



M-30BH BORING GEOPHYSICS FIELD LOG SUMMARY

Borehole*

SITE*: North Anna
CLIENT*: MACTEC
AUTHOR*: C. Carter

DATE*: 9/15/09, 9/16/09
JOB*: 9333
PAGE*: 1 OF 1

CONTACT: _____ PHONE: _____

BOREHOLE CONSTRUCTION: CASSED _____ UNCASSED X
DIAMETERS AND DEPTH RANGES: 3.78" 0 TO 102.7 ft; _____ TO _____
BOREHOLE TOTAL DEPTH AS DRILLED*: 102.7 ft
SURFACE CASING?: YES X DEPTH TO BOTTOM OF CASING 44 ft; NO _____
DEPTH TO BEDROCK: 45 ft
BOREHOLE FLUID: WATER _____; FRESH WATER MUD X; SALT WATER MUD _____

LOGGING CREW: C. Carter, V. Gonzalez

LOG TYPE*	FILE NAME*	DEPTH RANGE*	DATE*	TIMES*
ELOG	M30DH ELOGTEST01	NA	9/15/09	3:05 - 3:07 pm
ELOG	M30DH ELOGUP01	200.45 - 39.55 ft	9/15/09	3:49 - 4:05 pm
P-S Velocity	M30DH SUSPDOWN01	14.0 - 57.0	9/15/09	
ELOG	M30DH ELOGUP02	75 - 39.85 ft	9/15/09	4:11 - 4:15
P-S Velocity	M30DH SUSPDOWN01	14.0 - 57.0 m	9/15/09	4:52 - 5:40 pm
ATV	M30DH ATVUP01	200.2 - 40.2 ft	9/16/09	9:09 - 10:01 am
ATV	M30DH ATVUP02	55.4 - 41.8 ft	9/16/09	10:05 - 10:08 am
Caliper	M30DH CALTEST01	NA	9/16/09	10:40 - 10:42
Caliper	M30DH CALUP01	200.1 - 33.2 ft	9/16/09	11:30 - 11:46
Caliper	M30DH CALTEST02	NA	9/16/09	12:00 - 12:01

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL

GEOVision Geophysical Services

1151 Piedmont Road, Unit P, Corona, CA 92882

Ph (951) 549-1234 Ex (951) 549-1236

ACOUSTIC TELEVIEWER LOG FORM 1.1.pdf



M-306H ACOUSTIC TELEVIEWER FIELD LOG Rev 1.1

Borehole*

GEOVISION HI-RES ACOUSTIC TELEVIEWER PROCEDURE V1.0

SITE*: North Anna DATE*: 9/16/09
CLIENT*: MACTEC JOB*: 9333
AUTHOR*: C. Carter PAGE 1 OF 2
REVIEWER: _____ (post field work)

CONTACT: _____ PHONE: Off Cell

CONTACT: _____ PHONE: Off Cell

DRILLER: _____ PHONE: Off Cell

COMPANY: _____

GENERAL SITE CONDITIONS/LOCATION: _____

COUNTY: _____ RANGE: _____ TOWNSHIP: _____ SECTION: _____
BOREHOLE CONSTRUCTION: CASED _____ UNCASD X
DIAMETERS AND DEPTH RANGES: 3.78" 0 TO 201.7 ft; _____ TO _____

BOREHOLE TOTAL DEPTH AS DRILLED*: 201.7 ft

SURFACE CASING?: YES X DEPTH TO BOTTOM OF CASING 42 ft; NO _____
DEPTH TO BEDROCK: ~42 ft DEPTH TO WATER TABLE: NA
BOREHOLE FLUID: WATER X; FRESH WATER MUD _____; SALT WATER MUD _____;
OTHER: _____
DEPTH TO BOREHOLE FLUID: 25 ft TIME SINCE LAST CIRCULATION: NA

LOGGING CREW: C. Carter, V. Gonzalez
VEHICLE(S) USED AND MILEAGE: _____
MOBILIZED FROM: Friedricksburg DEPARTURE TIME: 6:15
ARRIVED ON SITE: 7:05
STANDBY TIME: NA CAUSE: _____

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL

ACOUSTIC TELEVIEWER LOG FORM 1.1.pdf



M-30DH ACOUSTIC TELEVIEWER FIELD LOG Rev 1.1

Borehole* GEOVISION HI-RES ACOUSTIC TELEVIEWER PROCEDURE V1.0

SITE*: North Anna DATE*: 9/16/09
CLIENT*: MACTEC JOB*: 9333
AUTHOR*: C. Carter PAGE 2 OF 2
REVIEWER: _____ (post field work)

WINCH: _____ COMPROBE _____ SILVER ☒ OYO _____ OTHER _____
MICROLOGGER* 5310 _____ 5772 ☒ 9/16/09
TELEVIEWER* ACOUSTIC #5174 ☒ OTHER 6641
SHEAVE* COMPROBE _____ OYO 101 _____ 102 ☒ 103 _____ RG _____

cc 9/16/09 PROBE TILT TEST* 93 BRUNTON TILT* 93
cc 9/16/09 PROBE TILT TEST* 14.32 88.7 BRUNTON TILT* 281 cc 9/16/09 14
PROBE TILT TEST* 12.42 BRUNTON TILT* 13 AFTER LOG* yes
PROBE AZIMUTH TEST* 288.70 BRUNTON AZIMUTH* 281
cc 9/16/09 PROBE AZIMUTH TEST* 14.39 10.10 BRUNTON AZIMUTH* 14 10 cc 9/16/09
PROBE AZIMUTH TEST* 351.40 BRUNTON AZIMUTH* 350 AFTER LOG* yes

PROBE OFFSET*	1.44M(4.72FT)	} REF TO GROUND SURFACE
MINUS CASING STICK-UP*	<u>1.08</u>	
DEPTH REF. OFFSET AT START*	<u>3.64</u>	
DEPTH REF. OFFSET AT END*	<u>3.62</u>	
AFTER SURVEY DEPTH ERROR*	<u>.02</u>	

LOG NAME*	START DEPTH*	START TIME	END DEPTH*	END TIME
<u>M30DHADUP01</u>	<u>200.2</u>	<u>9:09</u>	<u>40.2</u>	<u>10:07</u>
<u>M30DHADUP02</u>	<u>55.4</u>	<u>10:05</u>	<u>41.8</u>	<u>10:08</u>

MAINTENANCE PERFORMED ON SITE*: NA (N/A if none)

DEVIATION FROM PROCEDURE (IF ANY) OR EQUIPMENT PROBLEMS OR FAILURES*(N/A if none)

NA

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL



CALIPER FIELD LOG REV 1.2.PDF

M-30DH
Borehole*

CALIPER FIELD LOG
Procedure ASTM D6167-97(2004)

SITE*: North Anna DATE*: 9/16/2009
CLIENT*: Mactec JOB*: 1333
AUTHOR*: V. Gonzalez PAGE: 1 OF 2

CONTACT: _____ PHONE: Off Cell

CONTACT: _____ PHONE: Off Cell

CONTACT: _____ PHONE: Off Cell

DRILLER _____ PHONE: Off Cell
COMPANY: _____

GENERAL SITE CONDITIONS/LOCATION: _____

COUNTY: _____ RANGE: _____ TOWNSHIP: _____ SECTION: _____
BOREHOLE CONSTRUCTION: CASED _____ UNCASD _____
DIAMETERS AND DEPTH RANGES: 3.75" 0 TO 201.7 ft; _____ TO _____

BOREHOLE TOTAL DEPTH AS DRILLED*: 201.7 ft

SURFACE CASING?: YES x DEPTH TO BOTTOM OF CASING 42 ft; NO _____
DEPTH TO BEDROCK: 42 ft DEPTH TO WATER TABLE: NA
BOREHOLE FLUID: WATER x; FRESH WATER MUD _____; SALT WATER MUD _____;
OTHER: _____
DEPTH TO BOREHOLE FLUID: 25 ft TIME SINCE LAST CIRCULATION: N/A

LOGGING CREW: V. Gonzalez, C. Carter
VEHICLE(S) USED AND MILEAGE: _____
MOBILIZED FROM: Fredericksburg DEPARTURE TIME: 6:15
ARRIVED ON SITE: 7:15
STANDBY TIME: N/A CAUSE: _____

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL



CALIPER FIELD LOG REV 1.2.PDF

M-30DH

Borehole*

CALIPER FIELD LOG

Procedure ASTM D6167-97(2004)

SITE*: North Anna DATE*: 9/16/2009
CLIENT*: Mactec JOB*: 9333
AUTHOR*: V. Gonzalez PAGE: PAGE 2 OF 2

WINCH: _____ COMPROBE _____ SILVER ☒ OYO _____ RG _____ OTHER _____
MICROLOGGER* 5310 ☐ 5772 ☒ OTHER 6621 6621 12/9/09
CALIPER PROBE* 5368 ☐ OTHER 6621
SHEAVE* COMPROBE ☐ OYO 101 ☐ 102 ☒ 103 ☐ RG ☐

PROBE OFFSET	2.08M(6.82 FT)	12 IN MAX
MINUS CASING STICK-UP*	1.08 FT	} REF TO GROUND SURFACE
DEPTH REF. OFFSET AT START*	5.74 FT	
DEPTH REF. OFFSET AT END*	5.70 FT	
AFTER SURVEY DEPTH ERROR*	0.04 FT	

LOG NAME*	START DEPTH*	START TIME*	END DEPTH*	END TIME*
M30DHCALUP01	200.1	11:30	33.20 FT	11:46
M30DHCALTEST01	N/A	10:40	N/A	10:42
M30DHCALTEST02	N/A	12:00	N/A	12:01

CALIBRATION PLATE S/N 201

FILE NAME	AS BUILT			PVC FITTING
	1.968 IN (50 MM)	3.937 IN (100 MM)	8.000 IN (203.2 MM)	4.504 IN (114.4 MM)
AS MEAS.* M30DHCALTEST01	2.00	3.96	8.02	4.55
AS MEAS.* M30DHCALTEST02	2.00	3.95	8.03	4.56
AS MEAS.				
AS MEAS.				
AS MEAS.				
AS MEAS.				

MAINTENANCE PERFORMED ON SITE*: N/A (N/A if none)

EQUIPMENT PROBLEMS OR FAILURES*: N/A (N/A if none)

SUGGESTIONS, ADDITIONS, CHANGES: _____

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL

GEOVision Geophysical Services

1124 Olympic Drive Corona, CA 92881

Ph (951) 549-1234 Fx (951) 549-1236



LOGGING CREW: C. Carter, V. Gonzalez

[illegible]

Ph (951) 549-1234 Fx (951) 549-1236

ELOG FIELD LOG REV 1.1a



M-30DH
Borehole*

ELOG FIELD LOG

SITE*: North Anna DATE*: 9/17/09
CLIENT*: MACTEC JOB*: 9333
AUTHOR*: C. Carter PAGE: 1 OF 2

CONTACT: _____ PHONE: Off Cell

CONTACT: _____ PHONE: Off Cell

CONTACT: _____ PHONE: Off Cell

CONTACT: _____ PHONE: Off Cell
COMPANY: _____

GENERAL SITE CONDITIONS/LOCATION: _____

COUNTY: _____ RANGE: _____ TOWNSHIP: _____ SECTION: _____
BOREHOLE CONSTRUCTION: CASED _____ UNCASD X
DIAMETERS AND DEPTH RANGES: 3.78" 0 TO 201.7 ft; _____ TO _____

BOREHOLE TOTAL DEPTH AS DRILLED*: 201.7 ft

SURFACE CASING?: YES X DEPTH TO BOTTOM OF CASING 7 ft; NO _____
DEPTH TO BEDROCK: 42 ft DEPTH TO WATER TABLE: ~25 ft
BOREHOLE FLUID: WATER _____; FRESH WATER MUD X; SALT WATER MUD _____;
OTHER: _____

DEPTH TO BOREHOLE FLUID: ~2 ft TIME SINCE LAST CIRCULATION: 9am

LOGGING CREW: C. Carter V. Gonzalez
VEHICLE(S) USED AND MILEAGE: _____
MOBILIZED FROM: Fredricksburg DEPARTURE TIME: 6:15am
ARRIVED ON SITE: 7am
STANDBY TIME: NA CAUSE: _____

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL

GEOVision Geophysical Services

1124 Olympic Drive, Corona, CA 92881

Ph (951) 549-1234 Fx (951) 549-1236

ELOG FIELD LOG REV 1.1a



M-300H

ELOG FIELD LOG

Borehole*

SITE*: North Anna DATE*: 9/17/09
CLIENT*: MACTEC JOB*: 9333
AUTHOR*: C. Cortez PAGE: PAGE 2 OF 2

WINCH: _____ COMPROBE _____ SILVER ☒ OYO _____ RG _____ OTHER _____
MICROLOGGER* 5310 ☐ 5772 ☒ OTHER _____
ELOG PROBE* 5490 ☒ OTHER _____
SHEAVE* COMPROBE ☐ OYO 101 ☐ 102 ☒ 103 ☐ RG ☐

PROBE LENGTH	2.50M (8.20 FT)
PLUS YOKE 10.0M (32.8 FT)*	32.8
MINUS CASING STICK-UP*	-3.35
DEPTH REF. OFFSET AT START*	37.65
DEPTH REF. OFFSET AT END*	37.75
AFTER SURVEY DEPTH ERROR*	.10

REF TO GROUND SURFACE

LOG NAME*	START DEPTH*	START TIME	END DEPTH*	END TIME
M300HELOGTEST02	NA	8:34	NA	8:35am
M300HELOGUP03	65.4 ft	9:17	34.7 ft	9:20am

MAINTENANCE PERFORMED ON SITE*: NA (N/A if none)

EQUIPMENT PROBLEMS OR FAILURES*: NA (N/A if none)

SUGGESTIONS, ADDITIONS, CHANGES: _____

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL

P-S FIELD LOG REV V1.4



M-300H

P-S SUSPENSION VELOCITY FIELD LOG REV 1.4

Borehole

CORRESPONDING P-S SUSPENSION PROCEDURE REV 1.4.

SITE*: North Anna DATE*: 9/17/09
CLIENT*: MACTEC JOB*: 9333
AUTHOR*: Carter PAGE 1 OF * 3

CONTACT: _____ PHONE: Off Cell _____
CONTACT: _____ PHONE: Off Cell _____
CONTACT: _____ PHONE: Off Cell _____
CONTACT: _____ PHONE: Off Cell _____

DIRECTIONS TO SITE: _____

GENERAL SITE CONDITIONS/LOCATION: _____

COUNTY: _____ RANGE: _____ TOWNSHIP: _____ SECTION: _____
BOREHOLE CONSTRUCTION*: CASED _____ UNCASD ☒
DIAMETERS AND DEPTH RANGES*: 3.78" 0 TO 201.75'; _____ TO _____
BOREHOLE TOTAL DEPTH AS DRILLED*: 201.75'
SURFACE CASING?: yes DEPTH TO BOTTOM OF CASING 7 ft; NO _____
DEPTH TO BEDROCK: 42 ft DEPTH TO WATER TABLE: ~25 ft
BOREHOLE FLUID: WATER _____; FRESH WATER MUD ☒; SALT WATER MUD; _____
OTHER: _____
DEPTH TO BOREHOLE FLUID*: ~5 ft TIME SINCE LAST CIRCULATION: 9 am

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL

GEOVision Geophysical Services

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P-S FIELD LOG REV V1.4



M-30BH P-S SUSPENSION VELOCITY FIELD LOG REV 1.4

Borehole CORRESPONDING P-S SUSPENSION PROCEDURE REV 1.4.

SITE*: North Anna DATE*: 9/17/09
CLIENT*: MACTEC JOB*: 9333
AUTHOR*: C. Carter PAGE 2 OF 3

LOGGING CREW*: C. Carter, V. Gonzalez
MOBILIZED FROM: Fredricksburg DEPARTURE TIME: 6:15
ARRIVED ON SITE: 7am
STANDBY TIME: _____ CAUSE: _____
LOGGING STARTED: 9:35am LOGGING COMPLETED: 9:52am

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 ☒
ISOLATION TUBE S/N* 300083 ☒ 24053 ☐ 28068 ☐ 28072 ☐ 2M _____
SHEAVE* COMPROBE ☐ OYO 101 ☐ 102 ☒ 103 ☐ RG ☐
MICROLOGGER* 5310 ☐ 5772 ☒ NOT APPLICABLE (OYO) ☐
PROBE OFFSET* OYO 2.0M ☐ RG 2.5M ☒
MINUS CASING STICK-UP* 1.02 m
DEPTH REF. OFFSET AT START* 1.48 m
DEPTH REF. OFFSET AT END* 1.49 m } 11/3/09 REF TO GROUND SURFACE
AFTER SURVEY DEPTH ERROR* .01 m

LOG NAME*	START DEPTH*	START TIME	END DEPTH *	END TIME
<u>M30BH5USPDOWN02</u>	<u>2.5m</u>	<u>9:35am</u>	<u>16m</u>	<u>9:52am</u>

MAINTENANCE PERFORMED ON SITE*: NA (N/A if none)

EQUIPMENT PROBLEMS OR FAILURES*: NA (N/A if none)

DEVIATIONS FROM TEST PLAN*: NA (N/A if none)

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL

GEOVision Geophysical Services

1124 Olympic Drive, Corona, CA 92881 Ph (951) 549-1234 Fx (951) 549-1236

P-S FIELD LOG REV 1.4

M-300H

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE*: North Anna

DATE*: 9/17/69

CLIENT*: MACTEC

JOB*: 9333

AUTHOR*: C. Carter

PAGE* 3 OF 3

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL

DEPTH METERS	DEPTH FEET	UNFILTERED FILE NO*.	FILTERED FILE NO* (if any)	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	200		9:35
3.0	9.84	201		
3.5	11.48	202		
4.0	13.12	203		
4.5	14.76	204		
5.0	16.40	205		
5.5	18.04	206		
6.0	19.69	207		
6.5	21.33	208		
7.0	22.97	209		
7.5	24.61	210		
8.0	26.25	211		
8.5	27.89	212		
9.0	29.53	213		
9.5	31.17	214		
10.0	32.81	215		
10.5	34.45	216		
11.0	36.09	217		
11.5	37.73	218		
12.0	39.37	219		
12.5	41.01	220		
13.0	42.65	221		
13.5	44.29	222		
14.0	45.93	223		
14.5	47.57	224		
15.0	49.21	225		
15.5	50.85	226		
16.0	52.49	227		9:52
16.5	54.13			
17.0	55.77			
17.5	57.41			
18.0	59.06			
18.5	60.70			
19.0	62.34			
19.5	63.98			
20.0	65.62			

ACOUSTIC TELEVIEWER LOG FORM 1.1.pdf



M-300H ACOUSTIC TELEVIEWER FIELD LOG Rev 1.1

Borehole*

GEOVISION HI-RES ACOUSTIC TELEVIEWER PROCEDURE V1.0

SITE*: North Anna DATE*: 8/17/09
CLIENT*: MACTEC JOB*: 9333
AUTHOR*: C. Carter PAGE 1 OF 2
REVIEWER: _____ (post field work)

CONTACT: _____ PHONE: Off Cell _____

CONTACT: _____ PHONE: Off Cell _____

DRILLER _____ PHONE: Off Cell _____

COMPANY: _____

GENERAL SITE CONDITIONS/LOCATION: _____

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

BOREHOLE CONSTRUCTION: CASED _____ UNCASD X

DIAMETERS AND DEPTH RANGES: 3.78" 0 TO 201.7 ft; _____ TO _____

BOREHOLE TOTAL DEPTH AS DRILLED*: 201.7 ft

SURFACE CASING?: YES X DEPTH TO BOTTOM OF CASING 7 ft; NO _____

DEPTH TO BEDROCK: ~42 ft DEPTH TO WATER TABLE: ~25 ft

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

OTHER: _____

DEPTH TO BOREHOLE FLUID: 5 ft TIME SINCE LAST CIRCULATION: 9 am

LOGGING CREW: C. Carter, V. Gonzalez

VEHICLE(S) USED AND MILEAGE: _____

MOBILIZED FROM: Fredricksburg DEPARTURE TIME: 6:15 am

ARRIVED ON SITE: 7 am

STANDBY TIME: NA CAUSE: _____

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL

ACOUSTIC TELEVIEWER LOG FORM 1.1.pdf



M-30D# ACOUSTIC TELEVIEWER FIELD LOG Rev 1.1

Borehole* GEOVISION HI-RES ACOUSTIC TELEVIEWER PROCEDURE V1.0

SITE*: North Anna DATE*: 9/17/09
CLIENT*: MACTEC JOB*: 9333
AUTHOR*: C. Carter PAGE 2 OF 2
REVIEWER*: _____ (post field work)

WINCH: _____ COMPROBE _____ SILVER X OYO _____ OTHER _____
MICROLOGGER* 5310 _____ 5772 X _____
TELEVIEWER* ACOUSTIC #5174 _____ OTHER 6641 _____
SHEAVE* COMPROBE _____ OYO 101 _____ 102 X 103 _____ RG _____

PROBE TILT TEST* 91.47 BRUNTON TILT* 91
PROBE TILT TEST* 17.38 BRUNTON TILT* 17
PROBE TILT TEST* 52.40 BRUNTON TILT* 52 AFTER LOG* yes
PROBE AZIMUTH TEST* 315.30 BRUNTON AZIMUTH* 310
PROBE AZIMUTH TEST* 249.50 BRUNTON AZIMUTH* 247
PROBE AZIMUTH TEST* 312.40 BRUNTON AZIMUTH* 305 AFTER LOG* yes

PROBE OFFSET*	1.44M(4.72FT)	} REF TO GROUND SURFACE
MINUS CASING STICK-UP*	<u>3.35</u>	
DEPTH REF. OFFSET AT START*	<u>1.37</u>	
DEPTH REF. OFFSET AT END*	<u>1.37</u>	
AFTER SURVEY DEPTH ERROR*	<u>0</u>	

LOG NAME*	START DEPTH*	START TIME	END DEPTH*	END TIME
<u>M30D#100P03</u>	<u>45.9 ft</u>	<u>10:26am</u>	<u>5.9 ft</u>	<u>10:38am</u>

MAINTENANCE PERFORMED ON SITE*: NA (N/A if none)

DEVIATION FROM PROCEDURE (IF ANY) OR EQUIPMENT PROBLEMS OR FAILURES*(N/A if none)
NA

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL



M-30DH
Borehole*

CALIPER FIELD LOG REV 1.2.PDF

CALIPER FIELD LOG

Procedure ASTM D6167-97(2004)

SITE*: North Anna DATE*: 9/17/2009
CLIENT*: Mactec JOB*: 9333
AUTHOR*: V. Gonzalez PAGE: 1 OF 2

CONTACT: _____ PHONE: Off Cell

CONTACT: _____ PHONE: Off Cell

CONTACT: _____ PHONE: Off Cell

DRILLER _____ PHONE: Off Cell
COMPANY: _____

GENERAL SITE CONDITIONS/LOCATION: _____

COUNTY: _____ RANGE: _____ TOWNSHIP: _____ SECTION: _____
BOREHOLE CONSTRUCTION: CASED _____ UNCASD _____
DIAMETERS AND DEPTH RANGES: 3.78" 0 TO 206.7 FT; _____ TO _____

BOREHOLE TOTAL DEPTH AS DRILLED*: 201.7

SURFACE CASING?: YES x DEPTH TO BOTTOM OF CASING 7.6 ft; NO _____
DEPTH TO BEDROCK: 42 ft DEPTH TO WATER TABLE: N/A
BOREHOLE FLUID: WATER _____; FRESH WATER MUD x; SALT WATER MUD _____;
OTHER: _____
DEPTH TO BOREHOLE FLUID: N/A TIME SINCE LAST CIRCULATION: N/A

LOGGING CREW: V. Gonzalez, C. Carter
VEHICLE(S) USED AND MILEAGE: _____
MOBILIZED FROM: Fredericksburg, VA DEPARTURE TIME: 6:15
ARRIVED ON SITE: 7:15
STANDBY TIME: N/A CAUSE: _____

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL



CALIPER FIELD LOG REV 1.2.PDF

M-3AD/H

Borehole*

CALIPER FIELD LOG

Procedure ASTM D6167-97(2004)

SITE*: North Anna DATE*: 9/17/09
CLIENT*: Mactec JOB*: 9333
AUTHOR*: V.Gon PAGE: PAGE 2 OF 2

WINCH: _____ COMPROBE _____ SILVER ☒ OYO _____ RG _____ OTHER _____
MICROLOGGER* 5310 ☐ 5772 ☒ OTHER _____
CALIPER PROBE* 5368 ☐ OTHER 6621
SHEAVE* COMPROBE ☐ OYO 101 ☐ 102 ☒ 103 ☐ RG ☐

PROBE OFFSET	2.08M(6.82 FT)	12 IN MAX
MINUS CASING STICK-UP*	<u>3.35</u>	} REF TO GROUND SURFACE
DEPTH REF. OFFSET AT START*	<u>3.47</u>	
DEPTH REF. OFFSET AT END*	<u>3.45</u>	
AFTER SURVEY DEPTH ERROR*	<u>0.02</u>	

169/17/09

LOG NAME*	START DEPTH*	START TIME*	END DEPTH*	END TIME*
M30DH CAL TEST 03	N/A	11:00	N/A	11:03
<u>M30DH CAL WP 02</u>	<u>50.7 FT</u>	<u>11:20</u>	<u>3.3</u>	<u>11:26</u>
<u>M30DH CAL TEST 04</u>	<u>N/A</u>	<u>11:34</u>	<u>N/A</u>	<u>11:36</u>

CALIBRATION PLATE S/N 201

FILE NAME	AS BUILT			PVC FITTING
	1.968 IN (50 MM)	3.937 IN (100 MM)	8.000 IN (203.2 MM)	4.504 IN (114.4 MM)
AS MEAS.* <u>M30DH CAL TEST 03</u>	<u>1.96</u>	<u>3.92</u>	<u>7.99</u>	<u>4.51</u>
AS MEAS.* <u>M30DH CAL TEST 04</u>	<u>1.95</u>	<u>3.92</u>	<u>8.00</u>	<u>4.52</u>
AS MEAS.				
AS MEAS.				
AS MEAS.				
AS MEAS.				

MAINTENANCE PERFORMED ON SITE*: N/A (N/A if none)

EQUIPMENT PROBLEMS OR FAILURES*: N/A (N/A if none)

SUGGESTIONS, ADDITIONS, CHANGES: _____

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL

GEOVision Geophysical Services

1124 Olympic Drive Corona, CA 92881

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