Gulf Pittsburg - Midway

Strat Well PM-7

HOLE NO.

DEPARTMENT OF THE ARMY
DIVISION
INSTALLATION

DRILLING LOG

1. PROJECT | SHEET OF

2. LOCATION (Coordinates or Station) SW SW SE Sec. 6, T32S R22E

3. DRILLING AGENCY P+M (Gulf Minerals)

4. HOLE NO. (As shown on drawing title and file No.) P+M #7

5. NAME OF DRILLER P+M

6. DIRECTION OF HOLE			7. THICKNESS OF OVERBURDEN	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
840		

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					Description by John Harris
			43' Top of Core			
			Limestone, ltgy (N7), mudstone, hard, massive, calcareous, occasional crinoid stems & brachiopods,		1	Verdigris L.S. Sampled by Dr. Joe Hatch
	45		sharp lower contact with shale.	4'		
			Shale, dk gy (N3), mudstone, slightly			
		T	silty, hard, micaceous,			
			thin horizontal	9.8'		
		T	laminae, abundant brachiopods & zones			
			of fossil debris,			
			calcareous cement,			
			few calcareous nodules,			
	50	T	sharp lower contact.		1	

6-32-22e

ENG FORM 1 JUN 57 1836 (TRANSLUCENT) (EM 1110-2-1804) PREVIOUS EDITIONS ARE OBSOLETE

PROJECT HOLE NO.

HOLE NO. _____

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DRILLING LOG

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

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	50	T	Shale, same unit as above.		1	
					51'	
		⊥			2	
		T		9.8'		
		⊥				
	55	⊥				
			Shale, med ltgy (N6), mudstone, slightly silty, micaceous, mod. hard, thin horizontal laminae, nonfossiliferous, sulfate bloom in lower .5', sharp lower contact,	3.4'		
			Coal, blk (N1) banded, mod bright, hard, sulfate bloom calc. cement sharp contacts,	0.9'		Croweburg coal
			Mudstone, same unit as below,	2.2'	2	
	60					

ENG FORM 1 JUN 57 1836 (TRANSLUCENT) (EM 1110-2-1801) 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		Mudstone, med Hgy (N6), soft, blocky fracture, massive, plant frags, gradational lower contact.	2.2'	2 61' 3	
			Shale, med Hgy (N6) mudstone, slightly silty, mod. hard, thin horizontal laminae, no fossils, brown mottling, lower contact absent.	1.7'		
			3.0' coreloss 63.2'-66.2' Shale	3.0'		
	65		Shale, dk gy (N3), calcareous, marine fossil frags, thin bedded, sharp lower contact.	1.1'		
			Coal, blk (N1), hard, banded, mod. bright, sulfate bloom, sharp contacts	0.9'		Fleming coal
			Mudstone, same unit as below	3.9'	3	
	70					

ENG FORM 1 JUN 57 1836 (TRANSLUCENT) (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)
	70		Mudstone, med lt gy (N6), slightly silty, soft, blocky fracture, massive, abundant plant frags, sand sized authigenic siderite crystals, gradational lower contact.	3.9'	3	
			Shale, med gy (N5) ↓ to lt gy N7 ↑, mudstone, slightly silty, micaceous, mod. hard, thin horizontal laminae, unfossiliferous, abundant irregular clay ironstone bands to 0.2' thick, sand sized authigenic siderite crystals, gradational lower Contact.		3	74'
					4	
	75			8.9'		
	80				4	

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	80		Shale, same unit as above.	8.9'	4	
			3.0' core loss Shale	3'		
			Shale, dk gy (N3), claystone, thinly lam, clay ironstone bands, sharp lower contact.	0.4'		
			Coal, blk (N1), banded, mod. bright, sulfate bloom, upper 0.1' bony, sharp contacts.	0.6'		Unnamed Coal
	85		Mudstone, med Hgy (N6) – lt gy (N7) at top. slightly silty, soft, blocky fracture, massive, plant fragments, few authigenic siderite crystals, small clay ironstone nodules, 1 cm dia., gradational lower contact,	3.4'	4 87	
			Shale, same unit as below.	5.3'	5	
	90				5	

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	90		Shale, med dk gy (N4) at base to med lt gy (N6) at top, Claystone, micaceous, mod. hard, thin horizontal laminae, non-fossiliferous, few sand sized authigenic siderite crystals, small clay ironstone nodules. gradational lower contact.	5.3'	5	
	95		Shale, med dk gy (N3), Claystone, hard, thin horizontal laminae, abundant brachiopods & crinoid stems, fossil debris, calcareous cement, sharp lower contact with coal.	2.6'	5	
			Coal, blk (N1), banded, mod. bright, hard, sulfate bloom, sharp contacts.	1.3'	97'	Mineral coal
			2' core loss Mudstone	2'	6	
	100		Mudstone, same as below	4.8'	6	

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	100		Mudstone, med H gy (N6), silty, hard, blocky frac., massive, abundant plant fragments, irregular clay ironstone bands, up to 0.4' thick, gradational lower contact.	4.8'	6	
	105		Shale, same unit as below.	7.1'	6	
					109'	
	110				7	

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

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	110		Shale, dk gy(N3) at base to med lt gy(N6) at top, claystone, micaceous, thin horizontal laminae, few marine fossil frags at base, localized calcareous cement, clay ironstone bands to 0.2' thick, sharp lower contact with coal, gradual lightening of color upwards.	17.1'	7	
	115				7	
					118	
	120				8	

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	120		Shale, same unit as above	17.1'	8	
			Coal, blk (N1), banded, moderately bright, sulfate bloom, sharp contacts.	0.7'		Scammon coal.
			Mudstone, med gy (N5), slightly silty, soft, blocky frac., massive, abundant plant frags, irregular clay ironstone nodules to 0.1' thick,			
	125		sand sized authigenic siderite crystals, gradational lower contact,	6'	8	
			Interbedded sandstone + shale, l gy (N7) + med gy (N5) laminae, mod. hard, thin bedded, few small plant frags, gradational lower contact,	2.6'	128 9 9	
	130					

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	130		Interbedded sandstone & shale, same unit as above.	2.6'	9	
	135		Sandstone, ltgy(N7) w/brown mottling, sublitharenite, fine - very fine grained, qtz, muscovite predominant mins. ripple cross lamination at base, dune-cross stratification in middle, individual strata .5cm thick, rippled at top, abundant leaves & plant frags, flattened clay ironstone nodules 0.1' long, some sand sized authigenic siderite crystals, intercalating lower contact,	10.9'	9 138' 10	Chelsea S.S.
	140				10	

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

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	140		Sandstone, same unit as above.	10.9'	10	Chelsea S.S.
	145		Interbedded siltstone and shale, alternating lt gy (N7) and med gy (N5) laminae, some silty beds up to 0.4' thick, qtz, micaceous comp, thin wavy bedding, silty layers show ripple drift cross lamination, abundant plant fragments along bedding planes, localized calcareous cement., yellowish brown stains, may be sulfate bloom, gradational lower contact.	8'	10 149	
	150				11	

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

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	150		Shale, same unit as below,		11	
				18'		
	155				11	
					159	
	160				12	

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	160		Shale, med dkgy (N4) at base to med ltgy (N6) at top, claystone, micaceous, mod. hard, becoming slightly silty near top, thin horizontal laminae, abundant pyritized plant fragments along bedding planes. abundant clay ironstone bands up to 0.1' thick, irregular small pyrite concretions .5cm dia, and localized calcareous cement., gradational lower contact.	18'	12	
	165				12	
					168'	
			Shale, same unit as below.	9.3'	13	
	170				13	

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	170		Shale, dkgy (N3) at base to medgy (N4) at top. Claystone, micaceous, hard, thin horizontal laminae, few very small fossil fragments, probably brachiopods, localized calcareous cement, sharp lower contact.	98.3'	13	
	175		Coal, blk (N1), banded, mod. bright, sulfate bloom, sharp contacts.	0.5'		~~Coal = Pittsburg coal~~ Tebo "B" coal Top 2' an ~~underclay~~ or Seatrock
			Siltstone, same unit as below.	12.2'	Box 13 179'	
	180				Box 14	

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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)
	180		Siltstone, v lt gy (N8) at base to med lt gy (N6) at top, qtz, micaceous comp, muddy near top, hard, thinly laminated at base to massive near top, abundant plant fragments near top, calcareous cement at base, sand sized authigenic siderite crystals, brown mottling, contains a 6" interval of conglomerate at 185' which has clay ironstone & other intraformational clasts, probably a storm deposit, badly affected by diagenesis, gradational lower contact.		14	
	185			12.2'		
					Box 14 189	
	190				15	

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DRILLING LOG

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

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

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

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	190		Sandstone - v.lt.gy (N8), sublitharenite, fine - very fine grained, abundant mud matrix, quartz, micaceous composition, subcritically climbing ripple x-laminae, non fossiliferous, calcareous cement and sand sized authigenic siderite crystals, sharp, scoured lower contact, (may be a marine sand)	8.0'	15	Unnamed S.S.
	195		scour surface			
			Shale, same unit as below.	7.8'	Box 15 199	
	200				16	

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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)
	200		Shale, med dk gy (N4) with brown mottling, mudstone, silty laminae near base decreasing in abundance upwards, micaceous, hard, thinly laminated, lenticular bedded, few small plant fragments, bioturbated, elongate clay ironstone nodules to 2 cm in dia, gradational lower contact.	7.8'	16	
	205	T	Shale, same unit as below	11.6'	Box 16 209	
		T				
		T				
		T				
		T				
	210				17	

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DRILLING LOG

1. PROJECT | SHEET OF

2. LOCATION (Coordinates or Station)

3. DRILLING AGENCY

4. HOLE NO. (As shown on drawing title and file No.)

5. NAME OF DRILLER

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

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

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

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

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	210		Shale, dkgy(N3) at base to med dkgy(N4) at top., claystone, with small amount of silt near top, hard, micaceous, thin horizontal laminae, nonfossiliferous, localized calcareous cement, clay ironstone bands to 0.1' thick, abundant brown mottling, sharp lower contact with coal, becoming silty near top.	11.6'	17	
	215		Coal, blk(N1), banded, mod. bright, sulfate bloom, sharp contacts.	0.4'		Bluejacket coal "A"
			Claystone, medgy(N5), soft, crumbled, massive, plant frags, yellowish stains, gradational lower contact.	0.8'		
			Shale, dkgy(N3), claystone, micaceous, hard, brittle, thin horizontal laminae, abundant brachs, crinoids → marine fossil debris at base, localized calcareous cement, sharp lower contact.	2.7'	Box 17 219	
	220				18	

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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
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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)
	220	T T ⊥	Shale, same unit as above	2.7'	18	
		— — — — — — — — — —	Mudstone, med Hgy (N6), silty, micaceous, soft, blocky fracture, massive, abundant plant fragments, small, irregular clay ironstone nodules 1 cm dia., gradational lower contact,	2.3'		resembles underclay but no coal, "B" Bluejacket horizon
	225	... ...	Siltstone, Hgy (N7), qtz, micaceous comp, silts & mud matrix, thinly laminated, small plant fragments along bedding planes, few sand sized authigenic siderite crystals, gradational lower contact.	7.2'	Box 18 229	
	230				19	

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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)
	230		Sandstone, v ltgy(N8), sublitharenite, fine to very fine grained, abundant mud matrix, qtz, micaceous comp, hard, thin bedded, ripple cross laminated, contains a few small plant frags, sand sized authigenic siderite crystals, abundant oil stains, gradational lower contact.	8.0'	19	Upper Bluejacket S.S.
	235					
			Siltstone, ltgy(N7) - v ltgy(N8), qtz, micaceous, hard, alternating ltd dk laminae, rippled, few small plant frags, authigenic sand sized siderite crystals, sharp, scoured lower contact.	3.2'	Box 19 239	
	240				20	

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	240		Siltstone, same unit as above. minor scour?, probably not scoured	3.2'	20	
		T	Shale, dkgy(N3), mudstone, slightly silty, micaceous, thin horizontal laminae, abundant brachs, crinoids, bryozoans & other fossil debris at base, clay ironst. band 0.1' thick, sharp lower contact.	2.7'		
argill. 2.5'			Coal, blk(N1), banded mod. bright, sulfate bloom, sharp contacts.	0.3'		Bluejacket coal "C"
	245		Mudstone, med ltgy (N6), silty, micaceous, soft, blocky frac., massive, few plant fragments, authigenic sand sized siderite crystals & clay ironst. nodules to 0.5" dia. gradational contact.	2.0'		
			Shale, med dkgy(N4) with a few ltgy(N7) silty laminae, mudstone, micaceous, hard, lenticular bedding, thinly laminated, nonfossiliferous, few horizontal burrows; few small pyrite crystals, gradational lower contact.	7.0'	Box 20 249 Box 21	
	250					

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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)
	250		Shale, same unit as above.	7.0'	21	
	255		mudstone, med gy(N5), silty, hard, massive, qtz, micaceous comp, extensively bioturbated, brachs 1cm dia in upper part, clay ironstone band at top encloses fossils, sharp lower contact.	3.0'		"D" Bluejacket horizon
			Shale, med dk gy(N4) w/ ltgy(N7) silty laminae, mudstone, silty, with silty laminae increasing upwards, hard, micaceous, thin horizontal laminae, nonfossiliferous, small amounts of localized calcareous cement, clay ironstone bands to 1cm thick., gradational lower contact.	6.5'	Box 21 259	
	260				22	

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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	
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ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (drilling time, water loss, depth of weathering, etc., if significant)
	260		Shale, same unit as above.		22	
				6.5'		
			Siltstone, same unit as below.			resembles underclay, no coal
	265			16.3'		
					Box 22 269	
					23	
	270					

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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)
	270		Siltstone, med ltgy(N6), micaceous, abundant mud, hard, paralell fracture, thinly laminated, bedding destroyed by diagenesis, abundant plant frags in upper 4', abundant sand sized authigenic siderite crystals, few small clay ironstone nodules, 1cm diameter, gradational lower contact.		23	Lower Bluejacket S.S. Interval
				16.3		
	275					
					Box 23 279	
			Shale, same unit as below.	7.3'		
	280				24	

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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
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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)
	280		Shale, med dk gy (N4) at base to med lt gy (N6) at top, mudstone, slightly silty, mod. hard, thin horizontal laminae, micaceous, non-fossiliferous, some brown stains, uniform color + comp except near top. sharp lower contact w/coal.	7.3'	24	
	285		Coal, blk (N1), banded, mod. bright, hard, sulfate bloom & calc. cement in fracs, sharp contacts.	0.6'		Drywood coal
	288		Mudstone, lt gy (N7), slightly silty, mod. hard, blocky frac, massive, plant frags, sand sized authigenic siderite crystals, irregular clay ironst. concretions to 1cm dia, gradational lower contact.	3.0'	Box 24 288 / Box 25	
	290					

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	290		Shale, dkgy(N3) at base to medgy(N5) at top, claystone, slightly silty near top, hard, brittle, thin horizontal laminae, unfossiliferous, very thin clay ironst bands 5 mm thick, upper 1.5' of unit gradational, sharp lower contact w/ coal,	8.1'	25	
	295				Box 25 296	
			Coal, blk N1, smut. sharp contacts.	0.1'	Box 26	Rowe coal
			Mudstone, same unit as below,	3.1'		
	300				26	

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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
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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		Mudstone med ltgy (N6) at base to med gy (N5) at top, soft, blocky fracture, silty, massive, plant fragments, irregular clay ironstone conc., gradational lower contact	3.7'	26	
			Shale, med gy (N5) at base to med lt gy (N6) at top. mudstone, silty, micaceous, mod. hard, thin horizontal laminae, few very small plant frags. along bedding planes, 0.3' clay ironstone band at base, irregular clay ironst. nodules to 0.1' dia, sand sided authigenic siderite crystals, gradational lower contact.	6.5'	Box 26 306 Box 27	
	305	⊕				
		⊕				
		XXX	Shale, same unit as below.	11'		
	310				27	

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	310		Shale, dkgy (N3) at base to med dkgy (N4) at top, claystone, micaceous, hard, brittle, thin horizontal laminae, unfossiliferous, few very thin clay ironstone laminae, less than 5 mm thick, few sand sized authigenic siderite crystals, sharp lower contact, marked by clay ironstone nodule.		27	
					Box 27 34'	
					Box 28	
	315			11'		
		XXXX	mudstone, same unit as below,		29	Neutral coal horizon
	320					

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PROJECT _____ HOLE NO. _____

HOLE NO. _____

DEPARTMENT OF THE ARMY
DIVISION _____
INSTALLATION _____

DRILLING LOG

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

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (drilling time, water loss, depth of weathering, etc., if significant)
	320		Mudstone, med ltgy (N6), slightly silty, micaceous, faint thin laminae at base to massive at top with blocky fracture, mod. hard, few small plant remains, irregular clay ironstone nodules to 0.2' thick, sharp lower contact.	6.6'	28	
					Box 28	
	325				325	
					Box 29	
			Shale, med dkgy (N4), claystone, hard, brittle, micaceous, thin horizontal laminae, unfossiliferous, clay ironstone bands to 0.1' thick, sharp lower contact, marked by clay ironstone layer.	3.8'		
			Interbedded siltstone & shale, same unit as below	11.7'		
	330				29	

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

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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)
	330		Interbedded siltstone & shale, alterneting U lt gy (N8) and med gy (N5) laminae, silty laminae up to 1cm thick., shale more abundant, wavy bedded, hard micaceous, qtz comp, small plant debris along bedding planes, silty layers show ripple cross laminae, few thin clay ironstone bands up to 0.1' thick, sharp lower contact marked by clay ironstone band,	11.7'	29	
					Box 29 335	
	335				Box 30	
	340				30	

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

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7. THICKNESS OF OVERBURDEN
8. DEPTH DRILLED INTO ROCK
9. TOTAL DEPTH OF HOLE
10. SIZE AND TYPE OF BIT
11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
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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
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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		Interbedded siltstone d shale, same unit as above.	11.7'	30	
		T ⊥ T T ⊥ T	Shale, med gy (N5), mudstone, silty, micaceous, hard, thin horizontal laminae, few small plant frags along bedding planes, fossiliferous zone 2' below top of unit contains brachs up to 2mm long, crinoid stems and bryozoans, calcareous cement, clay ironstone band at top 0.2' thick., sharp lower contact with coal.	11.7'	Box 30 345 Box 31	
	345					
	350				31	

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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		Shale, same unit as above.	11.7'	31	Part of Box dropped, had to reconstruct this interval, "A" coal
			Coal, blk (N1), banded, mod. bright, hard, broken, sulfate bloom, calc. cement, sharp contacts,	0.8'		
	355		Mudstone, med ltgy (N6), slightly silty, mod. hard, blocky frac, massive, abundant plant frags, gradational lower contact.	1.8'	Box 31 355 Box 32	
			Shale, gy blk (N2), claystone, hard, few silty laminae near top, thin horizontal laminae, non-fossiliferous, abundant clay ironstone nodules to 0.2' thick, sharp lower contact w/coal.	3.5'		
			Coal, blk (N1), banded, mod bright, hard, brittle, sulfate bloom, sharp contacts,	0.7'	32	"B" coal
	360					

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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			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		Mudstone, lt gy (N7) at base to med gy (N5) just below coal, silty, mod. hard, blocky frac., massive, abundant plant frags, sand sized authigenic siderite crystals, gradational lower contact.	4.2'	32	
			Shale, same unit as below.		Box 32 365	
	365	T			Box 33	
		T		19.7'		
		T				
		T				
	370				33	

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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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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	—	Shale, dk gy (N3), claystone, micaceous, hard, brittle, thin horizontal laminae, non-fossiliferous, small amount of localized calcareous cement, few very thin clay ironstone bands, less than 0.03' thick, sharp lower contact with coal, very uniform in color & comp., few very thin silty lenses in upper 1 foot.		33	
		T				
		—				
		—				
		—				
		—				
		—				
		T				
		—		19.7		
		—				
		⊥			Box 33	
	375	—			375	
		T			Box 34	
		—				
		T				
		—				
		T				
		—				
		—				
		T				
	380	—			34	

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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)
	380	T T T T T	Shale, same unit as above.	19.7'	34	
			Coal, blk (N1), banded, mod, bright, soft, crumbled, ab. sulfate bloom & calc. cement in vertical fracs, sharp contacts.	1.0'	Box 34 384	"C" coal
	385		mudstone, med lt gy (N6), slightly silty, soft, blocky fracture, massive, abundant plant fragments, irregular clay ironstone nodules 0.1' long & 0.05' dia, gradational lower contact.	3.1'	Box 35	
			Shale, med dk gy (N4), mudstone, silty, micaceous, hard, marine fossil debris at base, plant fragments along bedding planes, some pyrite, clay ironst. band, sharp cont.	2.0'		
		T T	Coal, blk (N1), banded, mod bright, hard, sulfate bloom, sharp contacts.	0.4'	35	"D" coal
	390					

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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)
	390		Mudstone, med ltgy (N6) at base to ltgy (N7) at top, slightly silty, soft, blocky fracture, massive, abundant plant fragments, abundant sand sized authigenic siderite crystals and small clay ironstone nodules to 0.05' dia., gradational lower contact.	3.7'	35 Box 35 394	
	395		Shale, med dk gy (N4) at base to med ltgy (N6) at top, mudstone, slightly silty, micaceous, thin horizontal laminae, non-fossiliferous, few sand sized authigenic siderite crystals near top, sharp lower contact marked by clay ironstone band.	3.6'	Box 36	
			Interbedded siltstone & shale, same unit as below	14.3'		
	400				36	

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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)
	400		Interbedded siltstone and shale – dk gy (N3) and lt gy (N7), silty laminae increase in abundance upwards, lenticular bedded at base to wavy bedded at top., bioturbated, burrows increase upwards as does silt content, few small clay ironstone nodules to 0.1' diameter, few authigenic siderite crystals in silty laminae, qtz & mica are dominant mins, sharp lower contact marked by 0.3' clay ironstone band.		36	
					Box 36 404	
					Box 37	
	405			14.3'		
	410				37	

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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)
	410		Interbedded siltstone & shale, same unit as above.	1.43'	37	
		XXXX	Shale, dk gy (N3), mudstone, silty, micaceous, hard, thin horizontal laminae, few very small plant fragments, clay ironstone bands up to 0.3' thick, sharp lower contact marked by clay ironstone band.	5.2'	Box 37 414 Box 38	
	415	XXXX				
		XXX	Shale, dk gy (N3), w/ lt gy (N7) laminae, mudstone, silty, w/ silty lenses up to 10cm thick, lenticular to wavy bedded, few horizontal burrows, some brown stains, sharp lower contact w/ coal.	4.6'		
	420				38	

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	420		Shale, same unit as above.	4.6'	38	
			Coal, blk (N1), banded, mod. bright, hard, brittle, sulfate bloom & calcareous cement in vertical fracs, sharp contacts.	1.2'		Riverton coal
			Mudstone, med ltgy (N6), slightly silty, soft, blocky fracture, massive, abundant plant fragments, gradational lower contact.	1.6'	Box 38 424	
	425		Shale, dkgy (N3), w/ ltgy (N7) laminae, mudstone, silty, very thin silty laminae increase upwards, lenticular bedded at base to wavy bedded at top, non-fossiliferous, pyrite crystals up to 0.1 dia., gradational lower contact.	7.0'	Box 39	
	430				39	

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

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	430		Shale - same unit as above.	7.0'	39	
			Shale, same unit as below.		Box 39	
					431	
					Box 40	
	435			14'		
	440				40	

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	440		Shale, dk gy (N3), mudstone, slightly silty, contains several thin (0.2') layers of chert & limestone gravel, probably representing storm deposits, thin horizontal laminae, some fossil debris in storm cycles, shows 2 poorly developed cone in cone structures 0.3' thick, calcareous cement, abundant pyrite crystals, sharp lower contact w/ coal,	14'	40 Box 40 444 Box 41	
	445		Core loss 2.0' 445'-447' probably shale!	2.0'		
			Shale, same unit as above.	2.6'		
	450		Coal, blk (N1), bony, banded, mod. bright, sulfate bloom, sharp contacts.	0.4'	41	unnamed lower Coal.

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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)
	450		Conglomerate, v lt gy(N8), mostly limestone pebbles w/shale matrix, sharp erosional lower contact.	1.3'	41	
			Shale, gy blk (N2), mudstn, limestone pebbles, abund. organic material, thinly lam., sulfate bloom, sharp irregular lower contact.	0.3'		
			Limestone, lt gy(N7) - v lt gy(N8), mudstone, hard, massive, extensively fractured, non-fossiliferous, calcareous cement, abundant oil stains in cracks, few small pyrite crystals, lower contact not observed.	4.4'		Mississippian Limestone
	455				Box 41 456	
			Bottom of Hole 456'			
	460					

ENG FORM 1 JUN 57 1838 (TRANSLUCENT) (EM 1110-2-1801) PREVIOUS EDITIONS ARE OBSOLETE

PROJECT _____ HOLE NO. _____