

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 OVER-BURDEN _____	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)
70			Mud-shale, med H 94 (N6), mod, hard, parallel fracture, silty, micaceous, thin horizontal laminae, some wavy bedding, few small plant fragments along bedding planes, few sand sized authigenic siderite crystals, intercalating lower contact.		# 3	
					73'	
				14.0'	# 4	
80						

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4. HOLE NO. (As shown on drawing title and file No.) _____			3. DRILLING AGENCY _____			
5. NAME OF DRILLER _____			7. THICKNESS OF OVER-BURDEN _____		9. TOTAL DEPTH OF HOLE _____	
6. DIRECTION OF HOLE <input type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED DEGREES WITH VERTICAL _____			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 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			<u>Mud-shale,</u> same unit as above.	14.0'	# 4	
			<u>Clay-shale,</u> same unit as described below.		# 5	
85				83'		
				24.6'		
90						

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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		11. DATUM FOR ELEVATION SHOWN (TBM or MSL) _____		12. MANUFACTURER'S DESIGNATION OF DRILL _____	
<input type="checkbox"/> VERTICAL	<input type="checkbox"/> INCLINED	DEGREES WITH VERTICAL _____		13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN	14. TOTAL NO. CORE BOXES _____
				DISTURBED _____	UNDISTURBED _____
10. SIZE AND TYPE OF BIT _____		15. ELEV. GROUND WATER _____	16. DATE HOLE		19. SIGNATURE OF INSPECTOR _____
			STARTED _____	COMPLETED _____	
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)
100		T	Clay - shale, same unit as above.		# 6	
		T			24.6	
		T			103'	
		T				
		T				
		T				
105			Coal, blk (N), banded, mod. bright, sulfate bloom, calc. cement in cleats, sharp contacts.	0.4'	# 7	Tebo coal
110		33	Silt-stone - same unit as below,	7.5'		Unnamed S.S.

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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 OVER-BURDEN		8. DEPTH DRILLED INTO ROCK	9. TOTAL DEPTH OF HOLE
6. DIRECTION OF HOLE		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)			
<input type="checkbox"/> VERTICAL	<input type="checkbox"/> INCLINED	DEGREES WITH VERTICAL	12. MANUFACTURER'S DESIGNATION OF DRILL		
10. SIZE AND TYPE OF BIT		13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN	14. TOTAL NO. CORE BOXES	15. ELEV. GROUND WATER	16. DATE HOLE
DISURBED		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)
110		...	Silt-stone, H ₉₄ (N7) at base to med H ₉₄ (N6) at top, abundant mud matrix, mod. hard, blocky fracture, abundant plant material in upper portion, few sand sized authigenic siderite crystals, gradational lower contact.	7.5'	# 7	
		...	Sandstone, H ₉₄ (N7), very fine grained, qtz, mica, abundant mud matrix, convolute lamination, gradational lower contact.	1.3'	# 8	Unnamed Sandstone
115		...	Silt-stone, H ₉₄ (N7), mod. hard, blocky fracture, abundant mud matrix, thinly laminated, some ripples, abundant plant & wood fragments, gradational lower contact.	7.0'		
120		...				

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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 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	16. DATE MOLE	
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)
120		---	<u>Silt-stone</u> , same unit as above.	7.0'	# 8	
		---	<u>Mudstone</u> , med Hgy(N6), soft, blocky fracture, non-fossiliferous,	1.0'		
		⊘	<u>Sandstone</u> , Hgy(N7), very fine grained, abundant mud matrix, qtz, micaceous comp, abundant ripples, <1cm, wavy bedded at base to flaser bedded at top, non-fossiliferous, abundant sand sized authigenic siderite crystals, gradational lower contact.	4.2'	# 9	May represent progradation of delta. <u>Slab this one!</u> Unnamed Sandstone
125		⊘	<u>Siltstone</u> , med Hgy(N6) mostly silt + mud, some ripples <1cm, convolute lamination, non-fossiliferous, intercalating lower contact.	1.5'		
		---	<u>Clay-shale</u> - same unit as below.	12'		
130		---				

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			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 <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)
150			Mud-shale alternating lt gy (N7) & med gy (N5) laminae, mod. hard, parallel fracture, 20% silty, wavy bedded, non-fossiliferous, few sand sized authigenic siderite xtals, gradational lower contact		# 11	
				6.6'		
					154'	
155			Mud-shale, med dk gy (N4), mod. hard, parallel frac. silty, micaceous, thinly laminated, plant fragments, may be burrowed, clay ironstone bands to 0.1' thick, gradational lower contact.		# 12	
				5.3'		
160						

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4. HOLE NO. (As shown on drawing title and file No.) _____					7. THICKNESS OF OVER-BURDEN _____		
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 MOLE 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)	
	160	—	Mud-shale, same unit as described above.	5.3'			
		§	Mud-shale alternating Hgy(N7) & meddkgy(N4) laminae, 40% silt, qtz, micaceous comp, hard, parallel fracture, wavy bedded, plant fragments, bioturbated, gradational lower contact. Conolute bedding	4.0'	# 12		
	165	T	Clay-shale, same unit as described below.	11.3'	# 13		
	170						

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DRILLING LOG		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. TOTAL NO. CORE BOXES _____	
DISTURBED _____ UNDISTURBED _____		15. ELEV. GROUND WATER _____		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)
170		T	Clay-shale dk gy (N3), mod. hard, parallel fracture, no silt, micaceous, thin horizontal laminae few pyritized plant frags, clay ironstone bands to 0.1' thick, localized calcareous cement, sharp lower contact w/ coal,	11.3'	# 13	
175		T	Coal, blk(N), banded, mod. bright, sulfate bloom, sharp contacts,	0.3'	# 14	"A" Upper B.J. Coal
		-	Mud-stone, med H gy (N6) - H gy (N7), soft, blocky frac, slightly silty, micaceous, massive, plant frags, irregular clay, ironstone concretions, gradational lower contact,	2.2'		
180		T	Clay-shale - same unit as described below.	6.1'		

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4. HOLE NO. (As shown on drawing title and file No.)		7. THICKNESS OF OVERBURDEN		8. DEPTH DRILLED INTO ROCK	
6. DIRECTION OF MOLE		9. TOTAL DEPTH OF HOLE		12. MANUFACTURER'S DESIGNATION OF DRILL	
<input type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED DEGREES WITH VERTICAL		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)		10. SIZE AND TYPE OF BIT	
13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN		14. TOTAL NO. CORE BOXES		15. ELEV. GROUND WATER	
DISTURBED		UNDISTURBED		16. DATE MOLE	
17. ELEV. TOP OF HOLE		18. TOTAL CORE RECOVERY FOR BORING (%)		19. SIGNATURE OF INSPECTOR	

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
180		T	Clay-shale - gy blk (N2) to dk gy (N3), mod, hard, parallel frac., micaceous, thin horizontal laminae, may be burrowed, small pyrite concretions, few zones w/ marine fossil debris (crinoid etc.) & calc. cement, sharp lower contact.	6.1'	# 14	
185		- - -	Mudstone, med gy (N5), massive, soft, blocky frac., abundant plant material, gradational lower cont.	1.3'	# 15	Upper B.J. coal horizon Underclay but no coal! "B" B.J. horizon
		{	Siltstone, lt gy (N7) hard, blocky fracture, sub-equal silt & mud, massive, bioturbated, authigenic siderite crystals, gradational lower contact.	3.8'	# 15	
190		...				

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5. NAME OF DRILLER _____		7. THICKNESS OF OVER-BURDEN _____		8. DEPTH DRILLED INTO ROCK _____		
6. DIRECTION OF HOLE <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 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		S	Sandstone, lt gy (N7) w/ brown mottling, very fine grained, abundant mud matrix, massive, abundant bioturbation oil stains in more permeable zones, authigenic siderite crystals, gradational lower contact.	3.5'	# 15	Upper Bluejacket Sandstone
		S	Siltshale, lt gy (N7), hard, parallel fracture, micaceous, thinly laminated, few small plant fragments, authigenic siderite crystals, intercalating lower contact.	4.9'	# 16	
195			Sandstone, same unit as described below.	5.0'	# 16	
260						

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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	

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200		...	Sandstone med brownish gy, (5YR 5/1), very fine - fine grained, rippled, few thin muddy laminae, few plant fossils, oil stained lightly, sharp, scoured lower contact.	50'	# 16	Upper Bluejacket Sandstone
		...	Siltstone, Hgy(N7) hard, parallel fracture, thin wavy laminae, rippled, non-foss., sand sized authigenic siderite crystals, sharp lower contact.	2'	# 17	
205		T	Clay shale - dkgy(N3) hard, parallel laminae, no silt, thin horizontal laminae, non-fossiliferous, Clay ironstone bands to 0.1' thick, sharp lower contact.	2.7'		
		T	Calcareous mud shale - med gy(N5), abundant marine fossil frags, calcareous cement sharp lower contact.	1.0'	# 17	
		(T) T	Coal, blk(N1), banded, mod. bright, sulfate bloom, sharp contacts	0.3'		Lower Bluejacket coal ("C")
		- -	Mudstone - same unit as described below.	3.7'		
210		- -				

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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 _____		
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)
	220	T	Mud-shale, med dk gy (N4)		# 18	
		T	same unit as described above,			
		T			# 19	
		T		12.4'		
		T	Coal, blk (N1) banded, mod. bright, sulfate bloom, sharp contacts.	0.3'		Lower Bluejacket "D" coal
		-	Mudstone - H gy (N7) mod. hard, blocky frac, silty micaceous, massive, abundant plant frags, gradational lower contact.	1.3'		
	235	...	Siltstone H gy (N7), mod. hard, blocky fracture, subequal silt & mud, thinly laminated, probably was wavy bedded, extensively bioturbated, authigenic siderite crystals, gradational lower contact.	4.0'	# 19	Lower Bluejacket Sandstone
		~	Mud shale - same unit as described below.	1.9'		
	230	I				

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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)	
	230		Mud shale, med Hgy (N6), same unit as described below.		# 19		
						231'	
		S				# 20	
		~					
		S					
		~					
		S					
		~					
		S					
		~					
	235						
				19'			
					# 20		
	240						

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4- HOLE NO. (As shown on drawing title and file No.)			9- TOTAL DEPTH OF HOLE		
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	
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)
240		{	Mud-shale, med dk gy (N4) at base to med lt gy (N6) at top., mod. hard, parallel fracture, slightly silty, micaceous, thinly laminated, few small plant frags along bedding planes, small vert. & horizontal burrows, clay ironstone bands at base to		# 20	
		{			241'	
					# 21	
				19'		
245		~	oil thick, finely disseminated pyrite, authigenic siderite, sharp lower contact.			
		~				
		~			# 21	
		~	Coal, blk (N1), banded, mod. bright, sulfate bloom, sharp contacts.	0.4'		Drywood coal
		~	Mudstone, same unit as described below.	4.6'		Underclay
250		-				

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 _____				7. THICKNESS OF OVER-BURDEN _____		8. DEPTH DRILLED INTO ROCK _____	
6. DIRECTION OF HOLE		DEGREES WITH VERTICAL		9. TOTAL DEPTH OF HOLE _____			
<input type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED				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 _____		12. MANUFACTURER'S DESIGNATION OF DRILL _____	
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)	
	270		mud-shale, med gy(N5), same unit as described above.	8'	# 23		
			Clay-shale, dkgy(N3), hard, parallel frac, no silt, thin horizontal laminae, non-fossiliferous, clay ironstone bands to 0.4' thick, yellowish brown stains, sharp lower contact.	11.6'	# 24		
	275						
	280						

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

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		Clay-shale - dkgy(N3), same unit as described above.		# 24	
				11.6'	# 25	
			Mudstone, med H gy(N6), soft-mod. hard, blocky-conch. frac, slightly silty, micaceous, massive, abundant plant frags, sand sized authigenic siderite crystals, gradational lower contact.			Underclay but no coal, Neutral coal horizon
	285			3.7'		
			Mudshale, med dkgy (N4), mod. hard, parallel frac., thinly laminated, lent. bedded, plant fragments, pyrite nodules, gradational lower contact.		# 25	
				2'		
			Siltstone, medgy(N5), hard, blocky frac, plant frags, vertical & horizontal burrows, thin bedded, gradational lower cont.			
	290			3.6'		

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 _____			
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 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	...	Siltstone, med dk gy (N6) same unit as described above.	3.6'	# 25 # 291'	Upper Warner Sandstone
	300	...	Sandstone, med dk gy (N6), very fine grained, mod. sorted, qtz, micaceous comp, thin bedded, rippled, abundant clay chips, coal & plant frags, Convolute laminae, authigenic siderite & clay ironstone bands, intercalating lower contact.	10.2'	# 26	

DEPARTMENT OF THE ARMY DIVISION _____ INSTALLATION _____ DRILLING LOG		1. PROJECT _____	SHEET _____ OF _____
4. HOLE NO. (As shown on drawing title and file No.) _____		2. LOCATION (Coordinates or Station) _____	
6. DIRECTION OF HOLE <input type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED DEGREES WITH VERTICAL _____		3. DRILLING AGENCY _____	
7. THICKNESS OF OVER-BURDEN _____		5. NAME OF DRILLER _____	
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			Mud-shale - same unit as above.	16.1'	# 29	"A" coal Underclay
			Coal, blk(N1), banded mod. bright, sulfate bloom, sharp contacts	1.4'		
			Mudstone, med H gy(N6), soft, blocky fracture, massive, plant frags, silty, gradational lower contact.	2.2'		
325			Mud-shale, dk gy (N3), hard, parallel fracture, slightly silty, qtz, micaceous comp, thinly laminated, lenticular bedded, 10% silt, silty lenses increase upwards, few pyritized plant fragments, few small horizontal burrows, finely disseminated pyrite crystals, clay ironstone bands to 0.1' thick, sharp lower contact w/coal.	6.4'		
330						

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		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)
330			Mud-shale - dk gray (N3)	6.4'	# 30	"B" coal
			Coal, blk (N1), banded, mod. bright, sulfate bloom, sharp contacts.	0.9'		
			Mud-stone - med lt gray (N6), soft, blocky - conchoidal fracture, massive, plant fragments, irregular clay ironstone conc. gradational lower cont.	1.8'		
			Clay-shale - same unit as described below.			
335						
					219'	
340						

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 _____			
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 DISTURBED _____		13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN 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	—	Clay-shale, dkgy (N3) hard, parallel frags, no no silt, micaceous, thin horizontal laminae, few horizontal burrows, clay ironstone bands to 0.1' thick, localized calcareous cement, sharp lower contact w/coal.		# 31	
	345	—		21.9'		
	350	—				

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 _____				
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 _____		5. NAME OF DRILLER _____		
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)
	350		Clay-shale, dkgy (N3), same unit as described above.	21.9'	# 32	
			Coal, blk (N1), banded, mod. bright, sulfate bloom, sharp contacts.	1.2'		"C" coal
	355		Mudstone, med Hgy (N6), mod. hard, blocky fracture, slightly silty, micaceous, massive, abundant plant material, irregular clay ironstone concretions, authigenic siderite crystals, gradational lower contact.	4.0'		
			Mud-shale - same unit as descr, bed below.	14.4'		
	360					

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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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 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		Mud-shale, dkgy (N3) same unit as described below.		#33	
	365					
	370					

14.4'

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			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 MOLE		
DISTURBED		UNDISTURBED		STARTED	COMPLETED	
17- ELEV. TOP OF HOLE		18- TOTAL CORE RECOVERY FOR BORING (%)		19- SIGNATURE OF INSPECTOR		
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	370	T	Mud shale, dk gy (N3) hard, parallel fracture, silty, thin laminated, few very thin silty lenses, abundant brachs + other marine fauna, few small plant frags, sharp lower contact w/ coal, localized calc. cement	44'	# 34	
			Coal, blk (N1), banded, mod. bright, sulfate bloom, calc. cement in fractures, 0.2' clay parting near middle, sharp contacts.	1.4'		"D" coal
	375		Mudstone, Hgy (N1), mod. hard, blocky fracture, silty, qtz, micaceous comp, massive, abundant plant fragments, abundant brown-orange Fe oxide stains, irregular clay ironstone concretions, gradational lower contact.	4 1/2'		Underclay
			mud-shale - same unit as described below.	5.4'		
	380					

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		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)		
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)
	380	—	Mud-shale, med dk gy (W4), mod. hard, parallel frac, silty, quartz, micaceous comp, thinly laminated, lenticular bedded, abundant plant frags, horizontal burrows, sharp lower contact w/ coal.		# 35	
		~	probably marine some authigenic siderite xtals,	54'		
	385	■	Coal, blk (N1), banded, mod. bright, abundant white & yellow sulfate bloom, calc. cement in vertical fracs, sharp contacts.	1.5		Riverton coal
		---	Mudstone med gy (N5) soft, blocky, fracture, slightly silty, massive, root marked, abundant plant frags, gradational lower contact,	22		
		—	Mudshale - same unit as described below.	7.5'		
	390	—				

DEPARTMENT OF THE ARMY DIVISION _____ INSTALLATION _____ DRILLING LOG		1. PROJECT _____		SHEET _____ OF _____		
		2. LOCATION (coordinates or Station) _____				
3. DRILLING AGENCY _____				5. NAME OF DRILLER _____		
4. HOLE NO. (As shown on drawing title and file No.) _____				9. TOTAL DEPTH OF HOLE _____		
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)
	390		Mud-shale, dkgy(N3) hard, parallel frac, slightly silty, micaceous, thinly laminated, lenticular bedded, silty lenses all less than 1cm thick, silty lenses increase upwards, small plant fragments along bedding planes, few small pyrite nodules, clay ironstone nodules, sharp lower contact,	7.5'	# 36	
	395		Coal, blk(ND), sulfate bloom, sharp contacts	0.1		Unnamed lower coal.
			Clay-shale, dkgy(N3), hard, parallel fracture micaceous, thin horizontal laminae, few small pyritized plant fragments along bedding planes, abundant pyrite nodules, sharp, unconformable lower contact w/ chert & l.s. clasts.	6.8'		
	400					

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 _____				
6. DIRECTION OF HOLE			7. THICKNESS OF OVERBURDEN _____		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)	
	400		Clay - shale, dk gy (N3)	68'	# 37		
			Limestone v. H gy (N8) - white (N9), mudstone, massive, hard, blocky fracture, non-fossiliferous, extensively fractured, abundant pyrite concretions & Fe stains in frags, lower contact not observed.			Mississippian L.S.	
	405			8.8'			
	410						