Strat Well PM-17

Gulf Pittsburg - Midway

HOLE NO. _____

DEPARTMENT OF THE ARMY
DIVISION _____
INSTALLATION _____
DRILLING LOG

1. PROJECT | SHEET OF
2. LOCATION (Coordinates or Station) NW SE 36-32-21E
3. DRILLING AGENCY P+M (Gulf Minerals)
4. HOLE NO. (As shown on drawing title and file No.) P+M # 17
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 830
18. TOTAL CORE RECOVERY FOR BORING (%) 95%
19. SIGNATURE OF INSPECTOR

36 - 32 - 21e

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					Clogged by John Harris)
	45		Top of Core		45'	
			Coal - not all cored	0.2'		Mineral Coal
			Mudstone - med H 94(N6), soft, blocky fracture, massive, silty micaceous, plant fossils, fe oxide stains, gradational lower contact.	2.9'	# 1	
			Mudshale -	5.1'		
	50					

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)
	50		mudshale – med Hqy (N6), mod. hard, crumbled, lenticular bedded w/ thin lenses, no fossils found, abundant irregular clay ironstone veins, lower contact not observed,	5.1'		
	55		5.0' core loss, 53.3' - 58.3' mudshale.	5.0'		
	60		mudshale - same unit as above	2.5'		

HOLE NO. _____

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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 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)
	60		Mudshale - same unit as above.	2.5'	60'	
			13.9' Core			
			loss			
			60.8' - 74.7'		#2	
	65			13.9'		
	70					

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)
	70		13.9' Core loss 60.8 – 74.7	13.9'	# 2	
	75		Mudshale – med dk gy(N4), mod. hard, sub-parallel fracs, silty, micaceous, thin horizontal laminae, clay ironst. nodules, to 0.1', gradational lower contact.	3.0'		
			Clay shale to limestone – dk gy(N3) – lt gy(N7), hard, hackly fracs, brachs, crinoid, marine fossil frags, sharp, lower contact.	1.3'		
			Coal – blk(N1), sharp contacts.	0.5'		Scammon coal
	80		Underclay – med lt gy (N6), massive	0.5'		

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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
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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		Mudshale - med gy (N5) at base to med lt gy (N7) at top, hard, sub-parallel fracs, silty, micaceous, lenticular bedded w/ thin lenses, abundant small plant fossils, Fe oxide rings & stains, sharp lower contact w/ coal.		84'	
					# 3	
	85			272'		
	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 — same unit as above.		90	
		T				
		T				
	95			27.2'	#4	
		T				
	100				100	

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7. THICKNESS OF OVER-BURDEN
8. DEPTH DRILLED INTO ROCK
9. TOTAL DEPTH OF HOLE
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14. TOTAL NO. CORE BOXES
15. ELEV. GROUND WATER
16. DATE HOLE: STARTED | COMPLETED
17. ELEV. TOP OF HOLE
18. TOTAL CORE RECOVERY FOR BORING (%)
19. SIGNATURE OF INSPECTOR

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	100		Mudshale same unit as above		100	
		T				
				27.2'		
		T			#5	
	105					
			1.0' core loss, 107.1 - 108.1 - may be coal.	1.0'		
			Coal, blk (NI), sharp contacts.	0.35'		Tebo coal Seatrock
			Siltstone - same unit as below.	14.7'		
	110				110	

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

PROJECT _____ 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)
	110		Siltstone - vltgy (N8), qtz, micaceous comp, may contain some V. fn sand,, flaser bedded, some zones may be burrowed, mostly massive near top, few small plant frags, authigenic siderite, abundant convolute bedding near base, gradational lower contact.		110	
		S			# 6	
		S				
	115			14.7'		
	120				120	

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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)
	120		Siltstone - same unit as above.	14.7'	120	
	125±		Mudstone - med lt gy (N6), soft, blocky fracs, abund. plant frags, massive, gradational lower contact.	2.0'	# 7	May be underclay?
			Sandstone - v lt gy (N8), fine gr. at base to v. fn gr at top, cycle coarsens then fines up, flaser bedded at base & top, rippled in middle, authigenic siderite spherules, gradational, intercalating lower contact.	4.3'		
	130		Siltstone - same unit as below.	3.5'	130	

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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		Siltstone – med lt gy (N6), qtz, micaceous comp, wavy bedded, some zones massive, may be burrowed, convolute bedding, no fossils found, gradational intercalating lower contact.	3.5'	130	
			Clayshale – same unit as below.		# 4	
	135			9.9'		
	140				140	

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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)
	140		Clayshale - dk gy (N3), hard, brittle, hackly fracs, thin horizontal laminae, few zones of marine fossils, (brachs, crinoids) calc. cement, calc. concretions near base, sharp lower contact, burrowed near top	9.9'	140	
			Coal - smut	0.5		Weir - Pittsburg coal
			Mudstone - med lt gy (N6), mod. hard, blocky fracs, plant frags, massive, silty micaceous, gradational lower contact	2.9'	# 9	
	145		Siltstone - med lt gy (N6), qtz, micaceous comp, massive, gradational upper & lower contact.	3.0'		
	150		Sandstone - same as below, abun. auth. siderite spherules near top.	3.0'	150'	

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

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2. LOCATION (Coordinates or Station)		
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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)
	150		Sandstone - ltgy(N8) vfn gr, rippled at base - massive at top, flaser bedded, gradational intercalating lower contact.	3.0'	150'	
	155		Mudshale - medgy (N5) at base to ltgy(N7) at top, hard, hackly fracs, silty, qtz, micaceous, lenticular bedded w/ thin lenses, silt content increasing upwards, convolute bedding at base, plant fossils, Fe oxide stains, gradational lower contact.	8.7'	# 10	
	160				160'	

ENG FORM 1836 (TRANSMITTAL) 1 JUN 57 (EM 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)
	160		mudshale - same unit as above.	8.7'	# 11	
			Siltstone - med H 94 (N6), mottled, 70-30 silt-shale ratio, flaser-wavy bedded, abundant convolute bedding, plant fossils, gradational lower contact.	3.3'		
	165		Core loss 4.0' 164.0'-168.0' mudshale	4.0'		
			mudshale - same unit as below.	11.2'		
	170					

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

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HOLE NO. _____

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	170		Mudshale - med dk gy (N4), hard, hackly fracs, silty, micaceous, thin horizontal laminae at base to lenticular bedded at top w/ thin silty lenses, few small plant frags, localized calcareous cement, sharp basal contact		# 11	
		T				
		T				
	174'			11.2'	174'	
		T			# 12	
	175					
		T				
		T				
			Coal - blk (N1) smut	0.2'		Bluejacket A coal
			Mudstone - same unit as below,	1.6'		
	180					

ENG FORM 1836 1 JUN 57 (TRANS) (EM 1110-2-1803) PREVIOUS EDITIONS ARE OBSOLETE

PROJECT _____ HOLE NO. _____

HOLE NO. _____

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DRILLING LOG

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2. LOCATION (Coordinates or Station)		
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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)
	180		mudstone- ltgy(N7), soft, massive, blocky fracs, Fe oxide stain, gradational lower contact	1.6'		
			mudshale- dkgy (N3) at base to med gy(N5) at top, hard, hackly fracs, silty, micaceous, thin horizontal laminae, no fossils found, localized calcareous cement, sharp lower contact w/ coal,	6.0'	# 12 184' # 13	
	185		Coal = smut	0.1		Bluejacket B coal
			Mudstone- med lt gy(N6), mod. hard, blocky fracs, silty, micaceous, massive, plant & root frags, gradational lower contact,	2.1'		Underclay
			Siltstone- same unit as below.	4.2'		
	190					

ENG FORM 1836 (TRANS) 1 JUN 57 (EM 1110-2-1301) PREVIOUS EDITIONS ARE OBSOLETE PROJECT _____ HOLE NO. _____

HOLE NO. _____

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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)
	190		Siltstone – med lt gy (N6), qtz, micaceous comp, massive, to wavy bedded, some zones contorted, appear burrowed, few small plant fossils, sand sized authigenic siderite spherules, grad, lower contact.	4.2'	#F 13 193'	
	195		Sandstone – lt gy (N7), vfn-fn gr, qtz, micaceous, rippled, flaser bedded, few small plant fossils, some zones appear burrowed, gradational lower contact.	3.2'	#14	Upper Bluejacket Sandstone
			Siltstone – lt gy (N7), hard, wavy bedded, burrowed, gradational lower contact.	0.9'		
			Siltshale – med lt gy (N6), thin, varve like interlaminated sand & shale layers, perhaps representing rainfall variations, abrupt lower contact.	4.3'		
	200					

HOLE NO. _____

DEPARTMENT OF THE ARMY
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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 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		Siltshale - same unit as above.	4.3'	# 14	
			Sandstone - v. fn. gr, sharp contacts.	0.3		
			Siltshale - med lt gy(N6), hard, sub-parallel fracture, varve-like alternating sand & shale bedding on the order of 1-3 mm thick, few small plant frags, abrupt lower contact.	2.8'	204' # 15	
	205		Sandstone - v lt gy(N8), fine gr, rippled, sharp, scoured base w/ abundant coal, chert and clay clasts, abundant authigenic siderite, sharp scoured lower contact.	2.0'		Fluvial system possibly upper B.J. usually coarsens ↑ Bluejacket C horizon
			Mudshale - med. dk gy(N4), hard, hackly fracture, slightly silty, micaceous, non-fossiliferous, sharp lower contact.	2.0'		
			Limestone - lt gy(N7) w/ red Fe oxide stain, shaly, sharp contacts.	0.8'		
	210					

ENG FORM 1836 1 JUN 57 (TRANS (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 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)
	210		mudshale - med dk gy (N4) at base to med gy (N5) at top, hard, sub-parallel fracs, silty, qtz, micaceous, thin horizontal laminae at base to lenticular bedded at top, abundant plant frags, bioturbation, thin clay ironst. bands at base, sand sized auth. siderite spherules at top, sharp lower contact w/ coal.		# 15	
					212	
					# 16	
	215					
	220					

ENG FORM 1836 1 JUN 57 (TRANSMITTAL) (TEM 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)
	220		Mudshale - same as above		#16	
					222'	
				15.7'	#17	
	225±					
			Coal - smut	0.15		Blue Jacket D coal
			Mudstone - med H gy (N6), mod. hard, blocky fracs, massive, silty, qtz, micaceous, plant fossils, root marks, Fe oxide stains, gradational lower contact.	2.0		
			Sandstone - vlt gy (N8) fine gr, massive, gradational lower contact.	1.0		
			Interbedded S.S. & Shale - same unit as below.	3.0		
	230					

ENG FORM 1836 (TRANS) 1 JUN 57 — 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		Interbedded S.S. + shale - mottled H & dk gy, v fn gr sand, convolute bedding, burrows, abrupt lower contact 60/40 sand-shale ratio	3.0'	# 17	
					232'	
			Mudshale - same unit as below.		# 18	
	235			18.3'		
	240					

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: ☐ 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		Mudshale – med gy (N5), mod. hard, sub-parallel fracs, silty, qtz, micaceous, thin horizontal laminae w/ occasional thin silty lense, abundant plant fossils, clay ironstone bands near base, sand sized authigenic siderite spherules near top, Sharp lower Contact,	18.3'	# 18 241' # 19	
	245+					
	250		Coal blk, (N1), smut	0.3'		Drywood coal

ENG FORM 1836 1 JUN 57 (TRANSMITTAL FORM 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 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)
	250		Mudstone - H94 (N7), mod. hard at base - soft at top, blocky fracs, massive, silty, plant fossils, Fe, oxide stains, gradational lower contact.	3.5'	# 19 252'	Underclay
	255		3.7' Core loss 253.5' - 257.2' Probably mud shale.	3.7'	# 20	
			Mudshale - same unit as below.	6.9'		
	260					

HOLE NO. _____

DEPARTMENT OF THE ARMY
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DRILLING LOG

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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 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)
	260		Mudshale - dk gy (N3) at base to med H gy (N6) at top, hard, hackly fracs, slightly silty, micaceous, thin horizontal laminae, no fossils found, clay ironst. bands to 0.1', small amt. of localized calc. cement, sharp lower contact.	6.9'	# 20	
			Coal - smut	0.1'		Rowe coal Underclay
			Mudstone - H gy (N7), mod. hard, blocky fracs, massive, grad. lower contact,	1.0'	265'	
	265+		Mudshale - same unit as below.		# 21	
				18.7'		
	270					

EDG FORM 1 JUN 57 1836 (TRANS FRM 1110-1-1031) 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)
	270		mudshale- dk gy (N3) at base to med lt gy (N6) at top, hard, hackly fracs, slightly silty, micaceous, thin horizontal laminae at base to lenticular bedded w/ thin lenses at top, few small plant fossils, clay ironstone bands to 0.1' thick, sharp lower contact. small amount of localized calcareous cement.		# 21	
	275+			187'	275' # 22	
	280					

ENG FORM 1836 1 JUN 57 (TRANSFERRED FROM ERM 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
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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)
	280		Mudshale - same unit as above.	18.7'	# 22	
	285		sharp contact Mudstone - H gy(N7) soft, blocky fracs, silty, massive, clay ironstone, grad. lower cont.	1.0'	285	Neutral horizon Underclay
	285+		Interbedded S.S, silstone & shale - v lt gy(N8), flaser - wavy bedded, abrupt color change from lower unit, abrupt but non scoured lower contact.	2.1'	# 23	
			Sandstone - same unit as below.	5.6'		
	290					

HOLE NO. _____

DEPARTMENT OF THE ARMY

DIVISION _____

INSTALLATION _____

DRILLING LOG

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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)
	290		Sandstone - med. brn gy (5YR5/1), massive at base to flaser bedded upward, abundant plant fossils, few burrows, convolute bedding, very fine gr, sharp non-scoured lower contact.	5.6		
			Interbedded sandstone and shale - med brn gy (5YR5/1), sand very fine gr, may be coarse silt, abundant muddy laminae, 60/40 sand-shale ratio, abundant plant fossils, small burrows, convolute bedding, abundant clay ironstone layers + Fe oxide staining gradational lower contact.		# 23	Upper Warner Sandstone
	295			7.5'	295 # 24	
	300					

HOLE NO. _____

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4. HOLE NO. (As shown on drawing title and file No.)
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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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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		Sandstone - med brn gy (5YR 5/1), very fine grained, flaser bedded, abundant muddy laminae, rippled, abundant plant debris, few small burrows, sharp, apparently non-scoured lower contact, unit coarsens upwards, then fines up, few more mud layers near base.	4.0	# 24	
	305		Mudshale - med dk gy (N4), lenticular bedded w/ thin lenses, few small burrows, sharp lower contact.	1.7'	305' # 25	
			Mudstone med dk gy (N4) at base to lt gy (N7) at top, mod. hard, blocky fracs, plant frags, clay ironstone nodules, gradational lower contact.	1.9'		Unnamed horizon Underclay
			Mudshale - same as below.	12.4'		
	310					

sharp contact

HOLE NO. _____

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DIVISION _____

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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)
	310		Mudshale – med dk gy (N4), hard, sub-parallel fracs, thin horizontal laminae, some lenticular bedding w/ v thin lenses, abundant small burrows in lower 6.0', fossil frags, crinoids, brachs etc from 310-313', calcareous cement, small clay ironstone nodules at base and above fossilif. zone, sharp lower contact.	12.4'	# 25	
	315				315'	
					# 26	
	320					

ENG FORM 1836 (TRANS) 1 JUN 57 (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
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4. HOLE NO. (As shown on drawing title and file No.)	5. NAME OF DRILLER	
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10. SIZE AND TYPE OF BIT	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	12. MANUFACTURER'S DESIGNATION OF DRILL
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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)
	320		Coal blk(N1), banded, mod. bright, sulfate bloom, sharp contacts.	1.0'		A coal
			Mudstone - med lt gy (N6), mod. hard, blocky fracs, gradational lower contact	0.9		Underclay!
			Mudshale - med dk gy (N4) hard, brittle, hackly fracture, thin horizontal laminae w/ few thin silty lenses, clay ironstone nodules to 0.2' thick, sharp lower contact.	6.8'	# 26	
	325				325'	
					# 27	
			Coal blk(N1), banded, mod. bright, sulfate bloom, sharp contacts.	0.9'		B coal
	330		Mudstone - same unit as below.	2.4'		

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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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		mudstone - lt gy (N7), soft, blocky fracs, massive, silty, plant frags, irregular clay ironstone bands, gradational lower contact.	2.4'		
			Clayshale - dk gy (N3), hard, brittle, hackly fracture, slightly silty in upper 2 feet, thin horizontal laminae, non-fossiliferous, brown Fe oxide stains, clay ironstone nodules to 0.1' thick, small amount of localized calcareous cement, sharp lower contact w/ coal,	14.1'	#27	
	335	T			335'	
		T			#28	
		T				
	340					

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

PROJECT _____ HOLE NO. _____

HOLE NO. _____

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DRILLING LOG

1. PROJECT		SHEET OF
2. LOCATION (Coordinates or Station)		
3. DRILLING AGENCY		
4. HOLE NO. (As shown on drawing title and file No.)	5. NAME OF DRILLER	
6. DIRECTION OF HOLE: ☐ 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
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	340	T	Clay shale - same unit as above.			
		T				
		T				
		T		14.1	# 28	
	345	T			345	
		T			# 29	
			Coal, blk(N1), banded, sharp contacts.	0.5'		C coal
			Mudstone - ltgy(N7), soft, blocky fracs, massive, silty, micaceous, plant fossils, abundant irregular clay ironstone nodules, gradational lower contact.	3.4'		
	350					

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	350		Mudshale - dk gy, (N3) at base to med gy (N5) at top, hard, hackly fracture, silty, qtz, micaceous, thin horizontal laminae w few thin silty lenses, small amount of bioturbation, clay ironstone nodules to 0.25' thick, sharp, disconformable lower contact. calcareous cement at base.		# 29	
					354'	
					# 30	
				16.2'		
	355					
	360					

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	360		mudshale - same unit as above.		# 30	
				16.2'		
					364'	
					# 31	
	365					
			sharp contact			D horizon resembles underclay or seatrock.
			siltstone - med lt 94(N6) - lt 94(N7), hard, blocky fracs, massive, silt w mud matrix, qtz, micaceous, abundant plant fossils in upper portion, gradational lower contact.	3.8'		
	370					

ENG FORM 1838 1 JUN 57 (TRANS) (EM 1110-2-1803) PREVIOUS EDITIONS ARE OBSOLETE PROJECT _____ HOLE NO. _____

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	370		Mudshale - med. lt gy(N6), hard, blocky fracture, silty, ± 50%, massive, original bedding probably destroyed by bioturbation or leaching, few small plant fossils, intercalating lower contact.	43'	# 31	
					374'	
			Mudshale - same unit as below.		# 32	
	375+			10.5'		
	380					

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	380		Mudshale - dk gy (N3) w/ v lt gy (N8) silty laminae, hard, subparallel fracs, up to 40% silty qtz, micaceous comp, lenticular bedded w thick and thin lenses, few pyritized plant fossils, extensive burrowing, both vertical and horizontal, clay ironstone bands to 0.3' thick, gradational lower contact.	10.5'	# 32	
	383'				# 33	
	385		Coal blk (N1), banded mod. bright, sulfate bloom, 0.2' mud parting near base, sharp contacts,	1.9'		Riverton Coal.
			Mudstone - med gy N5 at base to med lt gy (N6) at top, mod hard, blocky fracs, massive, silty, plant frags, gradational lower contact.	1.7		
			Mudshale - same unit as below.	5.6'		
	390					

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	390		Mudshale - dk gy (N3) w/ lt gy (N7) silty lenses, hard, hackly fracture, up to 25% silt, qtz, micaceous, lenticular bedded w/ thin lenses, abundant plant fossils, few small horizontal burrows, clay 'ironstone' bands to 0.05' thick, sharp, disconformable lower contact.	5,6	# 33	
					393'	
					# 34	unnamed horizon resembles underclay or seatrock!
			Mudstone - med lt gy N6, mod. hard, blocky fracture, plant fossils, gradational lower contact.	0.5'		
sharp Contact →	395+		Mudshale - dk gy (N3), hard, brittle, hackly fracture, slightly silty, micaceous, thin horizontal laminae w/ occasional very thin silty lenses, abundant woody plant fossils some pyritized, abundant pyrite nodules and finely disseminated pyrite crystals, sharp, disconformable lower contact.	7,0'		
	400					

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	400		Mudshale - same unit as above,	7.0'	# 34	
			Limestone - v.ltgy(N8), hard, massive, mudstone, fractured, lightly oil stained, lower contact not observed.	1.0'		Mississippian L.S.
			Bottom of core		403'	
	405					
	410					