



MACTEC PROJECT NO.: 6468-06-1472				COUNTY Louisa, VA			GEOLOGIST S. Nicely								
SITE DESCRIPTION NORTH ANNA COL								GROUND WATER (ft)							
BORING NO. B-915		DRILL METHOD: Mud Rotary/Core			SAMPLE METHODS: SPT/CORE			0 HR.	6.6						
COLLAR ELEV. 301.8 ft (NAVD88)		NORTHING 3,909,877		US ft (NAD83)		EASTING 11,686,089		US ft (NAD83)							
TOTAL DEPTH 112.8 ft		DRILL MACHINE CME 55 Truck			DRILLER: H. Meyerson			HAMMER TYPE 140 lbs Auto							
DATE STARTED 8/23/06		COMPLETED 8/31/06			CORE BARREL TYPE: HQ 3 triple tube-wireline										
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	
301.8					Ground Surface								301.8	0.0	
300.3	1.5														
298.3	3.5	6	6	6							915-1				
295.8	6.0	5	5	5							915-2				
293.3	8.5	4	6	5							915-3				
290.7	11.1	9	10	6							915-4				
288.3	13.5	7	13	12							915-5				
		7	41	33							915-6				
283.4	18.4	50/0.1									915-7			284.8	17.0
279.5	22.3	50/0.1									915-8			279.5	22.3
														253.8	48.0
														248.0	53.8

NORTH ANNA COL CORE NORTH ANNA COL DATA REPORT REV0.GPJ NORTH ANNA COL.GDT 1/19/07



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COLLAR ELEV. 301.8 ft (NAVD88)		NORTHING 3,909,877		US ft (NAD83)		EASTING 11,686,089		US ft (NAD83)		24 HR. 27.5			
TOTAL DEPTH 112.8 ft		DRILL MACHINE CME 55 Truck				DRILLER: H. Meyerson				HAMMER TYPE 140 lbs Auto			
DATE STARTED 8/23/06				COMPLETED 8/31/06				CORE BARREL TYPE: HQ 3 triple tube-wireline					
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				
227.0					Continued from previous page								
													Hard Rock: Olive gray, and light to dark gray with red and brown, moderately severely weathered to fresh, very close to close fracturing, moderately hard to very hard, BIOTITE-QUARTZ GNEISS (continued)
													Boring and coring terminated at 112.8 ft in Hard Rock: Very hard, BIOTITE-QUARTZ GNEISS
													Boring terminated before planned depth of 150ft due to difficulties with coring/core recovery at the direction of Bechtel-Dominion.

NORTH ANNA COL CORE NORTH ANNA COL DATA REPORT REV0.GPJ NORTH ANNA COL.GDT 1/19/07



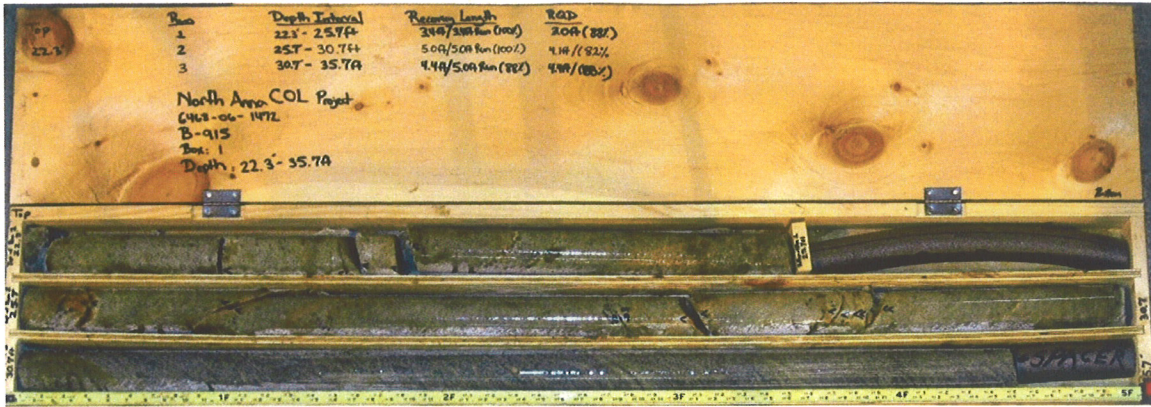
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SITE DESCRIPTION NORTH ANNA COL										GROUND WATER (ft)	
BORING NO. B-915		DRILL METHOD: Mud Rotary/Core				SAMPLE METHODS: SPT/CORE				0 HR. 6.6	
COLLAR ELEV. 301.8 ft (NAVD88)		NORTHING 3,909,877		US ft (NAD83)		EASTING 11,686,089		US ft (NAD83)		24 HR. 27.5	
TOTAL DEPTH 112.8 ft		DRILL MACHINE CME 55 Truck				DRILLER: H. Meyerson				HAMMER TYPE 140 lbs Auto	
DATE STARTED 8/23/06				COMPLETED 8/31/06				CORE BARREL TYPE: HQ 3 triple tube-wireline			
CORE SIZE HQ3				TOTAL RUN 90.5 ft							
ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN		SAMP. NO.	STRATA		LOG	DESCRIPTION AND REMARKS	
				REC. (%)	RQD (%)		REC. (%)	RQD (%)			
Begin Coring @ 22.4 ft											
279.4	22.4	3.3	1:32 1:58	(3.3) 100%	(3.0) 91%	1				Hard Rock: Light gray, moderately weathered to fresh, very close to wide fracturing, hard to very hard, BIOTITE-QUARTZ GNEISS (continued) (3 joints at 10-20° with Fe stain; 2 joints at 20-30° weathered)	
276.1	25.7	5.0	3:22 1:11/0.3	(5.0) 100%	(4.1) 82%	2			(3 joints at 30-40° with some Fe stain and weathering; 2 joints at 60-70° with Fe and Mn staining)		
271.1	30.7	5.0	3:31 3:07 3:49 2:40 5:06	(4.4) 88%	(4.4) 88%	3				-No joints	
266.1	35.7	5.0	7:26 8:14 11:49 17:25 21:57	(0.8) 100%	(0.8) 100%	4				-No joints	
265.3	36.5	0.8	30:35/0.8	(0.8) 100%	(0.8) 100%	5				(2 joints at 20-30° with Fe and Mn staining; 1 joint at 70-80° with Fe and Mn staining)	
261.7	40.1	3.6	6:42 3:56 4:24	(3.6) 100%	(3.6) 100%	6				(2 joints at 60-70° with Fe and Mn staining)	
261.5	40.3	0.2	25:28/0.6 11:31/0.2	(0.2) 100%	(0.0) 0%	7					
256.8	45.0	4.7	1:55/0.7 4:14 3:11 3:08	(4.4) 94%	(4.2) 89%	8				(2 joints at 50-60°, 1 joint at 70°, and 1 joint at 20°-all with Fe and Mn stain; severely weathered fracture zone from 47.6-48.0 ft)	
253.8	48.0	3.0	3:35 2:11 2:30 2:28	(3.0) 100%	(2.0) 67%	9					
251.8	50.0	2.0	0:41 0:27	(0.6) 30%	(0.0) 0%	10				Weathered Rock: Yellowish gray, severely weathered, very close to close fracturing, soft, BIOTITE-QUARTZ GNEISS with muscovite -Highly fractured throughout run with clay -Highly fractured throughout run with clay	
248.0	53.8	3.8	0:47 1:05 1:09	(1.3) 34%	(0.0) 0%	11					
243.1	58.7	4.9	0:52/0.8 1:32 1:20 3:53 3:16	(3.5) 71%	(1.0) 20%	12				Hard Rock: Olive gray, and light to dark gray with red and brown, moderately severely weathered to fresh, very close to close fracturing, moderately hard to very hard, BIOTITE-QUARTZ GNEISS -Highly fractured throughout run	
242.9	58.9	0.2	5:43/0.9 9:05/0.2	(0.2) 100%	(0.0) 0%	13				-Highly fractured throughout run with clay	
238.4	63.4	4.5	4:07 4:59 3:05 5:30	(3.2) 71%	(0.6) 13%	14				(8 joints at 20-30° and 6 joints at 50-60° with Fe stain and trace clay)	
233.4	68.4	5.0	2:33/0.5 3:34 3:28 3:29 3:17 3:23	(5.0) 100%	(2.7) 54%	15				(6 joints at 20-30°, 5 joints at 60-70°, and 1 joint at 90°-all with Fe and Mn stain)	
228.3	73.5	5.1	2:40 3:00 3:12 3:35	(5.1) 100%	(4.3) 84%	16				(7 joints at 20-30°, 2 joints at 10-20°, 5 joints at 50-60°, and 1 joint at 90° -all with Fe staining)	
223.3	78.5	5.0	4:25/1.1 2:53 3:22 2:05 2:07 3:40	(4.9) 98%	(2.9) 58%	17				(3 joints at 50-60° with clay, 2 joints at 0-10°, 1 joint at 30°, and 1 joint at 80° with Mn stain, all with Fe staining)	
218.3	83.5	5.0	4:09 4:27 3:42 4:39 7:05	(5.0) 100%	(4.5) 90%	18				-highly fractured throughout run; 1 joint at 90° with Fe and Mn staining and clay; quartz vein at 83.6 ft and 87.8-88.2 ft	
213.3	88.5	5.0	6:36 9:26 8:57 6:49 15:28	(5.0) 100%	(2.4) 48%	19				(2 joints at 60-70°, 1 joint at 30°, 3 joints at 10-20° -all with Fe staining)	
208.3	93.5	5.0	2:57 3:12 2:49 2:42 4:31	(4.8) 96%	(4.3) 86%	20				-Highly fractured throughout entire run. many high angle joints with Fe stain and clay	
		4.9	5:04 6:55 6:38	(5.1) 104%	(1.5) 31%						

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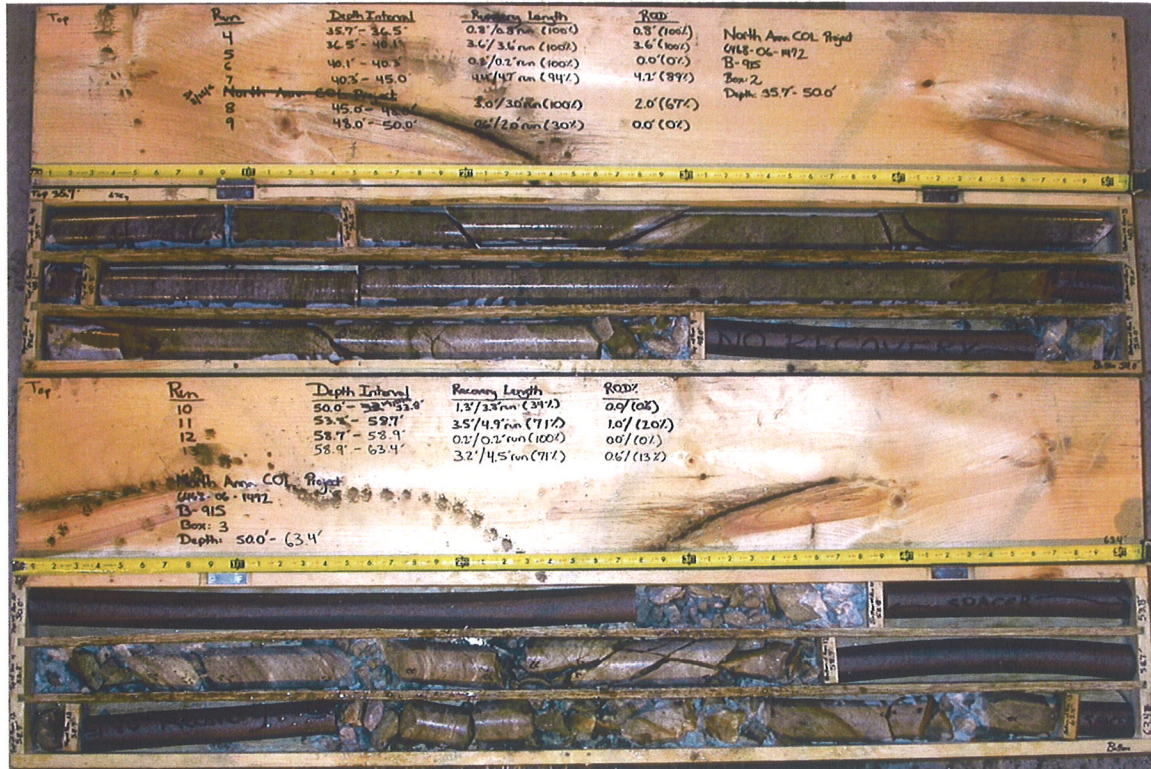


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COLLAR ELEV. 301.8 ft (NAVD88)		NORTHING 3,909,877		US ft (NAD83)		EASTING 11,686,089		US ft (NAD83)		24 HR. 27.5	
TOTAL DEPTH 112.8 ft		DRILL MACHINE CME 55 Truck				DRILLER: H. Meyerson				HAMMER TYPE 140 lbs Auto	
DATE STARTED 8/23/06				COMPLETED 8/31/06				CORE BARREL TYPE: HQ 3 triple tube-wireline			
CORE SIZE HQ3				TOTAL RUN 90.5 ft							
ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN		SAMP. NO.	STRATA		LOG	DESCRIPTION AND REMARKS	
				REC. (ft) %	RQD (ft) %		REC. (ft) %	RQD (ft) %			
										Continued from previous page	
203.4	98.4	4.5	8:04 10:27/0.9	(3.4)	(0.7)	21				Hard Rock: Olive gray, and light to dark gray with red and brown, moderately severely weathered to fresh, very close to close fracturing, moderately hard to very hard, BIOTITE-QUARTZ GNEISS (continued) -Highly fractured throughout entire run with Fe stain and clay; quartz vein from 99.3-99.4 ft	
198.9	102.9		6:57 7:46 10:08 15:49								
198.8	103.0	0.1	9:15/0.5	(0.0)	(0.0)	22				-Highly fractured throughout entire run, many high angle joints with Fe stain and clay	
196.3	105.5	2.5	ND/0.1	0%	0%	23				-Highly fractured throughout entire run, many high angle joints with Fe stain and clay	
		4.9	5:37 7:03 3:16/0.5	(2.3)	(0.3)	24				-Highly fractured throughout entire run, many high angle joints with Fe stain and clay	
			9:15 6:15 7:57 8:48	(1.4)	(0.5)					-Highly fractured throughout entire run, many high angle joints with Fe stain and clay	
191.4	110.4	2.4	11:42/0.9	(1.7)	(0.0)	25				-Highly fractured throughout entire run, many high angle joints with Fe stain and clay	
189.0	112.8		14:51 29:37 5:19/0.4	71%	0%					Coring terminated at 112.8 ft in Hard Rock: Very hard, BIOTITE-QUARTZ GNEISS Boring terminated before planned depth of 150 ft-due to difficulties with coring/core recovery-at the direction of Bechtel-Dominion.	

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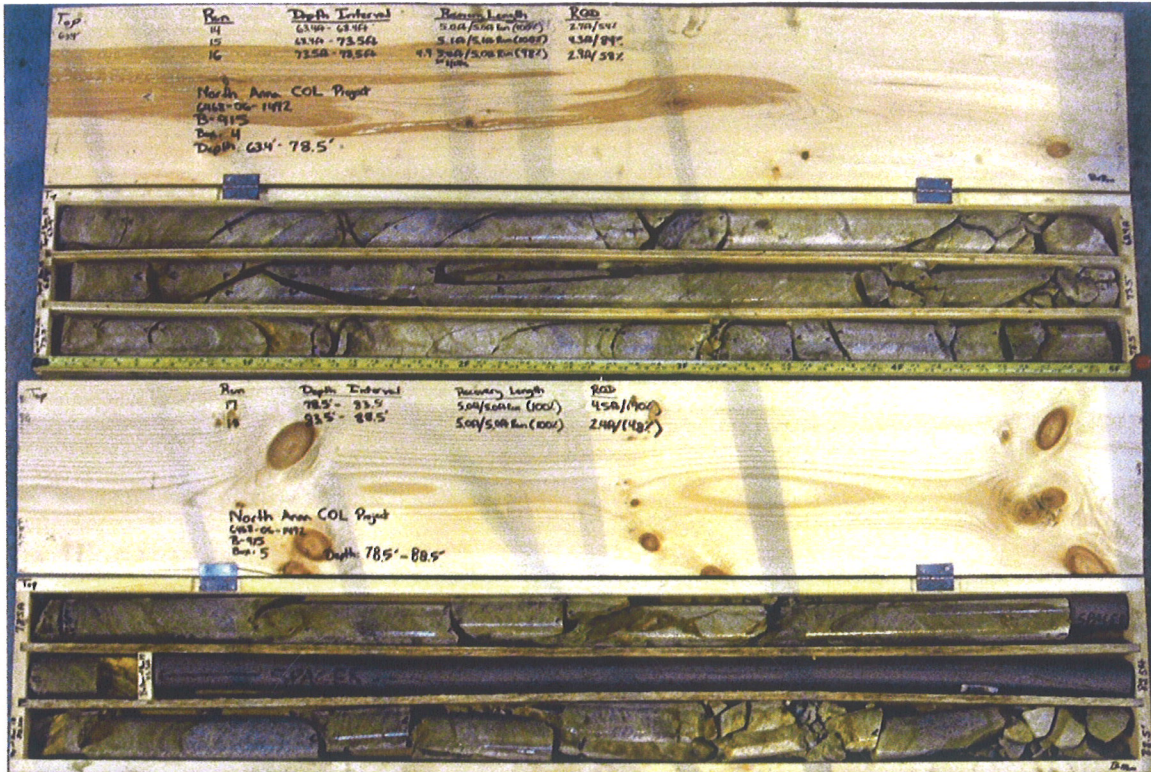


B-915 - Box 1



B-915 - Box 2

B-915 - Box 3



B-915 - Box 4
B-915 - Box 5



B-915 - Box 6
B-915 - Box 7