

# MP-403 – Boxes 1 and 2



# MP-403 – Boxes 3 and 4

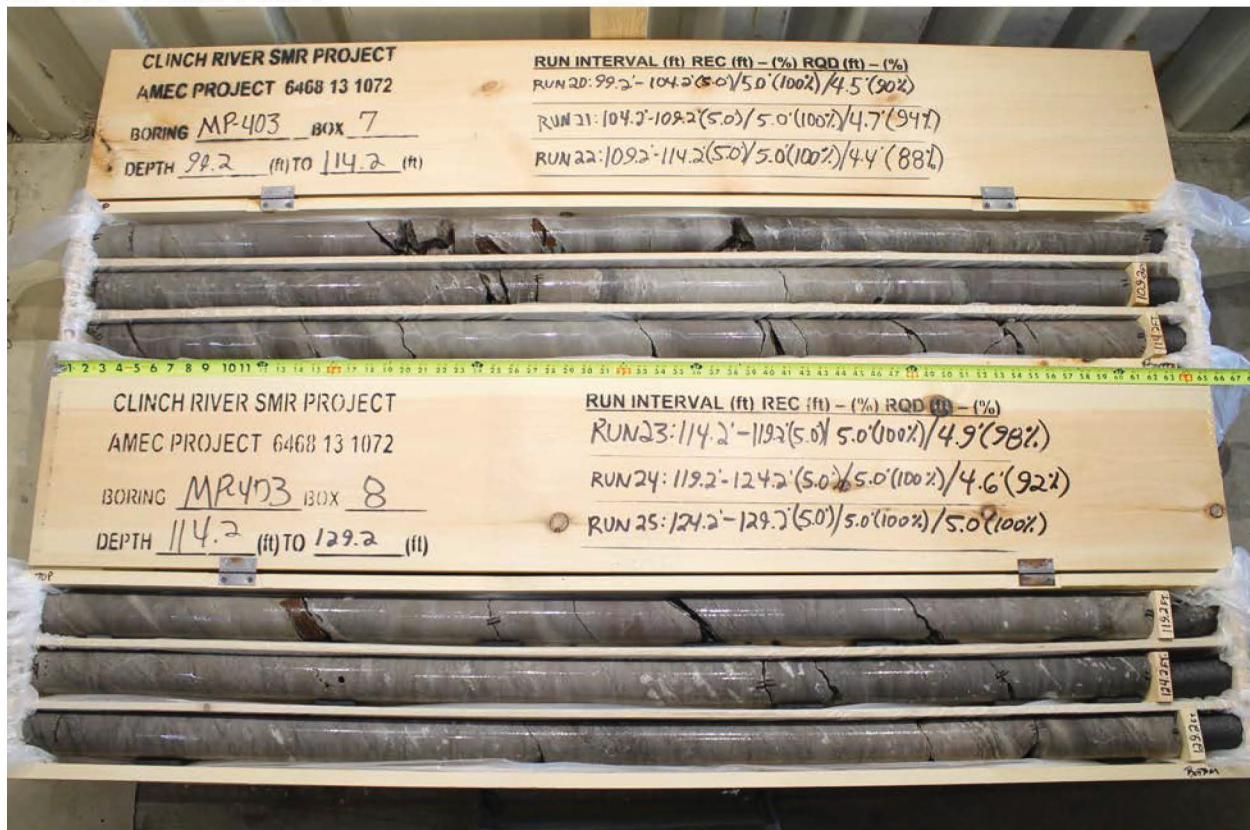




## MP-403 – Boxes 5 and 6

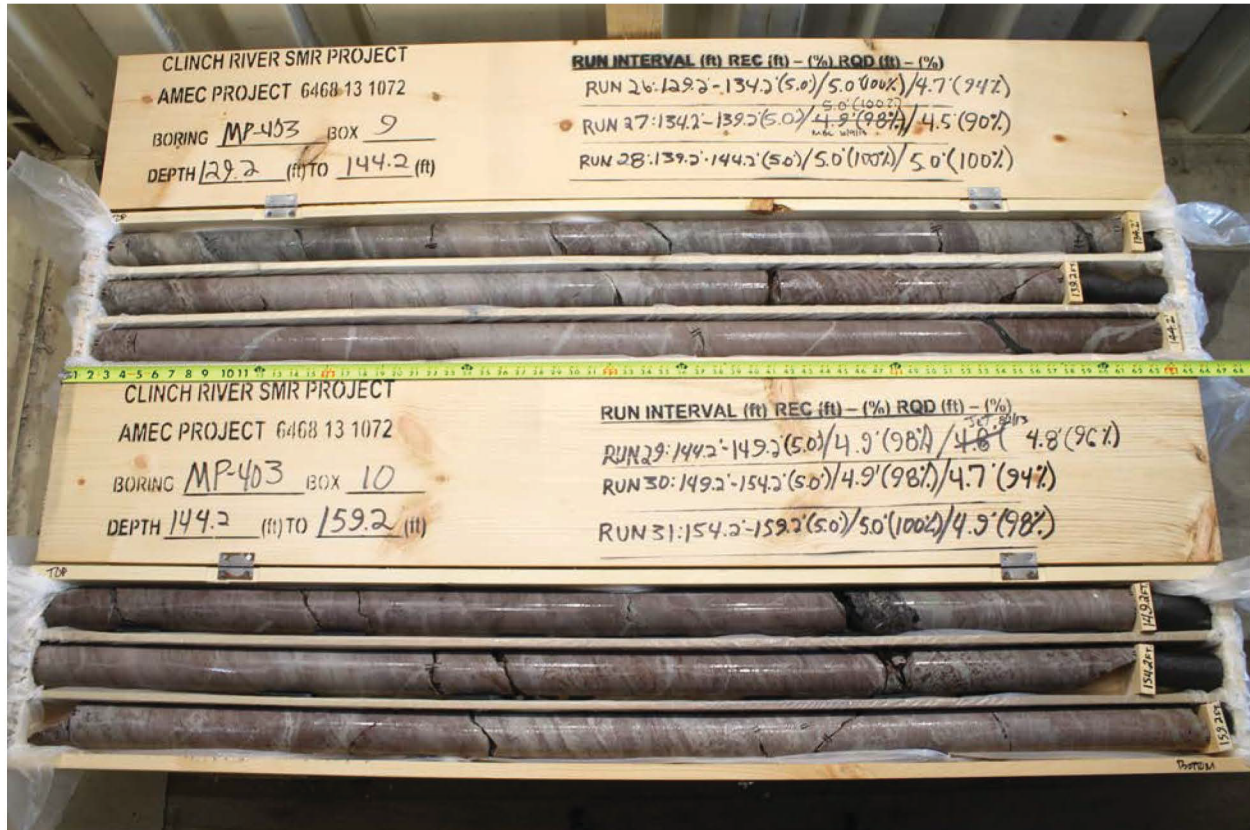


## MP-403 – Boxes 7 and 8





# MP-403 – Boxes 9 and 10



# MP-403 – Boxes 11 and 12





MP-403 – Box 13





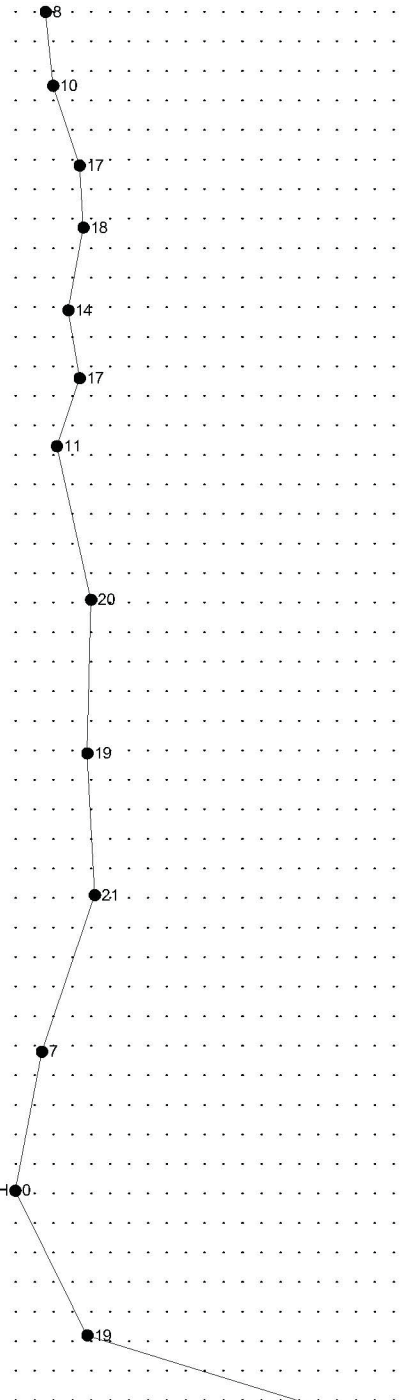









# GEOTECHNICAL BORING LOG

Prepared By: MBL Date: 3/5/14

Checked By: JCM Date: 3/5/14

SHEET 1 OF 2

BECHTEL NO.: 25847				AMEC PROJECT NO.: 6468-13-1072				COUNTY: Roane, TN				GEOLOGIST: E. Shrum			
SITE DESCRIPTION: Clinch River SMR Project, Roane County, Tennessee								DRILLER: B. Akins/J. Criss				Boring Orientation Inclination: Vertical Azimuth: NA			
BORING NO.: MP-404				DRILL METHOD: Mud Rotary/Core				DRILL MACHINE: D-120 (MW-1)							
GROUND ELEV.: 837.1 ft (NAVD88)				NORTHING: 571,709 US ft (NAD83)				EASTING: 2,447,758 US ft (NAD83)							
TOTAL DEPTH: 199.8 ft		SAMPLE METHODS: ASTM D 1586-11; 2488-09a; 2113-08; 6032-08						ROD TYPE: AWJ		HAMMER (ID): 140-lb Auto (027)					
DATE STARTED: 8/1/13		COMPLETED: 8/4/13		HOLE DIA.: 4"		CASING DEPTH: 49.0 ft		CORE SIZE:HQ3		BITS USED: 4" Roller Cone					
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	L O G	SOIL DESCRIPTION AND REMARKS			
		0.5ft	0.5ft	0.5ft	0	20	40	60	80	100					
837.1					Ground Surface							837.1	0.0		
837.1	0.0	7	5	3						SS-1		FILL: LEAN CLAY with Gravel (CL), yellowish red (5YR 5/6), medium stiff, dry, low plasticity fines, little fine gravel, trace organics, no to strong HCl reaction (on gravel)			
834.6	2.5	4	6	4						SS-2		833.1	4.0		
831.9	5.2	6	9	8						SS-3		RESIDUAL SOIL: Gravelly FAT CLAY (CH), reddish brown (5YR 4/4), very stiff, moist, moderate to high plasticity fines, little to some fine to coarse angular gravel, few coarse sand, no HCl reaction			
829.8	7.3	6	8	10						SS-4		10.1ft: As above, to stiff, little coarse sand			
827.0	10.1	6	6	8						SS-5		12.4ft: As above, to very stiff, little fine to coarse sand			
824.7	12.4	8	8	9						SS-6		823.1	14.0		
822.4	14.7	4	5	6						SS-7		RESIDUAL SOIL: FAT CLAY (CH), reddish brown (5YR 4/4), stiff, moist, moderate to high plasticity fines, few fine angular gravel and fine to coarse sand, no HCl reaction			
817.2	19.9	9	9	11						SS-8		819.1	18.0		
812.0	25.1	8	9	10						SS-9		RESIDUAL SOIL: FAT CLAY with Gravel (CH), reddish brown (5YR 4/4), very stiff, moist, moderate plasticity fines, little fine angular gravel, little fine to coarse sand, no HCl reaction			
807.2	29.9	7	8	13						SS-10		34.0ft: 50% Loss of drill fluid circulation			
801.9	35.2	7	4	3						SS-11		35.2ft: As above, to brown (7.5YR 5/4) mottled with light gray (7.5YR 7/1), medium stiff, moist to wet, no to strong HCl reaction			
797.2	39.9	WOH	WOH	WOH						SS-12		799.1	38.0		
792.3	44.8	19	11	8						SS-13		39.0ft: Complete loss of drill fluid circulation			
												794.1	43.0		
												790.1	47.0		

CLINCH RIVER SMR BORE FINAL CLINCH FINAL LOGS.GPJ CLINCH BORING DATA TEMPLATE.GDT 3/5/14





BECHTEL NO.: 25847		AMEC PROJECT NO.: 6468-13-1072		COUNTY: Roane, TN		GEOLOGIST: E. Shrum							
SITE DESCRIPTION: Clinch River SMR Project, Roane County, Tennessee				DRILLER: B. Akins/J. Criss		Boring Orientation							
BORING NO.: MP-404		DRILL METHOD: Mud Rotary/Core		DRILL MACHINE: D-120 (MW-1)		Inclination: Vertical							
GROUND ELEV.: 837.1 ft (NAVD88)		NORTHING: 571,709 US ft (NAD83)		EASTING: 2,447,758 US ft (NAD83)		Azimuth: NA							
TOTAL DEPTH: 199.8 ft		SAMPLE METHODS: ASTM D 1586-11; 2488-09a; 2113-08; 6032-08		ROD TYPE: AWJ		HAMMER (ID): 140-lb Auto (027)							
DATE STARTED: 8/1/13		COMPLETED: 8/4/13		HOLE DIA.: 4"		CASING DEPTH: 49.0 ft							
CORE SIZE: HQ3		BITS USED: 4" Roller Cone											
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	L O G	SOIL DESCRIPTION AND REMARKS	
		0.5ft	0.5ft	0.5ft	0	20	40	60	80	100			
788.5					Continued from previous page								
788.3	48.8	50/0.2									SS-14		WEATHERED ROCK: LIMESTONE, sampled as POORLY GRADED GRAVEL (GP), reddish gray (5YR 5/2), very dense, moist, fine to coarse angular gravel, strong HCl reaction; mostly limestone fragments with chert fragments (continued) Soil drilling halted. Log continues on geotechnical coring log  Observed water levels: DRY, AM 8/2/13 47.1 ft bgs, AM 8/3/13 46.8 ft bgs, AM 8/4/13

CLINCH RIVER SMR BORE FINAL CLINCH FINAL LOGS.GPJ CLINCH BORING DATA TEMPLATE.GDT 3/5/14





## GEOTECHNICAL CORING LOG

Prepared By: MBL Date: 3/5/14Checked By: JCM Date: 3/5/14

SHEET 1 OF 4

BECHTEL PROJECT NO.: 25847				AMEC PROJECT NO.: 6468-13-1072				COUNTY: Roane, TN		GEOLOGIST: E. Shrum		
SITE DESCRIPTION: Clinch River SMR Project, Roane County, Tennessee								DRILLER: B. Akins/J. Criss			Boring Orientation	
BORING NO.: MP-404				DRILL METHOD: Mud Rotary/Core				DRILL MACHINE: D-120 (MW-1)			Inclination: Vertical	
GROUND ELEV.: 837.1 ft (NAVD88)				NORTHING: 571,709 US ft (NAD83)				EASTING: 2,447,758 US ft (NAD83)			Azimuth: NA	
TOTAL DEPTH: 199.8 ft			SAMPLE METHODS: ASTM D 1586-11; 2488-09a; 2113-08; 6032-08						HAMMER (ID): 140-lb Auto (027)			
DATE STARTED: 8/1/13			COMPLETED: 8/4/13		CASING DEPTH: 49.0 ft		CORE BARREL TYPE: HQ3/Diamond Impregnated core bits					
ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN REC. (ft) % RQD (ft) %		SAMP. NO.	L O G	ROCK DESCRIPTION AND REMARKS				
								Begin Coring @ 49.0 ft				
788.1	49.0	0.8	5:44/0.8	(0.8)	(0.6)	Run 1	788.1	LIMESTONE (MICRITE), light gray (10YR 7/1) to gray (10YR 6/1-5/1) and dark gray (10YR 4/1), medium strong to strong, laminated into thin to moderately thick fining upward beds, slightly weathered to fresh, trace to few angular to subrounded chert fragments and dolomitic clasts; fenestral, slight bioturbation with trace to few calcite filled pits and sparry calcite "bird eyes", strong HCl reaction ( <b>Lower Blackford Formation-Unit A</b> )				49.0
787.3	49.8	5.0	2:20	100%	75%	Run 2						
			1:55	(4.9)	(4.6)							
			3:11	98%	92%							
			2:04									
782.3	54.8		2:00									
		5.0	1:57	(5.0)	(4.8)	Run 3		49.0ft: Dry hole at start of coring 49.1-49.8ft: BJ, 30°, PS, T, B, II 50.0ft: J, 45°, PR, T, B, II 50.1ft: BJ, 30°, PS, PO, C, III 50.5ft: BJ, 30°, PS, T, B, II 51.7ft: BJ, 30°, UR, T, B, II 52.3ft: BJ, 30°, PS, O, C, III 56.3ft: BJ, 30°, PR, O, C, II				
			3:06	100%	96%							
			2:13									
			2:09									
			2:25									
777.3	59.8						769.8					67.3
		5.0	2:15	(5.0)	(5.0)	Run 4		DOLOMITIC LIMESTONE (MICRITE), grayish olive (10Y 5/2), dark gray (N 4/) to dark grayish blue (5PB 4/1) and very dark grayish blue (5PB 3/1), strong, moderately to thickly bedded, locally laminated to thinly bedded, fresh, few to little angular chert fragments and dolomitic clasts; slight bioturbation, stylolitic, weak HCl reaction				
			2:40	100%	100%							
			2:44									
			2:23									
772.3	64.8		2:26									
		5.0	2:30	(5.0)	(5.0)	Run 5		67.5ft: J, 40°, PS, T, B, II 68.0ft: BJ, 30°, US, G, I 69.7ft: BJ, 40°, US, K, T, B, II 70.6ft: BJ, 30°, US, PO, D, II 72.1ft: BJ, 40° US, PO, G, II 73.4,74.0ft: BJ, 40°, US, T, G, II				
			3:13	100%	100%							
			2:40									
			2:41									
			2:51									
767.3	69.8						756.4					80.7
		5.0	2:31	(5.0)	(5.0)	Run 6		74.9ft: J, 60° PR, T-PO, B, II 76.3ft: BJ, 30°, US, T, G, II 77.2ft: J, 40°, PR, PO-O, C, II 79.8-80.7ft: Becomes, greenish gray (10GY 5/1), weak, laminated, slightly weathered, with little glauconitic, fine to medium quartz sand				
			2:10	100%	100%							
			2:16									
			2:29									
762.3	74.8		1:51									
		5.0	3:13	(4.9)	(4.9)	Run 7						
			2:44	98%	98%							
			2:49									
			2:37									
			2:18									
757.3	79.8						756.4					80.7
		5.0	2:17	(5.0)	(5.0)	Run 8		CRYSTALLINE DOLOMITE, fine to medium grained, light olive gray (5Y 6/2) to light gray (5Y 7/2 and 10YR 7/1) to gray (2.5Y 6/1-5/1), locally mottled with weak red (2.5YR 5/2, 10R 5/2) and dusky red (5R 3/2), strong to very strong, moderately to thickly bedded, fresh, with few irregular chert nodules and chert beds with coarse dolomite crystals (gray to gray brown), trace healed/filled fractures with indurated clay mineral fill (dark reddish brown, 2.5YR 3/4); healed fractures through-out with dolomite, trace dolomite filled pits and vugs (separate/non-touching), stylolitic, weak(delayed) to no HCl reaction ( <b>Knox Group-Newala Formation</b> )				
			1:57	100%	100%							
			4:33									
			5:10									
			5:45									
752.3	84.8											
		5.0	7:23	(5.0)	(5.0)	Run 9		81.0ft: BJ, 30°, US, T, G, I 82.3ft: BJ, 30-60°, US, PO, D, II 82.9,84.6ft: BJ, 20°, PR, T, D, II 83.5ft: J, 70°, PR, T, A, I 88.0,89.1ft: J, 50°, PR, T-O, C, II, with dolomite				
			5:08	100%	100%							
			6:06									
			5:03									
			7:24									
747.3	89.8						756.4					80.7
		5.0	5:01	(5.0)	(4.9)	Run 10		89.8-91.0ft: J, 80-90°, PR, VT, A, I 91.0ft: J, 50°, PS, PO, C, II 92.1,92.6ft: BJ, 30°, PS, T, B, II 92.2,93.6ft: BJ, 30-40°, US, T-PO, D, III 94.3ft: BJ, 30°, PS, T, B, II 95.0,95.9ft: BJ, 30°, PS-PR, O-PO, C, III 96.8,97.1ft: 40°, PS-US, T, B-G, II 97.9ft: J, 60°, PR, T, B, II 99.4ft: BJ, 30°, UR, T, B, II				
			5:20	100%	98%							
			6:38									
			6:00									
			4:27									
742.3	94.8											
		5.0	5:14	(5.0)	(4.5)	Run 11						
			4:12	100%	90%							
			3:44									

CLINCH RIVER SMR CORE FINAL CLINCH FINAL LOGS.GPJ CLINCH BORING DATA TEMPLATE.GDT 3/5/14





BECHTEL PROJECT NO.: 25847			AMEC PROJECT NO.: 6468-13-1072			COUNTY: Roane, TN		GEOLOGIST: E. Shrum	
SITE DESCRIPTION: Clinch River SMR Project, Roane County, Tennessee						DRILLER: B. Akins/J. Criss		Boring Orientation	
BORING NO.: MP-404			DRILL METHOD: Mud Rotary/Core			DRILL MACHINE: D-120 (MW-1)		Inclination: Vertical	
GROUND ELEV.: 837.1 ft		(NAVD88)	NORTHING: 571,709		US ft (NAD83)	EASTING: 2,447,758		US ft (NAD83)	Azimuth: NA
TOTAL DEPTH: 199.8 ft		SAMPLE METHODS: ASTM D 1586-11; 2488-09a; 2113-08; 6032-08					HAMMER (ID): 140-lb Auto (027)		
DATE STARTED: 8/1/13		COMPLETED: 8/4/13		CASING DEPTH: 49.0 ft		CORE BARREL TYPE: HQ3/Diamond Impregnated core bits			
ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	REC. (ft) %	RQD (ft) %	SAMP. NO.	L O G	ROCK DESCRIPTION AND REMARKS	
								Continued from previous page	
737.3	99.8	5.0	3:00 4:40						
			5:02	(5.0)	(4.8)	Run 12		CRYSTALLINE DOLOMITE, fine to medium grained, light olive gray (5Y 6/2) to light gray (5Y 7/2 and 10YR 7/1) to gray (2.5Y 6/1-5/1), locally mottled with weak red (2.5YR 5/2, 10R 5/2) and dusky red (5R 3/2), strong to very strong, moderately to thickly bedded, fresh, with few irregular chert nodules and chert beds with coarse dolomite crystals (gray to gray brown), trace healed/filled fractures with indurated clay mineral fill (dark reddish brown, 2.5YR 3/4); healed fractures through-out with dolomite, trace dolomite filled pits and vugs (separate/non-touching), stylolitic, weak(delayed) to no HCl reaction ( <b>Knox Group-Newala Formation (continued)</b> )	
732.3	104.8	5.0	3:37 3:36 3:46 3:56	100%	96%			103.6,104.3ft: BJ, 30°, PR-US, PO, G, II-III 101.7ft: J, 70°, PS, T, B, I 103.6-103.8ft: FZ, 30°, VT-PO, K, I-II, with chert 104.0ft: BJ, 30°, VT, G, I 109.2ft: BJ, 40°, US, PO, G, II	
			3:28	(5.0)	(4.8)	Run 13			
			3:44	100%	96%				
727.3	109.8	5.0	3:52 3:31 4:44						
			4:10	(5.0)	(5.0)	Run 14		111.6ft: BJ, 30°, PR, PO, D-G, II	
			3:54	100%	100%			111.0-116.5ft: As above possible collapse breccia, bedding rotated to 40-50° from 30-40°, intensely fractured and healed with dolomite and calcite, open fractures are filled with hard (indurated) clay mineral filling, dark reddish brown (2.5YR 3/4); bedding disturbed and broken through-out	
722.3	114.8	5.0	3:50 3:25 4:08						
			3:51	(5.0)	(5.0)	Run 15		115.7ft: BJ, 50°, UR, VT, G, I 116.5ft: BJ, 40°, PS, O, G, II	
			3:48	100%	100%				
			3:16					720.1	
717.3	119.8	5.0	3:15 3:51					CRYSTALLINE DOLOMITE, fine to medium grained, gray (5YR 5/1, 10YR 6/1) with light gray (2.5Y 7/2) to gray (5Y 6/1) and dark gray (2.5Y 4/1), strong, very thinly to thickly bedded, locally laminated, fresh, stylolitic, trace irregular chert nodules and very thin to thin chert beds (gray to gray brown); healed fractures through-out, trace calcite and dolomite filled pits and vugs (separate/non-touching), weak (delayed) to no HCl reaction	
			2:51	(5.0)	(4.8)	Run 16		123.9,124.1ft: BJ, 30°, PS, PO, C, II	
			3:43	100%	96%				
			3:46						
712.3	124.8	5.0	3:30 4:20						
			6:36	(5.0)	(5.0)	Run 17		124.1-124.8ft: CHERT, olive gray (5Y 5/2), chert and dolomite cemented, fine to coarse quartz sand and fine gravel sized rounded chert clasts, trace fossils	
			6:55	100%	100%				
			6:13						
707.3	129.8	5.0	5:53 7:22						
706.3	130.8	1.0	6:02	(1.0)	(1.0)	Run 18			
		4.0	4:01	100%	100%	Run 19		131.8ft: J, 60°, PS, T, B, I 132.9ft: BJ, 45°, US, T, G, II	
			3:42	(4.0)	(4.0)				
702.3	134.8	5.0	3:19 3:13	100%	100%				
			3:01	(5.0)	(4.9)	Run 20		135.3,135.5ft: BJ, 30°, PS, T, C, II 136.6-137.2ft: FZ, 60-70°, VT, A, I, with calcite	
			3:54	100%	98%				
697.3	139.8	5.0	3:53 3:29 3:33						
		4.8	3:27	(4.8)	(4.8)	Run 21		142.0ft: J, 45°, PR, T, B, I 144.4ft: BJ, 30°, US, PO, D, II 141.3-143.2ft: As above, to light gray (10YR 7/1) mottled with weak red (10R 5/2), little rounded to subrounded, fine to medium quartz sand as scattered grains and laminations	
			3:36	100%	100%				
			3:21						
			3:09						
692.5	144.6	5.2	3:26/0.8			Run 22		692.5	
			3:58	(5.2)	(5.2)			144.6	
			3:20	100%	100%				

CLINCH RIVER SMR CORE FINAL CLINCH FINAL LOGS.GPJ CLINCH BORING DATA TEMPLATE.GDT 3/5/14





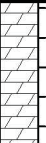
BECHTEL PROJECT NO.: 25847		AMEC PROJECT NO.: 6468-13-1072		COUNTY: Roane, TN	GEOLOGIST: E. Shrum
SITE DESCRIPTION: Clinch River SMR Project, Roane County, Tennessee				DRILLER: B. Akins/J. Criss	Boring Orientation
BORING NO.: MP-404		DRILL METHOD: Mud Rotary/Core		DRILL MACHINE: D-120 (MW-1)	
GROUND ELEV.: 837.1 ft (NAVD88)		NORTHING: 571,709 US ft (NAD83)		EASTING: 2,447,758 US ft (NAD83)	Inclination: Vertical
					Azimuth: NA
TOTAL DEPTH: 199.8 ft		SAMPLE METHODS: ASTM D 1586-11; 2488-09a; 2113-08; 6032-08			HAMMER (ID): 140-lb Auto (027)
DATE STARTED: 8/1/13		COMPLETED: 8/4/13	CASING DEPTH: 49.0 ft	CORE BARREL TYPE: HQ3/Diamond Impregnated core bits	

ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	REC. (ft) %	RQD (ft) %	SAMP. NO.	LOG	ROCK DESCRIPTION AND REMARKS
Continued from previous page								
687.3	149.8	5.0	3:26 3:21 4:02/1.2			Run 23		CRYSTALLINE DOLOMITE, fine to coarse grained, gray (10YR 6/1) to light gray (10YR 7/1) mottled with pale green (5G 7/2) to light grayish green (5GY 6/2) and weak red (10R 5/2), strong to very strong, thinly to thickly bedded, locally laminated to very thinly bedded, fresh, stylolitic, trace irregular chert nodules and very thin to thin chert beds (gray to gray brown); healed fractures through-out, trace calcite and dolomite filled pits and vugs (separate/non-touching), weak (delayed) to no HCl reaction; 145.0-145.1ft: very thin LIMESTONE (MICRITE), gray (2.5YR 6/1) (continued) 145.1, 146.1ft: BJ, 30-40°, US, T, D, II 152.2ft: BJ, 30°, US, O, G, II
682.3	154.8	5.0	4:16 3:46 3:45 3:06 3:20	(5.0) 100%	(5.0) 100%	Run 24		156.7ft: BJ, 30°, PR, PO, C, II 158.6ft: J, 60°, PS, T, A, I
677.3	159.8	5.0	3:04 3:34 3:17 3:04 3:10	(5.0) 100%	(5.0) 100%	Run 25		160.8ft: J, 40°, PR, T, A, I 162.3ft: BJ, 40°, PR, T-PO, D, II 162.9, 164.2ft: BJ, 30°, PR, PO, D-G, III
672.3	164.8	5.0	3:00 3:28 3:33 2:59 3:42	(5.0) 100%	(4.9) 98%	Run 26		166.6, 168.1ft: BJ, 40°, PS, T-PO, G, II
667.3	169.8	5.0	3:17 3:34 3:15 3:00 3:37	(5.0) 100%	(5.0) 100%	Run 27		170.1ft: BJ, 35°, PS, T, C, II 171.2ft: BJ, 35°, US, O, D, II 170.0-170.1ft: Dolomite cemented fine to medium quartz sand, very thin
662.3	174.8	5.0	2:20 2:17 2:09 2:17 2:28	(5.0) 100%	(5.0) 100%	Run 28		CRYSTALLINE DOLOMITE, fine to coarse grained, weak red (5R 5/2) to reddish gray (5R 5/1), strong to very strong, laminated to thinly bedded, locally moderately bedded, fresh, mottled appearance along bedding planes and healed fractures, trace irregular chert nodules and very thin irregular lenses; healed fractures through-out, trace calcite and dolomite filled pits and vugs (separate/non-touching), weak (delayed) to no HCl reaction 175.0ft: J, 65°, PS, T, B, II 178.0ft: BJ, 30°, US, T-PO, G, I 179.5ft: BJ, 30°, PR, PO, D, II 181.3ft: BJ, 40°, PR, O, G, III
657.3	179.8	5.0	2:39 3:05 4:16 3:31 3:09	(5.0) 100%	(5.0) 100%	Run 29		186.1ft: BJ, 40°, PS, PO, G, II 188.9ft: J, 40°, US, PO, G, II
652.3	184.8	5.0	2:57 5:31 3:37 2:57 2:54	(4.9) 98%	(4.9) 98%	Run 30		191.6ft: J, 60°, PR, T, B, I-II 193.6-193.7ft: FZ, 30°, UR, O, III, with calcite 196.1ft: BJ, 30°, PS, T, D, II 196.3ft: BJ, 30°, PS, O, G, II 196.8, 197.8ft: J, 30°, PS, T, C, II, with chert
647.3	189.8	5.0	3:29 3:04 2:59 2:54 3:04	(5.0) 100%	(5.0) 100%	Run 31		
642.3	194.8	5.0	3:12 3:01 3:08 3:06 3:03	(5.0) 100%	(4.8) 96%			

CLINCH RIVER SMR CORE FINAL CLINCH FINAL LOGS.GPJ CLINCH BORING DATA TEMPLATE.GDT 3/5/14



BECHTEL PROJECT NO.: 25847	AMEC PROJECT NO.: 6468-13-1072	COUNTY: Roane, TN	GEOLOGIST: E. Shrum
SITE DESCRIPTION: Clinch River SMR Project, Roane County, Tennessee		DRILLER: B. Akins/J. Criss	Boring Orientation
BORING NO.: MP-404	DRILL METHOD: Mud Rotary/Core	DRILL MACHINE: D-120 (MW-1)	Inclination: Vertical
GROUND ELEV.: 837.1 ft (NAVD88)	NORTHING: 571,709 US ft (NAD83)	EASTING: 2,447,758 US ft (NAD83)	Azimuth: NA
TOTAL DEPTH: 199.8 ft	SAMPLE METHODS: ASTM D 1586-11; 2488-09a; 2113-08; 6032-08		HAMMER (ID): 140-lb Auto (027)
DATE STARTED: 8/1/13	COMPLETED: 8/4/13	CASING DEPTH: 49.0 ft	CORE BARREL TYPE: HQ3/Diamond Impregnated core bits

ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN		SAMP. NO.	LOG	ROCK DESCRIPTION AND REMARKS
				REC. (ft) %	RQD (ft) %			
								Continued from previous page
637.3	199.8	5.0	3:23 3:18 3:48 3:51 3:26	(5.0) 100%	(4.8) 96%	Run 32		CRYSTALLINE DOLOMITE, fine to coarse grained, weak red (5R 5/2) to reddish gray (5R 5/1), strong to very strong, laminated to thinly bedded, locally moderately bedded, fresh, mottled appearance along bedding planes and healed fractures, trace irregular chert nodules and very thin irregular lenses; healed fractures through-out, trace calcite and dolomite filled pits and vugs (separate/non-touching), weak (delayed) to no HCl reaction (continued)
								Boring and coring terminated at 199.8 feet.