

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



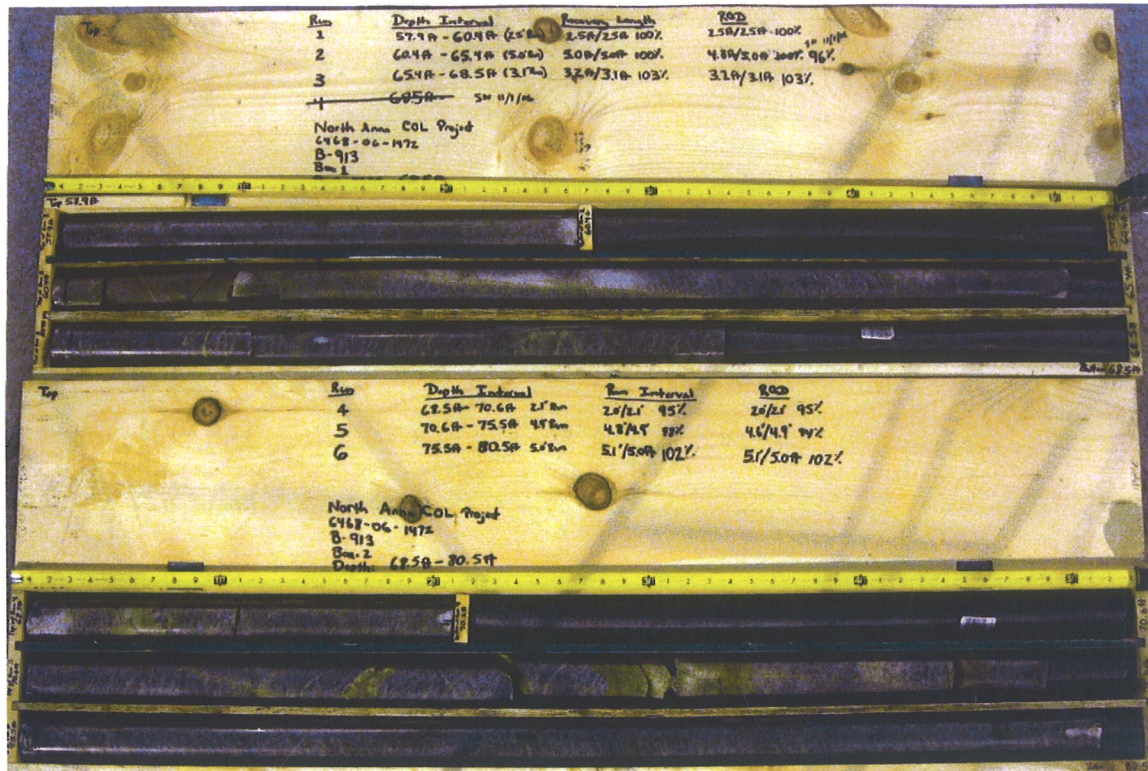
MACTEC PROJECT NO.: 6468-06-1472										COUNTY Louisa, VA				GEOLOGIST S. Nicely					
SITE DESCRIPTION NORTH ANNA COL														GROUND WATER (ft) 0 HR. 8.1 24 HR. ND					
BORING NO. B-913				DRILL METHOD: Mud Rotary/Core				SAMPLE METHODS: SPT/CORE											
COLLAR ELEV. 273.4 ft (NAVD88)				NORTHING 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			
														172.5	100.9	Boring and coring terminated at 100.9 ft in Hard Rock: Very hard, BIOTITE-QUARTZ GNEISS			



SHEET 1 OF 1

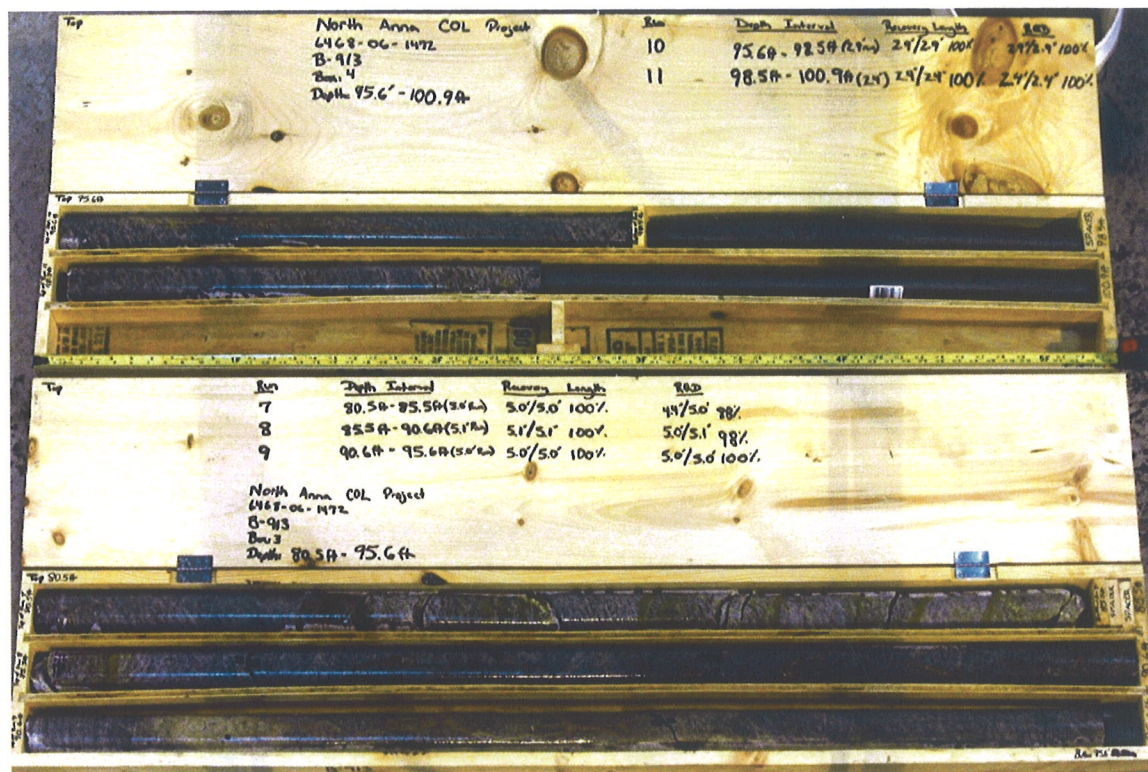
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TOTAL DEPTH 100.9 ft			DRILL MACHINE CME 55 Truck				DRILLER: H. Meyerson			HAMMER TYPE 140 lbs Auto		
DATE STARTED 10/30/06				COMPLETED 11/1/06			CORE BARREL TYPE: HQ 3 triple tube-wireline					
CORE SIZE HQ3				TOTAL RUN 43.0 ft								
ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN REC. (ft) %		RQD (ft) %	SAMP. NO.	STRATA REC. (ft) %		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 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	(5.0)	(4.8)	2						-No Joints
			5:19	100%	96%							(1 joint at 20°, 1 joint at 35° both with Fe stain)
208.0	65.4		6:38									
		3.1	8:57	(3.2)	(3.2)	3						(1 joint at 15° with Fe stain)
			10:22	103%	103%							
204.9	68.5		15:23									
		2.1	6:36	(2.0)	(2.0)	4						(1 joint at 10° with Fe stain)
			8:52	95%	95%							
202.8	70.6		11:03/1.1									
		4.9	7:45	(4.8)	(4.6)	5						(1 joint at 15° with clay and Fe stain)
			4:25/1.1	98%	94%							
			4:58									
			4:23									
			4:38									
			3:58									
197.9	75.5		5:04/0.9									197.9
		5.0	6:20	(5.1)	(5.1)	6						Hard Rock: Light gray to gray, slightly weathered to fresh, wide to very wide fracturing, very hard, BIOTITE-QUARTZ GNEISS
			7:29	102%	102%							-No Joints
			8:44									
192.9	80.5		9:48									
		5.0	12:53	(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)
			6:11	100%	88%							
			4:21									
			6:21									
187.9	85.5		3:56									
		5.1	3:59	(5.1)	(5.0)	8						-No Joints
			4:42	100%	98%							
			6:16									
			8:23									
182.8	90.6		8:52									
		5.0	12:10/1.1	(5.0)	(5.0)	9						-Quartz vein from 91.3-91.8 ft with magnetite
			4:53	100%	100%							
			5:55									
			6:44									
			5:30									
177.8	95.6		6:42									
		2.9		(2.9)	(2.9)	10						-No Joints
			6:20	100%	100%							
			8:11									
174.9	98.5		12:07/0.9									
		2.4		(2.4)	(2.4)	11						-No Joints
			5:29	100%	100%							
			6:12									
172.5	100.9		2:18/0.4									172.5
												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