



CONTACT: STEVE CRISCENZO PHONE: 919-949-1707

LOGGING CREW: R. STELLER

[illegible]



SITE: NORTH ANNA COL B-907 DATE: 8/30/08
CLIENT: MACTEC JOB: 6410
AUTHOR: R. STELLER PAGE 1 OF 5

CONTACT: <u>STEVE CRISCENZO</u>	<u>OFFICE</u>	PHONE: <u>919-831-8047</u>
	<u>CELL</u>	PHONE: <u>919-949-1707</u>
CONTACT: _____	<u>OFFICE</u>	PHONE: _____
		PHONE: _____
CONTACT: _____		PHONE: _____
		PHONE: _____
CONTACT: _____		PHONE: _____
		PHONE: _____
DRILLER: _____		PHONE: _____
COMPANY: _____		PHONE: _____

DIRECTIONS TO SITE: _____

GENERAL SITE CONDITIONS/LOCATION: _____

EA#: _____
BOREHOLE DESIGNATION: B-907 LOCATION: _____

COUNTY: _____ RANGE: _____ TOWNSHIP: _____ SECTION: _____
BOREHOLE CONSTRUCTION: CASED _____ UNCASD ☒
DIAMETERS AND DEPTH RANGES: 3.7 0 TO 200'; _____ TO _____
BOREHOLE TOTAL DEPTH AS DRILLED: 200'
CONDUCTOR CASING?: YES ☒ DEPTH TO BOTTOM OF CASING 30'; NO _____
DEPTH TO BEDROCK: NA DEPTH TO WATER TABLE: _____
BOREHOLE FLUID: WATER ☒; FRESH WATER MUD _____; SALT WATER MUD _____;
OTHER: _____
DEPTH TO BOREHOLE FLUID: NA TIME SINCE LAST CIRCULATION: NA



SITE: NORTH ANNA COL B-907 DATE: 8/30/06
CLIENT: MACTEC JOB: 6410
AUTHOR: R. STELLER PAGE 2 OF 5

LOGGING CREW: R. STELLER
VEHICLE(S) USED AND MILEAGE: RENTAL
MOBILIZED FROM: FREDERICKSBURG, VA DEPARTURE TIME: 6:15
ARRIVED ON SITE: 7:45
STANDBY TIME: _____ CAUSE: _____
LOGGING STARTED: 13:40 LOGGING COMPLETED: 15:02
STANDBY TIME: _____ CAUSE: _____
LOGGING STARTED: _____ LOGGING COMPLETED: _____
DEMOBILIZED TO: _____ ARRIVAL TIME: _____
ADDITIONAL DEMOB TIME: _____ REASON: _____

BATTERIES CHANGED BEFORE LOGGING: YES _____; NO ☒; STORED WITH NEW _____
WINCH _____ COMPROBE ☐ GREY ☐ OYO ☐ RG ☐ OTH ☒
INSTRUMENT OYO 12004 ☐ 15014 ☐ 19029 ☐ RG 160023 ☒ 160024 ☐
RECEIVER S/N 12008 ☐ 20042 ☐ 26066 ☐ 11001 ☐ 23053 ☐ 30086 ☒

MAINTENANCE PERFORMED ON SITE: _____

EQUIPMENT PROBLEMS OR FAILURES: _____

SUGGESTIONS, ADDITIONS, CHANGES: _____

COMMENTS: DEPTH REFERENCE = 2.5m - 0.63m = 1.87m
ZERO ON EXIT = 1.86m

SITE: NORTH ANNA COL B-907 DATE: 2/30/06
CLIENT: MACTEC JOB: 6410
AUTHOR: R. STELLER PAGE 3 OF 5

DEPTH METERS	DEPTH FEET	UNFILTERED FILE NO.	FILTERED FILE NO.	COMMENTS CASING, WATER, ROCK, ETC
0.5	1.64			
1.0	3.28			
1.5	4.92			
2.0	6.56			
2.5	8.20			
3.0	9.84			
3.5	11.48			
4.0	13.12			
4.5	14.76			
5.0	16.40			
5.5	18.04			
6.0	19.69			
6.5	21.33			
7.0	22.97			
7.5	24.61			
8.0	26.25			
8.5	27.89			
9.0	29.53			
9.5	31.17			
10.0	32.81			
10.5	34.45			
11.0	36.09			
11.5	37.73	001		5" PVC CASING TO 28'
12.0	39.37	2		
12.5	41.01	3		
13.0	42.65	4		
13.5	44.29	5		
14.0	45.93	6		
14.5	47.57	7		
15.0	49.21	8		
15.5	50.85	9		
16.0	52.49	10		
16.5	54.13	11		
17.0	55.77	12		
17.5	57.41	13		
18.0	59.06	14		
18.5	60.70	15		
19.0	62.34	16		
19.5	63.98	17		
20.0	65.62	18		

GEOVISION SUSPENSION LOGGING

SITE: NORTH ANNA COL B-907 DATE: 8/30/06
CLIENT: MACTEC JOB: 6410
AUTHOR: R. STELLER PAGE 4 OF 5

DEPTH METERS	DEPTH FEET	UNFILTERED FILE NO.	FILTERED FILE NO.	COMMENTS CASING, WATER, ROCK, ETC
-----------------	---------------	------------------------	----------------------	--------------------------------------

20.5	67.26	19, 20		use #20
21.0	68.90	21		
21.5	70.54	22		
22.0	72.18	23		
22.5	73.82	24		
23.0	75.46	25		
23.5	77.10	26		
24.0	78.74	27		
24.5	80.38	28		
25.0	82.02	29		
25.5	83.66	30		
26.0	85.30	31		
26.5	86.94	32		
27.0	88.58	33		
27.5	90.22	34		
28.0	91.86	35		
28.5	93.50	36		
29.0	95.14	37		
29.5	96.78	38		
30.0	98.43	39		
30.5	100.07	40		
31.0	101.71	41		
31.5	103.35	42		
32.0	104.99	43 43 RAS	8/30/06	
32.5	106.63	44		
33.0	108.27	45		
33.5	109.91	46		
34.0	111.55	47		
34.5	113.19	48		
35.0	114.83	49		
35.5	116.47	50		
36.0	118.11	51		
36.5	119.75	52		
37.0	121.39	53		
37.5	123.03	54		
38.0	124.67	55		
38.5	126.31	56		
39.0	127.95	57		
39.5	129.59	58		
40.0	131.23	59		

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: NORTH ANNA COL B-907 DATE: 8/30/06
CLIENT: MACTEC JOB: 6410
AUTHOR: R. STELLER PAGE 5 OF 5

DEPTH METERS	DEPTH FEET	UNFILTERED FILE NO.	FILTERED FILE NO.	COMMENTS CASING, WATER, ROCK, ETC
-----------------	---------------	------------------------	----------------------	--------------------------------------

40.5	132.87	60		
41.0	134.51	61		
41.5	136.15	62		41.5 str. PRED
42.0	137.80	62 62		
42.5	139.44	63 63		
43.0	141.08	64 64		
43.5	142.72	65 65		
44.0	144.36	66 66		
44.5	146.00	67 67		
45.0	147.64	68 68		
45.5	149.28	69 69		
46.0	150.92	70 70		
46.5	152.56	71 71	2AS 8/30/06	
47.0	154.20	72 72		
47.5	155.84	73 73		
48.0	157.48	74 74		
48.5	159.12	75 75		
49.0	160.76	76 76		
49.5	162.40	77 77		
50.0	164.04	78 78		
50.5	165.68	79 79		US# 80
51.0	167.32	80		
51.5	168.96	81		
52.0	170.60	82		
52.5	172.24	83		
53.0	173.88	84		
53.5	175.52	85		
54.0	177.17	86		
54.5	178.81	87		
55.0	180.45	88		
55.5	182.09	89		
56.0	183.73	90		
56.5	185.37	91		
57.0	187.01			
57.5	188.65			BOTTOM MEASUREMENT?
58.0	190.29			HIT BOTTOM @ 56.0 m. =>
58.5	191.93			TYPE 195.8'
59.0	193.57			
59.5	195.21			
60.0	196.85			



B-907 CALIPER FIELD LOG

SITE: NORTH ANNA COL DATE: 8/30/06
CLIENT: MACTEC JOB: 6410
AUTHOR: R. STELLER PAGE 1 OF 2

CONTACT: _____	OFFICE PHONE: _____
	CELL PHONE: _____
CONTACT: _____	OFFICE PHONE: _____
	PHONE: _____
CONTACT: _____	PHONE: _____
	PHONE: _____
CONTACT: _____	PHONE: _____
	PHONE: _____
DRILLER: _____	PHONE: _____
COMPANY: _____	PHONE: _____

GENERAL SITE CONDITIONS/LOCATION: _____

BOREHOLE DESIGNATION: B-907 LOCATION: _____

COUNTY: _____ RANGE: _____ TOWNSHIP: _____ SECTION: _____
BOREHOLE CONSTRUCTION: CASED _____ UNCASD ☒
DIAMETERS AND DEPTH RANGES: 3.7 0 TO 200'; _____ TO _____
BOREHOLE TOTAL DEPTH AS DRILLED: 200'
CONDUCTOR CASING?: YES ☒ DEPTH TO BOTTOM OF CASING _____; NO _____
DEPTH TO BEDROCK: NA DEPTH TO WATER TABLE: _____
BOREHOLE FLUID: WATER ☒; FRESH WATER MUD _____; SALT WATER MUD _____;
OTHER: _____
DEPTH TO BOREHOLE FLUID: NA TIME SINCE LAST CIRCULATION: NA

LOGGING CREW: R. STELLER
VEHICLE(S) USED AND MILEAGE: RENTAL
MOBILIZED FROM: Fedex Business, VA DEPARTURE TIME: 6:15
ARRIVED ON SITE: 7:45
STANDBY TIME: _____ CAUSE: _____
LOGGING STARTED: 15:35 LOGGING COMPLETED: 17:12

SITE: NORTH ANNA COL B-907 DATE: 8/30/06
CLIENT: MACTEC JOB: 6410
AUTHOR: R. STELLER PAGE 2 OF 2

WINCH: _____ COMPROBE _____ SILVER ☒ OYO _____ OTHER _____
MICROLOGGER 5301 ☒ OTHER _____
CALIPER PROBE 5368 ☒ OTHER _____

PROBE OFFSET	12 IN MAX 2.08M(6.82 FT)	24 IN MAX
CASING STICK-UP	ARMS - <u>2.08</u>	ARMS - _____
DEPTH REF. OFFSET	<u>4.74</u>	
	<u>2.20 AT END</u>	<u>4.80</u>

LOG NAME	START DEPTH	START TIME	END DEPTH	END TIME
B907CALTEST01	Ø	15:35	Ø	15:40
B907CALUP01	188.0	15:47	10'	16:11
B907CALTEST02	Ø	16:30	Ø	16:35
B907CALUP02	182.0	16:45	1.0'	17:06
B907CALTEST03	Ø	17:08	Ø	17:12

CALIBRATION PLATE S/N 201

		AS BUILT		
		1.968 IN	3.937 IN	8.000 IN
		(50 MM)	(100 MM)	203.2 MM
AS MEAS.	FILE NAME			
AS MEAS.	B907CALTEST01	1.99	3.94	8.01
AS MEAS.	B907CALTEST02	2.03	3.93	8.00
AS MEAS.	B907CALTEST03	2.03	3.95	8.01
AS MEAS.				
AS MEAS.				
AS MEAS.				

PVC COUPLING
4.507 IN
4.52
4.56
4.55

MAINTENANCE PERFORMED ON SITE: CALIPER ARMS CLOGGED WITH SAND
ON B907CALUP01. CLEANED, TESTED BEFORE B907CALUP02

EQUIPMENT PROBLEMS OR FAILURES: _____

SUGGESTIONS, ADDITIONS, CHANGES: HIT BOTTOM @ 188.6' ON B907CALUP01
HIT BOTTOM @ 182.6' ON B907CALUP02



LOGGING CREW: R. STELLER

[illegible]



B-907 ELOG FIELD LOG

SITE: NORTH ANNA COL DATE: 8/31/06
CLIENT: MACTEC JOB: 6410
AUTHOR: R. STELLER PAGE 1 OF 2

CONTACT: _____	OFFICE PHONE: _____
CONTACT: _____	CELL PHONE: _____
CONTACT: _____	OFFICE PHONE: _____
CONTACT: _____	PHONE: _____
CONTACT: _____	PHONE: _____
CONTACT: _____	PHONE: _____
CONTACT: _____	PHONE: _____
CONTACT: _____	PHONE: _____
DRILLER: _____	PHONE: _____
COMPANY: _____	PHONE: _____

GENERAL SITE CONDITIONS/LOCATION: _____

BOREHOLE DESIGNATION: B-907 LOCATION: _____

COUNTY: _____ RANGE: _____ TOWNSHIP: _____ SECTION: _____
BOREHOLE CONSTRUCTION: CASED _____ UNCASD ☒
DIAMETERS AND DEPTH RANGES: _____ 0 TO _____; _____ TO _____
BOREHOLE TOTAL DEPTH AS DRILLED: 200'
CONDUCTOR CASING?: YES ☒ DEPTH TO BOTTOM OF CASING 38'; NO _____
DEPTH TO BEDROCK: NA DEPTH TO WATER TABLE: NA
BOREHOLE FLUID: WATER ☒; FRESH WATER MUD _____; SALT WATER MUD _____;
OTHER: _____
DEPTH TO BOREHOLE FLUID: NA TIME SINCE LAST CIRCULATION: NA

LOGGING CREW: R. STELLER
VEHICLE(S) USED AND MILEAGE: RENTAL
MOBILIZED FROM: FEDERAL BUREAU OF SURVEY, VA DEPARTURE TIME: 7:30
ARRIVED ON SITE: 8:30
STANDBY TIME: _____ CAUSE: _____
LOGGING STARTED: 9:22 LOGGING COMPLETED: 10:00

SITE: NORTH ANNA COL B-907 DATE: 8/30/06
CLIENT: MACTEC JOB: 6410
AUTHOR: R. STELLER PAGE 2 OF 2

WINCH: COMPROBE SILVER ☒ OYO OTHER
MICROLOGGER 5301 ☒ OTHER OTHER
ELOG PROBE 5490 ☒ OTHER OTHER

PROBE OFFSET	2.50M(8.20 FT)
CASING STICK-UP	2.08 + 32.8
DEPTH REF. OFFSET	38.92'

ZERO AT EXIT = 38.9'

LOG NAME	START DEPTH	START TIME	END DEPTH	END TIME
B907ELOGTEST01	0	9:22	0	9:26
B907ELOGUP01	170.7'	9:44	38.9	10:00

MAINTENANCE PERFORMED ON SITE: _____

EQUIPMENT PROBLEMS OR FAILURES: _____

SUGGESTIONS, ADDITIONS, CHANGES: HIT BOTTOM @ 170.7' ON RUN DOWN.
HOLE LOSS ANOTHER ~ 10' SINCE 8/29/06.!



B-987

TELEVIEWER FIELD LOG

SITE: NORTH ANNA COL DATE: 8/31/06
CLIENT: MACTEC JOB: 6410
AUTHOR: R. STELLER PAGE 1 OF 2

CONTACT: OFFICE PHONE:
CELL PHONE:
CONTACT: OFFICE PHONE:
PHONE:
CONTACT: PHONE:
PHONE:
CONTACT: PHONE:
PHONE:
PHONE:
DRILLER: PHONE:
COMPANY: PHONE:

DIRECTIONS TO SITE:

GENERAL SITE CONDITIONS/LOCATION:

BOREHOLE DESIGNATION: B-987 LOCATION:

COUNTY: RANGE: TOWNSHIP: SECTION:
BOREHOLE CONSTRUCTION: CASED UNCASD ✓
DIAMETERS AND DEPTH RANGES: 3-7 0 TO 200' ; TO
BOREHOLE TOTAL DEPTH AS DRILLED: 200' 43.5' RAS 8/30/06
CONDUCTOR CASING?: YES ✓ DEPTH TO BOTTOM OF CASING 30' ; NO
DEPTH TO BEDROCK: NA DEPTH TO WATER TABLE: NA
BOREHOLE FLUID: WATER ✓ ; FRESH WATER MUD ; SALT WATER MUD ;
OTHER:
DEPTH TO BOREHOLE FLUID: 27.5' TIME SINCE LAST CIRCULATION: NA
RAS 8/30/06



SITE: NORTH ANNA COL B-907 DATE: 8/31/06
CLIENT: MACTEC JOB: 6410
AUTHOR: R. STELLER PAGE 2 OF 2

LOGGING CREW: R. STELLER
VEHICLE(S) USED AND MILEAGE: RENTAL
MOBILIZED FROM: FREDERICKSBURG, VA DEPARTURE TIME: 7:30
ARRIVED ON SITE: 8:30
STANDBY TIME: CAUSE:
LOGGING STARTED: LOGGING COMPLETED:

WINCH: COMPROBE SILVER ☒ OYO OTHER
MICROLOGGER 5301 ☒ OTHER
TELEVIEWER OPTICAL #5117 ACOUSTIC #5174 ☒ OTHER

PROBE TILT TEST 85.80 BRUNTON TILT 86.0
PROBE AZIMUTH TEST 331.4 BRUNTON AZIMUTH 327

PROBE OFFSET	OPTICAL 1.88M(6.17FT)	ACOUSTIC 1.44M(4.72FT)
CASING STICK-UP	-	- <u>2.08</u>
DEPTH REF. OFFSET		<u>2.64'</u>

DEPTH REFERENCE IN BHT = 2.64'

LOG NAME	START DEPTH	START TIME	END DEPTH	END TIME
B907A44P 01	158.3'	10:33	1.50'	11:21
B907A44DOWN 01	140.0	11:25	167.2	11:36
B907A44UP 02	167.2	11:39	150.0	11:45

MAINTENANCE PERFORMED ON SITE:

EQUIPMENT PROBLEMS OR FAILURES:

SUGGESTIONS, ADDITIONS, CHANGES: AT TOP OF RUN GAIN=12 DB,
BLANKING = 140 SEC WINDOW = 80 SEC
POS.

FOR 3" CASING GAIN = 11 DB ; BLANKING = 145 SEC WINDOW = 80 SEC



LOGGING CREW: R. STELLER

[illegible]



B-907 CALIPER FIELD LOG

SITE: NORTH ANNA COL DATE: 9/11/06
CLIENT: MACTEC JOB: 6410
AUTHOR: R. STELLER PAGE 1 OF 2

CONTACT: _____	OFFICE PHONE: _____
	CELL PHONE: _____
CONTACT: _____	OFFICE PHONE: _____
	PHONE: _____
CONTACT: _____	PHONE: _____
	PHONE: _____
CONTACT: _____	PHONE: _____
	PHONE: _____
DRILLER: _____	PHONE: _____
COMPANY: _____	PHONE: _____

GENERAL SITE CONDITIONS/LOCATION: _____

BOREHOLE DESIGNATION: B-907 LOCATION: _____

COUNTY: _____ RANGE: _____ TOWNSHIP: _____ SECTION: _____
BOREHOLE CONSTRUCTION: CASED _____ UNCASD ☒
DIAMETERS AND DEPTH RANGES: 5" 0 TO 39.5' ; 3.7" , 39.5 TO 200'
BOREHOLE TOTAL DEPTH AS DRILLED: 200'
CONDUCTOR CASING?: YES _____ DEPTH TO BOTTOM OF CASING _____ ; NO ☒
DEPTH TO BEDROCK: 39.5' DEPTH TO WATER TABLE: _____
BOREHOLE FLUID: WATER _____ ; FRESH WATER MUD ☒ ; SALT WATER MUD _____ ;
OTHER: _____
DEPTH TO BOREHOLE FLUID: 0' TIME SINCE LAST CIRCULATION: 1/6 HR

LOGGING CREW: R. STELLER
VEHICLE(S) USED AND MILEAGE: RENTAL
MOBILIZED FROM: FEDERAL BUREAU, VA DEPARTURE TIME: 6:30
ARRIVED ON SITE: 8:00
STANDBY TIME: _____ CAUSE: _____
LOGGING STARTED: 10:50 LOGGING COMPLETED: 12:40

SITE: NORTH ANNA COL B-907 DATE: 9/11/06
CLIENT: MACTEC JOB: 6410
AUTHOR: R. STELLER PAGE 2 OF 2

WINCH: COMPROBE SILVER ☒ OYO OTHER
MICROLOGGER 5301 ☒ OTHER
CALIPER PROBE 5368 ☒ OTHER

PROBE OFFSET	12 IN MAX 2.08M(6.82 FT)	24 IN MAX
CASING STICK-UP	ARMS - <u>1.75</u>	ARMS -
DEPTH REF. OFFSET	<u>5.07</u>	

LOG NAME	START DEPTH	START TIME	END DEPTH	END TIME
B907CALTEST 04	<u>0</u>	<u>10:50</u>	<u>0</u>	<u>10:55</u>
B907CALTEST 03	<u>0.0</u>	<u>12:25</u>	<u>0</u>	<u>12:33</u>
B907CALTEST 05	<u>0</u>	<u>12:35</u>	<u>0</u>	<u>12:40</u>

CALIBRATION PLATE S/N 201

	FILE NAME	AS BUILT		
		1.968 IN (50 MM)	3.937 IN (100 MM)	8.000 IN 203.2 MM
AS MEAS.	B907CALTEST 04	<u>1.99</u>	<u>3.96</u>	<u>7.99</u>
AS MEAS.	B907CALTEST 05	<u>2.02</u>	<u>3.97</u>	<u>7.99</u>
AS MEAS.		<u>2.03 7/16</u>		
AS MEAS.				
AS MEAS.				
AS MEAS.				

Avg comping
4.507 IN.

4.53
4.54

MAINTENANCE PERFORMED ON SITE: _____

EQUIPMENT PROBLEMS OR FAILURES: _____

SUGGESTIONS, ADDITIONS, CHANGES: _____



P-S SUSPENSION VELOCITY FIELD LOG

SITE: NORTH ANNA COL B-907 DATE: 9/11/06
CLIENT: MACTEC JOB: 6410
AUTHOR: R. STELLER PAGE 1 OF 3

CONTACT: STEVE CRISCENZO OFFICE PHONE: 919-831-8047
CELL PHONE: 919-949-1707
CONTACT: OFFICE PHONE:
PHONE:
CONTACT: PHONE:
PHONE:
CONTACT: PHONE:
PHONE:
DRILLER: PHONE:
COMPANY: PHONE:

DIRECTIONS TO SITE:

GENERAL SITE CONDITIONS/LOCATION: _____

EA#: _____
BOREHOLE DESIGNATION: B-907 LOCATION: _____
COUNTY: _____ RANGE: _____ TOWNSHIP: _____ SECTION: _____
BOREHOLE CONSTRUCTION: CASED _____ UNCASD ☒
DIAMETERS AND DEPTH RANGES: 5" 0 TO 38.5"; 3.7", 38.5 TO 200'
BOREHOLE TOTAL DEPTH AS DRILLED: 200'
CONDUCTOR CASING?: YES _____ DEPTH TO BOTTOM OF CASING _____; NO ☒
DEPTH TO BEDROCK: 38.5' DEPTH TO WATER TABLE: NA
BOREHOLE FLUID: WATER _____; FRESH WATER MUD ☒; SALT WATER MUD _____;
OTHER: _____
DEPTH TO BOREHOLE FLUID: 0 TIME SINCE LAST CIRCULATION: 1/2 hr



SITE: NORTH ANNA COL B-907 DATE: 9/11/06
CLIENT: MACTEC JOB: 6410
AUTHOR: R. STELLER PAGE 2 OF 3

LOGGING CREW: R. STELLER
VEHICLE(S) USED AND MILEAGE: RENTAL
MOBILIZED FROM: FARMSPACES Bldg, VA DEPARTURE TIME: 6:30
ARRIVED ON SITE: 8:00
STANDBY TIME: CAUSE:
LOGGING STARTED: 13:23 12:35 LOGGING COMPLETED: 13:28
STANDBY TIME: RDS 9/11/06 CAUSE:
LOGGING STARTED: LOGGING COMPLETED:
DEMOLIBIZED TO: ARRIVAL TIME:
ADDITIONAL DEMOB TIME: REASON:

BATTERIES CHANGED BEFORE LOGGING: YES ☐; NO ☒; STORED WITH NEW
WINCH COMPROMISE ☐ GREY ☐ OYO ☐ RG ☐ OTH ☒
INSTRUMENT OYO 12004 ☐ 15014 ☐ 19029 ☐ RG 160023 ☒ 160024 ☐
RECEIVER S/N 12008 ☐ 20042 ☐ 26066 ☐ 11001 ☐ 23053 ☐ 30086 ☒

MAINTENANCE PERFORMED ON SITE:

EQUIPMENT PROBLEMS OR FAILURES:

SUGGESTIONS, ADDITIONS, CHANGES:

COMMENTS: DEPTH 2820 = 2.5 - .53 = 2.0m

SITE: NORTH ANNA COL B-907 DATE: 9/11/06
CLIENT: MACTEC JOB: 6410
AUTHOR: R. STELLER PAGE 3 OF 3

DEPTH METERS	DEPTH FEET	UNFILTERED FILE NO.	FILTERED FILE NO.	COMMENTS CASING, WATER, ROCK, ETC
0.5	1.64	301		
1.0	3.28	302		
1.5	4.92	303		
2.0	6.56	304		
2.5	8.20	305		
3.0	9.84	306		
3.5	11.48	307		
4.0	13.12	308		
4.5	14.76	309		
5.0	16.40	310		
5.5	18.04	311		
6.0	19.69	312		
6.5	21.33	313		
7.0	22.97	314		
7.5	24.61	315		
8.0	26.25	316		
8.5	27.89	317		
9.0	29.53	318		
9.5	31.17	319		
10.0	32.81	320		
10.5	34.45	321		
11.0	36.09	322		
11.5	37.73	323		
12.0	39.37	324		
12.5	41.01	325		
13.0	42.65	326		
13.5	44.29	327		
14.0	45.93	328		
14.5	47.57	329		
15.0	49.21	330		
15.5	50.85	331		
16.0	52.49	332		
16.5	54.13	333		
17.0	55.77	334		
17.5	57.41	335		
18.0	59.06	336		
18.5	60.70	337		
19.0	62.34	338		
19.5	63.98	339		
20.0	65.62	340		



B-907 ELOG FIELD LOG

SITE: NORTH ANNA COL DATE: 9/11/06
CLIENT: MACTEC JOB: 6410
AUTHOR: R. STELLER PAGE 1 OF 2

CONTACT: _____	OFFICE PHONE: _____
_____	CELL PHONE: _____
CONTACT: _____	OFFICE PHONE: _____
_____	PHONE: _____
CONTACT: _____	PHONE: _____
_____	PHONE: _____
CONTACT: _____	PHONE: _____
_____	PHONE: _____
DRILLER: _____	PHONE: _____
COMPANY: _____	PHONE: _____

GENERAL SITE CONDITIONS/LOCATION: _____

BOREHOLE DESIGNATION: B-907 LOCATION: _____

COUNTY: _____ RANGE: _____ TOWNSHIP: _____ SECTION: _____

BOREHOLE CONSTRUCTION: CASED _____ UNCASD ☒

DIAMETERS AND DEPTH RANGES: 5" 0 TO 38.5' ; 5.7" 38.5' TO 200'

BOREHOLE TOTAL DEPTH AS DRILLED: 200'

CONDUCTOR CASING?: YES _____ DEPTH TO BOTTOM OF CASING _____; NO ☒

DEPTH TO BEDROCK: 38.5' DEPTH TO WATER TABLE: NA

BOREHOLE FLUID: WATER _____; FRESH WATER MUD ☒; SALT WATER MUD _____;

OTHER: _____

DEPTH TO BOREHOLE FLUID: Ø TIME SINCE LAST CIRCULATION: 1/2 H

LOGGING CREW: R. STELLER

VEHICLE(S) USED AND MILEAGE: RENTAL

MOBILIZED FROM: PRINCE GEORGE, VA DEPARTURE TIME: 6:30

ARRIVED ON SITE: 8:00

STANDBY TIME: _____ CAUSE: _____

LOGGING STARTED: 11:08 LOGGING COMPLETED: 13:55

SITE: NORTH ANNA COL B-907 DATE: 9/11/06
CLIENT: MACTEC JOB: 6410
AUTHOR: R. STELLER PAGE 2 OF 2

WINCH: COMPROBE ✓ SILVER ✓ OYO ✓ OTHER ✓
MICROLOGGER 5301 ✓ OTHER ✓
ELOG PROBE 5490 ✓ OTHER ✓

PROBE OFFSET	2.50M(8.20 FT)
CASING STICK-UP	<u>-1.75 + 32.8</u>
DEPTH REF. OFFSET	<u>34.25</u>

LOG NAME	START DEPTH	START TIME	END DEPTH	END TIME
B907ELOGTEST02	0	11:08	0	11:12
B907ELOG4P02	23.0	12:40	25.0	13:55

MAINTENANCE PERFORMED ON SITE: _____

EQUIPMENT PROBLEMS OR FAILURES: 10 AMP METER SCALE ON LONG NORMAL
NOT INDICATING CORRECTLY. APPEARS TO BE IN TEST BOX. WHEN LONG &
SHORT N ARE SWAPPED SHORT DOES NOT INDICATE CORRECTLY.
SUGGESTIONS, ADDITIONS, CHANGES: _____