



B-907 BORING GEOPHYSICS FIELD LOG SUMMARY

SITE: NORTH ANNA COL DATE: 8/30/06
 CLIENT: MACTEC JOB: 6410
 AUTHOR: R. STELLER PAGE 1 OF 21 RAA

CONTACT: STEVE CRISCENZO PHONE: 919-949-1707

BOREHOLE CONSTRUCTION: CASED _____ UNCASSED
 DIAMETERS AND DEPTH RANGES: 3.7 0 TO 200'; _____ TO _____
 BOREHOLE TOTAL DEPTH AS DRILLED: 200'
 CONDUCTOR CASING?: YES DEPTH TO BOTTOM OF CASING ≈ 38'; NO _____
 DEPTH TO BEDROCK: NA
 BOREHOLE FLUID: WATER ; FRESH WATER MUD _____; SALT WATER MUD _____

LOGGING CREW: R. STELLER

LOG TYPE	FILE NAME	DEPTH RANGE	DATE	TIMES
SUSPENSION TS.	B907_001 - 091.006	37.7 - 183.7	8/30/06	13:40 - 15:02
CALIPER TEST	B907 CAL TEST 01	0'	"	15:35 - 15:40
CALIPER/GAMMA	B907 CAL UP 01	188.0 - 1.0'	"	15:47 - 16:11
CALIPER TEST	B907 CAL TEST 02	0'	"	16:30 - 16:35
CALIPER/GAMMA	B907 CAL UP 02	182.0' - 1.0'	"	16:45 - 17:00
CALIPER TEST	B907 CAL TEST 03	0'	"	17:08 - 17:12



P-S SUSPENSION VELOCITY FIELD LOG

SITE: NORTH ANNA COL B-907 DATE: 8/30/06
CLIENT: MACTEC JOB: 6410
AUTHOR: R. STELLER PAGE 1 OF 5

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 _____ UNCASED
DIAMETERS AND DEPTH RANGES: 3.75 0 TO 200'; _____ 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: _____
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: 8/30/06
 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 FILE #

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
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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
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40.5	132.87	60		
41.0	134.51	61		
41.5	136.15	62		41.5 STOPPED
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	80, 79		US# 80
51.0	167.32	81		
51.5	168.96	82		
52.0	170.60	83		
52.5	172.24	84		
53.0	173.88	85		
53.5	175.52	86		
54.0	177.17	87		
54.5	178.81	88		
55.0	180.45	89		
55.5	182.09	90		
56.0	183.73	91		
56.5	185.37			
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: G410
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	- 2.08	ARMS - _____
DEPTH REF. OFFSET	4.74	
	2.20 AT EXIT	4.80

LOG NAME	START DEPTH	START TIME	END DEPTH	END TIME
B907CALTEST01	Ø	15:35	Ø	15:40
B907CALUP01	188.0	15:47	60'	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		
FILE NAME		1.968 IN (50 MM)	3.937 IN (100 MM)	8.000 IN 203.2 MM
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



B-907 **BORING GEOPHYSICS FIELD LOG SUMMARY**

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

CONTACT: STEVE CRISCENZO PHONE: 919-949-1707

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 43.5'; NO
 DEPTH TO BEDROCK: 43'
 BOREHOLE FLUID: WATER ; FRESH WATER MUD ; SALT WATER MUD ;

LOGGING CREW: R. STELLER

LOG TYPE	FILE NAME	DEPTH RANGE	DATE	TIMES
ELOG TEST	B907ELOGTEST01	∅	8/31/06	9:22 - 9:26
ELOG/Gamma	B907ELOGCAP01	170.7' - 38.9'	"	9:40 - 10:00
Acoustic TV	B907AMUP01	158.3' - 1.5'	"	10:33 - 11:21
"	B907AMDOWN01	140.0' - 167.2'	"	11:25 - 11:36
"	B907AMUP02	167.2' - 150.0'	"	11:39 - 11:45



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: _____
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 _____ UNCASED
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
 ELOG PROBE 5490 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: _____
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' 435' 200' 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: NA 27.5' TIME SINCE LAST CIRCULATION: NA

200' 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 0580 BRUNTON TILT 06.0
 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 W/ EXT = 2.64'

LOG NAME	START DEPTH	START TIME	END DEPTH	END TIME
<u>B907 AN UP 01</u>	<u>158.3'</u>	<u>10:33</u>	<u>1.50'</u>	<u>11:21</u>
<u>B907 AN DOWN 01</u>	<u>140.0</u>	<u>11:25</u>	<u>167.2</u>	<u>11:36</u>
<u>B907 AN UP 02</u>	<u>167.2</u>	<u>11:39</u>	<u>150.0</u>	<u>11:45</u>

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



B - 907 **BORING GEOPHYSICS FIELD LOG SUMMARY**

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

CONTACT: STEVE CRISCENZO PHONE: 919-949-1707

BOREHOLE CONSTRUCTION: CASED UNCASSED
 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'
 BOREHOLE FLUID: WATER _____ ; FRESH WATER MUD ; SALT WATER MUD _____

LOGGING CREW: R. STELLER

LOG TYPE	FILE NAME	DEPTH RANGE	DATE	TIMES
CALIPER TEST	B907CALTEST04	Ø	9/11/06	10:50 - 10:55
CALIPER/GAMMA	B907CALUP03	80.0 - Ø	"	12:25 - 12:33
CALIPER TEST	B907CALTEST05	Ø	"	12:35 - 12:40
SUSPENSION TS	B907.301 → 340.028	1.6' - 65.6'	"	12:55 - 13:28
ELOG TEST	B907ELOGTEST02	Ø	"	11:08 - 11:12
ELOG/GAMMA	B907ELOGUP02	83.0 - 25.0'	"	13:48 - 13:55



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 _____ UNCASED
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: FEDERALSBURG, 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
<u>B907CALTEST 04</u>	<u>0</u>	<u>10:50</u>	<u>0</u>	<u>10:55</u>
<u>B907CALTEST 03</u>	<u>0.0</u>	<u>12:25</u>	<u>0</u>	<u>12:33</u>
<u>B907CALTEST 05</u>	<u>0</u>	<u>12:35</u>	<u>0</u>	<u>12:40</u>

CALIBRATION PLATE S/N 201		AS BUILT		
FILE NAME		1.968 IN (50 MM)	3.937 IN (100 MM)	8.000 IN 203.2 MM
AS MEAS.	<u>B907CALTEST 04</u>	<u>1.99</u>	<u>3.96</u>	<u>7.99</u>
AS MEAS.	<u>B907CALTEST 05</u>	<u>2.02</u>	<u>3.97</u>	<u>7.99</u>
AS MEAS.		<u>AS 9/11/06</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: ∅ 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: _____
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 282.0 = 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 C

LOGGING CREW: R. STELLER
VEHICLE(S) USED AND MILEAGE: RENTAL
MOBILIZED FROM: PREPARED CONSULTING, 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	-1.75 + 32.8
DEPTH REF. OFFSET	39.25

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 MILLIMETER SCALE ON LONG NORMAL NOT INDICATING CORRECTLY. APPEARS TO BE IN TEXT BOX. WHEN LONG & SHORT N ARE SWAPPED SHORT DOES NOT INDICATE CORRECTLY.
 SUGGESTIONS, ADDITIONS, CHANGES: _____