



GEOTECHNICAL BORING LOG

Prepared By JST Date 12/16/09Checked By MM Date 12/16/09

SHEET 1 OF 3

BECHTEL PROJECT NO.: 25161				MACTEC PROJECT NO.: 6468-09-2473				COUNTY: Louisa, VA				GEOLOGIST: R. Clark			
SITE DESCRIPTION: North Anna 3 Project Supplement 2								DRILLER: F. Cox/R. Hall				FLUID LEVEL (ft)			
BORING NO.: M-21				DRILL METHOD: Mud Rotary/Rock Core				DRILL MACHINE: CME-55 Track (RAL)				0 HR.		10.5	
GROUND ELEV.: 303.9 ft (NAVD88)				NORTHING: 3,909,811 US ft (NAD83)				EASTING: 11,686,270 US ft (NAD83)				24 HR.		29.5	
TOTAL DEPTH: 151.8 ft				SAMPLE METHODS: ASTM D 1586-08a; 2488-09a; 2113-08; 6032-08				ROD TYPE: AWJ				HAMMER (ID): 140-lb. Auto (MEC-21)			
DATE STARTED: 9/22/09				COMPLETED: 9/24/09		HOLE DIA.: 4"		CASING DEPTH: 63.8 ft		CORE SIZE: HQ3		BITS USED: 3-7/8" Tri-Cone			
ELEV.	DEPTH	BLOW COUNT			BLOWS PER FOOT					SAMP.	LOG	SOIL AND ROCK DESCRIPTION			
(ft)	(ft)	0.5ft	0.5ft	0.5ft	0	20	40	60	80	100	NO.				
303.9					Ground Surface									303.9	0.0
292.8	11.1													292.8	11.1
290.3	13.6	5	9	6						SS-1					
287.7	16.2	10	15	18						SS-2					
285.5	18.4	7	11	16						SS-3					
		18	24	23						SS-4					
280.5	23.4									SS-5					
		16	25	37											
275.6	28.3	37	63/0.3							SS-6				275.6	27.5
270.4	33.5	9	10	8						SS-7				270.4	31.0
265.4	38.5	7	9	15						SS-8					
260.4	43.5	8	32	27						SS-9					
255.4	48.5	50/0.2								SS-10				255.4	46.0
250.4	53.5	50/0.3								SS-11					
245.4	58.5	30	50/0.3							SS-12					
240.4	63.5	50/0.3								SS-13				240.1	63.8

NORTH ANNA 3 BORE NORTH ANNA 3 PROJECT.GPJ NORTH ANNA 3.GDT 12/3/09



SHEET 2 OF 3

BECHTEL PROJECT NO.: 25161			MACTEC PROJECT NO.: 6468-09-2473			COUNTY: Louisa, VA			GEOLOGIST: R. Clark		
SITE DESCRIPTION: North Anna 3 Project Supplement 2						DRILLER: F. Cox/R. Hall			FLUID LEVEL (ft)		
BORING NO.: M-21			DRILL METHOD: Mud Rotary/Rock Core			DRILL MACHINE: CME-55 Track (RAL)			0 HR. 10.5		
GROUND ELEV.: 303.9 ft (NAVD88)			NORTHING: 3,909,811 US ft (NAD83)			EASTING: 11,686,270 US ft (NAD83)			24 HR. 29.5		
TOTAL DEPTH: 151.8 ft			SAMPLE METHODS: ASTM D 1586-08a; 2488-09a; 2113-08; 6032-08			ROD TYPE: AWJ			HAMMER (ID):140-lb. Auto (MEC-21)		
DATE STARTED: 9/22/09			COMPLETED: 9/24/09			HOLE DIA.: 4"			CASING DEPTH: 63.8 ft		
						CORE SIZE: HQ3			BITS USED: 3-7/8" Tri-Cone		

ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT						SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION
		0.5ft	0.5ft	0.5ft	0	20	40	60	80	100			
229.1					Continued from previous page								
													227.1 HARD ROCK: Black to light gray, with brown staining, moderately weathered, close fracturing, medium hard, BIOTITE GNEISS 76.8
													224.1 WEATHERED ROCK: Light gray, severely weathered, close fracturing, soft, BIOTITE QUARTZ GNEISS 79.8
													223.1 WEATHERED ROCK: Light gray, severely weathered, close fracturing, soft, BIOTITE QUARTZ GNEISS 80.8
													221.4 HARD ROCK: Light gray, moderately weathered, close fracturing, moderately hard to hard, BIOTITE QUARTZ GNEISS 82.5
													212.1 HARD ROCK: Dark and light gray to black, moderately severe to slightly weathered, close fracturing, soft to hard, BIOTITE GNEISS with hornblende 91.8
													HARD ROCK: Gray to dark gray, slightly weathered to fresh, moderately close to wide fracturing, hard to very hard, BIOTITE GNEISS to QUARTZ BIOTITE GNEISS

NORTH ANNA 3 BORE NORTH ANNA 3 PROJECT.GPJ NORTH ANNA 3.GDT 12/3/09



SHEET 3 OF 3

BECHTEL PROJECT NO.: 25161			MACTEC PROJECT NO.: 6468-09-2473			COUNTY: Louisa, VA			GEOLOGIST: R. Clark						
SITE DESCRIPTION: North Anna 3 Project Supplement 2						DRILLER: F. Cox/R. Hall			FLUID LEVEL (ft)						
BORING NO.: M-21			DRILL METHOD: Mud Rotary/Rock Core			DRILL MACHINE: CME-55 Track (RAL)			0 HR. 10.5						
GROUND ELEV.: 303.9 ft (NAVD88)			NORTHING: 3,909,811 US ft (NAD83)			EASTING: 11,686,270 US ft (NAD83)			24 HR. 29.5						
TOTAL DEPTH: 151.8 ft			SAMPLE METHODS: ASTM D 1586-08a; 2488-09a; 2113-08; 6032-08			ROD TYPE: AWJ			HAMMER (ID):140-lb. Auto (MEC-21)						
DATE STARTED: 9/22/09			COMPLETED: 9/24/09			HOLE DIA.: 4"			CASING DEPTH: 63.8 ft						
CORE SIZE: HQ3			BITS USED: 3-7/8" Tri-Cone												
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT						SAMP. NO.	LOG MOI	SOIL AND ROCK DESCRIPTION		
		0.5ft	0.5ft	0.5ft	0	20	40	60	80	100					
154.3					Continued from previous page										
													152.1	Boring and coring terminated at 151.8 feet.	
														151.8	Boring closed by tremie method with cement-bentonite grout.

NORTH ANNA 3 BORE NORTH ANNA 3 PROJECT.GPJ NORTH ANNA 3.GDT 12/3/09



SHEET 1 OF 2

BECHTEL PROJECT NO.: 25161	MACTEC PROJECT NO.: 6468-09-2473	COUNTY: Louisa, VA	GEOLOGIST: R. Clark
SITE DESCRIPTION: North Anna 3 Project Supplement 2		DRILLER: F. Cox/R. Hall	FLUID LEVEL (ft)
BORING NO.: M-21	DRILL METHOD: Mud Rotary/Rock Core	DRILL MACHINE: CME-55 Track (RAL)	0 HR. 10.5
GROUND ELEV.: 303.9 ft (NAVD88)	NORTHING: 3,909,811 US ft (NAD83)	EASTING: 11,686,270 US ft (NAD83)	24 HR. 29.5
TOTAL DEPTH: 151.8 ft	SAMPLE METHODS: ASTM D 1586-08a; 2488-09a; 2113-08; 6032-08		HAMMER (ID): 140-lb. Auto (MEC-21)
DATE STARTED: 9/22/09	COMPLETED: 9/24/09	CASING DEPTH: 63.8 ft	CORE BARREL TYPE: Wireline HQ3 Triple Tube, series 6 & 10 bits

ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN		SAMP. NO.	STRATA		L O G	DESCRIPTION AND REMARKS
				REC. (ft) %	RQD (ft) %		REC. (ft) %	RQD (ft) %		
										Begin Coring @ 63.8 ft
240.1	63.8	3.0	5:34 3:21 2:49	(2.0) 67%	(1.1) 37%	RUN 1	(4.5) 82%	(3.2) 58%	240.1	HARD ROCK: Gray to dark gray, with orange staining, moderately severely to moderately weathered, close fracturing, soft to medium hard, BIOTITE QUARTZ GNEISS
237.1	66.8	4.0	1:38 3:37 3:55 2:42	(2.5) 63%	(2.1) 53%	RUN 2			234.6	(4 joints at 45°, tight; foliation at 45°) (2 joints at 65°, tight; foliation at 65°)
233.1	70.8	1.0	3:24	(0.0) 0%	(0.0) 0%	RUN 3	(2.4) 32%	(0.0) 0%		WEATHERED ROCK: Brown, reddish brown, and dark gray, severely weathered, close fracturing, very soft to soft, BIOTITE QUARTZ GNEISS and BIOTITE GNEISS
232.1	71.8	2.0	2:28 2:41	(0.5) 25%	(0.0) 0%	RUN 4				
230.1	73.8	5.0	2:27 2:33 2:11	(1.9) 38%	(0.0) 0%	RUN 5			227.1	(3 joints at 0-10°, tight with trace iron staining; 5 joints at 45°, tight with trace iron staining; foliation at 45°)
227.1	76.8	4.0	2:33 2:28 3:05 3:14	(2.5) 63%	(0.7) 18%	RUN 6	(1.7) 57%	(0.7) 23%		HARD ROCK: Black to light gray, with brown staining, moderately weathered, close fracturing, medium hard, BIOTITE GNEISS
225.1	78.8								224.1	(3 joints at 30°, tight; 1 joint at 80°, tight with quartz vein; foliation at 30°)
223.1	80.8	1.0	3:59	(1.0) 100%	(0.0) 0%	RUN 7	(0.8) 80%	(0.0) 0%	223.1	WEATHERED ROCK: Light gray, severely weathered, close fracturing, soft, BIOTITE QUARTZ GNEISS
222.1	81.8	2.6	5:15 2:27 2:45/0.6	(2.5) 96%	(1.3) 50%	RUN 8	(1.7) 100%	(0.7) 41%	221.4	HARD ROCK: Light gray, moderately weathered, close fracturing, moderately hard to hard, BIOTITE QUARTZ GNEISS
219.5	84.4	2.4	0:36/0.4 5:14 6:58	(2.3) 96%	(1.5) 63%	RUN 9	(9.1) 98%	(4.9) 53%		HARD ROCK: Dark and light gray to black, moderately severe to slightly weathered, close fracturing, soft to hard, BIOTITE GNEISS with hornblende
217.1	86.8	5.0	3:25 3:33 4:34 2:54 5:18	(5.0) 100%	(2.8) 56%	RUN 10			212.1	(2 joints at 60°, tight; foliation at 60°) (5 joints at 0-10°, tight) (5 joints at 50°, tight; foliation at 50°)
212.1	91.8	5.0	5:53 3:23 3:42 3:37 3:11	(5.0) 100%	(3.1) 62%	RUN 11	(59.9) 100%	(57.3) 96%		HARD ROCK: Gray to dark gray, slightly weathered to fresh, moderately close to wide fracturing, hard to very hard, BIOTITE GNEISS to QUARTZ BIOTITE GNEISS
207.1	96.8	5.0	5:46 5:48 5:00 3:02 4:50	(5.0) 100%	(4.5) 90%	RUN 12				(7 joints at 30-45°, tight with iron staining)
202.1	101.8	5.0	2:25 2:33 2:46 2:49 3:09	(5.0) 100%	(5.0) 100%	RUN 13				(4 joints at 50-60°, tight with trace chlorite; 2 quartz veins at 60° with trace calcite, chlorite, magnetite, and pyrite)
197.1	106.8	5.0	2:43 2:08 2:11 3:42 1:57	(5.0) 100%	(5.0) 100%	RUN 14				(3 joints at 45°, tight with trace hornblende and iron staining; foliation at 45°)
192.1	111.8	5.0	2:38 2:17 2:02 2:08 2:12	(5.0) 100%	(5.0) 100%	RUN 15				(2 joints at 40°, tight; 1 joint at 60°, tight)
187.1	116.8	5.0	3:49 2:42 2:12 2:30 2:42	(5.0) 100%	(4.8) 96%	RUN 16				(1 joint at 30°, tight)
182.1	121.8	5.0	2:27 2:33 2:35 2:42 2:48	(5.0) 100%	(5.0) 100%	RUN 17				(3 joints at 30°, tight; 1 quartz vein at 70° with trace pyrite)
177.1	126.8	5.0	2:40 2:38 2:48 2:55 2:59	(4.9) 98%	(4.9) 98%	RUN 18				(2 joints at 25°, tight; 1 joint at 45°, tight; trace pyrite)
172.1	131.8	5.0	2:10 2:09 2:02 1:53 1:48	(5.0) 100%	(5.0) 100%	RUN 19				(3 joints at 50°, tight; foliation at 50°)
167.1	136.8	5.0	2:51 2:25	(5.0) 100%	(5.0) 100%	RUN 20				(1 joint at 45°, tight)
										(No joints)

NORTH ANNA 3 CORE NORTH ANNA 3 PROJECT.GPJ NORTH ANNA 3.GDT 12/3/09

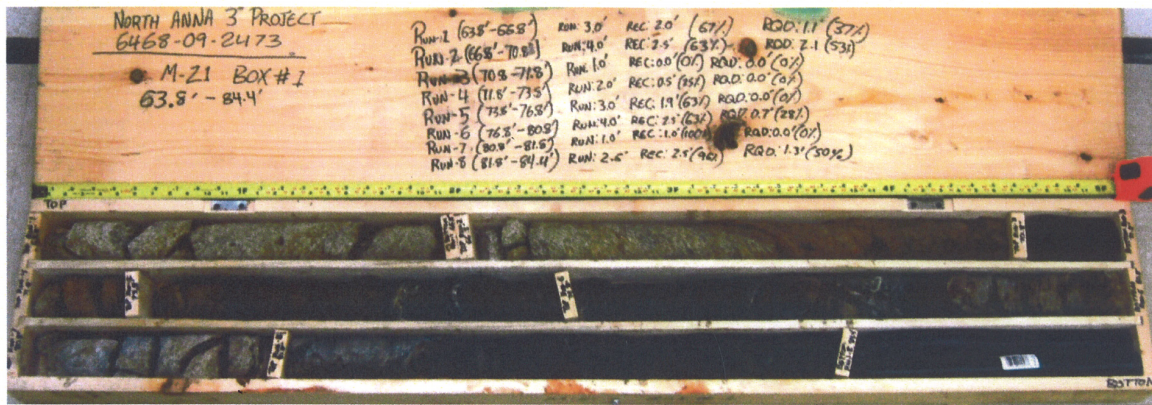


SHEET 2 OF 2

BECHTEL PROJECT NO.: 25161			MACTEC PROJECT NO.: 6468-09-2473			COUNTY: Louisa, VA			GEOLOGIST: R. Clark		
SITE DESCRIPTION: North Anna 3 Project Supplement 2						DRILLER: F. Cox/R. Hall			FLUID LEVEL (ft)		
BORING NO.: M-21			DRILL METHOD: Mud Rotary/Rock Core			DRILL MACHINE: CME-55 Track (RAL)			0 HR. 10.5		
GROUND ELEV.: 303.9 ft (NAVD88)			NORTHING: 3,909,811 US ft (NAD83)			EASTING: 11,686,270 US ft (NAD83)			24 HR. 29.5		
TOTAL DEPTH: 151.8 ft			SAMPLE METHODS: ASTM D 1586-08a; 2488-09a; 2113-08; 6032-08						HAMMER (ID): 140-lb. Auto (MEC-21)		
DATE STARTED: 9/22/09			COMPLETED: 9/24/09			CASING DEPTH: 63.8 ft			CORE BARREL TYPE: Wireline HQ3 Triple Tube, series 6 & 10 bits		

ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN		SAMP. NO.	STRATA		L O G	DESCRIPTION AND REMARKS
				REC. (ft) %	RQD (ft) %		REC. (ft) %	RQD (ft) %		
										Continued from previous page
162.1	141.8		2:31 1:54 1:48	100%	100%					 HARD ROCK: Gray to dark gray, slightly weathered to fresh, moderately close to wide fracturing, hard to very hard, BIOTITE GNEISS to QUARTZ BIOTITE GNEISS (<i>continued</i>) (1 joint at 55°, tight; foliation at 55°; trace pyrite) (No joints; trace pyrite and hornblende)
		5.0	2:03 2:26 2:06 2:46 2:05	(5.0) 100%	(5.0) 100%	RUN 21				
157.1	146.8									
		5.0	2:08 2:33 2:25 2:11 2:04	(5.0) 100%	(5.0) 100%	RUN 22				
152.1	151.8									
										152.1
										151.8
Boring and coring terminated at 151.8 feet.										
Boring closed by tremie method with cement-bentonite grout.										

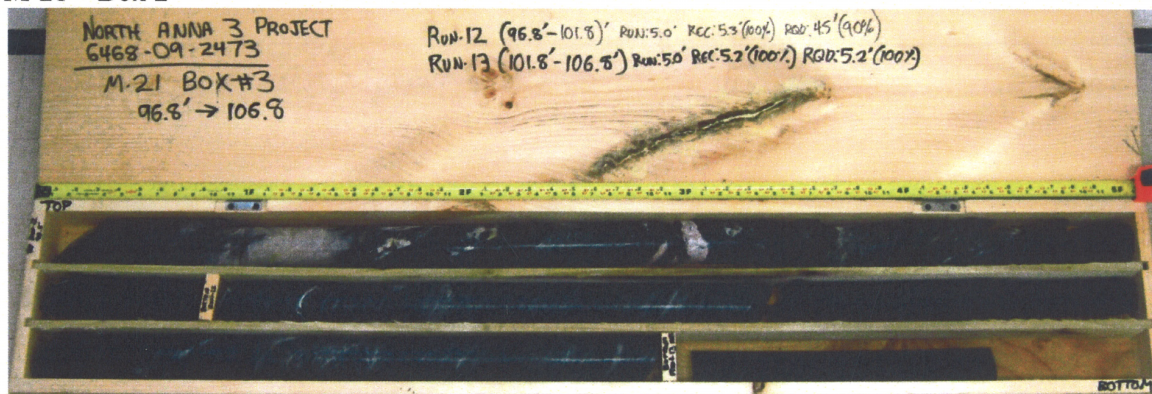
NORTH ANNA 3 CORE NORTH ANNA 3 PROJECT.GPJ NORTH ANNA 3.GDT 12/3/09



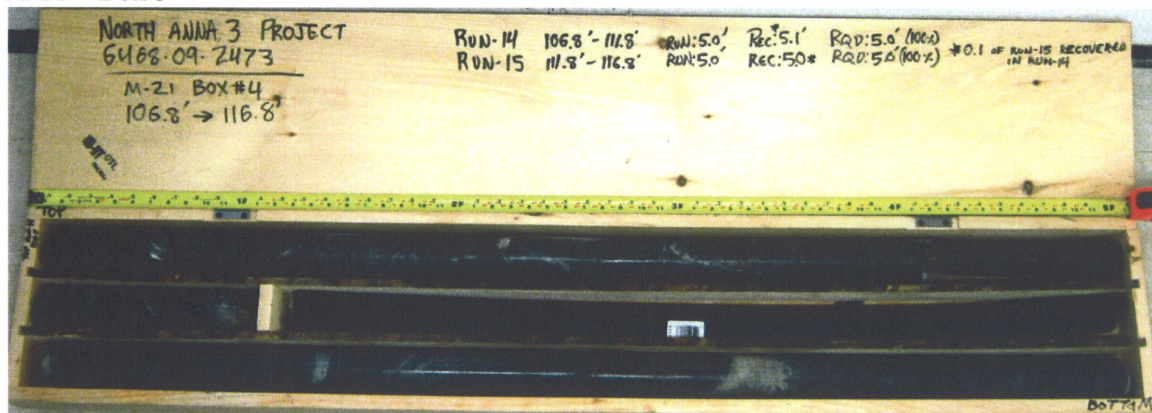
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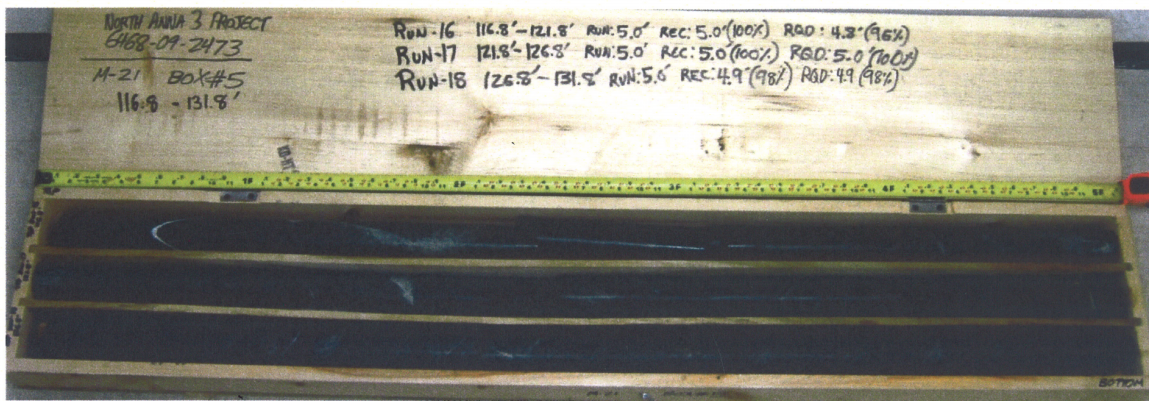
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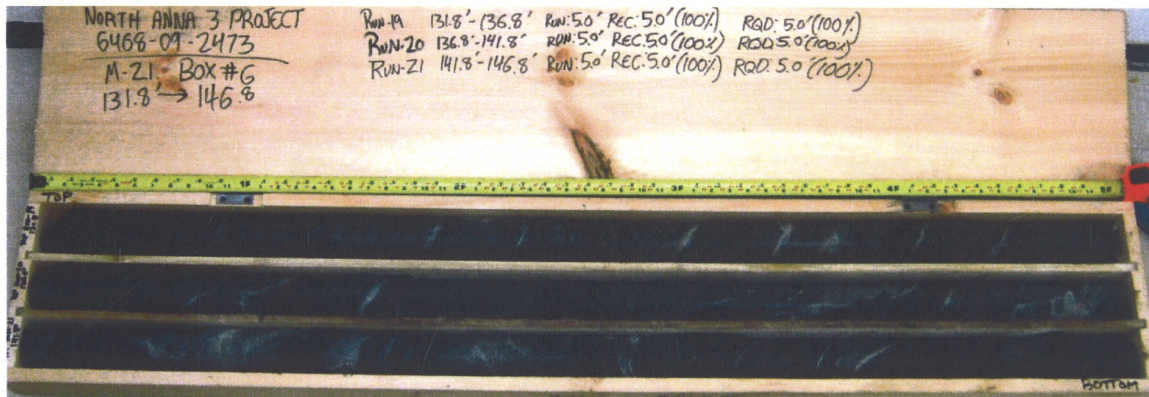
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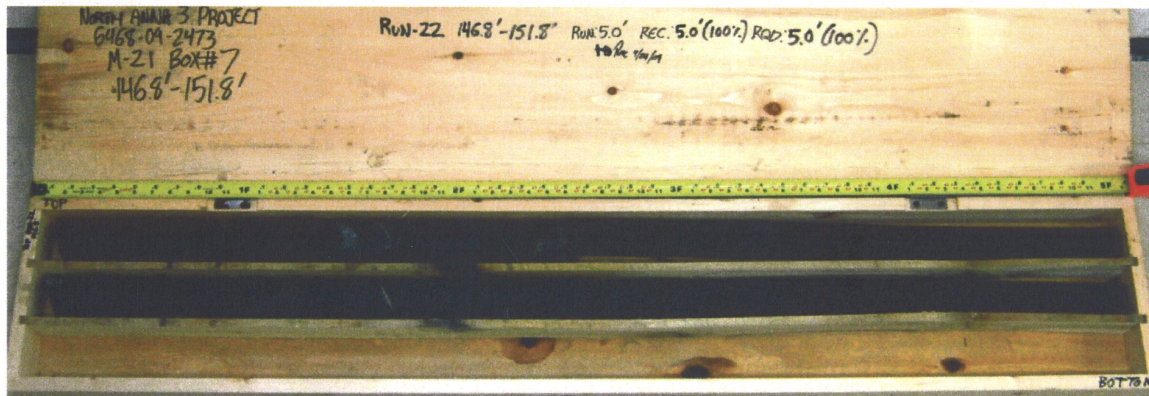
M-21 - Box 4



M-21 - Box 5



M-21 - Box 6



M-21 - Box 7



GEOTECHNICAL BORING LOG

Prepared By JJJ Date 12/16/09Checked By MM Date 12/16/09

SHEET 1 OF 3

BECHTEL PROJECT NO.: 25161				MACTEC PROJECT NO.: 6468-09-2473				COUNTY: Louisa, VA				GEOLOGIST: C. Baldwin			
SITE DESCRIPTION: North Anna 3 Project Supplement 2								DRILLER: P. Pitts/J. Tucker				FLUID LEVEL (ft)			
BORING NO.: M-27				DRILL METHOD: Mud Rotary/Rock Core				DRILL MACHINE: CME-55 Trailer (RAL)				0 HR.		NA	
GROUND ELEV.: 330.2 ft (NAVD88)				NORTHING: 3,909,426 US ft (NAD83)				EASTING: 11,685,938 US ft (NAD83)				24 HR.		34.0	
TOTAL DEPTH: 151.4 ft		SAMPLE METHODS: ASTM D 1586-08a; 2488-09a; 2113-08; 6032-08						ROD TYPE: AWJ		HAMMER (ID): 140-lb. Auto (MEC-425)					
DATE STARTED: 9/15/09		COMPLETED: 9/21/09		HOLE DIA.: 3"		CASING DEPTH: 114.6 ft		CORE SIZE: NQ3		BITS USED: 2-7/8" Tri-Cone					
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION		
		0.5ft	0.5ft	0.5ft	0	20	40	60	80	100					
330.2					Ground Surface								330.2	0.0	
321.2	9.0	5	4	7							SS-1		321.2	9.0	
318.5	11.7	5	5	6							SS-2				
316.4	13.8	5	4	7							SS-3				
311.4	18.8	7	8	8							SS-4				
306.4	23.8	8	11	11							SS-5				
301.4	28.8	10	15	19							SS-6				
296.5	33.7	12	15	15							SS-7				
291.5	38.7	19	21	25							SS-8				
286.5	43.7	22	41	35							SS-9				
281.5	48.7	16	26	31							SS-10				
276.5	53.7	17	21	50							SS-11				
271.5	58.7	42	58/0.4								SS-12		273.2	57.0	
266.5	63.7	37	63/0.4								SS-13				
261.5	68.7	50/0.2									SS-14				
256.5	73.7	50/0.2									SS-15				

NORTH ANNA 3 BORE NORTH ANNA 3 PROJECT.GPJ NORTH ANNA 3.GDT 12/4/09



SHEET 2 OF 3

BECHTEL PROJECT NO.: 25161				MACTEC PROJECT NO.: 6468-09-2473				COUNTY: Louisa, VA				GEOLOGIST: C. Baldwin			
SITE DESCRIPTION: North Anna 3 Project Supplement 2								DRILLER: P. Pitts/J. Tucker				FLUID LEVEL (ft)			
BORING NO.: M-27				DRILL METHOD: Mud Rotary/Rock Core				DRILL MACHINE: CME-55 Trailer (RAL)				0 HR.		NA	
GROUND ELEV.: 330.2 ft (NAVD88)				NORTHING: 3,909,426 US ft (NAD83)				EASTING: 11,685,938 US ft (NAD83)				24 HR.		34.0	
TOTAL DEPTH: 151.4 ft		SAMPLE METHODS: ASTM D 1586-08a; 2488-09a; 2113-08; 6032-08						ROD TYPE: AWJ		HAMMER (ID): 140-lb. Auto (MEC-425)					
DATE STARTED: 9/15/09		COMPLETED: 9/21/09		HOLE DIA.: 3"		CASING DEPTH: 114.6 ft		CORE SIZE: NQ3		BITS USED: 2-7/8" Tri-Cone					
ELEV.	DEPTH	BLOW COUNT			BLOWS PER FOOT					SAMP.	LOG	SOIL AND ROCK DESCRIPTION			
(ft)	(ft)	0.5ft	0.5ft	0.5ft	0	20	40	60	80	100				NO.	MOI
255.4					Continued from previous page										
251.5	78.7												WEATHERED ROCK: Severely weathered BIOTITE QUARTZ GNEISS (Sampled as Silty SAND (SM), light yellowish brown (10YR 6/4), very dense, moist, fine to coarse grained sand, little mica) (continued)		
		50/0.1									50/0.1	SS-16			
243.8	86.4												86.4 ft: Pale Yellow (2.5YR 7/3)		
		50/0.2									50/0.2	SS-17			
239.4	90.8														
		50/0.3									50/0.3	SS-18			
234.4	95.8												95.8 ft: Very pale brown (10YR 7/4)		
		50/0.2									50/0.2	SS-19			
229.4	100.8														
		41	59/0.5								100/1.0	SS-20			
224.4	105.8														
		50/0.1									50/0.1	SS-21			
219.4	110.8														
		50/0.1									50/0.1	SS-22			
214.4	115.8												115.0 ft: Hard Drilling/Bit Chatter; SPT Refusal with no penetration at 115.8 ft		
		100/0.0									100/0.0	SS-23			
													215.2	115.0	
													208.8	121.4	
													193.8	136.4	
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NORTH ANNA 3 BORE NORTH ANNA 3 PROJECT.GPJ NORTH ANNA 3.GDT 12/4/09



SHEET 3 OF 3

BECHTEL PROJECT NO.: 25161			MACTEC PROJECT NO.: 6468-09-2473			COUNTY: Louisa, VA			GEOLOGIST: C. Baldwin		
SITE DESCRIPTION: North Anna 3 Project Supplement 2						DRILLER: P. Pitts/J. Tucker			FLUID LEVEL (ft)		
BORING NO.: M-27			DRILL METHOD: Mud Rotary/Rock Core			DRILL MACHINE: CME-55 Trailer (RAL)			0 HR. NA		
GROUND ELEV.: 330.2 ft (NAVD88)			NORTHING: 3,909,426 US ft (NAD83)			EASTING: 11,685,938 US ft (NAD83)			24 HR. 34.0		
TOTAL DEPTH: 151.4 ft			SAMPLE METHODS: ASTM D 1586-08a; 2488-09a; 2113-08; 6032-08			ROD TYPE: AWJ			HAMMER (ID):140-lb. Auto (MEC-425)		
DATE STARTED: 9/15/09			COMPLETED: 9/21/09			HOLE DIA.: 3"			CASING DEPTH: 114.6 ft		
CORE SIZE: NQ3			BITS USED: 2-7/8" Tri-Cone								

ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT						SAMP. NO.	LOG MOI	SOIL AND ROCK DESCRIPTION
		0.5ft	0.5ft	0.5ft	0	20	40	60	80	100			
180.6					Continued from previous page								
													178.8
													151.4
													Boring and coring terminated at 151.4 feet.
													Boring closed by tremie method with cement-bentonite grout.
													24 hour water level measured on 9/21/2009 prior to drilling. Borehole was at a depth of 146.4 feet.

NORTH ANNA 3 BORE NORTH ANNA 3 PROJECT.GPJ NORTH ANNA 3.GDT 12/4/09

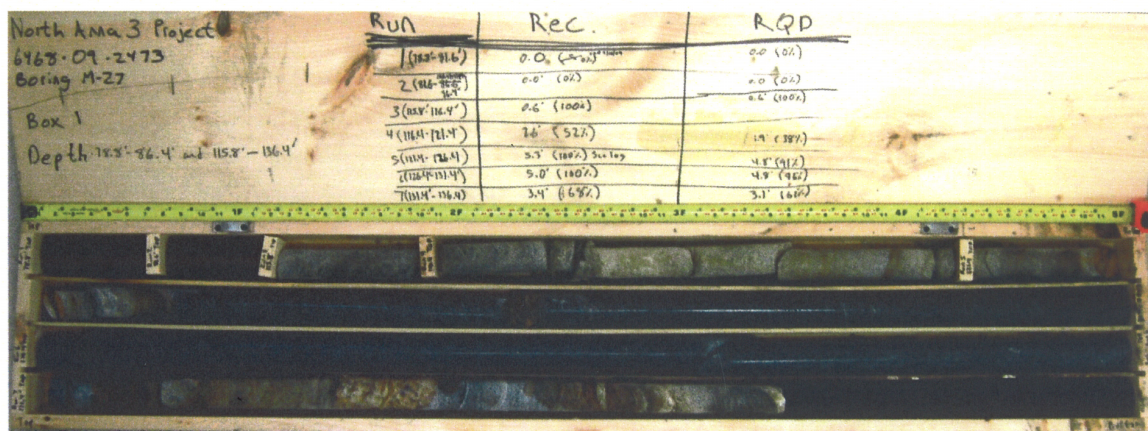


SHEET 1 OF 1

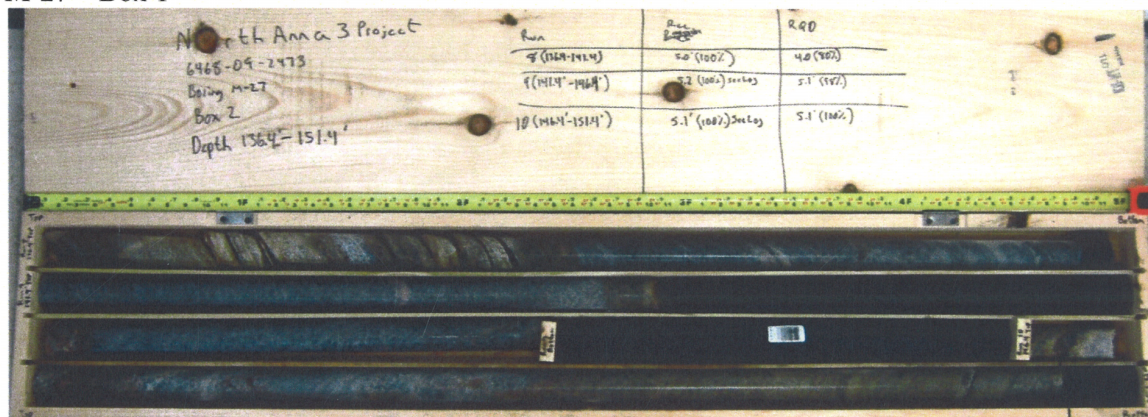
BECHTEL PROJECT NO.: 25161	MACTEC PROJECT NO.: 6468-09-2473	COUNTY: Louisa, VA	GEOLOGIST: C. Baldwin
SITE DESCRIPTION: North Anna 3 Project Supplement 2		DRILLER: P. Pitts/J. Tucker	FLUID LEVEL (ft)
BORING NO.: M-27	DRILL METHOD: Mud Rotary/Rock Core	DRILL MACHINE: CME-55 Trailer (RAL)	0 HR. NA
GROUND ELEV.: 330.2 ft (NAVD88)	NORTHING: 3,909,426 US ft (NAD83)	EASTING: 11,685,938 US ft (NAD83)	24 HR. 34.0
TOTAL DEPTH: 151.4 ft	SAMPLE METHODS: ASTM D 1586-08a; 2488-09a; 2113-08; 6032-08		HAMMER (ID): 140-lb. Auto (MEC-425)
DATE STARTED: 9/15/09	COMPLETED: 9/21/09	CASING DEPTH: 114.6 ft	CORE BARREL TYPE: Wireline NQ3 Triple Tube, series 6 bit

ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN		SAMP. NO.	STRATA		L O G	DESCRIPTION AND REMARKS
				REC. (ft) %	RQD (ft) %		REC. (ft) %	RQD (ft) %		
										Begin Coring @ 78.8 ft
251.4	78.8	2.8	3:57 3:08	(0.0) 0%	(0.0) 0%	RUN 1	(0.0) 0%	(0.0) 0%		WEATHERED ROCK: Severely weathered BIOTITE QUARTZ GNEISS (Sampled as Silty SAND (SM), light yellowish brown (10YR 6/4), very dense, moist, fine to coarse grained sand, little mica) (continued) (No Recovery) (No Recovery)
248.6	81.6		2:03/0.8							
		4.8	4:40 4:10 2:42 2:30	(0.0) 0%	(0.0) 0%	RUN 2				
243.8	86.4		2:46/0.8							
			N=50/0.2			SS-17				
			N=50/0.3			SS-18				86.4 ft: Pale Yellow (2.5YR 7/3)
			N=50/0.2			SS-19				95.8 ft: Very pale brown (10YR 7/4)
			N=100/1.0			SS-20				
			N=50/0.1			SS-21				
			N=50/0.1			SS-22				
										115.0 ft: Hard Drilling/Bit Chatter; SPT Refusal with no penetration at 115.8 ft
214.4	115.8	0.6	N=100/0.0	(0.6)	(0.6)	RUN 3	(3.5) 63%	(2.5) 45%		215.2
213.8	116.4	5.0	1:40/0.6	100%	100%	RUN 4				115.0
			2:38 1:26 3:47 1:20 2:26	(2.9) 58%	(1.9) 38%					
208.8	121.4	5.0	3:20 4:54 1:25 2:13 3:30	(5.0) 100%	(4.8) 96%	RUN 5	(13.4) 89%	(12.7) 85%		208.8
203.8	126.4	5.0	3:05 3:24 3:14 2:36 2:35	(5.0) 100%	(4.8) 96%	RUN 6				
198.8	131.4	5.0	2:41 3:50 2:00 2:20 2:18	(3.4) 68%	(3.1) 62%	RUN 7				
193.8	136.4	5.0	2:44 2:34 3:15 3:19 3:55	(5.0) 100%	(4.0) 80%	RUN 8	(15.0) 100%	(14.0) 93%		193.8
188.8	141.4	5.0	4:27 4:45 2:08 4:00 3:00	(5.0) 100%	(5.0) 100%	RUN 9				
183.8	146.4	5.0	3:35 4:18 4:45 6:20 5:50	(5.0) 100%	(5.0) 100%	RUN 10				
178.8	151.4									178.8
										Boring and coring terminated at 151.4 feet. Boring closed by tremie method with cement-bentonite grout. 24 hour water level measured on 9/21/2009 prior to drilling. Borehole was at a depth of 146.4 feet.

NORTH ANNA 3 CORE NORTH ANNA 3 PROJECT.GPJ NORTH ANNA 3.GDT 12/4/09



M-27 - Box 1



M-27 - Box 2