Gulf Pittsburg-Midway

Strat Well PM-2

HOLE NO. _____

DEPARTMENT OF THE ARMY

DIVISION _____

INSTALLATION _____

DRILLING LOG

1. PROJECT | SHEET OF

2. LOCATION (Coordinates or Station) SE NW NW 12 33S 21E

3. DRILLING AGENCY Gulf Minerals (P+M)

4. HOLE NO. (As shown on drawing title and file No.) P+M #2

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 815

18. TOTAL CORE RECOVERY FOR BORING (%)

19. SIGNATURE OF INSPECTOR

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	40		Top of Core		41'	(logged by John Harris)
			Coal, blk(N1), crumbled sharp lower contact.	0.6		Mineral coal
			Mudstone - med lt gy(N6), soft, blocky fracture, silty, micaceous, massive, plant fossils, abundant irregular clay ironstone nodules, brown Fe-oxide stains, gradational lower contact.	5.3	#1	
	45		Mudshale - same unit as below.	15.5'		
	50					

12-33-21e

ENG FORM 1836 (TRANS) (VT) 1 JUN 87 PREVIOUS EDITIONS ARE OBSOLETE

PROJECT _____ HOLE NO. _____

HOLE NO. _____

DEPARTMENT OF THE ARMY
DIVISION _____
INSTALLATION _____

DRILLING LOG

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

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	50		Mudshale - dk gy (N3) at base to med H gy (N6) near top, mod. hard, subparallel fracture, silty, micaceous, few small plant fossils, scattered small brachs & molluscs, localized calcareous cement, clay ironstone nodules near base to 0.1' thick, contains fossil fragments, brown Fe-oxide stains, sharp lower contact.	15.5'	#1 51'	
		T			#2	
	55					
		T				
		T				
	60					

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

PROJECT _____ HOLE NO. _____

HOLE NO. _____

DEPARTMENT OF THE ARMY

DIVISION _____

INSTALLATION _____

DRILLING LOG

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

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	60		Mudshale - same unit as below.	155'	# 2 61'	
			Argillaceous Limestone - hard, brachs, calc. cement, sharp cont.	0.3		
			Coal, blk(N1), banded, mod. bright, sharp contacts,	0.7'		Scammon coal
			Mudstone - med lt gy (N6), lower cont. missing	0.5		
	65		3.0' core loss 64' - 67'	30'	# 3	
			Siltstone - same unit as below. may contain very fine sand.	7.0		Chelsea S.S.
	70				70'	

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 OVER-BURDEN	8. DEPTH DRILLED INTO ROCK / 9. TOTAL DEPTH OF HOLE
10. SIZE AND TYPE OF BIT	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	12. MANUFACTURER'S DESIGNATION OF DRILL
13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED	14. TOTAL NO. CORE BOXES	15. ELEV. GROUND WATER / 16. DATE HOLE: STARTED / COMPLETED
17. ELEV. TOP OF HOLE	18. TOTAL CORE RECOVERY FOR BORING (%)	19. SIGNATURE OF INSPECTOR

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	70		Siltstone - lt gy (N7), hard, parallel fracs, qtz, micaceous, mud matrix, wavy bedded, rippled, convolute bedding, few small plant frags, small clay ironstone nodules, gradational lower contact.	7.0'	70'	
	75+		Mudshale - same unit as below.	11.2'	#4	
	80				80'	

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

PROJECT _____ HOLE NO. _____

HOLE NO. _____

DEPARTMENT OF THE ARMY
DIVISION _____
INSTALLATION _____

DRILLING LOG

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

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	80		Mud shale - med gy (N5) w/ brown stains, hard, hackly frac, thin horizontal laminae at base, lenticular bedded at top, micaceous, some convolute bedding, abundant clay ironstone cement & brown Fe-oxide stain, gradational lower contact.	112'	80' # 5	
	85+		Clayshale - same unit as below.	160'	89' # 6	
	90					

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

PROJECT _____ HOLE NO. _____

HOLE NO. _____

DEPARTMENT OF THE ARMY

DIVISION _____

INSTALLATION _____

DRILLING LOG

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

6. DIRECTION OF HOLE			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)
	90		Clayshale - med gy (N5) w/ brown mottling, hard, brittle, hackly frac, micaceous, thin horizontal laminae, few small plant fragments, clay ironstone nodules to 0.1' thick, brown Fe-oxide stains, sharp lower contact w/ coal.		# 6	
	95			160'		
	100				99' # 7	

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

PROJECT _____ HOLE NO. _____

HOLE NO. _____

DEPARTMENT OF THE ARMY

DIVISION _____

INSTALLATION _____

DRILLING LOG

1. PROJECT		SHEET OF
2. LOCATION (Coordinates or Station)		
3. DRILLING AGENCY		
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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)
	100		Clayshale - same unit as above.	16.0'		
			Coal - sharp contacts sulfate bloom.	0.5'		Tebo coal
			Mudstone - med ltgy(N6) mod. hard, blocky fracs, silty, micaceous, massive, plant fossils, brown Fe-oxide stains, gradational lower contact.	1.6'	# 7	
			Siltstone - same unit as below.	13.1'		
	105					
					109	
					# 8	
	110					

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

PROJECT _____ HOLE NO. _____

HOLE NO. _____

DEPARTMENT OF THE ARMY
DIVISION _____
INSTALLATION _____

DRILLING LOG

1. PROJECT		SHEET OF
2. LOCATION (Coordinates or Station)		
3. DRILLING AGENCY		
4. HOLE NO. (As shown on drawing title and file No.)	5. NAME OF DRILLER	
6. DIRECTION OF HOLE: ☐ 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)
	110		Siltstone - med lt gy (N6), hard, blocky fracs, qtz, micaceous comp, abundant mud, thinly laminated - wavy bedded, abundant small plant fossils, sparsely burrowed, sand size authigenic siderite crystals near top, sharp lower contact w/coal.	13.1'		
	115				#8	
			Coal - smut	<0.1		Tebo B coal
			Mudstone - same unit as below	6.0'	119'	
					#9	
	120					

HOLE NO. _____

DEPARTMENT OF THE ARMY
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INSTALLATION _____

DRILLING LOG

1. PROJECT | SHEET OF
2. LOCATION (Coordinates or Station)
3. DRILLING AGENCY
4. HOLE NO. (As shown on drawing title and file No.)
5. NAME OF DRILLER
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7. THICKNESS OF 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)
	120		Mudstone - med ltgy (N6), soft, subparallel - blocky fracs, silty, micaceous, massive, plant fossils near top, sand sized authigenic siderite crystals, abruptly gradational lower contact.	6.0'		
	125+		Sandstone - v ltgy (N8), hard, v fine - fine gr, abundant mud matrix, rippled, flaser bedded, small plant fragments, sand sized authigenic siderite crystals, abruptly gradational lower contact.	3.3'	# 9	
	130		Siltstone - ltgy (N7), qtz, micaceous comp, abundant muddy laminae + matrix, wavy bedded, small plant fossils, no apparent diagenetic features, gradational lower contact.	3.8'	129 # 10	

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)
	130		Clayshale – dk gy (N3), hard, brittle, hackly fracture, micaceous, thin horizontal laminae, few marine fossil fragments, localized calcareous cement & nodules, sharp lower contact w/ coal.			
		T				
		T				
	135			14.0	# 10	
		T				
					138'	
					# 11	
	140					

ENG FORM 1836 (TRANS VI) 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		
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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)
	140		Clay shale - same unit as above.	14.0'		
		T				
		T				
		T			# 11	Weir - Pittsburg coal
			Coal - smut	0.2		
	145		Mudstone - med H gy (N6) soft, crumbled, blocky fracs, massive, silty, micaceous, plant fossils, gradational lower contact.	2.8'		
			Siltstone - lt gy (N7), hard, blocky fracs, qtz, micaceous + mud matrix. mostly massive, some convolute bedding, few small plant fossils →	5.7'	146' # 12	
	150					

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

PROJECT _____ HOLE NO. _____

HOLE NO. _____

DEPARTMENT OF THE ARMY
DIVISION _____
INSTALLATION _____

DRILLING LOG

1. PROJECT			SHEET OF
2. LOCATION (Coordinates or Station)			
3. DRILLING AGENCY			
4. HOLE NO. (As shown on drawing title and file No.)	5. NAME OF DRILLER		
6. DIRECTION OF HOLE: ☐ VERTICAL ☐ INCLINED; DEGREES WITH VERTICAL	7. THICKNESS OF 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)
	150		Siltstone - (cont) abundant sand sized authigenic siderite crystals & veins, gradational lower contact	5.7'		
	155		mudshale - med dk gy(N4) at base to med lt gy(N6) at top, hard, sub-parallel fracs, silty, micaceous, thin horizontal laminae with occasional silty lamination, few small plant frags, clay ironstone nodules to 0.2' thick, gradational lower contact.		# 12	
					158'	
					# 13	
	160					

ENG FORM 1838 (TRANS VT) 1 JUN 57 (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
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17. ELEV. TOP OF HOLE	18. TOTAL CORE RECOVERY FOR BORING (%)	19. SIGNATURE OF INSPECTOR

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	160		Mudshale - same unit as above	9.0'		
			Siltstone - lt gy (N7) & med gy (N5) lams, qtz, micaceous, wavy bedded, soft sed. deform. & bioturbation, gradational lower contact.	2.6'	# 13	
			Mudshale - same	12.4'		
	165				168'	
					# 14	
	170					

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

PROJECT _____ HOLE NO. _____

HOLE NO. _____

DEPARTMENT OF THE ARMY
DIVISION _____
INSTALLATION _____

DRILLING LOG

1. PROJECT | SHEET OF
2. LOCATION (Coordinates or Station)
3. DRILLING AGENCY
4. HOLE NO. (As shown on drawing title and file No.)
5. NAME OF DRILLER
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15. ELEV. GROUND WATER
16. DATE HOLE: STARTED | COMPLETED
17. ELEV. TOP OF HOLE
18. TOTAL CORE RECOVERY FOR BORING (%)
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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)
	170	—	Mudshale - med dk gy (N4), hard, hackly fracture, silty, micaceous, thin horizontal laminae near base to lenticular bedded near top, few small plant fossils, small amount of localized calcareous cement, clay ironstone nodules, sharp lower contact w/coal.	12.4'	# 14	
	175	—				
		—	Coal - smut	0.1		Bluejacket "A" coal
		—	Mudstone - med lt gy (N6), soft, blocky fracs, silty, micaceous, massive, plant fossils, irregular clay ironstone nodules, gradational lower contact.	2.8'	178' # 15	
	180	—	Clayshale - same as below.	6.0		

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

PROJECT _____ HOLE NO. _____

HOLE NO. _____

DEPARTMENT OF THE ARMY
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DRILLING LOG

1. PROJECT | SHEET OF
2. LOCATION (Coordinates or Station)
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4. HOLE NO. (As shown on drawing title and file No.)
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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		Clayshale - dk gy(N3), hard, hackly frac, micaceous, thin horizontal lamina, few small fossil frags at base, calcareous cement, clay ironstone nodules to 0.1' thick, sharp lower contact w/ coal.	6.0'	#15	
	185		Coal - smut	0.1		Bluejacket "B" coal
			Mudstone - ltgy(N7), soft, blocky fracs, silty, micaceous, massive, plant fossils, brown Fe-oxide stains, gradational lower contact.	2.1'		
			Siltstone - same unit as below.	4.7'	189 # 16	
	190					

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

PROJECT _____ HOLE NO. _____

HOLE NO. _____

DEPARTMENT OF THE ARMY

DIVISION _____

INSTALLATION _____

DRILLING LOG

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

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	190		Siltstone - ltgy(N7), hard, blocky fracs, abundant mud, convolute bedding near base, massive upwards, plant fossils, burrows, gradational lower contact.	4.7'		
	195		Sandstone - ltgy (N7), hard, blocky frac, very fine - fine gr., abundant silt + mud matrix, qtz micaceous comp, flaser bedded, few small plant fossils, irregular bedding, may be burrowed, authigenic siderite crystals, abruptly gradational lower contact.	4.0	# 16	Upper Bluejacket Sandstone
			Siltstone - same unit as below.	8.8'	199	
	200				# 17	

ENG FORM 1836 (TRANS VT) PREVIOUS EDITIONS ARE OBSOLETE

PROJECT _____ HOLE NO. _____

HOLE NO. _____

DEPARTMENT OF THE ARMY
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DRILLING LOG

1. PROJECT | SHEET OF
2. LOCATION (Coordinates or Station)
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		Siltstone - lt gy (N7), hard, blocky fracs, qtz, micaceous, lower 4' wavy bedded, upper 5' massive, small plant fossils, sand sized authigenic siderite, upper portion may be burrowed, sharp lower contact, non-erosional.	8.8'	# 17	
	205		Clayshale - dk gy (N3), hard, hackly frac. micaceous, thin horizontal laminae, nonfossiliferous, clay ironstone nodules to 0.1' thick, gradational lower contact.	3.5'	209'	
			Argillaceous Limestone - hard, shaly, abundant crinoids, brachs + other marine fossils, sharp lower contact.	1.2'	# 18	
	210					

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

PROJECT _____ HOLE NO. _____

HOLE NO. _____

DEPARTMENT OF THE ARMY
DIVISION _____
INSTALLATION _____

DRILLING LOG

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

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	210		Coal - smut	0.2'		Bluejacket "C" coal
			Mudstone - med lt gy (N6), soft, blocky fracs, silty, micaceous, massive, plant fossils, abundant irregular clay ironstone nodules, brown Fe-oxide stains, gradational lower contact.	3.3'		
			Mudshale - same unit as below.		# 18	
	215			12.0'		
					219'	
					# 19	
	220					

ENG FORM 1836 1 JUN 57 (TRANSMITTAL) (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 OVERBURDEN	8. DEPTH DRILLED INTO ROCK / 9. TOTAL DEPTH OF HOLE
10. SIZE AND TYPE OF BIT	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	12. MANUFACTURER'S DESIGNATION OF DRILL
13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED	14. TOTAL NO. CORE BOXES	15. ELEV. GROUND WATER / 16. DATE HOLE: STARTED / COMPLETED
17. ELEV. TOP OF HOLE	18. TOTAL CORE RECOVERY FOR BORING (%)	19. SIGNATURE OF INSPECTOR

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	220		Mudshale - med dk gy (N4), hard, parallel fracs, silty, qtz, micaceous, lenticular bedded w/ thin lenses, few small crinoid stems, bioturbation, clay ironstone nodules, few small plant fossils, sharp lower contact.	12.0'		
	225				# 19	Blue Jacket "D" coal
			Coal - smut	0.2		
			Mudstone - med H gy (N6), mod. hard, blocky fracs, silty, qtz, micaceous, wavy bedded at base to massive at top, plant fossils at top, bioturbation at base, clay ironst. nodules, abruptly gradational lower contact.	3.5'	229'	
			Sandstone & Conglomerate vlt gy (N8), mud & coal clasts, sharp lower contact.	0.5'	# 20	probably a storm deposit.
	230					

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 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		Mudshale – med dk gy(N4) at base grading to ltgy (N7) at top. hard, subparallel fracs, silty, qtz, micaceous, thin horizontal laminae with few thin silty lenses, abundant plant fossils, clay ironstone nodules to 0.1' thick, sharp lower contact w/ coal.			
	235			22.1'	# 20	
					239'	
					# 21	
	240					

ENG FORM 1836 1 JUN 57 (TRANSVT) PREVIOUS EDITIONS ARE OBSOLETE (EM 1110-2-1307)

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 – same unit as above.			
					# 21	
	245			22.1'		
					249'	
					# 22	
	250					

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

PROJECT _____ HOLE NO. _____

HOLE NO. _____

DEPARTMENT OF THE ARMY
DIVISION _____
INSTALLATION _____

DRILLING LOG

1. PROJECT | SHEET OF
2. LOCATION (Coordinates or Station)
3. DRILLING AGENCY
4. HOLE NO. (As shown on drawing title and file No.)
5. NAME OF DRILLER
6. DIRECTION OF HOLE: ☐ 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
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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)
	250		mudshale - same unit as above.	22.1'		
			coal - smut	0.3'		Drywood coal
			mudstone - ltgy(N7) soft, blocky fracture, massive, silty, micaceous, plant fossils, brown Fe-oxide stains gradational lower contact.	4.5	# 22	
	255					
			mudshale - same unit as below.	8.9'	259' # 23	
	260					

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

PROJECT _____ HOLE NO. _____

HOLE NO. _____

DEPARTMENT OF THE ARMY
DIVISION _____
INSTALLATION _____

DRILLING LOG

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

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	260		mudshale - dk gy (N3) at base to med gy (N5) at top, hard, sub-parallel fracs, slightly silty, micaceous, thin horizontal laminae, few very thin silty lenses near top, nonfossiliferous localized calcareous cement, sharp lower contact w/ coal.	8.9'	# 23	
			Coal - smut	0.1'		Rowe coal
	263		Mudstone - lt gy (N7), soft, blocky fracs, massive, silty, micaceous, plant fossils, irregular clay ironstone nodules, brown Fe-oxide stains, gradational lower contact.	3.9'	269 # 24	
	270					

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			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, sub-parallel fracs, silty micaceous, lenticular bedded near base & at top, thin horizontal laminae between, few small burrows			
		S	clay ironstone bands to 0.5'			
			thick, sharp, disconformable		# 24	
	275		lower contact.			
		S		21.0'		
		S			279	
		S			# 25	
	280					

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

PROJECT _____ HOLE NO. _____

HOLE NO. _____

DEPARTMENT OF THE ARMY

DIVISION _____

INSTALLATION _____

DRILLING LOG

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

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	280		Mudshale - same unit as above			
				21.0		
	285				# 25	
					289	
					# 26	
	290					

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

PROJECT _____ HOLE NO. _____

HOLE NO. _____

DEPARTMENT OF THE ARMY
DIVISION _____
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DRILLING LOG

1. PROJECT | SHEET OF
2. LOCATION (Coordinates or Station)
3. DRILLING AGENCY
4. HOLE NO. (As shown on drawing title and file No.)
5. NAME OF DRILLER
6. DIRECTION OF HOLE: ☐ 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)
	290		mudshale - same unit as above.	21.0'		
			sharp contact			Neutral horizon resembles poorly developed underclay.
			mudshale - med gy(N5) w/ v lt gy(N8) laminae, hard, subparallel fracs, silty, micaceous, lenticular bedded, abundant plant fossils, few burrows, brown Fe-oxide stains, gradational lower contact, upper portion appears leached.	4.1'	# 26	
	295		siltstone - med gy(N5) w v lt gy(N8) laminae, qtz, micaceous, wavy bedded, abundant plant fossils, few small horizontal burrows, abruptly gradational lower contact.	3.5'	298	
			sandstone - med br gy(5YR 5/1), v. fine gr., silty, qtz, micaceous, flaser bedded,	2.2'	# 27	Upper Warner Sandstone
	300					

ENG FORM 1838 (TRANSIT) 1 JUN 57 (FEM 1110-2-1301) PREVIOUS EDITIONS ARE OBSOLETE

PROJECT _____ HOLE NO. _____

HOLE NO. _____

DEPARTMENT OF THE ARMY
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DRILLING LOG

1. PROJECT | SHEET OF
2. LOCATION (Coordinates or Station)
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)
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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)
	300		Sandstone - plant fossils, abruptly grad. lower contact.	2.2'		
			Siltstone - med gy (N5) w v lt gy (N8) laminae, qtz, micaceous, lenticular - wavy bedded, plant fossils, clay ironstone bands, abruptly grad. lower contact.	2.0'		
			Mudshale - med dk gy (N4) w v lt gy (N8) silty laminae, hard, subparallel fracs, silty, micaceous, lenticular bedded w/ thin lenses, plant fossils, thin clay ironstone bands, sharp lower contact.	2.6'	# 27	
	305					
sharp contact →			Mudstone m. dk gy (N4) at base to med. gy (N5) at top, soft, blocky fracs, massive, plant material, irregular clay ironstone nodules, gradational lower contact.	2.5'	308'	resembles an underclay
			Mudshale - same unit as below,	9.4'	# 28	
	310					

ENG FORM 1836 (TRANSMITTAL) 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			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)
	310		mudshale - dk gy(N3) - med dk gy (N4), mod. hard, subparallel fracs, slightly silty, micaceous, thin horizontal laminae w/ few v. thin silty lenses, few small plant fossils, abundant bioturbation, brachs, crinoid stems, bryozoans & other marine fossil frags from 310-313', localized calcareous cement, clay ironstone nodules to 0.1' thick, sharp lower contact w/ coal.	9.4'	# 28	
	315+					
			Coal, blk(N1), banded, mod. bright, sulfate bloom sharp contacts.	1.4'	318 # 29	"A" coal
			mudstone - med gy (N5), mod hard, blocky fracs, massive, silty, micaceous,	2.3'		
	320					

ENG FORM 1838 (TRANSMITTAL) 1 JUN 57 PREVIOUS EDITIONS ARE OBSOLETE (EM 1110-2-1301)

PROJECT _____ HOLE NO. _____

HOLE NO. _____

DEPARTMENT OF THE ARMY

DIVISION _____

INSTALLATION _____

DRILLING LOG

1. PROJECT		SHEET OF
2. LOCATION (Coordinates or Station)		
3. DRILLING AGENCY		
4. HOLE NO. (As shown on drawing title and file No.)	5. NAME OF DRILLER	
6. DIRECTION OF HOLE: ☐ 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)
	320		Mudstone - (Cont) abundant plant fossils, gradational lower contact.	2.3'		
			Shale, clayshale at base grading to mud shale at top, dk gy (N3) at base to med dk gy (N4) at top, mod. hard, brittle, hackly fracture, slightly silty at top, micaceous, thin horizontal laminae at base to lenticular bedded at top w/ thin lenses, few small horizontal burrows, sharp lower contact w/ coal.	7.0'	# 29	
	325+					
					328'	
			Coal - blk (N1), banded med. bright, sulfate bloom, sharp contacts.	0.8'	# 30	"B" coal
			Mudstone - lt gy (N7), mod. hard, blocky fracs, massive,	3.1'		
	330					

HOLE NO. _____

DEPARTMENT OF THE ARMY

DIVISION _____

INSTALLATION _____

DRILLING LOG

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

6. DIRECTION OF HOLE			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		Mudstone - same as above. (cont), plant fossils, brown Fe oxide stains, gradational lower contact.	3.1'		
			Mudshale - same unit as below.		# 30	
	335			18.0		
					338	
					# 31	
	340					

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

PROJECT _____ HOLE NO. _____

HOLE NO. _____

DEPARTMENT OF THE ARMY

DIVISION _____

INSTALLATION _____

DRILLING LOG

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

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	340		Mudshale – dk gy (N3), hard, brittle, hackly fracture, slightly silty, micaceous, thin horizontal laminae, w/ few very thin silty lenses, few small plant fossils, few small burrows near base, clay ironstone nodules to 0.1' thick, sharp, disconformable lower contact w/ mudstone marked by clay ironstone nodules.		# 31	
	345			18.0'		
					348	
					# 32	
	350					

ENG FORM 1836 (TRANS VT) PREVIOUS EDITIONS ARE OBSOLETE

1 JUN 57 (TRANS 4410-2-1801)

PROJECT _____ HOLE NO. _____

HOLE NO. _____

DEPARTMENT OF THE ARMY
DIVISION _____
INSTALLATION _____

DRILLING LOG

1. PROJECT | SHEET OF
2. LOCATION (Coordinates or Station)
3. DRILLING AGENCY
4. HOLE NO. (As shown on drawing title and file No.)
5. NAME OF DRILLER
6. DIRECTION OF HOLE: ☐ VERTICAL ☐ INCLINED | DEGREES WITH VERTICAL
7. THICKNESS OF 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)
	350		Mudstone - med lt gy (N6), mod. hard, massive, blocky fracs, silty, micaceous plant fossils, authigenic siderite xtals, gradational lower contact	2.1'		"C" coal horizon
			Mudshale - dk gy (N3) at base grading to med lt gy (N6) near top, hard, hackly fracture, silty, micaceous, thin horizontal laminae w/ few very thin silty lenses, few small crinoid stems & other fossil frags near base, small plant fossils, some pyritized, clay ironstone nodules to 0.3' thick, calcareous cement near base, sharp, disconformable lower contact w/ mudstone.	4.6'	# 32	
	355				357'	
					# 33	
	360					

Sharp contact

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
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)
	360	T	mudshale - same unit as above.	8.6'		
		T				
		T				
			sharp contact			resembles an underclay "D" coal horizon
			mudstone - ltgy(N7), mod. hard, blocky fractures, massive, silty micaceous, abundant plant fossils, irregular clay ironstone nodules, brown Fe oxide stains, gradational lower contact	4.0'	# 33	
	365		mudshale - same unit as below.			
					367'	
				24.2'	# 34	
	370					

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

PROJECT _____ HOLE NO. _____

HOLE NO. _____

DEPARTMENT OF THE ARMY

DIVISION _____

INSTALLATION _____

DRILLING LOG

1. PROJECT		SHEET OF
2. LOCATION (Coordinates or Station)		
3. DRILLING AGENCY		
4. HOLE NO. (As shown on drawing title and file No.)	5. NAME OF DRILLER	
6. DIRECTION OF HOLE: ☐ 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)
	370		mudshale - dk gy (N3) w/ v lt gy (N8) silty lenses, hard, subparallel fracs, silty, qtz, micaceous, thin horizontal laminae with lenticular and wavy bedded zones, lent. & wavy bedded zones extensively bioturbated, abundant finely divided plants, clay ironstone, bands to 0.5' thick, localized calcareous cement, sharp lower contact w/ coal,	24.2'	# 34	
	375				377'	
					# 35	
	390					

ENG FORM 1836 (TRANSMITTAL) 1 JUN 57 (FROM 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)
	380		mudshale - same unit as above		# 35	
	385			24.2'	386'	
					# 36	
	390		Coal, same as below	1.6'		

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

PROJECT _____ HOLE NO. _____

HOLE NO. _____

DEPARTMENT OF THE ARMY
DIVISION _____
INSTALLATION _____

DRILLING LOG

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

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

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

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	390		Coal – blk, (N1), banded, mod. bright, sulfate bloom, sharp contacts,	1.6		Riverton coal
			mudstone – med ltgy (N6), mod. hard, blocky fracs, plant fossils, massive, gradational lower contact.	1.3'		
	395		mudshale – dkgy (N3) w few v ltgy (N8) silty lenses, hard, brittle, subparallel fractures, silty, qtz, micaceous comp, silty content increasing upwards, lenticular bedded w/ thick & thin lenses, abundant woody plant fossils, some pyritized, pyrite nodules & clay ironstone nodules to 0.1 dia, sharp / disconformable lower contact.	6.4'	# 36	
					397'	
					# 37	
sharp contact →			mudstone – med ltgy (N6) mod. hard, blocky fracs, massive, abundant plant fossils, grad. lower contact.	0.5'		unnamed horizon resembles an underclay
	400		claystone – same unit as below.	7.4'		

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

PROJECT _____ HOLE NO. _____

HOLE NO. _____

DEPARTMENT OF THE ARMY
DIVISION _____
INSTALLATION _____

DRILLING LOG

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

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

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

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

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

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
400	400		Clayshale - dk gy (N3), hard, brittle, hackly fracture, micaceous, thin horizontal laminae, no fossils found, abundant irregular pyrite nodules to 0.1' dia, oval calcareous nodules to 0.2' dia, sharp, disconformable lower contact w/ limestone clasts + pyrite nodules.	7.4'	# 37	
	465		Limestone - VLT gy (N8), hard, massive, no fossils found, lower contact not observed	1.2'		Mississippian Limestone
			Base of Core 408'		408'	
410						

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

PROJECT _____ HOLE NO. _____