med dk gy (N4) at base to med lt gy (N6) at top, mod. hard – soft, blocky fracs, micaceous, silty, massive, plant frags, brown Fe oxidestains, gradational lower contact.	2.6'		
			Clayshale – dk gy(N3), hard, brittle, parallel fracs, micaceous, thin horizontal laminae, few small brachiopods + other marine fossil frags at base, calcareous cement at base, Clay ironstone bands at top, to 0.1' thick, sharp lower contact w/ coal.	4.5'		
	220				220'	

ENG FORM 1836 (TRANSMENT) 1 JUN 57 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)
	220		Clayshale - same as above.	4.5'	220'	
			Coal, blk (N1), smut.	0.1'		Bluejacket "B" Coal
			Mudstone - medgy (N5) at base to dkgy (N3) at top, soft, crumbled, blocky fracs, massive, silty, micaceous, plant frags, brown Fe oxide stains, gradational lower contact	2.1'		
			Siltstone - medltgy (N6), hard, blocky fracs, micaceous, qtz, massive, bioturbated, few fine sand sized authigenic siderite crystals, gradational lower contact.	1.9	# 18	
	225		Sandstone - same unit as below.	10.6'		Upper Bluejacket Sandstone
	230				230'	

ENG FORM 1836 1 JUN 87 (TRANSLUCENT) 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)
	230		Sandstone – v lt gy (N8) w brown stains, hard, blocky fracs, very fine - fine grained, qtz, micaceous, rippled at base to massive at top, few small plant frags, upper 2' bioturbated, sand sized authigenic siderite crystals, lightly oil stained, sharp lower contact.	10.6'	230'	
	235+		Siltstone – alternating v lt gy (N8) and med gy (N5) laminae, hard, parallel to blocky fracs, qtz, micaceous, wavy bedded, few small plant frags along bedding planes, few sand sized authigenic siderite crystals, sharp lower contact.	4.8'	# 19	Upper Bluejacket Sandstone
	240				240'	

ENG FORM 1836 1 JUN 57 (TRANSLUCENT) PREVIOUS EDITIONS ARE OBSOLETE (EM 1110-2-1301)

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)
	240		Clayshale – dk gy (N3), hard, parallel fracture, micaceous, thin horizontal laminae, nonfossiliferous, clay ironstone bands to 0.1' thick, sharp lower contact w/ coal.	3.5'	240'	
			Coal, blk (N1), banded (med bright) sulfate bloom, sharp contacts.	0.4'	#	Bluejacket "C" coal
			Mudstone – med ltgy (N6), mod. hard, blocky fracs, silty, micaceous, massive, plant-frags, abundant brown Fe oxide stains, gradational lower contact	2.1'	20	
	245		Mudshale – same unit as below.	14'		
	250				250'	

ENG FORM 1 JUN 57 1836 (TRANSLUC (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		Mudshale - med dk gy (N4) w ltly gy (N8) silty laminae, silty, qtz, micaceous, lenticular bedded w/ thin lenses, plant fragments, some bioturbation, clay ironstone bands less than 1cm thick, irregular clay ironstone nodules at top & lenticular; sharp lower contact w/ coal		250'	
					#	
					21	
	255			14'		
	260				260'	

ENG FORM 1836 1 JUN 57 (TRANSMENT) 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			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)
	260		Coal - blk (N1) banded, mod bright sharp contacts.	0.3'	260	Bluejacket "D" coal
		S.S.	Sandstone - v ltgy (N8) at base to med ltgy (N6) at top, hard, blocky fracs, very fine to fine gr, qtz, micaceous, massive, plant frags, base appears burrowed, irregular clay ironstone nodules, sharp lower contact.	3.3'	# 22	Seatrock Lower Bluejacket Sandstone
	265		Mudshale - same unit as below.	21.1'		
	270				270	

EDG FORM 1 JUN 57 1836 (TRANSLUCENT) PREVIOUS EDITIONS ARE OBSOLETE (TM 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)
	270		Mudshale - med dkgy (N4) at base to med lt gy (N6) at top, hard, parallel fracs, silty, qtz, micaceous, lenticular bedded w/ thin lenses, few plant frags, burrows near base; clay ironstone bands to 0.3' thick, abundant sand sized authigenic siderite crystals in upper 5' have destroyed bedding, sharp lower contact.	21.1'	270 # 23	
	275					
	280				280'	

ENG FORM 1836 (TRANSMITTAL) 1 JUN 57 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)
	280		Mudshale - same unit as below.	21.1'	280' # 24	
	285		Coal, blk (N1), banded, mod. bright, sulfate bloom, sharp contacts.	0.7'		Drywood Coal
			Mudstone - med ltgy (N6), mod. hard, blocky fracs, silty micaceous, massive, plant frags, abundant sand sized authigenic siderite crystals, gradational lower contact.	3.6'		
			Clayshale - same unit as below.	7.7'		
	290				290'	

ENG FORM 1836 (TRANSL.) 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)
	290		Clayshale - dk gy (N3), hard, parallel fracs, micaceous, thin horizontal laminae, non-fossiliferous, Clay ironstone bands to 0.1' thick, sharp lower contact w/ coal.	7.7'	290' # 25	
	295		Coal, blk (N1), banded, mod. bright, sharp contacts,	0.2'		Rowe Coal
			Mudstone - med ltgy (N6) mod hard, blocky fracs, silty, micaceous, massive, plant frags, irregular clay ironstone concretions to 0.15' dia, gradational lower contact.	3.2'		
	300				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			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)
↑ Start here	300		Mudshale- med dk gy (N4) at base to med lt gy (N5) ↑, mod. hard, parallel fracs, silty, qtz. micaceous, lenticular bedded at base to wavy bedded ↑, plant frags, authigenic siderite crystals & veins, sharp lower contact marked by clay ironstone band.	5.2'	300' # 26	
	305		Clayshale- same unit as below.	10.4'		
	310				310'	

ENG FORM 1836 (TRANSMENT) 1 JUN 57 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)
	310		Clayshale- dk gy (N3), hard, parallel fracs, micaceous, thin horizontal laminae, non-fossiliferous, Clay ironstone bands to 0.4' thick, uniform color & comp. sharp lower contact w/ underclay.	10.4'	310' # 27	
	315					
		SS XXX	Mudstone- med lt gy (N6), mod. hard, blocky fracs, silty, qtz, micaceous, thin horizontal laminae at base to massive at top. plant frags, abundant sand sized autigenic siderite crystals, irregular clay ironstone bands & veins, to 0.2' thick, gradational lower contact,	4.1'		Neutral coal horizon
	320				320'	

ENG FORM 1 JUN 57 1836 (TR [illegible]ENT) 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)
	320		Mudshale – med dk gy(N4) w v ltgy(N8) silty laminae, hard, parallel fracs, silty, qtz, micaceous, wavy bedded at base with silty laminae decreasing upwards, plant fragments, some bioturbation, clay ironstone bands to 0.2' thick, sand sized authigenic siderite crystals near top, sharp lower contact with underclay.		320'	
					# 28	
	325			14.1'		
	330				330'	

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)
	330		Mudshale - same unit as above.	14.1'	330' # 29	
	335		Mudstone - med ltgy (N6), soft, blocky fracs, massive, plant frags, silty, micaceous, sand sized auth. siderite xtals, gradational lower contact.	1.7'		Underclay but no coal? Unnamed coal horizon
			Mudshale - same unit as below.			
		T T T	Fossiliferous zone 336' - 339.5'	10.2'		
	340				340'	

ENG FORM 1 JUN 57 1836 (TRANSIT) PREVIOUS EDITIONS ARE OBSOLETE (EM 1110-2-301)

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 - med dk gy(N4), hard, parallel fracs, silty, qtz, micaceous, thin horizontal laminae w/ occasional v lt gy (N8) silty laminae, abundant plant frags, fossiliferous zone from 338'-339.5' contains brachs, crinoid stems, bryozoa, & other marine fossil frags, clay ironstone bands near top to 0.1' thick, sharp lower contact w/ coal.	10.2'	340' #1 30	
	345		Coal, blk(N1), hard, brittle, banded, mod. bright, sulfate bloom, sharp contacts.	1.2'		"A" coal
			Mudstone - med lt gy (N6), mod. hard, blocky fracture, silty, qtz, micaceous, massive, plant frags, no apparent diagenetic features, gradational lower contact.	2.7'		
	350				350'	

ENG FORM 1836 (FORMERLY 1 JUN 57 (FM 1110-2-1001)) 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)
	350		Mudshale – dk gy(N3) w v lt gy (N8) silty laminae, hard, parallel fracs, silty, qtz, micaceous, lenticular bedded w thick & thin lenses, convolute bedding near top, few small burrows, gradational lower contact.	3.0'	350'	
					# 31	
			Clayshale – dk gy (N3) hard, parallel fracs, micaceous, nonfossil-iferous, abundant clay ironstone bands to 0.1' thick, sharp lower contact w/coal.	2.1'		
	355		Coal – blk (N1), banded, mod. bright, sulfate bloom, sharp contacts.	0.8'		"B" Coal
			Mudstone – lt gy (N7), mod. hard, blocky fracs, silty, qtz, micaceous, lenticular bedded w/thin lenses at base to massive at top, plant frags, sand sized authigenic siderite crystals, brown Fe oxide stains, lower contact not observed but probably gradational	4.1'		
	360				360'	

ENG FORM 1836 1 JUN 57 (TRANSLUNT) (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		2.0' core loss 360' - 362' mudshale.	2.0'	360' # 32	
	365		mudshale - dkgy(N3) w/ occasional ltgy(N8) silty laminae, hard, parallel fracs, silty micaceous, thin horizontal laminae, some lenticular bedding w/ thinlenses, few small burrows, Clay ironstone bands to 0.1' thick, gradational lower contact.	3.8'		
			Clayshale - same unit as below	1.1'		
	370					

ENG FORM 1836 (TRANSLUC...) 1 JUN 57 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)
	370		Clayshale – dk gy(N3), hard, brittle, parallel fracture, micaceous, thin horizontal laminae, nonfossiliferous, abundant clay ironstone nodules to 0.1' thick, sharp lower contact w/ underclay.	11'	# 32 372' # 33	
	375					
	33		Mudstone – lt gy(N7), soft, blocky fracs, silty, micaceous, massive, plant frags, irregular clay ironstone nodules & veins, sand sized authigenic siderite crystals, gradational lower contact.	2.2'		Underclay but no coal! "C" coal horizon
			Mudshale – same unit as below.	7.0'		
	380					

ENG FORM 1836 (TRANS) 1 JUN 57 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)
	380		Mudshale - dkgy(N3) at base to ltgy(N7) at top, hard at base to mod. hard at top, parallel fracs, slightly silty, micaceous, thin horizontal laminae, occasional crinoid stem or other marine fossil frag, localized calcareous cement, clay ironstone bands to 0.2' thick, abruptly gradational lower Contact.	7.0'	# 33 382' # 34	
	385		Siltstone - same unit as below.	8.5'		
	390					

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)
	390		Siltstone – med gy (N5), hard, parallel to blocky fracture, qtz, micaceous, abundant mud matrix, lenticular bedded at base to wavy bedded at top, original bedding destroyed by bioturbation, small plant frags, occasional marine fossil frags, localized calcareous cement, gradational lower contact.	8.5'	# 34	Core in reverse order.
	395		Mudshale – med dk gy (N4), hard, parallel fracs, silty, qtz, micaceous, thin horizontal laminae, occasional marine fossil fragment, few plant frags, calcareous concretions to 0.1' thick, calc. cement, gradational lower contact.	5.2'	# 35	
	400		Fossiliferous mudshale – med dk gy (N4), hard, thin horizontal laminae, brachiopods and other marine fossils, sharp lower contact.	0.7'		

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)
	400		Fossiliferous mudshale - same unit as above,	0.7'		
			Coal - blk(N1), banded, mod. bright, abundant sulfate bloom, sharp contacts.	1.8'	# 35 402'	Core in reverse order. ← Unnamed Coal
			mudstone - dk gy(N3), silty, gradational lower cont.	0.3'		
			Siltstone - med H gy(N6), hard, blocky fracs, abundant mud matrix, qtz, micaceous, massive, plant fragments, may be burrowed, brown Fe oxide stains, gradational lower contact.	4.9'	# 36	
	405					
			mudshale - med gy(N5), hard, parallel to blocky fracs, silty, micaceous, thin horizontal laminae, plant fragments along bedding planes, clay ironstone bands to 0.1' thick, sharp lower contact w/coal.	2.8'		
	410					

HOLE NO. _____

DEPARTMENT OF THE ARMY

DIVISION _____

INSTALLATION _____

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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)
	410		mudshale – same as above	2.8'		Riverton Coal
			Coal, blk (N1), banded, mod. bright, hard, brittle, sulfate bloom, calc. cement, sharp Contacts,	1.6'	411'	Core in reverse order.
			mudstone – med dk gy (N4), mod. hard, blocky fracs, silty, micaceous, massive, plant frags, no apparent diagenetic features, gradational lower contact.	1.2'		
			mudshale – dk gy (N3) w/v ltgy (N8) silty laminae, hard, parallel fracs, silty, qtz, micaceous, lenticular bedded w/ thin lenses, abundant pyritized plant frags, pyrite concretions to 0.05' dia, few small burrows, gradational lower contact.	7.0'	# 37	
	415					
	420				420	

ENG FORM 1 JUN 57 **1836** (TRANSL) 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)
	420		Clayshale – dk gy (N3), hard, parallel fracs, micaceous, thin horizontal laminae few pyritized plant fragments, abundant pyrite concretions, irregular, up to 0.1' dia., clay ironstone nodules to 0.1' dia, sharp, irregular & disconformable lower contact.	6.3'	420' # 38	Core in reverse order.
	425		Limestone – ltgy(N7) - v ltgy (N8), hard, blocky fracs, wackestone, massive, abundant recrystallization, brachiopods, crinoid stems & other marine fossil frags, calcareous cement, lower contact not observed. upper contact unconformable.	3.7'		Mississippian Limestone
	430		Bottom of core		430'	