

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



SHEET 2 OF 2

MACTEC PROJECT NO.: 6468-06-1472				COUNTY Louisa, VA				GEOLOGIST S. Nicely							
SITE DESCRIPTION NORTH ANNA COL										GROUND WATER (ft) 0 HR. 6.6 24 HR. 27.5					
BORING NO. B-915		DRILL METHOD: Mud Rotary/Core				SAMPLE METHODS: SPT/CORE									
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					
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 (<i>continued</i>)	
														189.0	112.8
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

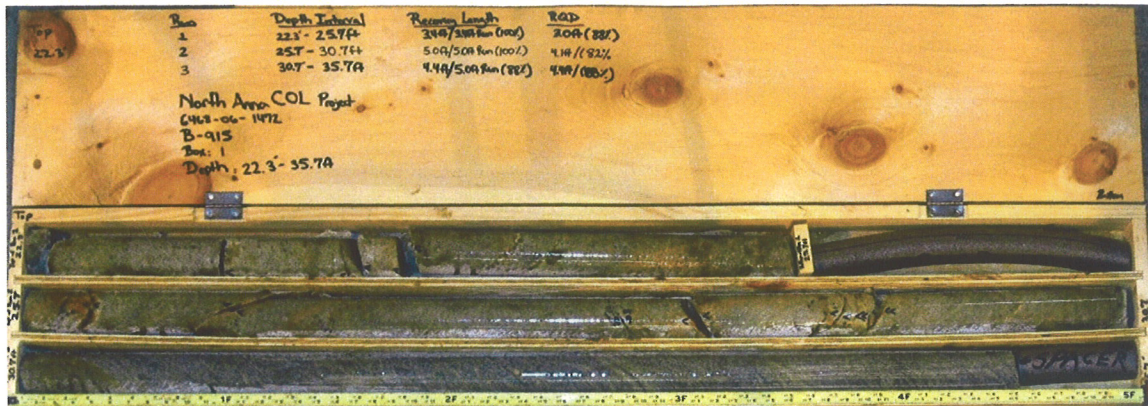


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SITE DESCRIPTION NORTH ANNA COL									GROUND WATER (ft)		
BORING NO. B-915			DRILL METHOD: Mud Rotary/Core			SAMPLE METHODS: SPT/CORE			0 HR. 6.6		
COLLAR ELEV. 301.8 ft (NAVD88)			NORTHING 3,909,877		US ft (NAD83)		EASTING 11,686,089		US ft (NAD83)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

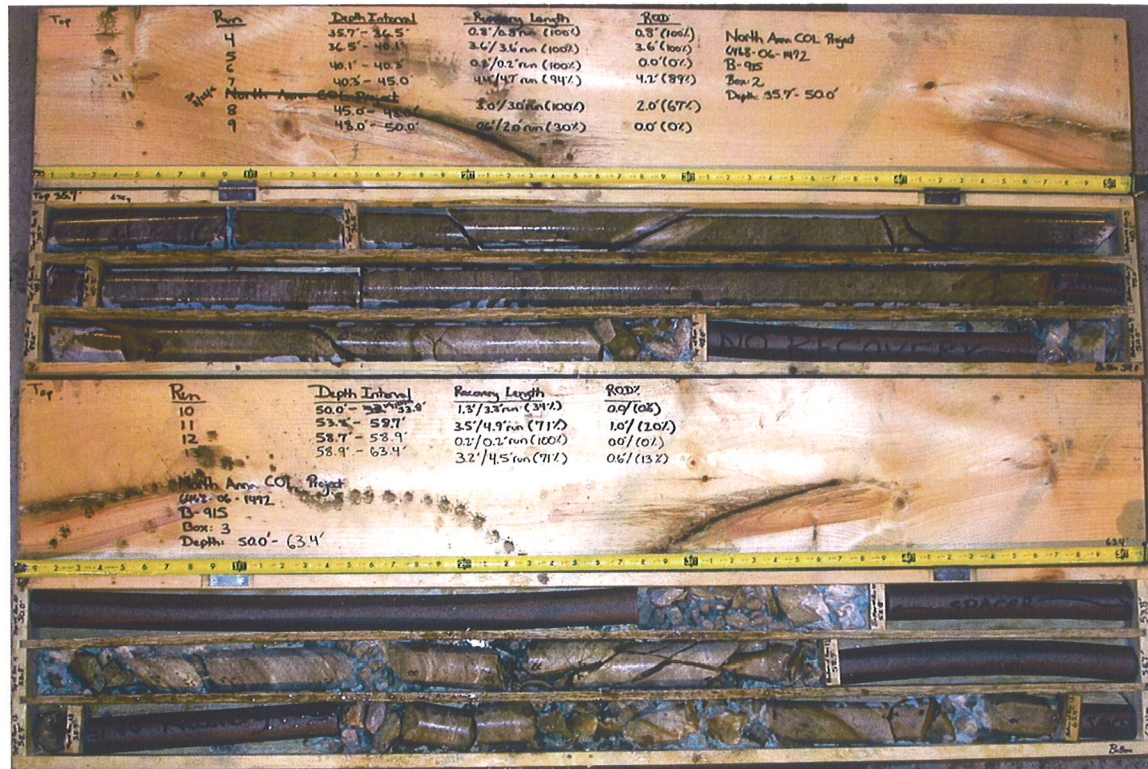


SHEET 2 OF 2

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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)	REC. (ft) %	RQD (ft) %	SAMP. NO.	REC. (ft) %	RQD (ft) %	L O G	DESCRIPTION AND REMARKS		
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 (<i>continued</i>) -Highly fractured throughout entire run with Fe stain and clay; quartz vein from 99.3-99.4 ft -Highly fractured throughout entire run, many high angle joints with Fe stain and clay -Highly fractured throughout entire run, many high angle joints with Fe stain and clay -Highly fractured throughout entire run, many high angle joints with Fe stain and clay
198.9	102.9	0.1	9:15/0.5	(0.0)	(0.0)	22						
198.8	103.0	2.5	ND/0.1	0%	0%	23						
196.3	105.5	4.9	5:37 7:03 3:16/0.5	(2.3)	(0.3)	24						
191.4	110.4	2.4	9:15 8:15 7:57 8:48 11:42/0.9	(1.4)	(0.5)	25						
189.0	112.8		14:51 29:37 5:19/0.4	(1.7)	(0.0)					189.0	112.8	
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.												

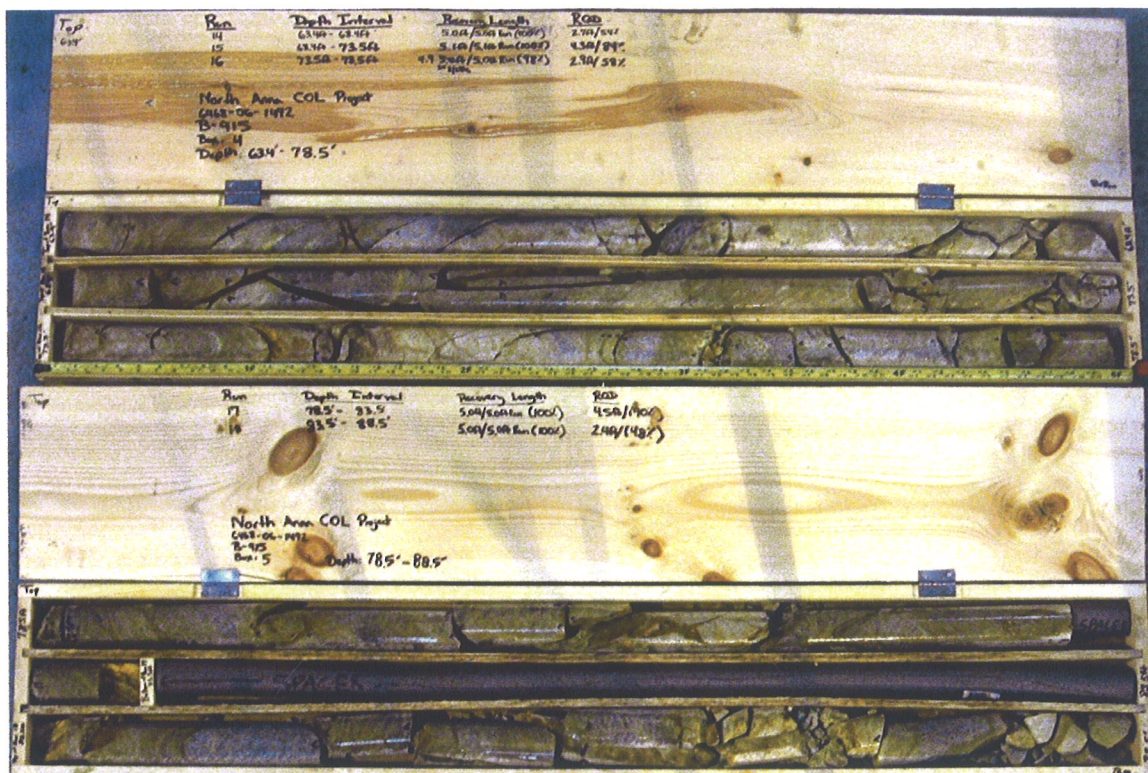


B-915 - Box 1



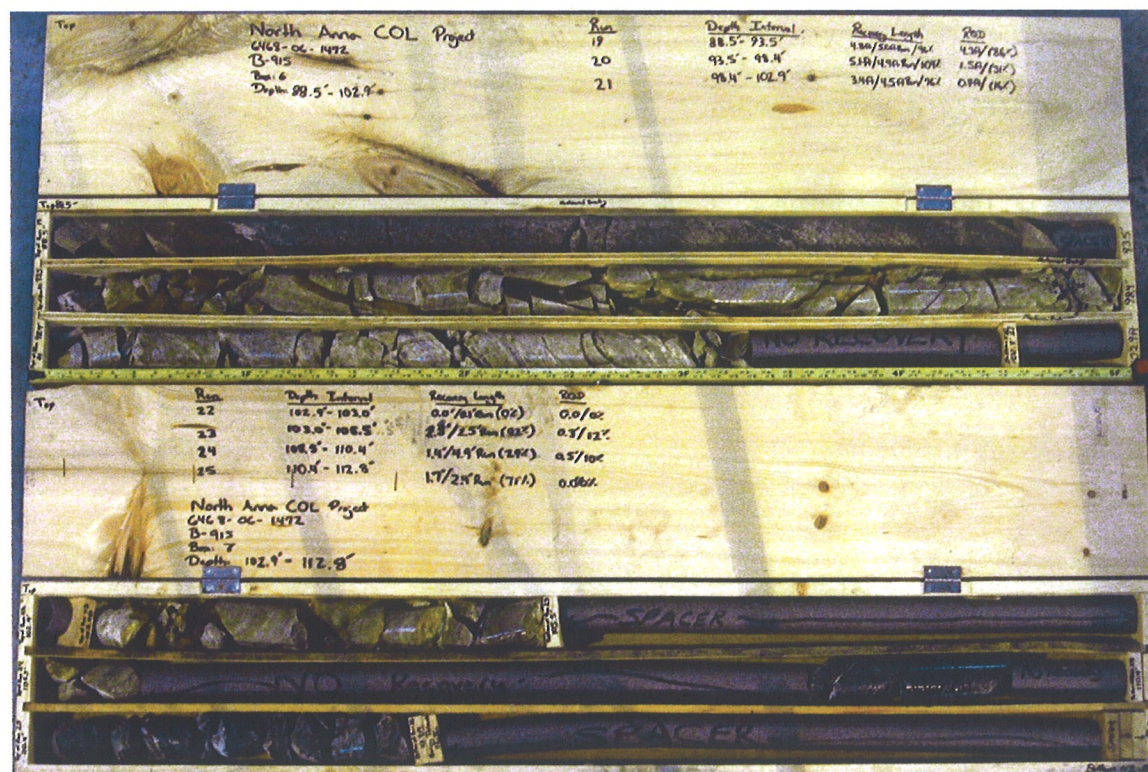
B-915 - Box 2

B-915 - Box 3



B-915 - Box 4

B-915 - Box 5



B-915 - Box 6

B-915 - Box 7