

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



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									
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT						SAMP. NO.	LOG MOI	SOIL AND ROCK DESCRIPTION			
		0.5ft	0.5ft	0.5ft	0	20	40	60	80	100						
225.0					Continued from previous page											
													Hard Rock: Gray to bluish gray, moderately weathered to fresh, close to wide fracturing, medium hard to hard, QUARTZ BIOTITE GNEISS (continued)			
													198.8			
															101.0	Boring and coring terminated at 101.0 ft in Hard Rock: Medium to moderately hard, QUARTZ GNEISS

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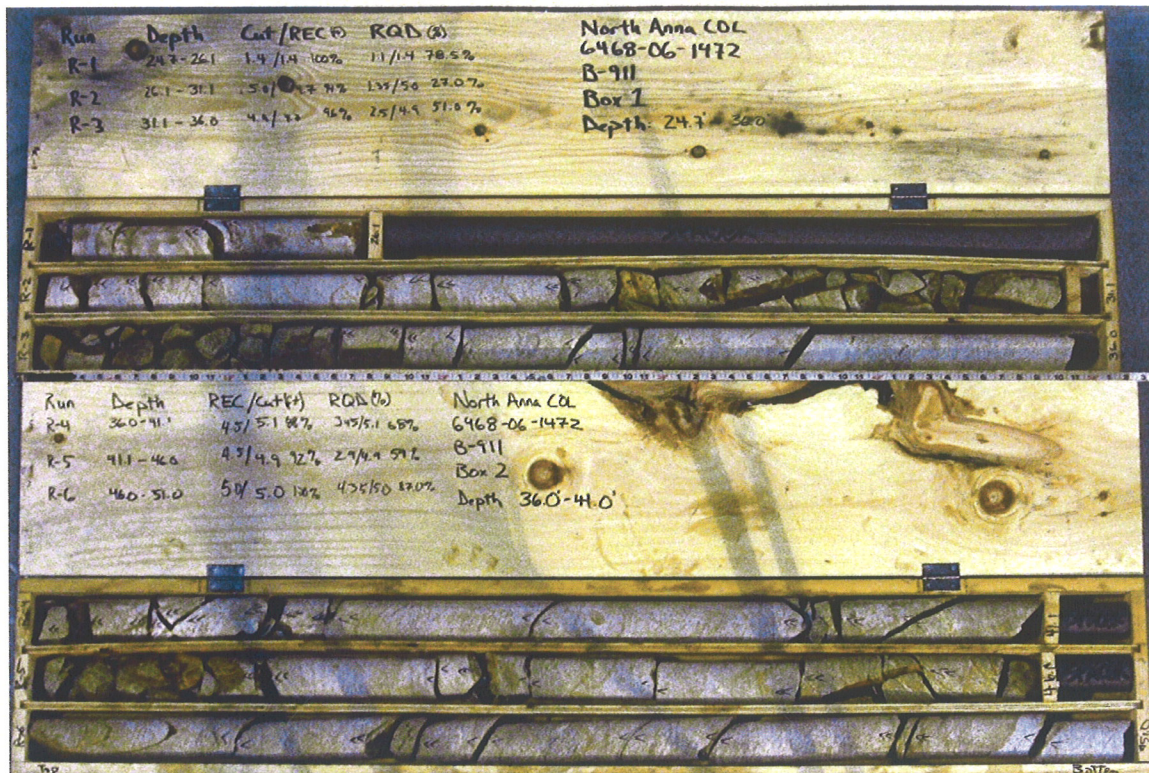
SHEET 1 OF 2

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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					24.8	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									
			2:14	(4.7)	(2.5)	UCS-34.3'						
			1:35	96%	51%							
			1:25									
263.8	36.0		1:15									
		5.1	1:38/0.9	(4.5)	(3.5)	4						
			2:09	88%	69%							
			1:23									
			1:41									
258.7	41.1		1:21									
		4.9	1:23/1.1	(4.5)	(2.9)	UC-44.3'						
			1:05	92%	59%							
			1:14									
253.8	46.0		1:14									
		5.0	1:21/0.9	(5.0)	(4.4)	6						
			0:50	100%	88%							
			0:58									
			0:57									
248.8	51.0		1:00									
		5.1	1:15	(3.0)	(1.0)	7						
			1:17	59%	20%							
			1:14									
			0:43									
243.7	56.1		0:47									
		5.0	1:08/1.1	(5.0)	(4.8)	8						
			0:54	100%	96%							
			0:56									
			0:52									
238.7	61.1		0:48									
		4.9	1:02	(4.9)	(3.7)	9						
			0:45	100%	76%							
			1:01									
			1:14									
233.8	66.0		1:15									
		4.9	2:27/0.9	(4.9)	(4.4)	UC-66.5'						
			2:18	100%	90%							
			1:47									
228.9	70.9		2:36									
		5.0	4:09	(5.0)	(4.9)	11						
			7:43/0.9	100%	98%							
			3:40									
			4:47									
223.9	75.9		2:56									
		5.1	2:53	(5.1)	(4.7)	12						
			5:09	100%	92%							
			4:31									
			4:32									
218.8	81.0		4:47									
		4.9	5:39	(4.9)	(4.6)	UCS-82.1'						
			7:01/1.1	100%	94%							
			4:58									
			6:14									
213.9	85.9		6:01									
		5.1	5:15	(5.1)	(4.6)	14						
			8:12/0.9	100%	90%							
			3:58									
			2:52									
			2:12									
208.8	91.0		1:52									
		5.0	2:57/1.1	(5.0)	(4.1)	15						
			2:28	100%	82%							
			2:11									
			2:22									
203.8	96.0		2:44									
		5.0	3:04	(5.0)	(4.6)	UC-97.6'						
			3:29	100%	92%							
			2:59									
			3:09									

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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		SAMP. NO.	STRATA		L O G	DESCRIPTION AND REMARKS	
				REC. (ft) %	RQD (ft) %		REC. (ft) %	RQD (ft) %			
										Continued from previous page	
198.8	101.0		3:31 2:51							198.8 Coring terminated at 101.0 ft in Hard Rock: Medium to moderately hard, QUARTZ GNEISS 101.0	



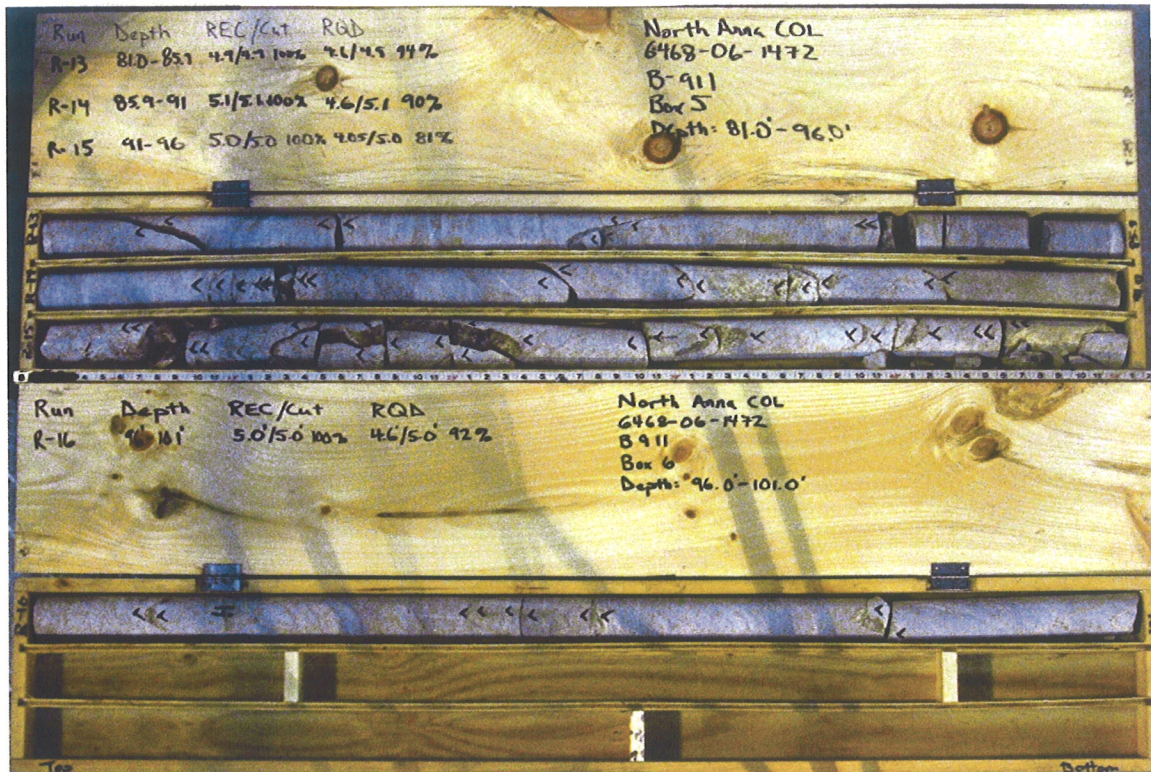
B-911 - Box 1

B-911 - Box 2



B-911 - Box 3

B-911 - Box 4



B-911 - Box 5

B-911 - Box 6

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