

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 2/23/23 10:21 - C:\P\WORKING\EAST\101D\052797\20230118 ATH-144-12.08 10-Y BORING LOGS.GPJ

PID: 116165 SFN: PROJECT: ATH-144-12.08 STATION / OFFSET: 638+35, 5' RT. START: 1/18/23 END: 1/19/23 PG 2 OF 2 B-001-0-23

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	HOLE SEALED	
								GR	CS	FS	SI	CL	LL	PL	PI				
SHALE, GRAY, SLIGHTLY TO MODERATELY WEATHERED, WEAK, VERY FINE TO FINE GRAINED, THIN TO MEDIUM BEDDED, ARENACEOUS, JOINT AND BEDDING DISCONTINUITIES, MODERATELY TO SLIGHTLY FRACTURED, TIGHT TO NARROW APERTURE, SICKENSIDED TO SLIGHTLY ROUGH, BLOCKY, FAIR SURFACE CONDITIONS; RQD 53%, REC 100%. @ 34.0' - 39.0' : Olive-gray @ 35.8' - 36.3' : Highly-Fractured with Staining @ 36.3' - 36.5' : Vertical Fracture with Staining @ 38.0' - 38.3' : Vertical Fracture with Staining	579.3																		
	578.8	31	60/3"	-	100	SS-12	-	-	-	-	-	-	-	-	-	-	14	Rock (V)	
			32																
			33																
			34																
			35	64		100	NQ2-1												CORE
			36																
			37																
			38																
			39																
SHALE, GRAY, MODERATELY TO HIGHLY WEATHERED, VERY WEAK, VERY THIN TO THIN BEDDED, ARGILLACEOUS, JOINT AND BEDDING DISCONTINUITIES, HIGHLY FRACTURED TO FRACTURED, OPEN APERTURE, SLICKENSIDED, LAMINATED, POOR TO VERY POOR SURFACE CONDITIONS; RQD 42%, REC 100%. @ 45.3' - 45.7' : qu = 23 psi @ 46.7' - 47.3' : Dark-Gray Carbonaceous	567.3	41																	
		42																	
		43																	
		44																	
		45		35		100	NQ2-2												CORE
LIMESTONE, GRAY, SLIGHTLY WEATHERED, STRONG, THIN BEDDED, CRYSTALLINE, JOINT AND BEDDING DISCONTINUITIES, MODERATELY FRACTURED TO FRACTURED, OPEN APERTURE, VERY ROUGH, VERY BLOCKY, GOOD SURFACE CONDITIONS; RQD 50%, REC 100%.	561.3	46																	
	559.3	47																	
		48																	
		49																	
		50																	

EOB

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: TREMIED 20 LB. BENTONITE POWDER; 94 LB. CEMENT; 50 GAL. WATER

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 2/23/23 10:21 - C:\P\WORKING\EAST01\1D3052797\20230118 ATH-144-12.08 10-Y BORING LOGS.GPJ

PID: 116165		SFN:		PROJECT: ATH-144-12.08		STATION / OFFSET: 639+63, 5' RT.		START: 1/16/23		END: 1/17/23		PG 2 OF 2		B-002-0-23							
MATERIAL DESCRIPTION AND NOTES				ELEV. 578.8	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	HOLE SEALED
											GR	CS	FS	SI	CL	LL	PL	PI			
@ 29.7' - 30.5' : Very Weak, Friable, Shale SHALE , GRAY, SLIGHTLY WEATHERED, WEAK, VERY FINE TO FINE GRAINED, MEDIUM TO THICK BEDDED, ARENACEOUS, JOINT AND BEDDING DISCONTINUITIES, MODERATELY TO SLIGHTLY FRACTURED, NARROW TO TIGHT APERTURE, SLIGHTLY ROUGH, BLOCKY, FAIR SURFACE CONDITIONS; RQD 54%, REC 100%. <i>(continued)</i> @ 31.8' - 32.5' : Sandstone, Fine to Medium Grained @ 34.8' - 35.8' : Olive, Highly Fractured, Vertical Fracture with Staining @ 35.8' - 37.0' : Sandstone, Gray, Slightly to Moderately Weathered, Fine to Medium Grained, Slightly Strong @ 37.2' - 39.0' : Olive, Highly Fractured, Vertical Fracture with Staining @ 39.0' - 39.5' : Olive @ 42.0' - 44.0' : Dark Blackish Gray				31	72	100	NQ2-2												CORE		
				32																	
				33																	
				34	27	100	NQ2-3											CORE			
				35																	
				36																	
				37	62	100	NQ2-4											CORE			
				38																	
				39																	
				40																	
				41																	
				42																	
				43																	
				44																	
				564.8	EOB																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: TREMIED 20 LB. BENTONITE POWDER; 94 LB. CEMENT; 50 GAL. WATER

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 2/23/23 10:21 - C:\P\WORKING\EAST01\1D3052797\20230118 ATH-144-12.08 10-Y BORING LOGS.GPJ

PID: 116165		SFN:		PROJECT: ATH-144-12.08		STATION / OFFSET: 640+81, 5' RT.		START: 1/18/23		END: 1/18/23		PG 2 OF 2		B-003-0-23						
MATERIAL DESCRIPTION AND NOTES			ELEV. 581.6	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	HOLE SEALED
										GR	CS	FS	SI	CL	LL	PL	PI			
ROUGH TO SLICKENSIDED, LAMINATED, POOR SURFACE CONDITIONS; RQD 36%, REC 86%. @ 28.5' - 29.5' : Dark Gray and Black, Carbonaceous with Coal SHALE , GRAY TO OLIVE-GRAY, MODERATELY WEATHERED, WEAK, VERY FINE TO FINE GRAINED, MEDIUM BEDDED, ARENACEOUS, JOINT AND BEDDING DISCONTINUITIES, FRACTURE TO MODERATLY FRACTURED, NARROW TO OPEN APERTURE, SLIGHTLY ROUGH, BLOCKY, POOR TO FAIR SURFACE CONDITIONS; RQD 58%, REC 100%. @ 31.2' - 32.6' : qu = 942 psi @ 32.0' - 33.0' : Highly Fractured, Trace Red-Brown @ 33.5' - 35.5' : Trace Red-Brown @ 35.5' - 38.0' : Gray to Olive-Gray @ 36.8' - 37.5' : Vertical Fracture with Staining @ 39.3' - 39.5' : Vertical Fracture @ 40.3' - 40.8' : Very Weak, Friable, Vertical Fracture with Staining @ 40.8' - 41.8' : Gray to Olive-Gray @ 41.2' - 42.0' : Vertical Fracture (Unopened) @ 42.0' - 43.3' : Vertical Fracture with Staining, Highly Fractured @ 43.7' - 44.0' : Vertical Fracture with Staining																				
			31																	
			32																	
			33																	
			34																	
			35																	
			36																	
			37																	
			38																	
			39	55	100	NQ2-2												CORE		
			40																	
			41																	
			42																	
			43																	
44	567.6	EOB																		

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: TREMIED 20 LB. BENTONITE POWDER; 94 LB. CEMENT; 50 GAL. WATER