

Gulf Pittsburg-Midway

Strat well PM-4

HOLE NO.

DEPARTMENT OF THE ARMY			1. PROJECT		SHEET OF		
DIVISION			2. LOCATION (coordinates or Station) SW NW SW 29-32-22E				
INSTALLATION			3. DRILLING AGENCY				
DRILLING LOG			5. NAME OF DRILLER				
4. HOLE NO. (As shown on drawing title and file No.) PM-#4			7. THICKNESS OF OVER-BURDEN				
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED DEGREES WITH VERTICAL			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		14. TOTAL NO. CORE BOXES		15. ELEV. GROUND WATER		16. DATE HOLE STARTED COMPLETED	
17. ELEV. TOP OF HOLE 830		18. TOTAL CORE RECOVERY FOR BORING (%)		19. SIGNATURE OF INSPECTOR			
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	
	30					(logged by John Harris)	
	40						
	50						
	60						
	70						
	80						
	90						
	100						
	110						
	120						
	130		Sh, dk gy ↓ - med. gy ↑, thin planar lams, brown iron stone bands, Some dead oil stns.		Box 9		
			Sh, blk, calc at base, fossil frags				
			Coal, blk, hard, sulf, gy p.				
			Underclay, dk gy, root frags				
					.8'		
					1.2'		

DEPARTMENT OF THE ARMY				HOLE NO. _____		
DIVISION _____		1. PROJECT _____		SHEET _____ OF _____		
INSTALLATION _____		2. LOCATION (coordinates or Station) _____				
DRILLING LOG				3. DRILLING AGENCY _____		
4. HOLE NO. (As shown on drawing title and file No.) R+M # 4			5. NAME OF DRILLER _____			
6. DIRECTION OF HOLE			7. THICKNESS OF OVER-BURDEN		8. DEPTH DRILLED INTO ROCK	
☐ VERTICAL ☐ INCLINED		DEGREES WITH VERTICAL		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		14. TOTAL NO. CORE BOXES		15. ELEV. GROUND WATER		
DISTURBED		UNDISTURBED		16. DATE HOLE		
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		2.5, lt. gy, wavy lam.			
	140		3.5, v.f. gr, lt gy, thin wavy lam, xbeds & ripple marks. micaceous, w thin zones of siderite xtals Grades into siltstone.	14.4'		
	150		sh, dk gy, lt gy lams, silty, siderite xtals, calc, stylolites	2.4'		
			sh, dk gy, lt gy lams, few burrows	.5'		
			sh, blk w brn ironstone bands Calc at base, fossil frags, few thin lt gy lenses, calc.	2.7'		
	160			10'		
			coal, blk, sulf. & gyp in frags. underclay, dk gy, foot frags mudstone, lt. gy at base - dk gy at top.	2.4'		
	170		5ft. missing, Mud stone	5'		
			sh, dk gy at base grading to lt gy at top, thin wavy lam, silty near top	3.4'		
	180		sh, blk, hard, few thin lt. gy lam, brownish ironstone bands grades to blk	4.2'		
			sh, dk gy w/ lt gy lams	4'		
			sh, blk, non-calc. at base, ironstone bands & conc.	4.5'	Box 16	
	190		Coal, blk, hard, gyp & calc. underclay, lt gy, brn. stns & plant frag	.3'	184'	
			sh, blk, hard, calc. at base w/ fossil frags, thinly lam. grades into underclay	2.5'		
			Coal smut underclay, dk gy, soft, plants	6'		
	200		2.5, lt gy, micaceous, soft siderite xtals disseminated	4.5'		
				4'		
	210		5.5, lt gy-brn. gy, v.f. gr. well sorted. wavy lams. & x-beds up to .25' graded upwards, sharp contact with sh. below.	18'		Lower B.J. ?
	220					
			sh, blk, calc. at base, ironstone bands near top.	3.5'		
			Coal, blk, calc & gyp in frags underclay, lt gy, plant frags	.3'		
	230		sh, dk gy, ironstone bands	1'		
				3'		

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☐ INCLINEDDEGREES WITH
VERTICAL7. THICKNESS
OF OVER-
BURDEN8. DEPTH
DRILLED
INTO ROCK9. 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
BOXES15. ELEV.
GROUND
WATER16. 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 RECOV- ERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
232			sh. dk gy, silty near top, thin lt gy wavy lams, brown ironstone bands at base	8.4'		
240			underclay, lt gy, silty, plant frags s.s., lt-gy, v.f. gr. wavy lams, lower part burrowed.	2.5' 4'		Upper Warner? s.s.
250			s.s., lt-med. gy, wavy lams abundant siderite xtals some organic material upper portion burrowed	4'		
260			sh. dk gy at base - med gy at top thin planar lams, several brown ironstone bands becoming silty near top	17'		
270			Coal, soft, crumbly, gypsum in bedding underclay, lt-gy plant frags sh. dk gy at base - lt gy at top wavy lam, siderite xtals at top	.3' 1.3' 4'		
280			sh. blk, thin lam, uniform micaceous	6'		
290			Coal, blk, calc, gyp, silt in cracks underclay, dk gy plant frags sh. dk gy, wavy lams, sid. xtals, graded upwards into underclay.	2.5' 1' 6'		
300			sh. dk gy w/ lt. gy lams increase upwards, thin planar lams. silty sh. blk, thinly lam., uniform ironstone band at top hard,	3.4' 11.5'		
310			sh. med gy at base, lt gy at top siderite xtals, wavy thin lams	5.5'		
320			sh. blk, few lt. gy lams. ironstone bands s.s., dk gy w/ lt lams. at base, lt. gy w/ dk lams at top. graded upwards, wavy bedded,	2' 12.5'		
330			mudstone, lt. gy, thin lam, sh. blk, thin lams, hard, brn. ironstone bands s.s. med-de ggy, micaceous, lt. calc fossil frags	2' 2' 4'		

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				5. NAME OF DRILLER _____					
4. HOLE NO. (As shown on drawing title and file No.) _____									
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 _____			

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			Sh. dk-med. gy, lt. gy lams. burrowed near top abundant ironstone layers	10'	30	
340			Underclay, lt gy, plant frags Sh dk gy, lt gy lams, burrows	1.4' 2'		
			Sh. blk, thin lt gy lams, red-brn. ironstone bands	2.2' 3.2'	31	
350			Coal, blk, hard, calc, gyp, sulf. Underclay, lt gy, plant frags	.8' 1.8'		
			Sh. BLK, thin lt. gy lams, some wavy bedded several brown-red ironstone bands		32	
360				20.5'		
					33	
370			Coal, blk, .1' sh. parting Underclay, lt gy, wood frags	.75' 2.5'		
			Sh. BLK, lt gy lams, micaceous red-brn ironstone bands	2.75'	34	
380			Sh. dk gy, thin lt. gy lams	5'		
			Sh. blk, thin lt gy lams	2'		
			Coal, blk, hard, calc. gyp + sulf	1.75'	35	
390			Underclay, lt gy, wood frags, s.s. med-dk gy, v.f. gr dk gy lams, bioturbation	3' 2.4'		Lower Warner
			Dk gy s.s., lt. gy lams, dk brn-red ironstone bands, bioturbation near top.	8'	36	
400			BLK sh, fult gy silty lams, Coal, blk, hard 1.8' w, 2' gy sh parting, calc, gyp, sulfur	1' 1.6' 2' 2'		Riverton Coal
			Dk gy sh., hard, lt. gy lams,		37	
410				9.3'		
			BLK sh. hard, thin lam. pyrite xtals in frags,	7'	38	
420			Brecciated l.s. & sh, dk gy, oil stn. L.s. lt gy, calc., sm. pyrite conc. stylolites No fossils	.7' 9.3'	39	
430						