Strat Well PM-1

Gulf Pittsburg – Midway

HOLE NO. _____

DEPARTMENT OF THE ARMY
DIVISION _____
INSTALLATION _____
DRILLING LOG

1. PROJECT | SHEET OF
2. LOCATION (Coordinates or Station) 13-33-12 E
3. DRILLING AGENCY
4. HOLE NO. (As shown on drawing title and file No.) P+M # 1
5. NAME OF DRILLER Gulf Minerals (P+M)
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 815
18. TOTAL CORE RECOVERY FOR BORING (%)
19. SIGNATURE OF INSPECTOR

13-33-21e

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		Clayshale – dk gy(N3), hard, brittle, hackly fracture, micaceous, thin horizontal laminae, no apparent fossils, sandard calcareous cement near base, clay ironstone nodules near top, sharp lower contact w/coal.	5.8'	40' Top of Core; # 1	(logged by John Harris)
	45		Coal – blk(N1), banded, mod. bright, sharp contacts.	1.5'		Mineral Coal
			Mudstone – lt gy(N7), soft, blocky fracs, silty, micaceous, massive, plant fossils, fe-oxide stains, gradational lower contact.	2.0		
	50		Siltstone – same unit as below.	3.2'	50'	

ENG FORM 1836 (TRANS VT) 1 JUN 57 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

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	50		Siltstone – lt gy(N7), hard, massive, qtz, micaceous comp, no fossils found, abundant Fe-oxide stains, gradational lower contact.	3.2	50'	
	55		Mudshale – dk gy(N3) at base to lt gy(N7) at top, hard, parallel fractures, silty, micaceous, silt content increases upwards, thin horizontal laminae, few silty lenses near top, few brachs, crinoids & other marine fossil frags near base, localized calcareous cement, clay ironstone nodules to 0.2' dia, sharp lower contact w/ limestone.	20.8'	#2	
	60					

ENG FORM 1836 (TRANSMIT) PREVIOUS EDITIONS ARE OBSOLETE

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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)
	60		Mudshale – same unit as above,		#2 61'	
		XXX			#3	
		XXX				
	65			20.8'		
		XXX				
		XXX				
	70					

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	70		Mudshale - same unit as above		#3 71	
				20.8'	#4	
			Limestone - lt gy (N7), brachs, crinoids, calc, massive, argillaceous at base, sharp lower cont	0.8'		
			Coal - blk (N1), banded mod bright, sharp contacts.	0.6'		Scammon Coal
	75		Mudstone - med gy (N5), soft, crumbled, blocky fracture, massive, plant fossils, clay ironst, veins & nodules, grad. lower contact.	1.7'		
			Siltstone - med lt gy (N6), hard, blocky fracs, qtz, micaceous comp, wavy bedded at base to massive at top, brown Fe-oxide stain, gradational lower contact.	3.5'		
	80					

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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)
	80		Sandstone - lt gy(N7), v fine gr, qtz, micaceous, rippled to flaser bedded, authigenic siderite, abruptly gradational lower contact.	2.0	#4	Chelsea Sandstone
					82	
			Siltstone - lt gy (N7), hard, blocky fracs, qtz, micaceous, wavy bedded rippled, convolute bedding, authigenic siderite, gradational intercalating lower contact.	2.6'	#5	
	85		Mudshale - dk gy(N3) at base to med lt gy(N6) at top, hard, parallel fracs, silty, micaceous, thin horizontal laminae at base to lenticular bedded at top, sand lenses to 0.3' thick at top w/ convolute bedding, few white, marine fossil frags near base, plant frags scattered throughout, localized calcareous cement, clay ironstone nodules →	2.8'		
	90					

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

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	90		Mudshale - same unit as below. (cont) to 0.1' thick, sharp lower contact w/coal.		# 5	
					92'	
					# 6	
	95			28.8'		
	100					

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	100		Mudshale - same unit as above.		# 6	
					102'	
					# 7	
	105			28.8		
	110					

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

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

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

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	110		Mudshale - same unit as above.		# 7	
		T		28.8'	112'	
		T			# 8	
		T				
		T				
			Coal - blk (N1), banded, mod. bright, sharp contacts.	0.6'		Tebo coal
	115		Mudstone - med lt gy (N6), mod. hard, blocky fracs, silty, micaceous, massive, plant frags, irregular clay ironstone bands, gradational lower contact.	2.5'		
			Siltstone - med lt gy (N6), hard, blocky fracs, massive, qtz, micaceous, few plant fossils, authigenic siderite crystals & veins, sharp lower contact w/ coal.	4.5'		
	120					

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

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	120		Siltstone – same unit as above.	4.5	#8	
			Coal – smut	0.1'		Tebo "B" coal
			Mudstone – med lt gy(N6), soft, crumbled, blocky fracture, massive, silty, micaceous, plant fossils, gradational lower contact.	2.4'	122' #9	
	125		Mudshale – med H gy(N6), mod. hard, parallel fracs, silty, micaceous, thin horizontal laminae, no fossils found, few sand sized authigenic siderite crystals, gradational lower contact.	5.5'		
			Siltstone – med H gy (N6) hard, qtz, micaceous, wavy bedded, abundant burrows, authigenic siderite, gradational lower contact.	1.5'		
	130		Sandstone – same unit as below	1.5'		

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	130		Sandstone – lt gy (N7), hard, massive, U fine gr, micaceous, convolute bedding grad. lower contact.	1.5'	# 9	
			Siltstone – alt lt gy (N7) & med gy (N5) laminae, wavy bedded, few small burrows, abundant plant frags, gradational lower contact.	2.6'	132' # 10	
			Mud shale – same unit as below.	14.0		
	135					
	140					

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

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	140		Mudshale - dk gy (N3), hard, brittle, hackly fracture, slightly silty, micaceous, thin horizontal laminae, few silty lenses near top, silt content increasing upwards, few small marine fossil frags, clay ironstone bands to 0.1' thk, calcareous cone in cone structure at 144', sharp lower contact w/ coal.	14.0'	# 10 142' # 11	
	145		Coal - smut	0.2'		Weir-Pittsburg coal
			Mudstone - same unit as below.	5.2'		
	150					

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	150		Mudstone - lt gy (N7), soft, blocky fracs, crumbled, silty, micaceous, massive, abundant plant fossils, some authigenic siderite, Fe-oxide stains, gradational lower contact.	5.2'	# 11 152'	
	155		Siltstone - med lt gy (N6) at base to lt gy (N7) at top, hard, blocky fracs, qtz, micaceous comp, sequence coarsens upwards, wavy bedded at base to flaser bedded at top, few ripples, mud content decreases upwards, few plant fossils, abundant sand sized authigenic siderite crystals, gradational lower contact.	6.4'	# 12	
	160		Mudshale - same unit as below.	6.0		

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	160		Mudshale - med dk gy (N4) at base to med. lt gy (N6) at top, hard, sub-parallel fracs, silty, micaceous, lenticular bedded w/ thin lenses, few small plant fossils, clay ironstone nodules to 0.2' dia, gradational lower contact.	6.0'	# 12 161	
	165		Siltstone - v lt gy (N8) w/ med. gy (N5) laminae, hard, blocky fracs, 60-40 silt-mud ratio, wavy bedded, abundant plant fragments, few burrows, brown Fe-oxide stains, gradational lower contact.	2.6'	# 13	
	170		Mudshale - med dk gy (N4) at base, to med gy (N5) ↑, hard, parallel fracs, silty, qtz, micaceous, lenticular bedded w/ thin lenses - >	3.5'		

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	170		Mudshale – (cont), silt content increasing upwards, few small plant frags, sparsely burrowed, gradational lower contact.	3.5'	13 # 171'	
			Clayshale – dkgy(N3), hard, brittle, hackly fracture, micaceous, thin horizontal laminae, no fossils found, abundant clay ironstone bands to 0.1' thk, localized calcareous cement, sharp lower contact w/coal.	8.7'	# 14	
	175					
	180					

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

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

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	180		Shale - same as above.	8.7	190'	Bluejacket "A" coal
			Coal - smut.	0.2		
			Mudstone - M. gy(N7) soft, blocky fracs, slightly silty, micaceous, massive, abundant plant fossils, brown Fe-oxide stains, gradational lower contact.	2.3'		
			Clayshale - dk gy (N3), hard, brittle, hackly fracture, micaceous, thin horizontal laminae, few small crinoids & other fossil		# 15	
	185±		frags at base, small amount calcareous cement near base, clay ironstone bands to 0.1' thk, sharp lower contact w/coal,	6.7'		
			Coal - smut	0.1		Bluejacket "B" coal
	190		Mudstone - same unit as below.		191'	may be fresh H_2O limestone below coal.

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

PROJECT _____ HOLE NO. _____

HOLE NO. _____

DEPARTMENT OF THE ARMY
DIVISION _____
INSTALLATION _____

DRILLING LOG

1. PROJECT		SHEET OF
2. LOCATION (Coordinates or Station)		
3. DRILLING AGENCY		
4. HOLE NO. (As shown on drawing title and file No.)	5. NAME OF DRILLER	
6. DIRECTION OF HOLE: ☐ VERTICAL ☐ INCLINED; DEGREES WITH VERTICAL	7. THICKNESS OF 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)
	190		Mudstone - med lt gy (N6), mod. hard, blocky fracs, silty, micaceous, massive, abundant plant fossils, may contain fresh water lime just below coal. gradational lower contact.	3.3'	190'	
	195		Mudshale - med lt gy (N6), hard, sub-parallel fracs, silty, micaceous, occasional silty lense, few burrows small plant fragments, gradational lower contact	2.5	# 16	
			Siltstone - lt gy (N7), , hard, blocky fracs, qtz, micaceous comp, original bedding destroyed by bioturbation, auth. siderite, gradational lower contact,	2.0		
	200		Interbedded sandstone & siltstone, v lt gy (N8) and med lt gy (N6) interbeds, hard, blocky fracs, qtz, micaceous comp, sand layers to 0.8' thick, no apparent structures, abundant soft sediment folding, sand sized	4.0	200'	

HOLE NO. _____

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

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	200		Interbedded Sandstone & siltstone, (cont) authigenic siderite crystals, gradational lower contact.	4.0'	200'	
			Siltstone – alt. v lt gy (N8) & med. lt gy (N6) laminae, hard, sub-parallel fracs, qtz, micaceous comp, 40-60 silt-mud ratio, wavy bedded, small plant frags, gradational, intercalating lower contact.	2.5'		
	205		Sandstone – v lt gy (N8), hard, blocky fracs, very fine - fine gr, qtz, micaceous comp, rippled at base, lg scale x-strat. in middle, rippled w/ flaser bedding at top, few small plant frags, sand sized authigenic siderite crystals, sharp, non-scoured lower contact, slightly intercalating,	3.7'	# 17	Upper Bluejacket S.S.
			Siltstone – alternating v lt gy (N8) & m lt gy (N6) laminae, hard, parallel fracs, qtz, micaceous comp, 50-50 silt/mud ratio, wavy bedded, few small plant fossils, sharp, non-scoured lower contact,	2.8'		
	210				210'	

ENG FORM 1836 1 JUN 57 (TRANSVT) (RM 1110-2-1301) 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			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		Siltstone - same unit as above	2.8'		
			Clayshale - dk gy(N3), hard, brittle, hackly fracture, micaceous, thin horizontal laminae, no fossils found, clay ironstone nodules to 0.1' dia, gradational lower contact.	3.6'	#18	
			Argillaceous Limestone - lt gy(N7) to med gy(N5), hard, brachs, crinoid stems + other marine fossil frags, sharp lower contact w/ coal.	1.0'		
	215		Coal, blk(N1), banded, mod bright, sharp contacts.	0.2		Bluejacket "C" coal
			Mudstone - lt gy(N7), mod. hard, blocky fracs, silty, massive, plant frags, abundant irregular clay ironstone nodules, gradational lower contact.	1.9'		
			Mudshale - same unit as below.	13.4'	219'	
					#19	
	220					

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

PROJECT _____ HOLE NO. _____

HOLE NO. _____

DEPARTMENT OF THE ARMY

DIVISION: _____

INSTALLATION _____

DRILLING LOG

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

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	220		Mudshale - med dk gy(N4) - med gy(N5), hard, parallel fracs, silty, qtz, micaceous, thin horizontal laminae at base to lenticular bedded at top, few small brachs & crinoid stems, burrowed in upper 5', localized calcareous cement, thin clay ironstone nodules, brown Fe-oxide stains, sharp lower contact w/ coal,		# 19	
	225	T		13.4'		
		T			229' # 20	
	230					

ENG FORM 1836 1 JUN 57 (TRANSMITTAL VT) (EM 1110-3-1301) 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)
	230		Shale - same as above			Bluejacket "D" coal
			Coal, blk(N1) sharp contacts	0.25		
			Mudstone - ltgy(N7), mod. hard, blocky fracture, slightly silty, micaceous, massive, abundant plant fossils, few v. small clay ironstone nodules, gradational lower contact	2.1		
			Silt-shale - olt. ltgy(N7) & med gy(N5) laminae, hard, parallel - blocky fracs, lent. - wavy bedded, abundant bioturbation, abruptly gradational lower contact.	1.5'	# 20	
	235		Mud shale - med gy(N5) to med ltgy.(N6), hard, parallel fracs, silty, qtz, micaceous, thin horizontal laminae w/ occasional thin silty laminae, few small plant fossils clay ironstone nodules to 0.1' thick, sharp lower contact w/ Coal.	20.6'	239' # 21	
	240					

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

PROJECT _____ HOLE NO. _____

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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)
	240		Mudshale - same unit as above.			
	245+			20.6'		
	250				#21	
					248	
					#22	

HOLE NO. _____

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DRILLING LOG

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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)
	250		Mudshale - same unit as above.	20.6'	# 22	
	255		Coal - blk (N1), banded, mod. bright, sharp contacts	0.35		Drywood coal
			Mudstone - lt. gy (N7) mod. hard, blocky fracture, silty, massive, abundant plant fossils, irregular clay ironstone nodules less than 0.1' dia, gradational lower contact.	2.2'		
			Mudshale - med. lt. gy. (N6), hard, parallel fracs, silty, micaceous, thin bedded w/. occasional silty lense, non fossiliferous, gradational lower contact.	1.8'	258' # 23	
			Clayshale - same unit as below.	8.8'		
	260					

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

PROJECT _____ HOLE NO. _____

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INSTALLATION _____

DRILLING LOG

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

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	260		Clayshale - dk gy (N3), hard, brittle, hackly fracture, micaceous, thin horizontal laminae, nonfossiliferous, localized calcareous cement, sharp lower contact w/ coal. Few clay ironstone bands to 0.1' thk.			
		T				
		T		8.8'	# 23	
	265					
		T				
			Coal - blk (N1), smut, sharp contacts	0.1	268'	Rowe coal
			Mudstone - lt gy (N7), mod. hard, blocky fracs, slightly silty, massive, plant frags, irregular clay ironstone bands, gradational lower contact.	2.0	# 24	
	270					

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

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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			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), hard, brittle, hackly fracture, slightly silty at base with silt content increasing upwards, qtz, micaceous, thin horizontal laminae at base to lenticular bedded at top with very thin lenses, nonfossiliferous, clay ironstone bands to 0.2' dia, irregularly shaped near top, silty zones near top show few small horizontal burrows gradational lower contact.)	25.0	# 24	
	275				277	
					# 25	
	280					

ENG FORM 1836 (TRANSMITT) PREVIOUS EDITIONS ARE OBSOLETE

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HOLE NO. _____

DEPARTMENT OF THE ARMY

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DRILLING LOG

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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.			
					#25	
	285			25.0'		
					287'	
					#26	
	290					

ENG FORM 1836 1 JUN 57 (TRANSMT) (FRM 1110-2-1301) 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
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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)
	290		Mudshale – same unit as above.	25.0'	#1 26	
	295		Silt shale – med dk gy(N4) & lt gy(N7) laminae, hard, parallel fracture, silty, micaceous, silt content decreasing upwards, wavy bedded at base to lenticular bedded at top, abundant woody plant fragments, clay ironstone bands to 0.1' thick few small burrows, graded laminae, intercalating lower contact.	6.0'	29.7' # 27	
	300					

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

PROJECT _____ HOLE NO. _____

HOLE NO. _____

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DIVISION _____
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DRILLING LOG

1. PROJECT		SHEET OF
2. LOCATION (Coordinates or Station)		
3. DRILLING AGENCY		
4. HOLE NO. (As shown on drawing title and file No.)	5. NAME OF DRILLER	
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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)
	300		Siltshale - same unit as above	6.0'		
			Sandstone - med ltgy (N6), hard, blocky fracs, very fine gr, abund. mud matrix & laminae, qtz, micaceous comp, flaser bedded, rippled, few small plant frags, clay ironstone [illegible] to 0.1' thick, gradational, intercalating lower contact.	3.5'	# 27	Upper Warner Sandstone
	305+		Siltshale - alternating ltgy (N7) & med dkgy (N4) laminae, hard, parallel fracs, approx. 50-50 silt - mud ratio, qtz, micaceous, wavy bedded, few plant frags, grad. intercalating lower contact.	2.4'	307'	few small burrows at 306'
			Mudshale - med dkgy (N4), hard, parallel fracs, silty, micaceous, lent. bedded, silty lenses increasing upwards, finely divided plant material, sharp irregular lower contact.	2.1'	# 28	
Sharp Contact			Mudstone - med ltgy (N6) clay ironst.	0.6'		[illegible] resembles underclay
	310		Clayshale - dk gy (N3) clay ironstone	1.2'		

ENG FORM 1836 (TRANS [illegible] VT) 1 JUN 57 PREVIOUS EDITIONS ARE OBSOLETE PROJECT _____ HOLE NO. _____

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)
	310		Clayshale - same unit as above,	1.2'		
			Calcareous Mudshale - med dk gy, hard, blocky fracture, silty, micaceous, thinly laminated, abundant brachs, crinoid stems + other fossil frags, clay ironst. in upper 0.1', gradational lower contact.	2.5'		
			Mudshale, dk gy N3, hard, brittle, parallel fracs, silty, micaceous, few small plant frags, occasional small brachiopods near base, upper 1' appears burrowed, clay ironstone nodules to 0.1' dia, sharp lower contact w/coal,	6.4'	# 28	
	315				317'	
					# 29	
	320		Coal, blk (N1), bony ↑ same as below	1.3		"A" coal

HOLE NO. _____

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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
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		Coal-blk(N1), hard, banded, mod. bright, sulfate bloom, upper 0.3' bony, sharp contacts,	1.3'		"4" coal
			Mudstone - med dk gy(N4), mod. hard, blocky fracture, silty, micaceous, abundant plant frags, no apparent bedding, gradational lower contact.	3.0'	#29	
	325+		Mudshale - dk gy(N3), hard, brittle, parallel fracture, slightly silty, micaceous, thin horizontal laminae, occasional very thin silty laminae, few small plant frags, upper portion may be burrowed, clay ironstone nodules to 2.1' dia, sharp lower contact.	5.9'	326' #30	
	330		Coal - same as below	0.7'		"3" coal

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

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

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

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

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	330		Coal, blk (N1), banded, mod. bright, suf. bloom, sharp contacts	0.7'		"B" coal
			Mudstone - med gy (N5) at base to med H gy (N6) ↑ mod. hard, blocky fracs, massive, silty, micaceous, plant frags, authgenic siderite crystals, several irregular ironstone nodules near base, gradational lower contact.	3.2'	# 30	
			Mudshale - same unit as below,			
	335+				336'	
				17.0'	# 31	
	340					

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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)
	340		Mudshale — dk gy (N3), hard, brittle, hackly fracture, slightly silty, occasional very thin silty laminae, thin, horizontal laminae, some finely divided plant debris, clay ironstone nodules to 0.4' thick, small amt. localized calcareous cement, sharp lower contact w/coal.		# 31	
	345+			17.0'		
					346'	
					# 32	
	350					

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DRILLING LOG

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ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	350		Mudshale - same unit as above.	17.0		
			Coal - smut	0.1		"C" coal
			Mudstone - med 9y(N5) to lt 9y(N7), mod. hard, blocky fracture, massive, silty, qtz, micaceous, abundant plant + root frags, irregular clay ironstone nodules, sand sized authigenic siderite near base, gradational lower contact.	6.7'	# 32	Skipped Box # 33, 34, + 35 for some reason.
	355				355	
					# 36	core + elevations O.K.
			Mudshale - same unit as below.	16.7'		
	360					

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ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	360		Mudshale - med. dk gy N4 w/ brown mottling, few very thin M. gy (N7) silty laminae., hard, parallel fracture, slightly silty, qtz, micaceous, thin horizontal laminae w/ few very thin silty lenses, small plant frags + small horizontal burrows, few clay ironstone bands to 0.1' dia, brown Fe oxide stains, sharp lower contact.		# 36	
		XXX			364'	
				16.7'	# 37	
	365	XXX				
	370					

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13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN		14. TOTAL NO. CORE BOXES	15. ELEV. GROUND WATER	16. DATE 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)
	370		Mudshale – same unit as above.	16.7'	# 37	
	374'		Limestone, med lt gy(N6) to lt.gy.(N7), hard, wackestone, massive, few small brachs, other fossil frags, calcareous cement in some fractures, may contain sphalerite, thin shale parting 1.7' above base, sharp upper + lower contact.	3.9'	# 38	possibly diagenetic concretion?
	378'		Mudshale – dk gy(N3), hard, brittle, parallel fracture, slightly silty, qtz, micaceous, thin, horizontal laminae, few small plant fragments, brown Fe oxide stains, sharp lower contact.	2.7'		
	380					

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	380		mudshale – same as above.	2.7'		
			Coal blk (N1), hard, banded, med. bright, abundant sulfate bloom in upper portion, sharp contacts, some zones bony, (Contain some mud)	3.2'	# 38	D coal coal
	384		siltstone –		384'	
					# 39	
	385					
				6.3		
	390		coal – same as below.	0.6		

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	390		Coal - blk(N1), sulfate bloom, banded, mod. bright, hard, sharp contacts,	0.6'		Coal has thin clay parting 0.2' above base. ~~Unnamed~~ coal Riverton ?
			mudstone - med ltgy(N6), mod. hard, blocky fracture, massive, plant frags, gradational lower contact.	1.5		
			Mudshale - dkgy(N3) w ltgy (N7) laminae, hard, parallel fracture, 10-15% silt, lenticular bedded w very-thin lenses, qtz, micaceous cont, abundant woody plant fragments, some Pyritized, few small horizontal burrows in lent. bedded zones, clay ironstone nodules to 0.1' thick, several concentrated at base, sharp, dis conformable lower contact.	5.7'	# 39 393' # 40	
	395					sharp contact Unnamed Horizon
sharp contact			mudstone med ltgy(N6), mod. hard, blocky fracs, massive, few small plant frags, pyrite concretions near top. clay ironstone nodules above sharp contact. grad. lower cont.	1.0'		
			Mud shale - dkgy(N3) at base to med dkgy(N4) at top, same as below except slightly silty, gradational lower contact.	1.6'		
	400					

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	400		Clay shale – vdk gy N2 – dk gy (N3), hard, brittle, hackly fracture, no silt, thin, horizontal laminae, few small woody plant frags, no apparent bioturbation abundant pyrite nodules to 0.05' dia., finely disseminated pyrite, lower contact sharp & disconformable w/chert clasts & shale veins in limestone,	7.4'	#40	
					403'	
					#41	
	405					
						major unconformity Mississippian Limestone
			Limestone – v.lt.gy.(N8), hard, massive, mudstone, extensive fractures, lt. oil stn. in some zones, abundant pyrite nodules, lower contact not observed, upper contact disconformable w/shale.			
	410					

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	410		Limestone - same unit as above.		#	
				5.5'	41	
			Bottom of core 413'			
	415					
	420					