

DEPARTMENT OF THE ARMY		1. PROJECT		SHEET OF	
DIVISION _____		2. LOCATION (Coordinates or Station)			
INSTALLATION _____		3. DRILLING AGENCY			
DRILLING LOG		5. NAME OF DRILLER			
4. HOLE NO. (As shown on drawing title and file No.)		7. THICKNESS OF OVERBURDEN		8. DEPTH DRILLED INTO ROCK	9. TOTAL DEPTH OF HOLE
6. DIRECTION OF HOLE		DEGREES WITH VERTICAL			
<input type="checkbox"/> VERTICAL	<input type="checkbox"/> INCLINED				
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)
55		--	Mudstone, med lt gy (N6) to lt gy (N7), slightly silty, soft, blocky fracture, massive, no evidence of bedding, abundant plant fragments, sand sized authigenic siderite crystals, clay ironstone nodules to 0.5" dia, localized calcareous cement, gradational lower contact.	11.2	3	"Underclay"
60		--	Shale, same unit as below.		1.3' Box #3	
		X	1' core loss 63'-64' probably shale.		63'	
		--	Shale, same unit as below.	10.1	4	
65		--				

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4. HOLE NO. (As shown on drawing title and file No.)		7. THICKNESS OF OVER-BURDEN		8. DEPTH DRILLED INTO ROCK	9. TOTAL DEPTH OF HOLE
6. DIRECTION OF HOLE		DEGREES WITH VERTICAL			
<input type="checkbox"/> VERTICAL	<input type="checkbox"/> INCLINED				
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)
	75	---	Mudstone, Hgy(N7) ↓ to med gy(N5) ↑, soft, blocky fracture,	0.9	Box 5	
			2' core loss 75.7' - 77.7' Probably mudstone,	2'		
		---	massive, plant frags, gradational lower contact.	0.7'		
	80	Silt-shale, Hgy(N7), qtz, micaceous comp, hard, thin horizontal laminae, some wavy bedding, non-fossilif., sand sized authigenic siderite crystals, some brown stains, lower contact not observed.	7.6		Chelsea S.S. Interval
	85			Box 5	

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6. DIRECTION OF HOLE			7. THICKNESS OF OVER-BURDEN _____		8. DEPTH DRILLED INTO ROCK _____	
<input type="checkbox"/> VERTICAL <input type="checkbox"/> 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 _____		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)
	85	—	Silt-shale, - same unit as above	7.6'	Box 5	
		—			86'	
			5' core loss 86' - 91'	5'		
		—	Shale, same unit as below		91'	
		—			Box #6	
				24.6'		
	95	—			6	

HOLE NO.

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5. NAME OF DRILLER _____						
6. DIRECTION OF HOLE			7. THICKNESS OF OVER-BURDEN _____		8. DEPTH DRILLED INTO ROCK _____	
<input type="checkbox"/> VERTICAL	<input type="checkbox"/> 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)
	95		Shale, same unit as below.		6	
	100			24.6'	Box #6	
					101	
					Box #7	
	105				7	

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4. HOLE NO. (As shown on drawing title and file No.) _____			3. DRILLING AGENCY _____			
5. NAME OF DRILLER _____			6. DIRECTION OF HOLE			
<input type="checkbox"/> VERTICAL <input type="checkbox"/> 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		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)
	105		Shale, med gy (N5) at base grading to lt gy (N7) at top, mudstone, silty, micaceous, thin horizontal laminae with a few lt gy silty laminae becoming more abundant near top. few small plant fragments along bedding planes, few clay ironstone bands to 0.1' thick, concentric brown stains, and localized calcareous cement, sharp lower contact with coal,		7	
	110				24.6'	
					Box #7 111	
					Box 8	
	116				8	

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DRILLING LOG			5. NAME OF DRILLER			
4. HOLE NO. (As shown on drawing title and file no.)			7. THICKNESS OF OVER-BURDEN			
6. DIRECTION OF HOLE		8. DEPTH DRILLED INTO ROCK		9. TOTAL DEPTH OF HOLE		
<input type="checkbox"/> VERTICAL	<input type="checkbox"/> 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		
DISTURBED		UNDISTURBED		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)
115			Coal, blk, (N1), banded, mod. bright, sulfate bloom, sharp contacts.	0.5'	8	Tebo coal
			Mudstone, lt gy (N7), silty, massive, no evidence of bedding, mod. hard, blocky - parallel fracture, abundant plant frags, clay ironstone nodules to 0.5" dia, gradational lower contact.	2.9'		
			Silt-stone, same unit as below.			
120					Box #8	
					121	
					Box #9	
125					9	

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4. HOLE NO. (As shown on drawing title and file No.) _____				3. DRILLING AGENCY _____		
5. NAME OF DRILLER _____				6. DIRECTION OF HOLE		
<input type="checkbox"/> VERTICAL <input type="checkbox"/> 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		14. TOTAL NO. CORE BOXES _____		
DISBURBED _____		UNDISTURBED _____		15. ELEV. GROUND WATER _____		
16. DATE HOLE STARTED _____		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)
	125	...	Siltstone, 14 gy (N7), qtz, micaceous comp, thin bedded, ripple cross laminated, few small plant fragments along bedding planes, abundant authigenic siderite crystals, sand sized, some brown stains, gradational lower contact,		9	Thin section taken from this interval, Unnamed S.S.
				12'		
	130	...	Silt-shale, same unit as below,		Box 9	
					131	
					Box 10	
				15'		
	135	...			10	

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6. DIRECTION OF HOLE		8. DEPTH DRILLED INTO ROCK		9. TOTAL DEPTH OF HOLE	
<input type="checkbox"/> VERTICAL	<input type="checkbox"/> 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		16. DATE HOLE	
DISTURBED		UNDISTURBED		STARTED	
15. ELEV. GROUND WATER		COMPLETED		19. SIGNATURE OF INSPECTOR	
17. ELEV. TOP OF HOLE		18. TOTAL CORE RECOVERY FOR BORING (%)			

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
135		...	Silt-shale, Hgy(N7) with med gy(N5) wavy laminae, qtz, micaceous comp, hard, wavy bedded, non-fossiliferous, few sand sized authigenic siderite crystals, some soft sediment deformation, gradational lower contact,		10	
140		...		15'	Box #10	
		...			141	
		...			Box 11	
145		...			11	

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6. DIRECTION OF HOLE		9. TOTAL DEPTH OF HOLE		10. SIZE AND TYPE OF BIT	
<input type="checkbox"/> VERTICAL	<input type="checkbox"/> INCLINED	DEGREES WITH VERTICAL		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN		14. TOTAL NO. CORE BOXES		15. ELEV. GROUND WATER	
DISTURBED		UNDISTURBED		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)
145		---	Silt-shale, same unit as above.	15'	11	
		---	Shale, dk gy (N3), claystone, hard, thin horizontal laminae, few small brachs & other marine fossil frags, localized calcareous cement, few small lt gy calcareous nodules, sharp lower contact, some color & composition throughout,			
150		T		133'	Box #11	
					151	
		+			Box 12	
		T				
155		---			12	

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5. NAME OF DRILLER _____			7. THICKNESS OF OVERBURDEN _____			
6. DIRECTION OF HOLE <input type="checkbox"/> VERTICAL <input type="checkbox"/> 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 _____ 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)
	155	—	Shale, same unit as above.		12	
		—		133		
		—	Coal, blk (N1), hard, banded, mod. bright, sulfate bloom, sharp contacts,	0.2'		Weir-Pittsburg coal
	160	—	Mudstone, 1+gy (N7), slightly silty, mod. hard, blocky fracture, massive, few plant fragments, gradational lower contact, no evidence of original bedding,		Box #12 161	
		—		6.6'	Box 13	
	165	—			13	

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6. DIRECTION OF HOLE			7. THICKNESS OF OVER-BURDEN		8. DEPTH DRILLED INTO ROCK	
<input type="checkbox"/> VERTICAL <input type="checkbox"/> 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		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)
	165	---	<u>mudstone</u> - same unit as above.	6.6'	13	
		---	Shale, med gy (N5) at base grading to H gy (N7) at top, mudstone, slightly silty, hard, thin horizontal laminae, few very small plant fragments along bedding planes, few sand sized authigenic siderite crystals, gradational lower contact.			
	170	---			12'	Box #13 171
		---			Box #14	
	175	---			14	

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		4. HOLE NO. (As shown on drawing title and file No.) _____				
5. NAME OF DRILLER _____		6. DIRECTION OF HOLE		7. THICKNESS OF OVERBURDEN		
<input type="checkbox"/> VERTICAL <input type="checkbox"/> 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		14. DATE HOLE		
DISTURBED _____ UNDISTURBED _____		14. TOTAL NO. CORE BOXES _____		15. ELEV. GROUND WATER _____		
16. DATE HOLE STARTED _____		16. DATE HOLE COMPLETED _____		17. ELEV. TOP OF 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)
	175	—	Shale, same unit as above,		14	
				12'		
			Interbedded siltstone and shale - alternating med gy (N5) and H gy (N7) laminae, hard, parallel fracture, thin, wavy bedding, soft sediment deformation, some brown stains, gradational lower contact,	3.4'	Box 14	
	180	—			181	
			Shale, same unit as below.		Box 15	
				8.8'		
	185	—			15	

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4- HOLE NO. (As shown on drawing title and file No.)		7- THICKNESS OF OVER-BURDEN		8- DEPTH DRILLED INTO ROCK	9- TOTAL DEPTH OF HOLE
6- DIRECTION OF HOLE <input type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		DEGREES WITH VERTICAL	12- MANUFACTURER'S DESIGNATION OF DRILL		
10- SIZE AND TYPE OF BIT		11- DATUM FOR ELEVATION SHOWN (TBM or MSL)			
13- TOTAL NO. OF OVERBURDEN SAMPLES TAKEN		14- TOTAL NO. CORE BOXES	15- ELEV. GROUND WATER	16- DATE HOLE STARTED COMPLETED	
DISTURBED	UNDISTURBED				
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)
195			mudstone, same unit as above.	2.5'	16	
			Shale, med dkgy (N4), mudstone, slightly silty, mod. hard, micaceous, thin horizontal laminae, non-fossiliferous, small clay ironstone nodules and bands to 0.2' thick, sharp lower contact with coal.	5.1'		
200			Coal blk (N1), banded mod. bright, hard, sulfate bloom, calc. cement, sharp contacts,	0.2'		"B" Bluejacket coal
			Mudstone, med ltgy (N6) at base to med gy (N5) at top, silty, soft, blocky fracture, massive, plant fragments common, few authigenic sid. cry stals, gradational lower contact.	3'	Box 16 203 Box 17	
205			Shale, same unit as below,	3.5'	17	

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6. DIRECTION OF HOLE		8. DEPTH DRILLED INTO ROCK		9. TOTAL DEPTH OF HOLE	
<input type="checkbox"/> VERTICAL	<input type="checkbox"/> 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	
DISTURBED		UNDISTURBED		16. DATE HOLE	
				STARTED	
				COMPLETED	
17. ELEV. TOP OF HOLE		18. TOTAL CORE RECOVERY FOR BORING (%)		19. SIGNATURE OF INSPECTOR	

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205			Shale, med H gy (N6), mudstone, few lt gy silty laminae, decreasing upwards, thinly laminated, appears to be burrowed, few small plant frags., abundant sand sized authigenic siderite crystals., gradational lower contact.	3.5'	17	
210			Sandstone, lt gy (N7) to v. lt. gy (N8), hard, sublitharenite, fine to very fine grained, abundant mud matrix, thin bedded, some ripple cross laminae, two muddy zones are present at 3' and 8' above base, few small plant fragments, abundant sand sized authigenic siderite crystals, sharp, angular lower contact. presence of muddy layers noted.	11.3'	Box #17 213	Upper Bluejacket S.S.
215					18	

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4. HOLE NO. (As shown on drawing title and file no.)		7. THICKNESS OF OVER-BURDEN		8. DEPTH DRILLED INTO ROCK	9. TOTAL DEPTH OF HOLE
6. DIRECTION OF HOLE					
<input type="checkbox"/> VERTICAL	<input type="checkbox"/> 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	

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215			Sandstone, same unit as above.		18	Upper Bluejacket S.S.
				113'		
220			Silt-shale, alternating lt gy (N7) and med gy (N5) wavy laminae, qtz, micaceous comp, hard, wavy bedded, non-fossiliferous, no diagenetic features evident, sharp, erosional lower contact with shale.		Box 223	
				3.8'		
					Box 19	
			Shale, same unit as below.			
				3.6'		
225						

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INSTALLATION _____		3. DRILLING AGENCY			
DRILLING LOG		5. NAME OF DRILLER			
4. HOLE NO. (As shown on drawing title and file No.)		7. THICKNESS OF OVERBURDEN		8. DEPTH DRILLED INTO ROCK	9. TOTAL DEPTH OF HOLE
6. DIRECTION OF HOLE	DEGREES WITH VERTICAL				
<input type="checkbox"/> VERTICAL	<input type="checkbox"/> INCLINED				
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)
225			Shale, med dk gy (N1), Claystone, hard, thin horizontal laminae, non-fossiliferous, finely disseminated pyrite, clay, ironstone bands, to 0.2' thick, sharp lower contact,	3.6'	19	
			Shale, med gy (N5), mudst, thinly lam., brachs, bryozoans, crinoid stems, calcareous cement, sharp lower contact.	1.1'		
			Coal, blk (N1), banded, mod bright, hard, sulfate bloom, sharp contacts,	0.1'		"C" Bluejacket coal
			Mudstone, med lt gy (N6) at base to H gy (N7) at top, silty, soft, blocky fracture, massive, plant fragments, sand sized authigenic siderite crystals and clay ironstone nodules to 0.1 dia, gradational lower contact.	3.7'	Box #19	
230					232	
			Shale, same unit as below.	13.5'	Box 20	
235					20	

DEPARTMENT OF THE ARMY		1. PROJECT		SHEET OF		
DIVISION _____		2. LOCATION (Coordinates or Station)				
INSTALLATION _____		3. DRILLING AGENCY				
DRILLING LOG		5. NAME OF DRILLER				
4. HOLE NO. (As shown on drawing title and file No.)		7. THICKNESS OF OVERBURDEN		8. DEPTH DRILLED INTO ROCK	9. TOTAL DEPTH OF HOLE	
6. DIRECTION OF HOLE		DEGREES WITH VERTICAL				
<input type="checkbox"/> VERTICAL	<input type="checkbox"/> INCLINED					
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)
	235		Shale, med gy (NS), mudstone, silty, with lt gy silty laminae increasing upwards, hard, thin, horizontal laminae, small pyritized plant fragments along bedding planes, silty zones appear burrowed, abundant brown stains, sharp lower contact w/ coal.		20	
	240			13.5	Box #20 242	
	245				21	

DEPARTMENT OF THE ARMY		1. PROJECT		SHEET OF		
DIVISION _____		2. LOCATION (Coordinates or Station)				
INSTALLATION _____		3. DRILLING AGENCY				
DRILLING LOG		5. NAME OF DRILLER				
4. HOLE NO. (As shown on drawing title and file no.)		7. THICKNESS OF OVER-BURDEN		8. DEPTH DRILLED INTO ROCK	9. TOTAL DEPTH OF HOLE	
6. DIRECTION OF HOLE						
<input type="checkbox"/> VERTICAL	<input type="checkbox"/> 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	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)
245		—	Coal, blk (N1), hard banded, med. bright, sulfate bloom, sharp contacts.	0.2	21	"D" Bluejacket Coal
		—	Mudstone, med lt gy (N6) at base to med gy (N5) at top. abundant silt at base, decreasing upwards, massive, no evidence of bedding, appears to be bioturbated, abundant plant fragments, hard, blocky - parallel fracture, sand sized authigenic siderite crystals, gradational lower contact,	5'		
250		—	Shale, same unit as below.	16'	Box #21 252 Box #22	
255		—				

DEPARTMENT OF THE ARMY		1. PROJECT		SHEET OF	
DIVISION _____		2. LOCATION (Coordinates or Station)			
INSTALLATION _____		3. DRILLING AGENCY			
DRILLING LOG		5. NAME OF DRILLER			
4. HOLE NO. (As shown on drawing title and file No.)		7. THICKNESS OF OVER-BURDEN		8. DEPTH DRILLED INTO ROCK	9. TOTAL DEPTH OF HOLE
6. DIRECTION OF HOLE					
<input type="checkbox"/> VERTICAL	<input type="checkbox"/> 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)
255			Shale, med Hgy (N6), mudstone, silty, silt content increasing upwards, hard, micaceous, thin horizontal laminae, few small plant fragments, sand sized authigenic siderite crystals near top, gradational lower contact		22	
				16'		
260					Box #22	
					262	
					Box 23	
265					23	

DEPARTMENT OF THE ARMY		1. PROJECT		SHEET OF	
DIVISION _____		2. LOCATION (Coordinates or Station)			
INSTALLATION _____		3. DRILLING AGENCY			
DRILLING LOG			4. HOLE NO. (As shown on drawing title and file No.)		
5. NAME OF DRILLER			6. DIRECTION OF HOLE		
<input type="checkbox"/> VERTICAL <input type="checkbox"/> 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		14. TOTAL NO. CORE BOXES	
DISTURBED		UNDISTURBED		15. ELEV. GROUND WATER	
16. DATE HOLE		17. ELEV. TOP OF HOLE		18. TOTAL CORE RECOVERY FOR BORING (%)	
STARTED		COMPLETED		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)
	265		Shale, same unit as above.	16'	23	
			Shale, med gy (N5), mudstone, slightly silty, micaceous, mod. hard, thin horizontal laminae, small plant fragments, clay ironstone bands to 0.1' thick, sharp lower contact w/coal,	28'		
			Coal, blk (N1), hard, banded, mod. bright, sulfate bloom, sharp contacts,	0.6'		Drywood coal
	270		Mudstone, med lt gy (N6) at base to lt gy (N7) near top, slightly silty, soft, blocky frac., massive, plant frags abundant, few sand sized authigenic siderite crystals, gradational lower contact,	3.4'	Box #23 272	
			Shale, same unit as below.	8.2'	Box 24	
	275					

DEPARTMENT OF THE ARMY DIVISION _____ INSTALLATION _____ <p style="text-align: center;">DRILLING LOG</p>	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 <input type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED DEGREES WITH VERTICAL _____	7. THICKNESS OF OVERBURDEN _____	8. DEPTH DRILLED INTO ROCK _____	9. TOTAL DEPTH OF HOLE _____
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10. SIZE AND TYPE OF BIT _____	11. DATUM FOR ELEVATION SHOWN (TBM or MSL) _____	12. MANUFACTURER'S DESIGNATION OF DRILL _____
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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 _____
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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)
275	—	—	Shale, med dk gy (N4), mudstone, slightly silty, micaceous, mod. hard, brittle, thin horizontal laminae, non-fossiliferous, clay ironst. nodules to 0.1' dia, sharp lower contact with coal,	8.2'	24	
280	—	—	Coal, blk (N1), hard, banded, mod. bright, sulfate bloom, calc. cement in fractures, sharp contacts,	0.25'	Box #24	Rowe coal
282	—	—	Mudstone, med lt gy (N6) at base to med dk gy (N4), just below coal, slightly silty, soft, blocky frac, plant frags, massive, clay ironstone nodules 0.5" dia, gradational lower contact,	2.2'	Box #25	
285	—	—	Shale, same unit as below.	7.7.		

DEPARTMENT OF THE ARMY		1. PROJECT		SHEET OF	
DIVISION _____		2. LOCATION (Coordinates or Station)			
INSTALLATION _____		3. DRILLING AGENCY			
DRILLING LOG		5. NAME OF DRILLER			
4. HOLE NO. (As shown on drawing title and file No.)		7. THICKNESS OF OVER-BURDEN			
6. DIRECTION OF HOLE		8. DEPTH DRILLED INTO ROCK		9. TOTAL DEPTH OF HOLE	
<input type="checkbox"/> VERTICAL	<input type="checkbox"/> 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	
DISTURBED		UNDTURBED		16. DATE HOLE	
STARTED		COMPLETED		19. SIGNATURE OF INSPECTOR	
17. ELEV. TOP OF HOLE		18. TOTAL CORE RECOVERY FOR BORING (%)			

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
285			Shale, med lt gy (N6), mudstone, few very thin silty lenses, hard, gtc, micaceous comp., thin horizontal laminae, small plant fragments along bedding planes, sand sized authigenic siderite crystals, irregular clay ironstone nodules, less than 0.1' dia, gradational lower contact,	7.7'	Box #25	
290					Box #26	
			Shale, same unit as below,	17.3'	292 Box #26	
295						

DEPARTMENT OF THE ARMY DIVISION _____ INSTALLATION _____ DRILLING LOG			1. PROJECT _____		SHEET _____ OF _____	
			2. LOCATION (coordinates or Station) _____			
4. HOLE NO. (As shown on drawing title and file No.) _____			3. DRILLING AGENCY _____			
5. NAME OF DRILLER _____						
6. DIRECTION OF HOLE			7. THICKNESS OF OVERBURDEN		8. DEPTH DRILLED INTO ROCK	
<input type="checkbox"/> VERTICAL <input type="checkbox"/> 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		
DISTURBED _____ UNDISTURBED _____				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)
	295		Shale, meddkgy (N4) at base grading to med Hgy (N6) at top, claystone, mod. hard, micaceous, thin horizontal laminae, non-fossiliferous, clay ironstone bands to 0.1' thick, gradational lower contact,		Box #26	
	300					
				173'		
					Box #26	
					302	
					Box #27	
	305					

DEPARTMENT OF THE ARMY		1. PROJECT		SHEET OF	
DIVISION _____		2. LOCATION (coordinates or Station)			
INSTALLATION _____		3. DRILLING AGENCY			
DRILLING LOG		5. NAME OF DRILLER			
4. HOLE NO. (As shown on drawing title and file No.)		7. THICKNESS OF OVERBURDEN			
6. DIRECTION OF HOLE		8. DEPTH DRILLED INTO ROCK		9. TOTAL DEPTH OF HOLE	
<input type="checkbox"/> VERTICAL <input type="checkbox"/> 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	
DISTURBED		UNOTSTURBED		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)
315		—	Silt-shale, medgy (N5) with ltgy (N7) silty laminae, qtz, micaceous comp, hard, thin horizontal laminae, silty lenses show low angle ripple x-laminae, plant fragments along bedding planes, small pyrite conc, clay ironstone nodules to 0.1' dia, and some soft sediment deformation, abundant brown stains, sharp lower contact,	11.3'	Box #28	
320		—				
		X	2.0' core loss 320.7' - 322.7'			
		—	Shale, medgy (N5), mudst., hard, qtz, micaceous comp, thin horizontal laminae, pyritized plant remains, lenticular clay ironst. nodules, sharp lower contact,	11.7'	Box #28	
		—	Mudstone, medgy (N5), silty, soft, blocky, frac-conchoidal frac., plant material, sulfate bloom & clay ironst. nodules, grad. lower contact.	0.9'	Box #29	"Underclay"? Unnamed coal horizon
325		—				

1.6
1.8
3.4

HOLE NO. _____

DEPARTMENT OF THE ARMY		1- PROJECT		SHEET OF 4	
DIVISION _____		2- LOCATION (coordinates or Station)			
INSTALLATION _____		3- DRILLING AGENCY			
DRILLING LOG		5- NAME OF DRILLER			
4- HOLE NO. (As shown on drawing title and file no.)		7- THICKNESS OF OVERBURDEN		8- DEPTH DRILLED INTO ROCK	9- TOTAL DEPTH OF HOLE
6- DIRECTION OF HOLE					
<input type="checkbox"/> VERTICAL	<input type="checkbox"/> 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)
325		-- --	<u>mudstone</u> same unit as above.	0.9'	Box #29	
			Core loss 2.1' 325.3 - 327.4' probably mudstone!	2.1'		
			<u>Shale</u> , dkgy (N3) mudstone, slightly silty, micaceous, mod. hard, crumbled, thin horizontal laminae, non fossiliferous, clay ironstone bands, irregular in shape to 0.2' dia, sharp lower contact.	4'		
330						
			<u>Shale</u> , medgy (N5), mudst. silty, micaceous, hard, thinly laminated, contains brachs, bryozoans, gastropods acrinoid frags, calcareous cement, clay ironstone conc., sharp lower contact	1.4'		
			<u>Shale</u> , same unit as below.	7.2'		
335					Box 29	

DEPARTMENT OF THE ARMY		1. PROJECT		SHEET OF	
DIVISION _____		2. LOCATION (Coordinates or Station)			
INSTALLATION _____		3. DRILLING AGENCY			
DRILLING LOG		5. NAME OF DRILLER			
4. HOLE NO. (As shown on drawing title and file No.)		7. THICKNESS OF OVERBURDEN		8. DEPTH DRILLED INTO ROCK	9. TOTAL DEPTH OF HOLE
6. DIRECTION OF HOLE					
<input type="checkbox"/> VERTICAL	<input type="checkbox"/> 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)
335			Shale, med gy (N5), mudstone, silty, qtz, micaceous comp, mod. hard, thin horizontal laminae, few horizontal burrows, small elongate pyrite concretions, may be filling burrows, brown stains, sharp lower contact with coal. Uniform color & composition.	7.2'	Box #29 336 Box 30	
340			Coal blk (N1), hard, banded, mod. bright, white & yellow sulfate bloom, calcareous cement in fractures, sharp contacts.	0.8'		"A" coal
			Mudstone, med Hgy (N6), slightly silty, mod. hard, blocky fracture, qtz, micaceous comp, no evidence of bedding, plant fragments, gradational lower contact.	2.4'		"Underclay"
			Shale, same unit as below,	6'	Box 30	
345						

DEPARTMENT OF THE ARMY		1. PROJECT		SHEET OF	
DIVISION _____		2. LOCATION (Coordinates or Station)			
INSTALLATION _____		3. DRILLING AGENCY			
DRILLING LOG		5. NAME OF DRILLER			
4. HOLE NO. (As shown on drawing title and file No.)		7. THICKNESS OF OVERBURDEN		8. DEPTH DRILLED INTO ROCK	9. TOTAL DEPTH OF HOLE
6. DIRECTION OF HOLE					
<input type="checkbox"/> VERTICAL	<input type="checkbox"/> 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)
345		—	Shale, med dk gy (N4), mudstone, silty, thin horizontal laminae with a few silty lenses, hard, micaceous, localized calcareous cement and clay ironstone bands to 0.1' thick, sharp lower contact with coal, silty laminae increase towards top of unit,	6'	Box #30 346' Box #31	
		—	Coal, blk (N1), hard, banded, mod. bright, sulfate bloom + calcareous cement in frags, sharp contacts,	0.7'		"B" coal
350		—	mudstone, Hgy (N7), slightly silty, soft, blocky fracture, no evidence of bedding, few plant fragments, irregular clay ironstone nodules to 0.1' thick, few sand sized authigenic siderite crystals, gradational lower contact.	3.3'		"Underclay"
		—	Shale, same unit as below.	17.5'	Box #31	
355		—				

DEPARTMENT OF THE ARMY		1- PROJECT		SHEET OF	
DIVISION _____		2- LOCATION (Coordinates or Station)			
INSTALLATION _____		3- DRILLING AGENCY			
DRILLING LOG			5- NAME OF DRILLER		
4- HOLE NO. (As shown on drawing title and file No.)			6- DIRECTION OF HOLE		
<input type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		DEGREES WITH VERTICAL		7- THICKNESS OF OVER-BURDEN	8- DEPTH DRILLED INTO ROCK
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)
365			Shale, same unit as above.		Box 32	
					366'	
					Box 33	
				17.5'		
370			Mudstone, med H gy (N6), slightly silty, mod. hard, blocky to parallel fracture, no evidence of bedding, few small plant fragments, abundant sand sized authigenic siderite crystals, gradational lower contact.			"C" Coal horizon resembles "underclay" but no coal!
				4'		
375			Shale, same unit as below.		Box 33	
				8'		

DEPARTMENT OF THE ARMY		1- PROJECT		SHEET OF	
DIVISION _____		2- LOCATION (Coordinates or Station)			
INSTALLATION _____		3- DRILLING AGENCY			
DRILLING LOG		5- NAME OF DRILLER			
4- HOLE NO. (As shown on drawing title and file no.)		7- THICKNESS OF OVER-BURDEN		8- DEPTH DRILLED INTO ROCK	
6- DIRECTION OF HOLE		9- TOTAL DEPTH OF HOLE		10- SIZE AND TYPE OF BIT	
<input type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED DEGREES WITH VERTICAL		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 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)
385		—	Shale, same unit as described above.	5.4'	Box 34 385'	
390		§	Shale, med gy (N5), mudstone, silty, etc, micaceous comp, hard, thin horizontal laminae, few pyritized plant frags at base, upper 5' bioturbated, clay ironstone bands up to 0.2' thick, some dark brown stains near top, sharp lower contact marked by 0.3' thick clay ironstone band.	13.4'	Box 35	
395		—				

DEPARTMENT OF THE ARMY		1. PROJECT		SHEET OF	
DIVISION _____		2. LOCATION (Coordinates or Station)			
INSTALLATION _____		3. DRILLING AGENCY			
DRILLING LOG		5. NAME OF DRILLER			
4. HOLE NO. (As shown on drawing title and file no.)		7. THICKNESS OF OVERBURDEN		8. DEPTH DRILLED INTO ROCK	9. TOTAL DEPTH OF HOLE
6. DIRECTION OF HOLE					
<input type="checkbox"/> VERTICAL	<input type="checkbox"/> 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)
395			Shale, same unit as above,		Box 35	
					396'	
					Box 36	
				13.4'		
400						
		XXX	Shale, same unit as below, described on next page.			
				10.5'		
405					Box 36	

DEPARTMENT OF THE ARMY		1. PROJECT		SHEET OF	
DIVISION _____		2. LOCATION (Coordinates or Station)			
INSTALLATION _____		3. DRILLING AGENCY			
DRILLING LOG		5. NAME OF DRILLER			
4. HOLE NO. (As shown on drawing title and file no.)		7. THICKNESS OF OVERBURDEN		8. DEPTH DRILLED INTO ROCK	
6. DIRECTION OF HOLE		9. TOTAL DEPTH OF HOLE		10. SIZE AND TYPE OF BIT	
<input type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED DEGREES WITH VERTICAL		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)
405			shale, med dk gy (N4) with lt gy (N7) silty laminae, mudstone, qtz, micaceous comp., thinly laminated, lenticular bedded, few small horizontal burrows, small pyrite crystals and clay ironstone nodules 0.2" thick, sharp lower contact with coal, top marked by 0.3' clay ironstone band.	10.5'	Box 36 406 Box 37	
410			Coal, blk (N1), hard, banded, mod. bright, yellow + white sulfate bloom, calcareous cement in fractures, sharp contacts,	1.7'		Riverton coal, sampled by W.S.U. palynologist.
			Mudstone, med lt gy (N6), silty, soft, blocky fracture, no evidence of bedding, plant fragments, pyrite nodules 0.1" thick, grad. lower contact.	1.5'		"Underclay"
415			Shale, same as below, described on next page.	6'	Box 37	

DEPARTMENT OF THE ARMY DIVISION _____ INSTALLATION _____	1- PROJECT _____ SHEET _____ OF _____
DRILLING LOG	
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 <input type="checkbox"/> VERTICAL <input type="checkbox"/> 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)
415		—	Shale, dkgy (N3) with lt gy (N7) laminae, mudstone, silty laminae increasing upwards, lenticular bedded, few small pyritized plant frags along bedding planes, small amount of soft sediment deformation, calcareous cement in silty lenses, abundant fine pyrite and pyrite nodules up to 0.5" diameter, gradational lower contact,	6'	Box 37	
416		—			Box 38	
417		—				
418		—				
419		—				
420		—				
421		—	Shale, same unit as below, described on next page.	9'		
422		—				
423		—				
424		—				
425		—			Box 38	

DEPARTMENT OF THE ARMY		1. PROJECT		SHEET OF	
DIVISION _____		2. LOCATION (Coordinates or Station)			
INSTALLATION _____		3. DRILLING AGENCY			
DRILLING LOG			5. NAME OF DRILLER		
4. HOLE NO. (As shown on drawing title and file No.)			5. NAME OF DRILLER		
6. DIRECTION OF HOLE			7. THICKNESS OF OVERBURDEN	8. DEPTH DRILLED INTO ROCK	9. TOTAL DEPTH OF HOLE
<input type="checkbox"/> VERTICAL	<input type="checkbox"/> 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)
425			Shale, dk gy (N3), claystone, micaceous, mod. hard, parallel fracture, non-fossiliferous, abundant finely disseminated pyrite and pyrite nodules up to 0.5 in. diameter, sharp, erosional lower contact with limestone, uniform color and composition throughout unit.	9'	39	
426						
427						
428						
429			Limestone, H gy (N7), mudstone, hard, no evidence of bedding, calcareous, non-fossiliferous, extensively fractured with pyrite & yellow sulfate bloom, abundant dark brown oil stains, lower contact not observed, upper surface erosional.	5.7'		Mississippian L.S.
430						
431						
432						
433						
434			Bottom of hole 434'			
435						