

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.															

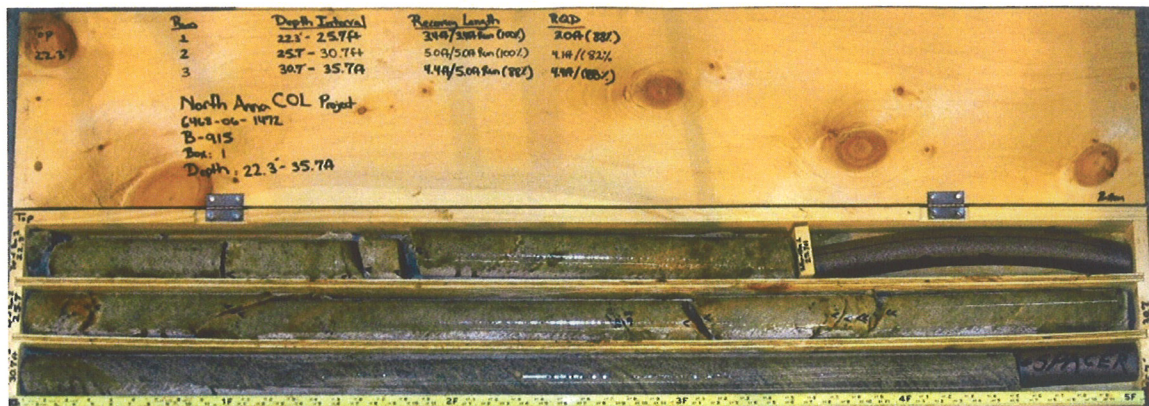
NORTH ANNA COL CORE NORTH ANNA COL DATA REPORT REV0.GPJ NORTH ANNA COL.GDT 1/19/07



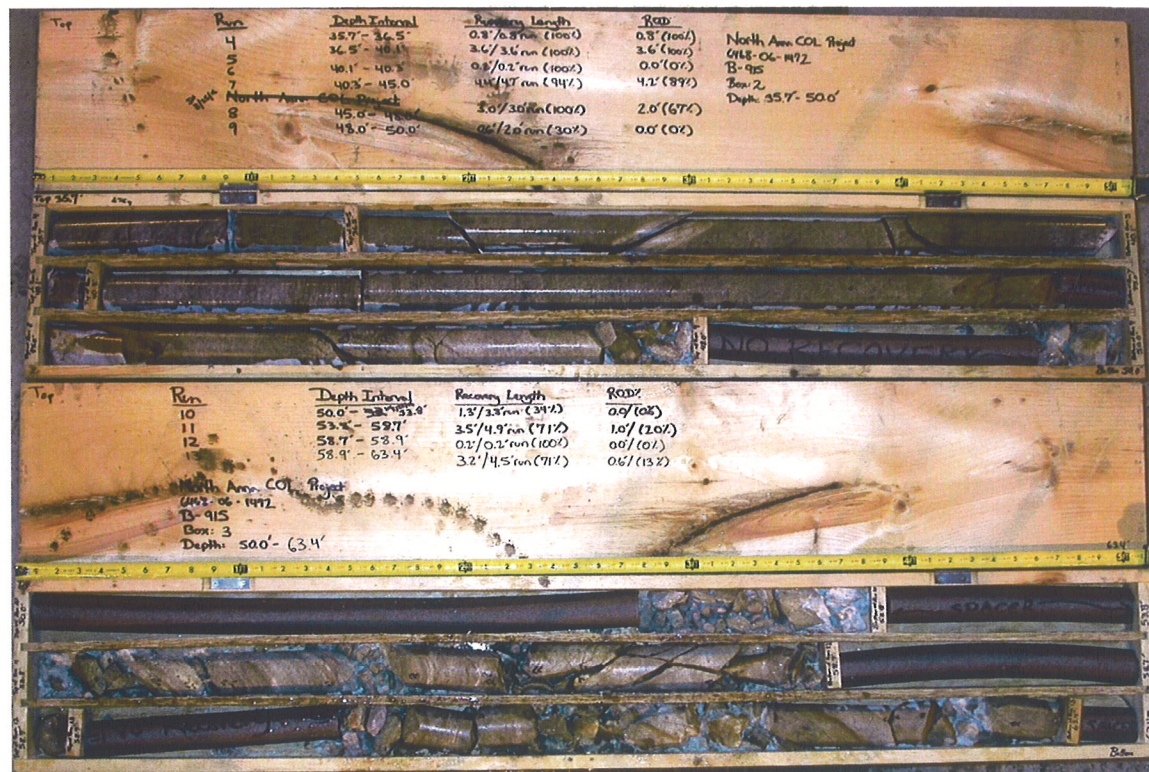
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SITE DESCRIPTION NORTH ANNA COL										GROUND WATER (ft)			
BORING NO. B-915			DRILL METHOD: Mud Rotary/Core				SAMPLE METHODS: SPT/CORE				0 HR. 6.6		
COLLAR ELEV. 301.8 ft (NAVD88)			NORTHING 3,909,877		US ft (NAD83)		EASTING 11,686,089		US ft (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 1:58 3:22	(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) (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	5.0	1:11/0.3 3:31 3:07 3:49 2:40 5:06	(5.0) 100%	(4.1) 82%	2							
271.1	30.7	5.0	7:26 8:14 11:49 17:25 21:57	(4.4) 88%	(4.4) 88%	3				-No joints			
266.1	35.7	0.8	30:35/0.8	(0.8) 100%	(0.8) 100%	4				-No joints			
265.3	36.5	3.6	6:42 3:56 4:24 25:28/0.6	(3.6) 100%	(3.6) 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	0.2	11:31/0.2	(0.2) 100%	(0.0) 0%	6				(2 joints at 60-70° with Fe and Mn staining)			
261.5	40.3	4.7	1:55/0.7 4:14 3:11 3:08	(4.4) 94%	(4.2) 89%	7							
256.8	45.0	3.0	3:35 2:11 2:30 2:28	(3.0) 100%	(2.0) 67%	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	2.0	0:41 0:27	(0.6) 30%	(0.0) 0%	9				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			
251.8	50.0	3.8	0:47 1:05 1:09 0:52/0.8	(1.3) 34%	(0.0) 0%	10							
248.0	53.8	4.9	1:32 1:20 3:53 3:16 5:43/0.9	(3.5) 71%	(1.0) 20%	11				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			
243.1	58.7	0.2	9:05/0.2	(0.2) 100%	(0.0) 0%	12				-Highly fractured throughout run with clay			
242.9	58.9	4.5	4:07 4:59 3:05 5:30 2:33/0.5	(3.2) 71%	(0.6) 13%	13				(8 joints at 20-30° and 6 joints at 50-60° with Fe stain and trace clay)			
238.4	63.4	5.0	3:34 3:28 3:29 3:17 3:23	(5.0) 100%	(2.7) 54%	14				(6 joints at 20-30°, 5 joints at 60-70°, and 1 joint at 90°-all with Fe and Mn stain)			
233.4	68.4	5.1	2:40 3:00 3:12 3:35 4:25/1.1	(5.1) 100%	(4.3) 84%	15				(7 joints at 20-30°, 2 joints at 10-20°, 5 joints at 50-60°, and 1 joint at 90° -all with Fe staining)			
228.3	73.5	5.0	2:53 3:22 2:05 2:07 3:40	(4.9) 98%	(2.9) 58%	16				(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)			
223.3	78.5	5.0	4:09 4:27 3:42 4:39 7:05	(5.0) 100%	(4.5) 90%	17				-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			
218.3	83.5	5.0	6:36 9:26 8:57 6:49 15:28	(5.0) 100%	(2.4) 48%	18				(2 joints at 60-70°, 1 joint at 30°, 3 joints at 10-20° -all with Fe staining)			
213.3	88.5	5.0	2:57 3:12 2:49 2:42 4:31	(4.8) 96%	(4.3) 86%	19				-Highly fractured throughout entire run. many high angle joints with Fe stain and clay			
208.3	93.5	4.9	5:04 6:55 6:38	(5.1) 104%	(1.5) 31%	20							



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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)	REC. (ft) %	RQD (ft) %	SAMP. NO.	REC. (ft) %	RQD (ft) %	STRATA (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 -Highly fractured throughout entire run, many high angle joints with Fe stain and clay
198.9	102.9		6:57 7:46 10:08 15:49	76%	16%							
198.8	103.0	0.1	9:15/0.5	(0.0)	(0.0)	22						
196.3	105.5	2.5	ND/0.1 5:37 7:03	0%	0%	23						
		4.9	3:16/0.5	(2.3)	(0.3)	24						
191.4	110.4		9:15 8:15 7:57 8:48	(1.4)	(0.5)							
189.0	112.8	2.4	11:42/0.9 14:51 29:37 5:19/0.4	(1.7)	(0.0)	25					-Highly fractured throughout entire run, many high angle joints with Fe stain and clay 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.	

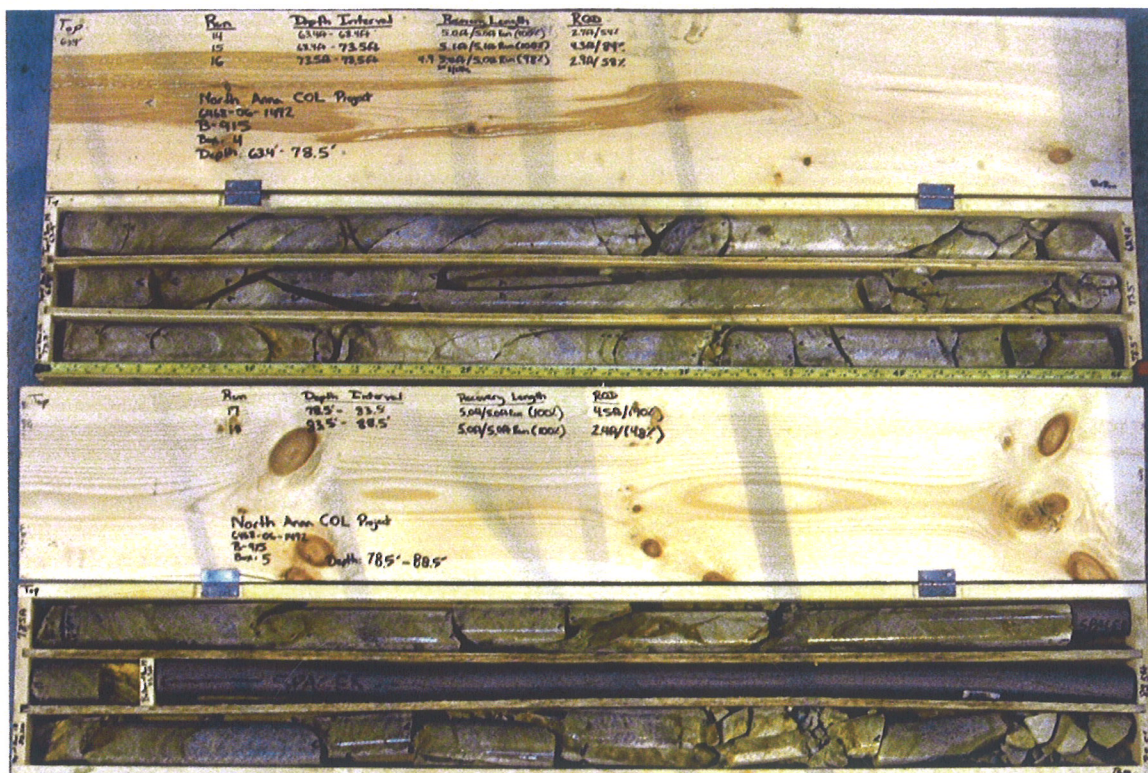


B-915 - Box 1



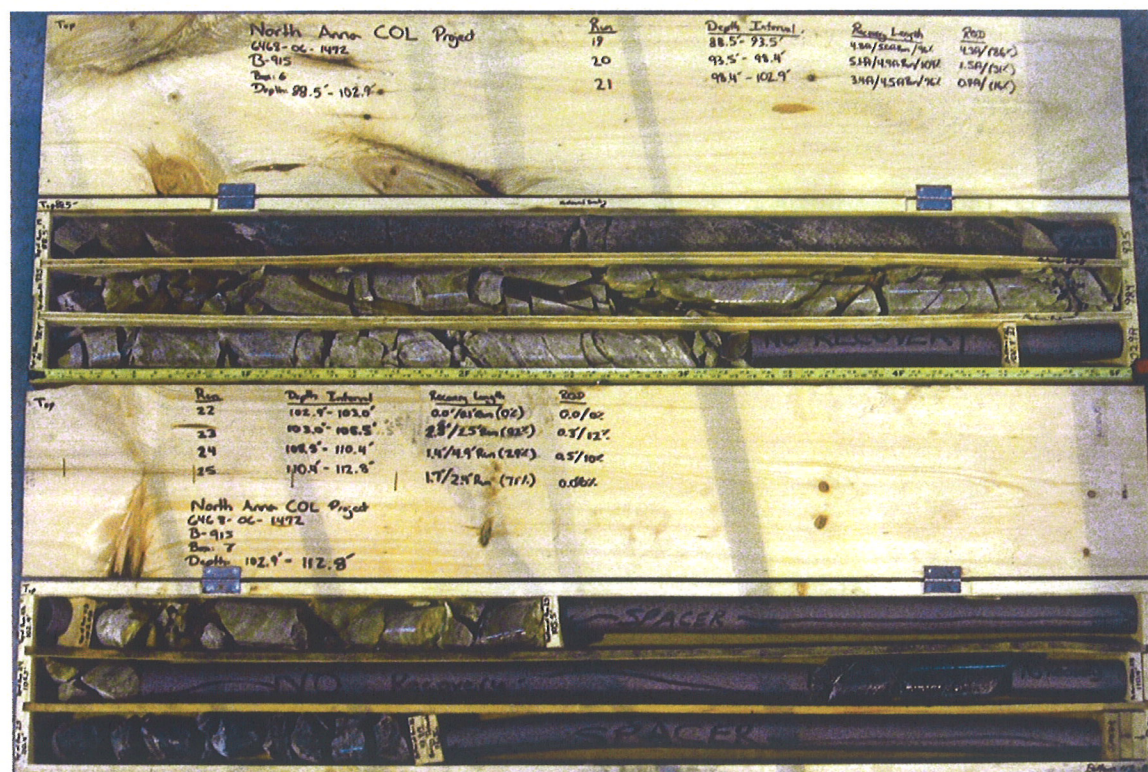
B-915 - Box 2

B-915 - Box 3



B-915 - Box 4

B-915 - Box 5



B-915 - Box 6

B-915 - Box 7