



MACTEC PROJECT NO.: 6468-06-1472				COUNTY Louisa, VA				GEOLOGIST S. Nicely							
SITE DESCRIPTION NORTH ANNA COL										GROUND WATER (ft)					
BORING NO. B-913		DRILL METHOD: Mud Rotary/Core				SAMPLE METHODS: SPT/CORE				0 HR. 8.1					
COLLAR ELEV. 273.4 ft (NAVD88)		NORTHING 3,910,149		US ft (NAD83)		EASTING 11,686,115		US ft (NAD83)		24 HR. ND					
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	75.9	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

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

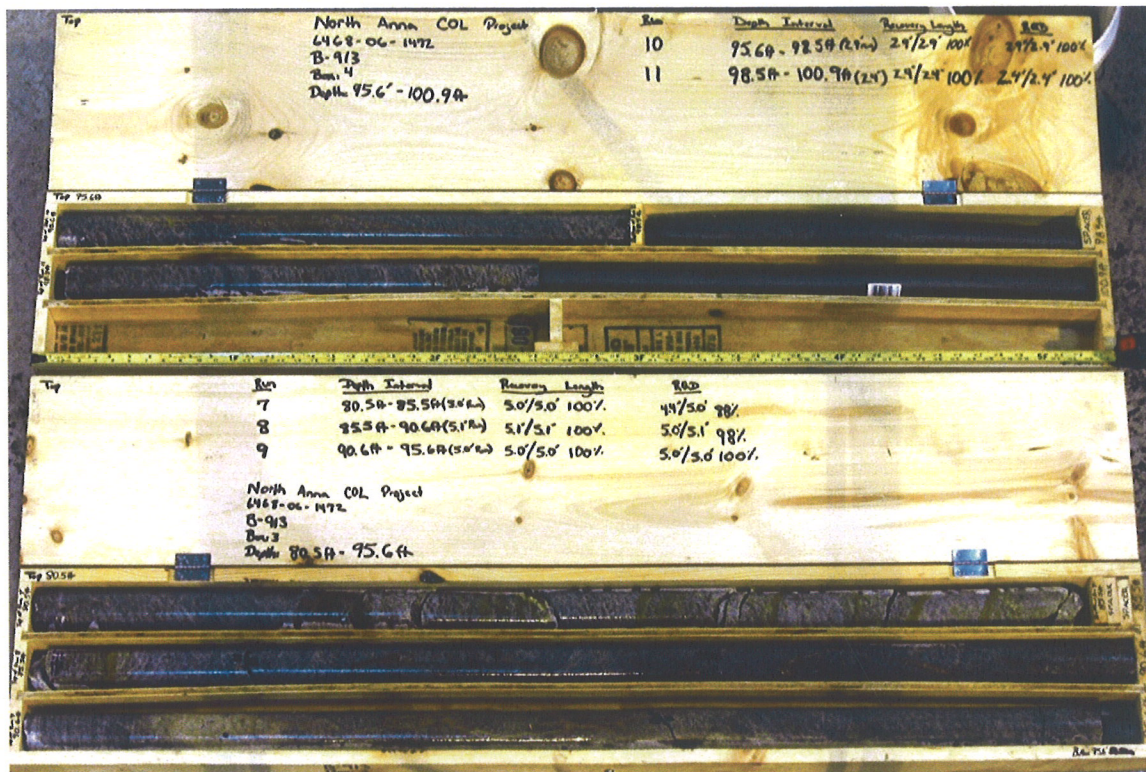


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DATE STARTED 10/30/06			COMPLETED 11/1/06			CORE BARREL TYPE: HQ 3 triple tube-wireline						
CORE SIZE HQ3			TOTAL RUN 43.0 ft									
ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN		SAMP. NO.	STRATA		LOG	DESCRIPTION AND REMARKS		
				REC. (ft) %	RQD (ft) %		REC. (ft) %	RQD (ft) %				
										Begin Coring @ 57.9 ft		
215.5	57.9	2.5	N=50/0.0 8:35	(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 (1 joint at 20°, 1 joint at 35° both with Fe stain)		
			5:19 6:38 8:57 10:22	100%	96%							
208.0	65.4	3.1	15:23	(3.2)	(3.2)	3				(1 joint at 15° with Fe stain)		
			6:36 8:52 11:03/1.1	103%	103%							
204.9	68.5	2.1	7:45	(2.0)	(2.0)	4				(1 joint at 10° with Fe stain)		
			4:25/1.1	95%	95%							
202.8	70.6	4.9	4:58	(4.8)	(4.6)	5				(1 joint at 15° with clay and Fe stain)		
			4:23 4:38 3:58 5:04/0.9	98%	94%							
197.9	75.5	5.0	6:20	(5.1)	(5.1)	6				197.9 Hard Rock: Light gray to gray, slightly weathered to fresh, wide to very wide fracturing, very hard, BIOTITE-QUARTZ GNEISS		
			7:29 8:44 9:48 12:53	102%	102%					-No Joints		
192.9	80.5	5.0	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 6:21 3:56 3:59	100%	88%							
187.9	85.5	5.1	4:42	(5.1)	(5.0)	8				-No Joints		
			6:16 8:23 8:52 12:10/1.1	100%	98%							
182.8	90.6	5.0	4:53	(5.0)	(5.0)	9				-Quartz vein from 91.3-91.8 ft with magnetite		
			5:55 6:44 5:30 6:42	100%	100%							
177.8	95.6	2.9	6:20	(2.9)	(2.9)	10				-No Joints		
			8:11 12:07/0.9	100%	100%							
174.9	98.5	2.4	5:29	(2.4)	(2.4)	11				-No Joints		
			6:12 2:18/0.4	100%	100%							
172.5	100.9									172.5 Coring terminated at 100.9 ft in Hard Rock: Very hard, BIOTITE-QUARTZ GNEISS		
										100.9		

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