

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

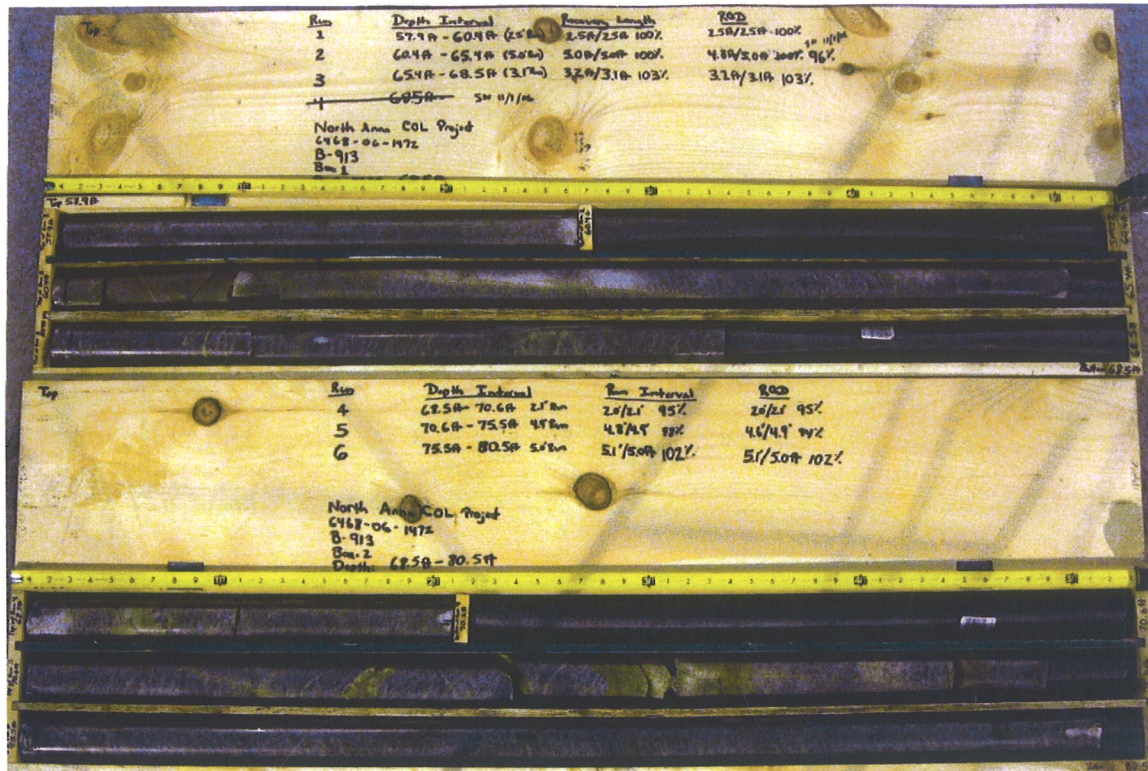


MACTEC PROJECT NO.: 6468-06-1472					COUNTY Louisa, VA					GEOLOGIST S. Nicely						
SITE DESCRIPTION NORTH ANNA COL										GROUND WATER (ft) 0 HR. 8.1 24 HR. ND						
BORING NO. B-913			DRILL METHOD: Mud Rotary/Core				SAMPLE METHODS: SPT/CORE									
COLLAR ELEV. 273.4 ft (NAVD88)			NORTHING 3,910,149		US ft (NAD83)		EASTING 11,686,115		US ft (NAD83)		TOTAL DEPTH 100.9 ft					
DRILL MACHINE CME 55 Truck			DRILLER: H. Meyerson				HAMMER TYPE 140 lbs Auto			DATE STARTED 10/30/06						
COMPLETED 11/1/06			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						
198.6					Continued from previous page											
														197.9	75.5	Hard Rock: Light gray to gray, slightly weathered to fresh, wide to very wide fracturing, very hard, BIOTITE-QUARTZ GNEISS
																Boring and coring terminated at 100.9 ft in Hard Rock: Very hard, BIOTITE-QUARTZ GNEISS



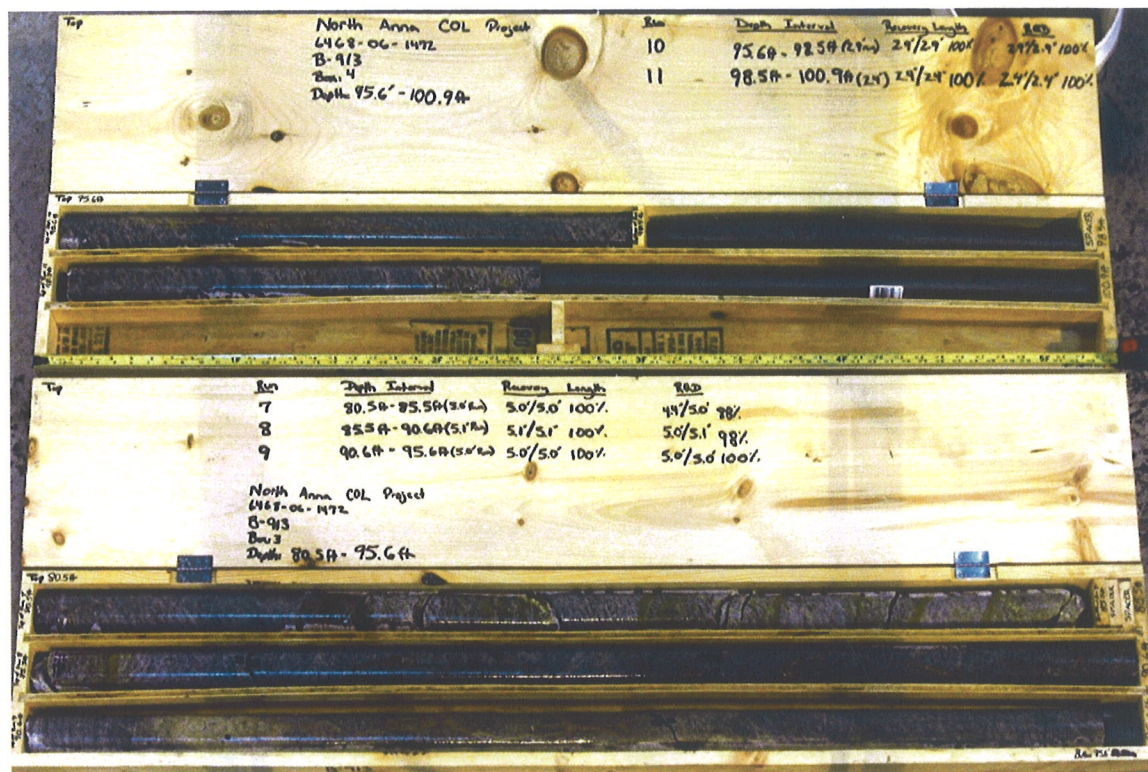
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TOTAL DEPTH 100.9 ft			DRILL MACHINE CME 55 Truck				DRILLER: H. Meyerson			HAMMER TYPE 140 lbs Auto		
DATE STARTED 10/30/06			COMPLETED 11/1/06				CORE BARREL TYPE: HQ 3 triple tube-wireline					
CORE SIZE HQ3			TOTAL RUN 43.0 ft									
ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN REC. RQD (ft) (%)		SAMP. NO.	STRATA REC. RQD (ft) (%)		L O G	DESCRIPTION AND REMARKS		
										Begin Coring @ 57.9 ft		
215.5	57.9	2.5	N=50/0.0 6:35	(2.5)	(2.5)	1				215.5	57.9 Hard Rock: Light gray to gray, moderately weathered to fresh, close to moderately close fracturing, very hard, BIOTITE-QUARTZ GNEISS	
213.0	60.4		8:12	100%	100%							
		5.0	14:22/0.5 5:19	(5.0)	(4.8)	2						
			6:38	100%	96%							
208.0	65.4		8:57									
		3.1	10:22 15:23	(3.2)	(3.2)	3				(1 joint at 15° with Fe stain)		
			6:36	103%	103%							
204.9	68.5		8:52									
		2.1	11:03/1.1 7:45	(2.0)	(2.0)	4				(1 joint at 10° with Fe stain)		
202.8	70.6		4:25/1.1	95%	95%							
		4.9	4:58	(4.8)	(4.6)	5				(1 joint at 15° with clay and Fe stain)		
			4:23	98%	94%							
			4:38									
197.9	75.5		3:58									
		5.0	5:04/0.9 6:20	(5.1)	(5.1)	6				197.9	75.5 Hard Rock: Light gray to gray, slightly weathered to fresh, wide to very wide fracturing, very hard, BIOTITE-QUARTZ GNEISS	
			7:29	102%	102%							
192.9	80.5		8:44									
		5.0	9:48									
			12:53									
		5.1	6:11	(5.0)	(4.4)	7				(7 joints at 20-30° with Fe stain; Quartz vein from 82.9-83.0 ft with Fe stain; very close to close fracturing)		
			4:21	100%	88%							
187.9	85.5		6:21									
		5.1	3:56	(5.1)	(5.0)	8				-No Joints		
			8:23	100%	98%							
182.8	90.6		8:52									
		5.0	12:10/1.1 4:53	(5.0)	(5.0)	9				-Quartz vein from 91.3-91.8 ft with magnetite		
			5:55	100%	100%							
177.8	95.6		6:44									
		2.9	5:30	(2.9)	(2.9)	10				-No Joints		
			6:42	100%	100%							
174.9	98.5		12:07/0.9 6:20	(2.4)	(2.4)	11				-No Joints		
		2.4	8:11	100%	100%							
172.5	100.9		5:29	(2.4)	(2.4)							
			6:12	100%	100%							
			2:18/0.4							Coring terminated at 100.9 ft in Hard Rock: Very hard, BIOTITE-QUARTZ GNEISS		

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



B-913 - Box 1

B-913 - Box 2



B-913 - Box 4

B-913 - Box 3