

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

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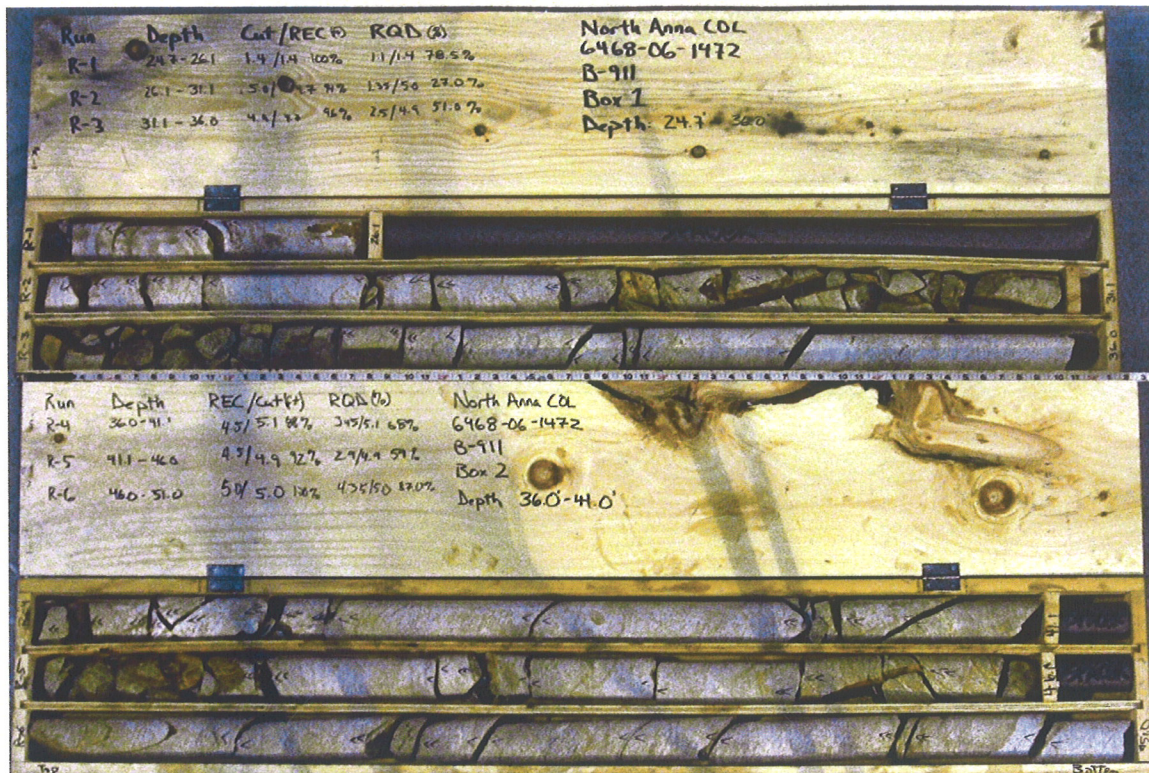
MACTEC PROJECT NO.: 6468-06-1472							COUNTY Louisa, VA			GEOLOGIST J. Lachewitz		
SITE DESCRIPTION NORTH ANNA COL										GROUND WATER (ft)		
BORING NO. B-911			DRILL METHOD: Mud Rotary/Core				SAMPLE METHODS: SPT/CORE			0 HR. ND		
COLLAR ELEV. 299.8 ft (NAVD88)			NORTHING 3,909,920		US ft (NAD83)		EASTING 11,685,993		US ft (NAD83)		24 HR. ND	
TOTAL DEPTH 101.0 ft			DRILL MACHINE CME 550 ATV				DRILLER: G. Akins			HAMMER TYPE 140 lbs Auto		
DATE STARTED 8/8/06				COMPLETED 8/10/06			CORE BARREL TYPE: HQ 3 triple tube-wireline					
CORE SIZE HQ3				TOTAL RUN 76.2 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 @ 24.8 ft		
275.0	24.8	1.3	4:15	(1.3)	(1.1)	1				275.0	Hard Rock: White to gray, moderately severe to moderately weathered, close fracturing, soft to moderately hard, QUARTZ BIOTITE GNEISS (1 joint at 90°; 2 joints at 15-30° with trace clay and Fe stain) (6 joints at 5-20° with Fe stain)	
273.7	26.1	5.0	1:58/0.3	100%	85%	2						
			3:01	(4.7)	(1.4)							
			3:04	94%	28%							
268.7	31.1		2:15									
		4.9	2:02	(4.7)	(2.5)	UCS-34.3'					(6 joints at 5-45° with Fe stain)	
			2:14	96%	51%							
			1:35									
263.8	36.0		1:25	(4.5)	(3.5)	4					(Multiple horizontal and vertical joints with Fe stain)	
		5.1	1:23	88%	69%							
			1:41									
258.7	41.1		1:21	(4.5)	(2.9)	UC-44.3'					(4 joints at 0-20° with Fe stain)	
		4.9	1:23/1.1	92%	59%							
253.8	46.0		1:18	(5.0)	(4.4)	6					(8 joints at 25-45° with Fe stain)	
		5.0	0:50	100%	88%							
			0:58									
248.8	51.0		0:57	(4.9)	(3.7)	9					(1 joint at 45° with slight Fe stain; multiple horizontal and vertical joints)	
		5.1	1:00	100%	76%							
			1:15									
243.7	56.1		1:17	(5.0)	(4.8)	8					(8 joints at 20-50° with Fe stain)	
		5.0	1:14	100%	96%							
			0:43									
			0:47									
238.7	61.1		1:08/1.1	(4.9)	(3.7)	9					(7 joints at 0-45° with Fe stain)	
		4.9	0:45	100%	76%							
			1:01									
233.8	66.0		1:14	(4.9)	(4.4)	UC-66.5'					Hard Rock: Gray to bluish gray, moderately weathered to fresh, close to wide fracturing, medium hard to hard, QUARTZ BIOTITE GNEISS (1 joint at 5° with slight Fe stain)	
		4.9	1:15	100%	90%							
			2:27/0.9									
228.9	70.9		2:18	(4.9)	(4.4)	UC-66.5'					(1 joint at 10°)	
		5.0	1:47	100%	90%							
			2:36									
			4:09	(5.0)	(4.9)	11					(3 joints at 65-85° slightly weathered)	
			7:43/0.9	100%	98%							
223.9	75.9		3:40	(5.1)	(4.7)	12					(2 joints at 85°; 4 joints at 0-10°; slight Fe stain)	
		5.1	4:32	100%	92%							
			4:47									
218.8	81.0		5:39	(4.9)	(4.6)	UCS-82.1'					(4 joints at 45°)	
		4.9	7:01/1.1	100%	94%							
			4:58									
213.9	85.9		6:14	(5.1)	(4.6)	14					(4 joints 0-10° with clay and Fe stain)	
		5.1	6:01	100%	90%							
			5:15									
			8:12/0.9									
208.8	91.0		3:58	(5.0)	(4.1)	15					(4 joints at 5° and 1 joint at 45° with slight weathering)	
		5.0	2:52	100%	82%							
			2:12									
			1:52									
203.8	96.0		2:57/1.1									
			2:28	(5.0)	(4.6)	UC-97.6'						
			2:11	100%	92%							
			2:22									
			2:44									
			3:04									
		5.0	3:29	(5.0)	(4.6)	UC-97.6'						
			2:59	100%	92%							
			3:09									

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										Continued from previous page	
198.8	101.0		3:31 2:51							198.8 101.0 Coring terminated at 101.0 ft in Hard Rock: Medium to moderately hard, QUARTZ GNEISS	



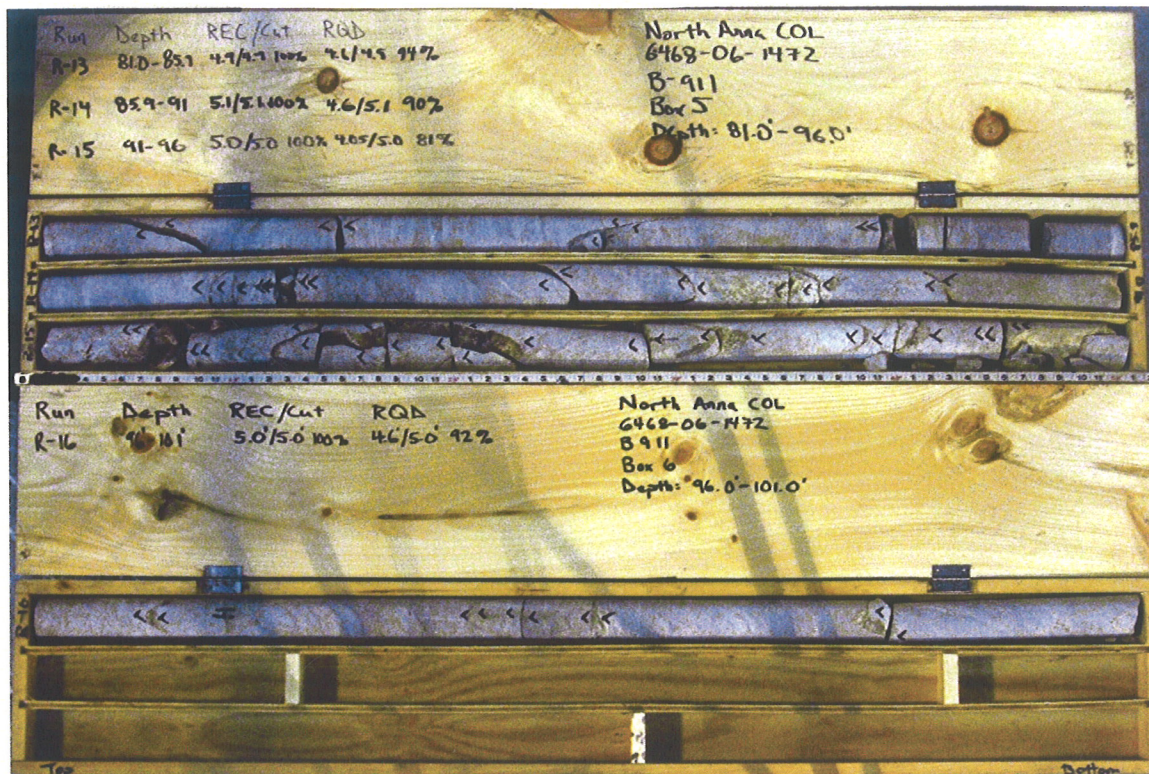
B-911 - Box 1

B-911 - Box 2



B-911 - Box 3

B-911 - Box 4



B-911 - Box 5

B-911 - Box 6

