

P-S FIELD LOG REV V1.31a

B-601DH **GEOVISION SUSPENSION LOGGING FIELD NOTES**

SITE*: Turkey Point NPP DATE*: 3/26/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: C. Carter PAGE* 6 OF 7 ca 7/26/08

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
82.5	270.67	132		
83.0	272.31	133		
83.5	273.95	134		
84.0	275.59	135		
84.5	277.23	136		
85.0	278.87	137		
85.5	280.51	138		
86.0	282.15	139		
86.5	283.79	140		
87.0	285.43	141		
87.5	287.07	142		
88.0	288.71	143		
88.5	290.35	144		
89.0	291.99	145		
89.5	293.64	146		
90.0	295.28	147		
90.5	296.92	148		
91.0	298.56	149		
91.5	300.20	150		
92.0	301.84	151		
92.5	303.48	152		
93.0	305.12	153		
93.5	306.76	154		
94.0	308.40	155		
94.5	310.04	156		
95.0	311.68	157		slimmer
95.5	313.32	158		
96.0	314.96	159		
96.5	316.60	160		
97.0	318.24	161		
97.5	319.88	162		
98.0	321.52	163		
98.5	323.16	164		
99.0	324.80	165		
99.5	326.44	166		
100.0	328.08	167		
100.5	329.72	168		
101.0	331.36	169		
101.5	333.01	170		
102.0	334.65	171		
102.5	336.29	172		

P-S FIELD LOG REV V1.31a

B-60174 **GEOVISION SUSPENSION LOGGING FIELD NOTES**

SITE*: Turkey Point NPP DATE*: 3/26/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: C. Carter PAGE*: 7 OF 7

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
103.0	337.93	173		
103.5	339.57	174		
104.0	341.21	175		
104.5	342.85	176		
105.0	344.49	177		
105.5	346.13	178		
106.0	347.77	179		
106.5	349.41	180		
107.0	351.05	181		
107.5	352.69	182		
108.0	354.33	183		
108.5	355.97	184		
109.0	357.61	185		
109.5	359.25	186		
110.0	360.89	187		
110.5	362.53	188		
111.0	364.17	189		
111.5	365.81	190		
112.0	367.45	191		
112.5	369.09	192		
113.0	370.73	193		
113.5	372.38	194		
114.0	374.02	195		
114.5	375.66	196		
115.0	377.30	197		
115.5	378.94	198		
116.0	380.58	199		
116.5	382.22	200		
117.0	383.86	201		
117.5	385.50	202		
118.0	387.14	203		
118.5	388.78	204		
119.0	390.42	205		
119.5	392.06	206		
120.0	393.70	207		
120.5	395.34	208		
121.0	396.98	209		
121.5	398.62	210		
122.0	400.26	211		12:15 pm
122.5	401.90			
123.0	403.54			

ACOUSTIC TELEVIEWER LOG COVER 1.0a.pdf



B-60104 ACOUSTIC TELEVIEWER FIELD LOG Rev 1.0a

Borehole*

SITE*: Turkey Point NPP DATE*: 3/26/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: C. Carter 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: Miami-Dade RANGE: _____ TOWNSHIP: _____ SECTION: _____
BOREHOLE CONSTRUCTION: CASED _____ UNCASD X
DIAMETERS AND DEPTH RANGES: 5" 0 TO 139"; 3 1/8" 143" TO 420 ft

BOREHOLE TOTAL DEPTH AS DRILLED*: 420 ft

SURFACE CASING?: YES X DEPTH TO BOTTOM OF CASING 153'; NO _____
DEPTH TO BEDROCK: ~39ft DEPTH TO WATER TABLE: ~1ft
BOREHOLE FLUID: WATER _____; FRESH WATER MUD X; SALT WATER MUD _____;

OTHER: _____
DEPTH TO BOREHOLE FLUID: 0 TIME SINCE LAST CIRCULATION: 9am

LOGGING CREW: C. Carter
VEHICLE(S) USED AND MILEAGE: _____
MOBILIZED FROM: Florida City DEPARTURE TIME: 6:45 am
ARRIVED ON SITE: 7:50 am
STANDBY TIME: _____ CAUSE: _____

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL

ACOUSTIC TELEVIEWER LOG COVER 1.0a.pdf



B-601DH ACOUSTIC TELEVIEWER FIELD LOG Rev 1.0a

Borehole*

SITE*: Turkey Point NPP DATE*: 3/26/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: C. Carter PAGE 2 OF 2

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

1 PROBE TILT TEST* 90.08 BRUNTON TILT* 90
2 PROBE TILT TEST* 23.46 BRUNTON TILT* 23
3 PROBE TILT TEST* 13.2 BRUNTON TILT* 13 AFTER LOG* yes
1 PROBE AZIMUTH TEST* 323.3 BRUNTON AZIMUTH* 319
2 PROBE AZIMUTH TEST* 222.0 BRUNTON AZIMUTH* 225
3 PROBE AZIMUTH TEST* 297.6 BRUNTON AZIMUTH* 295 AFTER LOG* yes

PROBE OFFSET*	1.44M(4.72FT)	} REF TO GROUND SURFACE
MINUS CASING STICK-UP*	-1.92	
DEPTH REF. OFFSET AT START*	2.8	
DEPTH REF. OFFSET AT END*	2.8	
AFTER SURVEY DEPTH ERROR*	.0	

LOG NAME*	START DEPTH*	START TIME	END DEPTH*	END TIME
B601DH AUP02	401.4	1:17 pm	667.4 ft	1:32 pm
cc 3/26/08				

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 1151 Pomona Road, Unit P, Corona, CA 92882 Ph (951) 549-1234 Fx (951) 549-1236

CALIPER FIELD LOG (REV 1.1a).PDF



B-601D4

CALIPER FIELD LOG

Borehole*

SITE*: Turkey Point NPP
CLIENT*: MACTEC
AUTHOR*: C. Carter
DATE*: 3/26/08
JOB*: 8083
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: _____ 0 TO _____; 3 7/8" 143 ft TO 420

BOREHOLE TOTAL DEPTH AS DRILLED*: 420 ft

SURFACE CASING?: YES ☒ DEPTH TO BOTTOM OF CASING 153' / 117' NO _____
DEPTH TO BEDROCK: ~3 ft DEPTH TO WATER TABLE: ~1 ft
BOREHOLE FLUID: WATER _____; FRESH WATER MUD ☒; SALT WATER MUD _____
OTHER: _____
DEPTH TO BOREHOLE FLUID: 0 TIME SINCE LAST CIRCULATION: 9 am

LOGGING CREW: C. Carter
VEHICLE(S) USED AND MILEAGE: _____
MOBILIZED FROM: Florida City, FL DEPARTURE TIME: 6:45 am
ARRIVED ON SITE: 7:50 am
STANDBY TIME: _____ CAUSE: _____

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL

CALIPER FIELD LOG RE-V1.1a.PDF



3-601DH

CALIPER FIELD LOG

Borehole*

SITE*: Turkey Point NPP DATE*: 3/26/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: C. Carter PAGE: PAGE 2 OF 2

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

PROBE OFFSET	2.08M(6.82 FT)	12 IN MAX
MINUS CASING STICK-UP*	1.92 / 2.25	
DEPTH REF. OFFSET AT START*	4.9 / 4.07	REF TO GROUND SURFACE
DEPTH REF. OFFSET AT END*	4.9 / 4.00	
AFTER SURVEY DEPTH ERROR*	0 / .07	

LOG NAME*	START DEPTH*	START TIME*	END DEPTH*	END TIME*
B601DHCALEST03		2:03 pm		2:10 pm
B601DHCALEST02	411.2 ft	2:21 pm	146.95 ft	2:48
B601DHCALEST04		3:25		3:26 pm
B601DHCALEST05		3:53		3:54 pm
B601DHCALEST03	157.2'	4:08	110.45'	4:15 pm
B601DHCALEST06		4:24		4:25 pm

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)	4.507 IN (114.3 MM)
AS MEAS. B601DHCALEST03	1.951	3.939	7.966	4.527
AS MEAS. B601DHCALEST04	1.99	3.94	8.03	4.54
AS MEAS. B601DHCALEST05	1.99	3.951	7.999	4.522
AS MEAS. B601DHCALEST06	1.99	3.94	7.98	4.516
AS MEAS.				
AS MEAS.				

4.510 in 3/26/08

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

1151 Pomona Road, Unit P, Corona, CA 92882

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



B-604DH BORING GEOPHYSICS FIELD LOG SUMMARY

Borehole*

SITE*: Turkey Point NPP

DATE*: 3/21/08, 3/22/08

CLIENT*: MACTEC

JOB*: 8083

AUTHOR*: C. Carter

PAGE*: 1 OF 2

CONTACT:

PHONE:

BOREHOLE CONSTRUCTION: Cased

UNCASED ☒

DIAMETERS AND DEPTH RANGES: 9" 0 TO 24' 30" 3 1/8" 24' 30" TO TD (118' 165')

BOREHOLE TOTAL DEPTH AS DRILLED*: 118 ft / 165 ft

CONDUCTOR CASING?: YES ☒ DEPTH TO BOTTOM OF CASING 24' 30" NO

DEPTH TO BEDROCK: 3.5 ft

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

LOGGING CREW: C. Carter

LOG TYPE*	FILE NAME*	DEPTH RANGE*	DATE*	TIMES*
ELOG	B604DHELOGTEST01		3/21/08	4:04 - 4:05 pm
ELOG	B604DHELOGUP01	112.65 - 66.45 ft	3/21/08	4:49 - 4:55 pm
ELOG	B604DHELOGUP02	112.1 - 39.25 ft	3/21/08	5:01 - 5:08 pm
P-S velocity	B604DHSUPDM01	8.0m - 30.0m	3/21/08	5:33 - 5:58 pm
ATV	B604DHAVUP01	91.8 - 30 ft	3/22/08	8:50 - 9:12 am
ATV	B604DHAVUP02	35.2 - 22.9 ft	3/22/08	9:13 - 9:17 am
Caliper	B604DHACALTEST01		3/22/08	9:37 - 9:38 am
Caliper	B604DHACALUP01	103.65 - 19.75 ft	3/22/08	9:50 - 9:59 am
Caliper	B604DHACALTEST02		3/22/08	10:10 - 10:12 am
ELOG	B604DHELOGTEST02		3/24/08	8:22 - 8:23 am
ELOG	B604DHELOGUP03	163.25 - 39.1 ft	3/24/08	8:45 - 8:57 am
P-S velocity	B604DHSUPDOWN02	91.86 - 150.9 ft	3/24/08	9:39 - 9:59 am
Caliper	B604DHACALTEST03		3/24/08	10:46 - 10:47 am
Caliper	B604DHACALUP02	160.6 - 36.9 ft	3/24/08	11:02 - 11:15 am
Caliper	B604DHACALTEST04		3/24/08	11:30 - 11:32 am
Deviation	B604DHDEV			

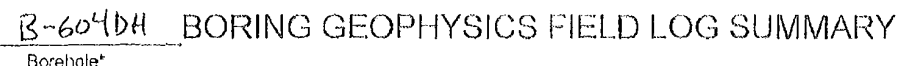
c 3/24/08

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL

GEOVision Geophysical Services

1151 Pomona Road, Unit P, Corona, CA 92882

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



CONTACT: _____ PHONE: _____

LOGGING CREW: C. Carter

[illegible]

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

ELOG FIELD LOG REV 1.1a



B-604DH

ELOG FIELD LOG

Borehole*

SITE*: Turkey Point NPP
CLIENT*: MACTEC
AUTHOR*: C. Carter
DATE*: 3/21/08
JOB*: 8083
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: Miami-Dade RANGE: _____ TOWNSHIP: _____ SECTION: _____
BOREHOLE CONSTRUCTION: CASED _____ UNCASD ☒
DIAMETERS AND DEPTH RANGES: 4" 0 TO 24 ft; 3 7/8" 24 TO 118

BOREHOLE TOTAL DEPTH AS DRILLED*: 118 ft

SURFACE CASING?: YES ☒ DEPTH TO BOTTOM OF CASING 24 ft; NO _____
DEPTH TO BEDROCK: ~ 3.5 ft DEPTH TO WATER TABLE: ~ 1 ft
BOREHOLE FLUID: WATER _____; FRESH WATER MUD ☒; SALT WATER MUD _____
OTHER: _____
DEPTH TO BOREHOLE FLUID: 0 TIME SINCE LAST CIRCULATION: 3 min

LOGGING CREW: C. Carter
VEHICLE(S) USED AND MILEAGE: _____
MOBILIZED FROM: Florida City, FL DEPARTURE TIME: 7:15 am
ARRIVED ON SITE: 7:30 am
STANDBY TIME: _____ CAUSE: _____

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL

ELOG FIELD LOG REV 1.1a



B-604DH ELOG FIELD LOG
Borehole*

SITE*: Turkey Point NPP DATE*: 3/21/88
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: C. Carter 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*	~ 1.0
DEPTH REF. OFFSET AT START*	40.0
DEPTH REF. OFFSET AT END*	40.0
AFTER SURVEY DEPTH ERROR*	.05

REF TO GROUND SURFACE

LOG NAME*	START DEPTH*	START TIME	END DEPTH*	END TIME
B604DHELOGTEST01		4:04 pm		4:05 pm
B604DHELOGUP01	112.65'	4:49 pm	66.45'	4:55
B604DHELOGUP02	112.1 ft	5:01	39.25 ft	5:08

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

EQUIPMENT PROBLEMS OR FAILURES*: Yoke electrode got stuck on casing on 1st run. (N/A if none)

SUGGESTIONS, ADDITIONS, CHANGES: No tiger salt

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL

CALIPER FIELD LOG REV 1.1a.PDF



B-604DH CALIPER FIELD LOG

Borehole*

SITE*: Turkey Point NPP DATE*: 3/22/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: C. Carter 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 X
DIAMETERS AND DEPTH RANGES: 4" 0 TO 24 ft; 3 1/8" 24 TO 118'

BOREHOLE TOTAL DEPTH AS DRILLED*: 118 ft

SURFACE CASING?: YES X DEPTH TO BOTTOM OF CASING 24 ft; NO
DEPTH TO BEDROCK: 3.5 ft DEPTH TO WATER TABLE: 1 ft
BOREHOLE FLUID: WATER; FRESH WATER MUD X; SALT WATER MUD
OTHER:
DEPTH TO BOREHOLE FLUID: 0 TIME SINCE LAST CIRCULATION: 3pm 3/21

LOGGING CREW: C. Carter
VEHICLE(S) USED AND MILEAGE:
MOBILIZED FROM: Florida City, FL DEPARTURE TIME: 7:15am
ARRIVED ON SITE: 7:30am
STANDBY TIME: CAUSE:

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL

CALIPER FIELD LOG REV 1.1a.PDF



B-604DH

CALIPER FIELD LOG

Borehole*

SITE*: Turkey Point NPP DATE*: 3/22/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: C. Carter PAGE*: PAGE 2 OF 2

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

PROBE OFFSET	2.08M(6.82 FT)	12 IN MAX
MINUS CASING STICK-UP*	-1.0	} REF TO GROUND SURFACE
DEPTH REF. OFFSET AT START*	5.82	
DEPTH REF. OFFSET AT END*	5.85	
AFTER SURVEY DEPTH ERROR*	.03	

LOG NAME*	START DEPTH*	START TIME*	END DEPTH*	END TIME*
B604DH CAL TEST 01		9:37		9:38 am
B604DH CAL UP 01	103.65'	9:50	19.75 ft	9:59 am
B604DH CAL TEST 02		10:10		10:12 am

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)	4.507 IN (114.3 MM)
AS MEAS.*	B604DH CAL TEST 01	1.942	3.940	8.01	4.533
AS MEAS.*	B604DH CAL TEST 02	1.98	3.98	8.06	4.533
AS MEAS.					
AS MEAS.					
AS MEAS.					
AS MEAS.					

4.510 cc 3/22/08

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

1151 Pomona Road, Unit P, Corona, CA 92882

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ACOUSTIC TELEVIEWER LOG COVER 1.0a.pdf



B-6040H ACOUSTIC TELEVIEWER FIELD LOG Rev 1.0a

Borehole*

SITE*: Turkey Point NPP DATE*: 7/22/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: C. Carter 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: Miami-Dade RANGE: TOWNSHIP: SECTION:
BOREHOLE CONSTRUCTION: CASED UNCASD X
DIAMETERS AND DEPTH RANGES: 4" 0 TO 24 ft; 3 1/2" 24 TO 118 ft

BOREHOLE TOTAL DEPTH AS DRILLED*: 118 ft

SURFACE CASING?: YES X DEPTH TO BOTTOM OF CASING 24'; NO
DEPTH TO BEDROCK: 3.5 ft DEPTH TO WATER TABLE: 1 ft
BOREHOLE FLUID: WATER; FRESH WATER MUD X; SALT WATER MUD;
OTHER:

DEPTH TO BOREHOLE FLUID: 0 TIME SINCE LAST CIRCULATION: 3pm 7/21

LOGGING CREW: C. Carter
VEHICLE(S) USED AND MILEAGE:
MOBILIZED FROM: Florida City DEPARTURE TIME: 7:15 am
ARRIVED ON SITE: 7:30 am
STANDBY TIME: CAUSE:

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL

ACOUSTIC TELEVIEWER LOG COVER 1.0a.pdf



B-604DH ACOUSTIC TELEVIEWER FIELD LOG Rev 1.0a

Borehole*

SITE*: Turkey Point NPP DATE*: 3/22/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: C. Carter PAGE 2 OF 2

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

1 PROBE TILT TEST* 45.08 BRUNTON TILT* 45
2 PROBE TILT TEST* 90.08 BRUNTON TILT* 90
3 PROBE TILT TEST* 31.38 BRUNTON TILT* 31 AFTER LOG* yes
1 PROBE AZIMUTH TEST* 356.9 BRUNTON AZIMUTH* 354
2 PROBE AZIMUTH TEST* 280.0 BRUNTON AZIMUTH* 275
3 PROBE AZIMUTH TEST* 356.7 BRUNTON AZIMUTH* 357 AFTER LOG* yes

PROBE OFFSET*	1.44M(4.72FT)	} REF TO GROUND SURFACE
MINUS CASING STICK-UP*	1	
DEPTH REF. OFFSET AT START*	3.72	
DEPTH REF. OFFSET AT END*	3.34	
AFTER SURVEY DEPTH ERROR*	0.38	

LOG NAME*	START DEPTH*	START TIME	END DEPTH *	END TIME
B-604DH A00P01	91.8 ft	8:50 am	30 ft	9:12
B-604DH A00P01				
B-604DH A00P02	35.2 ft	9:13	22.9 ft	9:17 am

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

EQUIPMENT PROBLEMS OR FAILURES*: Got stuck coming into casing (N/A if none)

SUGGESTIONS, ADDITIONS, CHANGES:

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL.

GEOVision Geophysical Services

1151 Pomona Road, Unit P, Corona, CA 92882

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

P-S FIELD LOG REV V1.31a



2-604DH P-S SUSPENSION VELOCITY FIELD LOG REV 1.31a

Borehole

SITE*: Turkey Point NPP DATE*: 3/21/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: C. Carter PAGE 1 OF * 4

CONTACT: _____ PHONE: Off Cell _____

CONTACT: _____ PHONE: Off Cell _____

CONTACT: _____ PHONE: Off Cell _____

CONTACT: _____ PHONE: Off Cell _____

DIRECTIONS TO SITE: _____

GENERAL SITE CONDITIONS/LOCATION: _____

COUNTY: Miami-Dade RANGE: _____ TOWNSHIP: _____ SECTION: _____

BOREHOLE CONSTRUCTION*: CASED _____ UNCASD, X

DIAMETERS AND DEPTH RANGES*: 4" 0 TO 24 ft; 3 1/2", 24 TO 118 ft

BOREHOLE TOTAL DEPTH AS DRILLED*: 118 ft

SURFACE CASING?: X DEPTH TO BOTTOM OF CASING 24 ft; NO

DEPTH TO BEDROCK: 3.5 ft DEPTH TO WATER TABLE: 1 ft

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

OTHER: _____

DEPTH TO BOREHOLE FLUID*: 0 TIME SINCE LAST CIRCULATION: 3pm

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL
GEOVision Geophysical Services—11511 Pomona Road, Suite P, Corona, CA 92602 (951) 549-1234 Fx (951) 549-1236

P-S FIELD LOG REV V1.31a



B-60410 H

P-S SUSPENSION VELOCITY FIELD LOG REV 1.31a

Borehole*

SITE*: Turkey Point NPP DATE*: 3/21/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: C. Carter PAGE 2 OF * 4

LOGGING CREW*: C. Carter
MOBILIZED FROM: Florida City, FL DEPARTURE TIME:
ARRIVED ON SITE:
STANDBY TIME: CAUSE:
LOGGING STARTED: LOGGING COMPLETED:

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* .31
DEPTH REF. OFFSET AT START* 2.19
DEPTH REF. OFFSET AT END* 2.18
AFTER SURVEY DEPTH ERROR* .01
REF TO GROUND SURFACE

LOG NAME*	START DEPTH*	START TIME	END DEPTH *	END TIME
B60410H5V1PDR5WJ01	8.0m	5:33	30.0m	5:58pm

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

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

SUGGESTIONS, ADDITIONS, CHANGES:
COMMENTS:

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL

GEOVision Geophysical Services 1151 Pomona Road, Suite P, Corona, CA 92702 (951) 549-1234 Fx (951) 549-1236

P-S FIELD LOG REV V1.31a

B-66454

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE*: Turkey Point NPP DATE*: 3/21/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: C. Carter PAGE*: 3 OF 4

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			
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	001		S:33
8.5	27.89	2		
9.0	29.53	3		
9.5	31.17	4		
10.0	32.81	5		
10.5	34.45	6		
11.0	36.09	7		
11.5	37.73	8		
12.0	39.37	9		
12.5	41.01	10		
13.0	42.65	11		
13.5	44.29	12		
14.0	45.93	13		
14.5	47.57	14		
15.0	49.21	15		
15.5	50.85	16		
16.0	52.49	17		
16.5	54.13	18		
17.0	55.77	19		
17.5	57.41	20		
18.0	59.06	21		
18.5	60.70	22		
19.0	62.34	23		
19.5	63.98	24		
20.0	65.62	25		
20.5	67.26	26		

P-S FIELD LOG REV V1.31a

3-604 DH

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE*: Turkey Point NPP DATE*: 3/21/08, 3/24/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: C. Carter PAGE*: 4 OF 4

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
21.0	68.90	21		
21.5	70.54	28		
22.0	72.18	29		
22.5	73.82	30		
23.0	75.46	31		
23.5	77.10	32		
24.0	78.74	33		
24.5	80.38	34		
25.0	82.02	35		
25.5	83.66	36		
26.0	85.30	37		
26.5	86.94	38		
27.0	88.58	39		
27.5	90.22	40		
28.0	91.86	41 46		9:39 am 3/24
28.5	93.50	42 47		
29.0	95.14	43 48		
29.5	96.78	44 49		
30.0	98.43	45 50		5:58 3/21
30.5	100.07	51		
31.0	101.71	52		
31.5	103.35	53		
32.0	104.99	54		
32.5	106.63	55		
33.0	108.27	56		
33.5	109.91	57		
34.0	111.55	58		
34.5	113.19	59		
35.0	114.83	60		
35.5	116.47	61		
36.0	118.11	62		
36.5	119.75	63		
37.0	121.39	64		
37.5	123.03	65		
38.0	124.67	66		
38.5	126.31	67		
39.0	127.95	68		
39.5	129.59	69		
40.0	131.23	70		
40.5	132.87	71		
41.0	134.51	72		

ELOG FIELD LOG REV 1.1a



B-604DH

ELOG FIELD LOG

Borehole*

SITE*: Turkey Point NPP
CLIENT*: MACTEC
AUTHOR*: C. Carter
DATE*: 3/24/08
JOB*: 8083
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: Miami-Dade RANGE: _____ TOWNSHIP: _____ SECTION: _____
BOREHOLE CONSTRUCTION: CASED _____ UNCASD ☒
DIAMETERS AND DEPTH RANGES: 4" 0 TO 30 ; 3 7/8, 30 TO 165 ft

BOREHOLE TOTAL DEPTH AS DRILLED*: 165 ft

SURFACE CASING?: YES ☒ DEPTH TO BOTTOM OF CASING 30 ft; NO _____
DEPTH TO BEDROCK: ~3.5 ft DEPTH TO WATER TABLE: ~1
BOREHOLE FLUID: WATER _____; FRESH WATER MUD ☒; SALT WATER MUD _____
OTHER: _____
DEPTH TO BOREHOLE FLUID: 0 TIME SINCE LAST CIRCULATION: 8 am

LOGGING CREW: C. Carter
VEHICLE(S) USED AND MILEAGE: _____
MOBILIZED FROM: Florida City, FL DEPARTURE TIME: 7:00 am
ARRIVED ON SITE: 7:30 am
STANDBY TIME: _____ CAUSE: _____

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL

ELOG FIELD LOG REV 1.1a



B-604D11 ELOG FIELD LOG
Borehole*

SITE*: Turkey Point NPP DATE*: 3/24/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: C. Carter 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*	1.42
DEPTH REF. OFFSET AT START*	39.58
DEPTH REF. OFFSET AT END*	39.55
AFTER SURVEY DEPTH ERROR*	.03

REF TO GROUND SURFACE

LOG NAME*	START DEPTH*	START TIME	END DEPTH*	END TIME
B604DHELOGTEST02		8:22		8:23am
B604DHELOGLP03	163.25 ft	8:45	39.1 ft	8:57am

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

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

SUGGESTIONS, ADDITIONS, CHANGES: No tugir salt just "super gel x"
Very low resistivity.

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL

P-S FIELD LOG REV V1.31a



B-604DL1 **P-S SUSPENSION VELOCITY FIELD LOG REV 1.31a**

Borehole

SITE*: Turkey Point NPP DATE*: 3/24/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: C. Carter PAGE 1 OF * 4

CONTACT: _____ PHONE: Off Cell _____

CONTACT: _____ PHONE: Off Cell _____

CONTACT: _____ PHONE: Off Cell _____

CONTACT: _____ PHONE: Off Cell _____

DIRECTIONS TO SITE: _____

GENERAL SITE CONDITIONS/LOCATION: _____

COUNTY: Miami-Dade RANGE: _____ TOWNSHIP: _____ SECTION: _____

BOREHOLE CONSTRUCTION*: CASED _____ UNCASD X

DIAMETERS AND DEPTH RANGES*: 4" 0 TO 30 ft; 3 7/8" 30 TO 165 ft

BOREHOLE TOTAL DEPTH AS DRILLED*: 165 ft

SURFACE CASING?: X DEPTH TO BOTTOM OF CASING 30 ft; NO _____

DEPTH TO BEDROCK: ~3.5 ft DEPTH TO WATER TABLE: ~1 ft

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

OTHER: _____

DEPTH TO BOREHOLE FLUID*: 0 TIME SINCE LAST CIRCULATION: 8 am

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL.
GEOVision Geophysical Services—11511 Pomona Road, Suite P, Corona, CA 92682 (951) 549-1234 Fx (951) 549-1236

P-S FIELD LOG REV V1.31a



B-6040H P-S SUSPENSION VELOCITY FIELD LOG REV 1.31a

Borehole*

SITE*: Turkey Point NPP DATE*: 7/24/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: C. Carter PAGE 2 OF * 4

LOGGING CREW*: C. Carter
MOBILIZED FROM: Florida City, FL DEPARTURE TIME: 7:00 am
ARRIVED ON SITE: 7:30 am
STANDBY TIME: CAUSE:
LOGGING STARTED: LOGGING COMPLETED:

BATTERIES CHANGED BEFORE LOGGING: YES; NO X; STORED WITH NEW 6.14V

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* .44
DEPTH REF. OFFSET AT START* 2.06
DEPTH REF. OFFSET AT END* 2.05
AFTER SURVEY DEPTH ERROR* .01
REF TO GROUND SURFACE

LOG NAME*	START DEPTH*	START TIME	END DEPTH*	END TIME
<u>B6040H SUSP DOWN 02</u>	<u>91.86 ft</u>	<u>9:39 am</u>	<u>150.7</u>	<u>9:59 am</u>

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

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

SUGGESTIONS, ADDITIONS, CHANGES:
COMMENTS:

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL.

GEOVision Geophysical Services 1151 Pomona Road, Suite P, Corona, CA 92602 (951) 549-1234 Fx (951) 549-1236

P-S FIELD LOG REV V1.31a

3-68424

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE*: Turkey Point NPP DATE*: 3/21/08, 3/24/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: C. Carter PAGE*: 4 / 3 OF 4
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
21.0	68.90	21		
21.5	70.54	28		
22.0	72.18	29		
22.5	73.82	30		
23.0	75.46	31		
23.5	77.10	32		
24.0	78.74	33		
24.5	80.38	34		
25.0	82.02	35		
25.5	83.66	36		
26.0	85.30	37		
26.5	86.94	38		
27.0	88.58	39		
27.5	90.22	40		
28.0	91.86	41 46		9:39 am 3/24
28.5	93.50	42 47		
29.0	95.14	43 48		
29.5	96.78	44 49		
30.0	98.43	45 50		5:58 3/21
30.5	100.07	51		
31.0	101.71	52		
31.5	103.35	53		
32.0	104.99	54		
32.5	106.63	55		
33.0	108.27	56		
33.5	109.91	57		
34.0	111.55	58		
34.5	113.19	59		
35.0	114.83	60		
35.5	116.47	61		
36.0	118.11	62		
36.5	119.75	63		
37.0	121.39	64		
37.5	123.03	65		
38.0	124.67	66		
38.5	126.31	67		
39.0	127.95	68		
39.5	129.59	69		
40.0	131.23	70		
40.5	132.87	71		
41.0	134.51	72		

P-S FIELD LOG REV V1.31a

B-604DH

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE*: Turkey Point NPP DATE*: 3/24/08
CLIENT*: MACTEC JOB*: 8083 cc 3/24/08
AUTHOR*: C. Carter PAGE*: 34 OF 4
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
41.5	136.15	73		
42.0	137.80	74		
42.5	139.44	75		
43.0	141.08	76		
43.5	142.72	77		
44.0	144.36	78		
44.5	146.00	79		
45.0	147.64	80		
45.5	149.28	81		
46.0	150.92	82		maybe on bottom 9:59 am
46.5	152.56			
47.0	154.20			
47.5	155.84			
48.0	157.48			
48.5	159.12			
49.0	160.76			
49.5	162.40			
50.0	164.04			
50.5	165.68			
51.0	167.32			
51.5	168.96			
52.0	170.60			
52.5	172.24			
53.0	173.88			
53.5	175.52			
54.0	177.17			
54.5	178.81			
55.0	180.45			
55.5	182.09			
56.0	183.73			
56.5	185.37			
57.0	187.01			
57.5	188.65			
58.0	190.29			
58.5	191.93			
59.0	193.57			
59.5	195.21			
60.0	196.85			
60.5	198.49			
61.0	200.13			
61.5	201.77			

CALIPER FIELD LOG REV 1.1a PDF



B-604DH

CALIPER FIELD LOG

Borehole*

SITE*: Turkey Point NPP DATE*: 3/24/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: C. Carter 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: 4" 0 TO 30 ft; 3 3/4" 30 TO 165 ft

BOREHOLE TOTAL DEPTH AS DRILLED*: 165 ft

SURFACE CASING?: YES ☒ DEPTH TO BOTTOM OF CASING 30 ft; NO
DEPTH TO BEDROCK: 3.5 ft DEPTH TO WATER TABLE: 2 ft
BOREHOLE FLUID: WATER; FRESH WATER MUD ☒; SALT WATER MUD
OTHER:

DEPTH TO BOREHOLE FLUID: TIME SINCE LAST CIRCULATION: 8:30 am cc 3/24/08
8:00 am

LOGGING CREW: C. Carter
VEHICLE(S) USED AND MILEAGE:
MOBILIZED FROM: Florida City, FL DEPARTURE TIME: 7:00 am
ARRIVED ON SITE: 7:30 am
STANDBY TIME: CAUSE:

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL

CALIPER FIELD LOG REV 1.1a PDF



B-604DH

CALIPER FIELD LOG

Borehole*

SITE*: Turkey Point NPP DATE*: 3/24/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: C. Carter PAGE: PAGE 2 OF 2

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

PROBE OFFSET	2.08M(6.82 FT)	12 IN MAX
MINUS CASING STICK-UP*	-1.42	
DEPTH REF. OFFSET AT START*	5.4	} REF TO GROUND SURFACE
DEPTH REF. OFFSET AT END*	5.45	
AFTER SURVEY DEPTH ERROR*	.05	

LOG NAME*	START DEPTH*	START TIME*	END DEPTH*	END TIME*
B604DH CAL TEST 03		10:46		10:47
B604DH CAL UP 02	160.6	11:02 am	36.9	11:15 am
B604DH CAL TEST 04		11:30		11:32

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)	4.607 IN (114.3 MM)
AS MEAS.*	B604DH CAL TEST 03	1.999	3.986	8.04	4.56
AS MEAS.*	B604DH CAL TEST 04	1.99	3.98	8.03	4.56
AS MEAS.					
AS MEAS.					
AS MEAS.					
AS MEAS.					

4.510 cc 3/24/08

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

1151 Pomona Road, Unit P, Corona, CA 92882

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

ACOUSTIC TELEVIEWER LOG COVER 1.0a.ppt



B-604011 ACOUSTIC TELEVIEWER FIELD LOG Rev 1.0a

Borehole*

SITE*: Turkey Point NPP DATE*: 3/24/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: C. Carter 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: Miami-Dade RANGE: TOWNSHIP: SECTION:
BOREHOLE CONSTRUCTION: CASED UNCASD ☒
DIAMETERS AND DEPTH RANGES: 4" 0 TO 30ft; 3 7/8" 30 TO 165 ft

BOREHOLE TOTAL DEPTH AS DRILLED*: 165 ft

SURFACE CASING?: YES ☒ DEPTH TO BOTTOM OF CASING 30ft; NO
DEPTH TO BEDROCK: ~3.5 ft DEPTH TO WATER TABLE: ~1.0 ft
BOREHOLE FLUID: WATER; FRESH WATER MUD ☒; SALT WATER MUD
OTHER:

DEPTH TO BOREHOLE FLUID: ϕ TIME SINCE LAST CIRCULATION: 8:30am cc 3/24/08
8:00 am

LOGGING CREW: C. Carter
VEHICLE(S) USED AND MILEAGE:
MOBILIZED FROM: Florida City DEPARTURE TIME: 7:00am
ARRIVED ON SITE: 7:30am
STANDBY TIME: CAUSE:

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL

ACOUSTIC TELEVIEWER LOG COVER 1.0a.pdf



B-604DH ACOUSTIC TELEVIEWER FIELD LOG Rev 1.0a

Borehole*

SITE*: Turkey Point NPP DATE*: 3/24/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: C. Carter PAGE 2 OF 2

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

1 PROBE TILT TEST* 42.0 BRUNTON TILT* 42
2 PROBE TILT TEST* 89.67 BRUNTON TILT* 90
3 PROBE TILT TEST* 42.01 BRUNTON TILT* 42 AFTER LOG* yes
1 PROBE AZIMUTH TEST* 355.0 BRUNTON AZIMUTH* 356
2 PROBE AZIMUTH TEST* 35.0 BRUNTON AZIMUTH* 57
3 PROBE AZIMUTH TEST* 358.5 BRUNTON AZIMUTH* 353 AFTER LOG* yes

PROBE OFFSET*	1.44M(4.72FT)	
MINUS CASING STICK-UP*	~ 1.42	1.02
DEPTH REF. OFFSET AT START*	3.3	3.3
DEPTH REF. OFFSET AT END*	3.27	3.30
AFTER SURVEY DEPTH ERROR*	.03	0

REF TO GROUND SURFACE

LOG NAME*	START DEPTH*	START TIME	END DEPTH *	END TIME
B604DHAVUP03	160.4 ft	11:58	4.0 ft	12:06
B604DHAVUP04	121.1 ft	12:49	77.5 ft	1:05

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

1151 Pomona Road, Unit P, Corona, CA 92882

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

ELOG FIELD LOG REV 1.1a



B-608DH ELOG FIELD LOG

Borehole*

SITE*: Turkey Point NPP DATE*: 4/3/08
CLIENT*: MACTEC JOB*: 8083
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: Miami-Dade RANGE: TOWNSHIP: SECTION:
BOREHOLE CONSTRUCTION: CASED UNCASED ☒
DIAMETERS AND DEPTH RANGES: 4" 0 TO 117' ; 3 7/8" 117' TO 265 ft

BOREHOLE TOTAL DEPTH AS DRILLED*: 265 ft

SURFACE CASING?: YES ☒ DEPTH TO BOTTOM OF CASING 117' / 20'; NO
DEPTH TO BEDROCK: ~3 ft DEPTH TO WATER TABLE: ~1 ft
BOREHOLE FLUID: WATER; FRESH WATER MUD ☒; SALT WATER MUD
OTHER:
DEPTH TO BOREHOLE FLUID: 0 TIME SINCE LAST CIRCULATION: 9 am

LOGGING CREW: C. Carter
VEHICLE(S) USED AND MILEAGE:
MOBILIZED FROM: Florida City, FL DEPARTURE TIME: 6:45 am
ARRIVED ON SITE: 7 am
STANDBY TIME: CAUSE:

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL



B-608DH BORING GEOPHYSICS FIELD LOG SUMMARY

Borehole*

SITE*: Turkey Point NPP DATE*: 4/3/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: C. Carter PAGE*: 1 OF 1 cc 7/10/08

CONTACT: PHONE:

BOREHOLE CONSTRUCTION: CASSED UNCASSED ☒ X
DIAMETERS AND DEPTH RANGES: 4" 0 TO 117 ft; 3 1/8" 117 TO 263 ft
BOREHOLE TOTAL DEPTH AS DRILLED*: 263 ft
CONDUCTOR CASING?: YES ☒ X DEPTH TO BOTTOM OF CASING 117/20'; NO
DEPTH TO BEDROCK: ~ 3 ft
BOREHOLE FLUID: WATER; FRESH WATER MUD ☒ X; SALT WATER MUD

LOGGING CREW: C. Carter

LOG TYPE*	FILE NAME*	DEPTH RANGE*	DATE*	TIMES*
ELOG	B608DHELOGTEST01		4/3/08	8:18 - 8:19 am
ELOG	B608DHELOGUP01	262.35 - 112.75 ft	4/3/08	9:25 - 9:41 am
ELOG	B608DHELOGUP02	139.0 - 37.4 ft	4/3/08	3:26 - 3:36 pm
P-S velocity	B608DH SUSPDOWN01	119.75 - 249.35 ft	4/3/08	10:20 - 10:57 am
P-S velocity	B608DH SUSPDOWN02	22.97 - 127.95 ft	4/3/08	3:56 - 4:30 pm
Deviation	B608DHAUUP01	253.3 - 105.7 ft	4/3/08	11:46 - 11:54 am
Caliper	B608DHCALTEST01		4/3/08	12:16 - 12:17 pm
Caliper	B608DHCALUP01	254.35 - 109.7 ft	4/3/08	12:30 - 12:45 pm
Caliper	B608DHCALTEST02		4/3/08	1:00 - 1:01
Caliper	B608DHCALUP02	122.95 - 15.05 ft	4/3/08	2:49 - 3:00 pm
Caliper	B608DHCALTEST03		4/3/08	3:10 - 3:11 pm
ATV	B608DHAUUP02	120.3 - 19.8 ft	4/3/08	5:13 - 5:43 pm

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL

ELOG FIELD LOG REV 1.1a



B-608DH ELOG FIELD LOG
Borehole*

SITE*: Turkey Point NPP DATE*: 4/3/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: C. Carter 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 32.8
MINUS CASING STICK-UP*	1.67 1.67
DEPTH REF. OFFSET AT START*	39.33 39.33 REF TO GROUND SURFACE
DEPTH REF. OFFSET AT END*	39.30 39.30
AFTER SURVEY DEPTH ERROR*	.03 .03

LOG NAME*	START DEPTH*	START TIME	END DEPTH*	END TIME
B608DH ELOG TEST 01		8:18am		8:19am
B608DH ELOG UP 01	262.35'	9:25	112.75'	9:41am
B608DH ELOG UP 02	139.6'	3:26pm	37.4'	3:36

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

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

SUGGESTIONS, ADDITIONS, CHANGES:
Super gel is drilling mud
Cannot see drilling mud after casing is pulled to 20', no mud on cable, just water.

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL.

P-S FIELD LOG REV V1.31a



B-608DRT

P-S SUSPENSION VELOCITY FIELD LOG REV 1.31a

Borehole

SITE*: Turkey Point NPP DATE*: 4/3/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: C. Carter PAGE 1 OF * 6

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

DIRECTIONS TO SITE: _____

GENERAL SITE CONDITIONS/LOCATION: _____

COUNTY: Miami-Dade RANGE: _____ TOWNSHIP: _____ SECTION: _____
BOREHOLE CONSTRUCTION*: CASED _____ UNCASD ☒
DIAMETERS AND DEPTH RANGES*: 4" 0 TO 117' ; 3 1/8" 117' TO 263.5ft
BOREHOLE TOTAL DEPTH AS DRILLED*: 263.5ft
SURFACE CASING?: yes DEPTH TO BOTTOM OF CASING 117'/20'; NO
DEPTH TO BEDROCK: ~3' DEPTH TO WATER TABLE: ~1'
BOREHOLE FLUID: WATER _____; FRESH WATER MUD ☒; SALT WATER MUD; _____
OTHER: _____
DEPTH TO BOREHOLE FLUID*: ϕ TIME SINCE LAST CIRCULATION: 9am

ITEMS WITH * MUST BE COMPLETED, OTHER INFORMATION IS OPTIONAL
GEOVision Geophysical Services - 11511 Pomona Road, Suite P, Corona, CA 92602 (951) 549-1234 FX (951) 549-1236

P-S FIELD LOG REV V1.31a



B-608DH P-S SUSPENSION VELOCITY FIELD LOG REV 1.31a

Borehole*

SITE*: Turkey Point NPP DATE*: 7/3/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: C. Carter PAGE 2 OF 6

LOGGING CREW*: C. Carter
MOBILIZED FROM: Florida City, FL DEPARTURE TIME: 6:45 am
ARRIVED ON SITE: 7 am
STANDBY TIME: CAUSE:
LOGGING STARTED: LOGGING COMPLETED:

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* .51 .51
DEPTH REF. OFFSET AT START* 1.99 1.99
DEPTH REF. OFFSET AT END* 1.98 2.01
AFTER SURVEY DEPTH ERROR* .01 .02
REF TO GROUND SURFACE

LOG NAME*	START DEPTH*	START TIME	END DEPTH*	END TIME
B608DH SUSP DOWN 01	119.75'	10:20 am	249.34'	10:57 am
B608DH SUSP DOWN 02	22.97'	3:56 pm	127.95'	4:30 pm

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

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

SUGGESTIONS, ADDITIONS, CHANGES:
COMMENTS:

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL

GEOVision Geophysical Services 1151 Pomona Road, Suite P, Corona, CA 92882 (951) 549-1234 Fx (951) 549-1236

P-S FIELD LOG REV V1.31a

B-608BH **GEOVISION SUSPENSION LOGGING FIELD NOTES**

SITE*: Turkey Point NPP DATE*: 4/3/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: C. Carter PAGE* 3 OF 6

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			
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	81		3:56 pm
7.5	24.61	82		
8.0	26.25	83		
8.5	27.89	84		
9.0	29.53	85		
9.5	31.17	86		
10.0	32.81	87		
10.5	34.45	88		
11.0	36.09	89		
11.5	37.73	90		
12.0	39.37	91		
12.5	41.01	92		
13.0	42.65	93		
13.5	44.29	94		
14.0	45.93	95		
14.5	47.57	96		
15.0	49.21	97		
15.5	50.85	98		
16.0	52.49	99		
16.5	54.13	100		
17.0	55.77	101		
17.5	57.41	102		
18.0	59.06	103		
18.5	60.70	104		
19.0	62.34	105		
19.5	63.98	106		
20.0	65.62	107		
20.5	67.26	108		

P-S FIELD LOG REV V1.31a

3 - 6080H

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE*: Turkey Point NPP DATE*: 4/3/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: C. Carter PAGE*: 4 OF 6

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
21.0	68.90	109		
21.5	70.54	110		
22.0	72.18	111		
22.5	73.82	112		
23.0	75.46	113		
23.5	77.10	114		
24.0	78.74	115		
24.5	80.38	116		
25.0	82.02	117		
25.5	83.66	118		
26.0	85.30	119		
26.5	86.94	120		
27.0	88.58	121		
27.5	90.22	122		
28.0	91.86	123		
28.5	93.50	124		
29.0	95.14	125		
29.5	96.78	126		
30.0	98.43	127		
30.5	100.07	128		
31.0	101.71	129		
31.5	103.35	130		
32.0	104.99	131		
32.5	106.63	132		
33.0	108.27	133		
33.5	109.91	134		
34.0	111.55	135		
34.5	113.19	136		
35.0	114.83	137		
35.5	116.47	138		
36.0	118.11	139		
36.5	119.75	001 140		10:20 am
37.0	121.39	2 141		
37.5	123.03	3 142		
38.0	124.67	4 143		
38.5	126.31	5 144		
39.0	127.95	6 145		4:30 pm
39.5	129.59	7		
40.0	131.23	8		
40.5	132.87	9		
41.0	134.51	10		

P-S FIELD LOG REV V1.31a

B-6080H

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE*: Turkey Point NPP DATE*: 4/3/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: C. Carter PAGE* 5 OF 6

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
41.5	136.15	11		
42.0	137.80	12		
42.5	139.44	13		
43.0	141.08	14		
43.5	142.72	15		
44.0	144.36	16		
44.5	146.00	17		
45.0	147.64	18		
45.5	149.28	19		
46.0	150.92	20		
46.5	152.56	21		
47.0	154.20	22		
47.5	155.84	23		
48.0	157.48	24		
48.5	159.12	25		
49.0	160.76	26		
49.5	162.40	27		
50.0	164.04	28		
50.5	165.68	29		
51.0	167.32	30		
51.5	168.96	31		
52.0	170.60	32		
52.5	172.24	33		
53.0	173.88	34		
53.5	175.52	35		
54.0	177.17	36		
54.5	178.81	37		
55.0	180.45	38		
55.5	182.09	39		
56.0	183.73	40		
56.5	185.37	41		
57.0	187.01	42		
57.5	188.65	43		
58.0	190.29	44		
58.5	191.93	45		
59.0	193.57	46		
59.5	195.21	47		
60.0	196.85	48		
60.5	198.49	49		
61.0	200.13	50		
61.5	201.77	51		

P-S FIELD LOG REV V1.31a

B-608DH **GEOVISION SUSPENSION LOGGING FIELD NOTES**

SITE*: Turkey Point NPP DATE*: 4/3/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: C. Carter PAGE* 6 OF 6

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
62.0	203.41	52		
62.5	205.05	53		
63.0	206.69	54		
63.5	208.33	55		
64.0	209.97	56		
64.5	211.61	57		
65.0	213.25	58		
65.5	214.90	59		
66.0	216.54	60		
66.5	218.18	61		
67.0	219.82	62		
67.5	221.46	63		
68.0	223.10	64		
68.5	224.74	65		
69.0	226.38	66		
69.5	228.02	67		
70.0	229.66	68		
70.5	231.30	69		
71.0	232.94	70		
71.5	234.58	71		
72.0	236.22	72		
72.5	237.86	73		
73.0	239.50	74		
73.5	241.14	75		
74.0	242.78	76		
74.5	244.42	77		
75.0	246.06	78		
75.5	247.70	79		
76.0	249.34	80		10:57 am bit @ 76.19m
76.5	250.98			
77.0	252.62			
77.5	254.27			
78.0	255.91			
78.5	257.55			
79.0	259.19			
79.5	260.83			
80.0	262.47			
80.5	264.11			
81.0	265.75			
81.5	267.39			
82.0	269.03			

ACOUSTIC TELEVIEWER LOG COVER 1.0a.pdf



B-608041 ACOUSTIC TELEVIEWER FIELD LOG Rev 1.0a

Borehole*

SITE*: Turkey Point NPP DATE*: 4/3/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: C. Carter 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: Miami-Dade RANGE: TOWNSHIP: SECTION:
BOREHOLE CONSTRUCTION: CASED UNCASD X
DIAMETERS AND DEPTH RANGES: 4" 0 TO 117' ; 3 1/8" 117' TO 263'

BOREHOLE TOTAL DEPTH AS DRILLED*: 263 ft

SURFACE CASING?: YES X DEPTH TO BOTTOM OF CASING 117' ; NO
DEPTH TO BEDROCK: ~3 ft DEPTH TO WATER TABLE: ~1 ft
BOREHOLE FLUID: WATER ; FRESH WATER MUD X ; SALT WATER MUD
OTHER:
DEPTH TO BOREHOLE FLUID: 0 TIME SINCE LAST CIRCULATION: 9 am

LOGGING CREW: C. Carter
VEHICLE(S) USED AND MILEAGE:
MOBILIZED FROM: Florida City DEPARTURE TIME: 6:45 am
ARRIVED ON SITE: 7 am
STANDBY TIME: CAUSE:

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL

ACOUSTIC TELEVIEWER LOG COVER 1.0a.pdf



B-6080H ACOUSTIC TELEVIEWER FIELD LOG Rev 1.0a

Borehole*

SITE*: Turkey Point NPP DATE*: 4/3/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: C. Carter PAGE 2 OF 2

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

1 PROBE TILT TEST* 54.17 BRUNTON TILT* 54
2 PROBE TILT TEST* 89.47 BRUNTON TILT* 89
3 PROBE TILT TEST* 11.42 BRUNTON TILT* 11 AFTER LOG* yes
1 PROBE AZIMUTH TEST* 186.0 BRUNTON AZIMUTH* 180
2 PROBE AZIMUTH TEST* 173.8 BRUNTON AZIMUTH* 75
3 PROBE AZIMUTH TEST* 145.0 BRUNTON AZIMUTH* 149 AFTER LOG* yes

PROBE OFFSET*	1.44M(4.72FT)	} REF TO GROUND SURFACE
MINUS CASING STICK-UP*	<u>-1.67</u>	
DEPTH REF. OFFSET AT START*	<u>3.05</u>	
DEPTH REF. OFFSET AT END*	<u>3.02</u>	
AFTER SURVEY DEPTH ERROR*	<u>.03</u>	

LOG NAME*	START DEPTH*	START TIME	END DEPTH *	END TIME
B6080H AVUP01	253.3 ft	11:46am	105.7 ft	11:54am

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

1151 Pomona Road, Unit P, Corona, CA 92882

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

CALIPER FIELD LOG REV 1.1a.PDF



B-60804

CALIPER FIELD LOG

Borehole*

SITE*: Turkey Point NPP DATE*: 4/3/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: C. Carter 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: 4" 0 TO 117 ; 3 7/8" 117 TO 263 ft

BOREHOLE TOTAL DEPTH AS DRILLED*: 263 ft

SURFACE CASING?: YES ☒ DEPTH TO BOTTOM OF CASING 117' / 20' ; NO
DEPTH TO BEDROCK: ~ 3 ft DEPTH TO WATER TABLE: ~ 1 ft
BOREHOLE FLUID: WATER ; FRESH WATER MUD ☒ ; SALT WATER MUD
OTHER:
DEPTH TO BOREHOLE FLUID: 0 TIME SINCE LAST CIRCULATION: 9 am

LOGGING CREW: C. Carter
VEHICLE(S) USED AND MILEAGE:
MOBILIZED FROM: Florida City, FL DEPARTURE TIME: 6:45 am
ARRIVED ON SITE: 7 am
STANDBY TIME: CAUSE:

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL

CALIPER FIELD LOG REV 1.1a.PDF



B-608 DH Borehole* CALIPER FIELD LOG

SITE*: Turkey Point NPP DATE*: 4/3/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: C. Carter PAGE: PAGE 2 OF 2

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

PROBE OFFSET	2.08M(6.82 FT)	12 IN MAX
MINUS CASING STICK-UP*	1.67 1.67	
DEPTH REF. OFFSET AT START*	5.15 5.15	REF TO GROUND SURFACE
DEPTH REF. OFFSET AT END*	5.05 5.05	
AFTER SURVEY DEPTH ERROR*	10 1.05	

LOG NAME*	START DEPTH*	START TIME*	END DEPTH*	END TIME*
B608DHCALEST01		12:16		12:17
B608DHCALEUP01	254.35'	12:30	109.7 ft	12:45 pm
B608DHCALEST02		1:00		1:01 pm
B608DHCALEUP02	122.55'	2:49	15.05'	3:00 pm
B608DHCALEST03		3:10		3:11 pm

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)	4.607 IN (114.3 MM)
AS MEAS.*	B608DHCALEST01	1.95	3.908	8.01	4.502
AS MEAS.*	B608DHCALEST02	2.00	3.94	8.04	4.506
AS MEAS.	B608DHCALEST03	1.99	3.95	7.98	4.53
AS MEAS.					
AS MEAS.					
AS MEAS.					

4.516 cc 4/3/08

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

1151 Pomona Road, Unit P, Corona, CA 92882

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

ACOUSTIC TELEVIEWER LOG COVER 1.0a.pdf



B-6080H ACOUSTIC TELEVIEWER FIELD LOG Rev 1.0a

Borehole*

SITE*: Turkey Point NPP DATE*: 4/3/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: C. Carter 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: Miami-Dade RANGE: TOWNSHIP: SECTION:
BOREHOLE CONSTRUCTION: CASED UNCASED X cc 7/24/08
DIAMETERS AND DEPTH RANGES: 4" 0 TO 117; 3 1/8 117 TO 263

BOREHOLE TOTAL DEPTH AS DRILLED*: 263

SURFACE CASING?: YES X DEPTH TO BOTTOM OF CASING 20'; NO
DEPTH TO BEDROCK: ~3 ft DEPTH TO WATER TABLE: ~1 ft
BOREHOLE FLUID: WATER; FRESH WATER MUD*; SALT WATER MUD

OTHER:
DEPTH TO BOREHOLE FLUID: 0 TIME SINCE LAST CIRCULATION: 1 am

LOGGING CREW: C. Carter
VEHICLE(S) USED AND MILEAGE:
MOBILIZED FROM: Florida City DEPARTURE TIME: 6:14 am
ARRIVED ON SITE: 1 am
STANDBY TIME: CAUSE:

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL

ACOUSTIC TELEVIEWER LOG COVER 1.0a.pdf



B-60804 ACOUSTIC TELEVIEWER FIELD LOG Rev 1.0a

Borehole*

SITE*: Turkey Point NPP DATE*: 4/3/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: C. Carter PAGE 2 OF 2

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

1 PROBE TILT TEST* 89.86 BRUNTON TILT* 90
2 PROBE TILT TEST* 33.13 BRUNTON TILT* 34
3 PROBE TILT TEST* 26.44 BRUNTON TILT* 26 AFTER LOG* yes
1 PROBE AZIMUTH TEST* 173.7 BRUNTON AZIMUTH* 174
2 PROBE AZIMUTH TEST* 93.8 BRUNTON AZIMUTH* 99
3 PROBE AZIMUTH TEST* 254.7 BRUNTON AZIMUTH* 260 AFTER LOG* yes

PROBE OFFSET*	1.44M(4.72FT)	} REF TO GROUND SURFACE
MINUS CASING STICK-UP*	<u>1.67</u>	
DEPTH REF. OFFSET AT START*	<u>3.05</u>	
DEPTH REF. OFFSET AT END*	<u>3.00</u>	
AFTER SURVEY DEPTH ERROR*	<u>.05</u>	

LOG NAME*	START DEPTH*	START TIME	END DEPTH *	END TIME
B6080400002	<u>120.3 ft</u>	<u>5:13 pm</u>	<u>19.8</u>	<u>5:43 pm</u>

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

1151 Pomona Road, Unit P, Corona, CA 92882

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



B-610DH BORING GEOPHYSICS FIELD LOG SUMMARY

Borehole*

SITE*: Turkey Point NPP DATE*: 4/2/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: C. Carter PAGE*: 1 OF 1 cc7/10/08

CONTACT: PHONE:

BOREHOLE CONSTRUCTION: CASED UNCASED ☒
DIAMETERS AND DEPTH RANGES: 4" 0 TO 105 ft; 3 1/8" 105 TO 269 ft
BOREHOLE TOTAL DEPTH AS DRILLED*: 269 ft
CONDUCTOR CASING?: YES ☒ DEPTH TO BOTTOM OF CASING 105/20 ft; NO
DEPTH TO BEDROCK: ~ 3 ft
BOREHOLE FLUID: WATER; FRESH WATER MUD ☒; SALT WATER MUD
LOGGING CREW: C. Carter

LOG TYPE*	FILE NAME*	DEPTH RANGE*	DATE*	TIMES*
ELOG	B610DHELOGTEST01		4/2/08	9:40 - 9:41 am
ELOG	B610DHELOGUP01	266.45 - 102.7 ft	4/2/08	11:32 - 11:50 am
ELOG	B610DHELOGUP02	124.2 - 39.35 ft	4/2/08	4:51 - 4:59 pm
P-S velocity	B610DHSUSPDOWN01	106.6 - 250.9 ft	4/2/08	12:34 - 1:27 pm
P-S velocity	B610DHSUSPDOWN02	22.97 - 113.2 ft	4/2/08	5:21 - 5:52 pm
Deviation	B610DHAUUP01	252.2 - 102.3 ft	4/2/08	2:21 - 2:30 pm
Caliper	B610DHCAUUP01		4/2/08	2:49 - 2:50 pm
Caliper	B610DHCAUUP01	256.15 - 98.7 ft	4/2/08	3:06 - 3:21 pm
Caliper	B610DHCAUUP02		4/2/08	3:36 - 3:37 pm
Caliper	B610DHCAUUP02	111.45 - 14.7 ft	4/2/08	4:12 - 4:22 pm
Caliper	B610DHCAUUP03		4/2/08	4:31 - 4:32 pm
ATV	B610DHAUUP02	120.9 - 19 ft	4/2/08	6:55 - 7:21 pm

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL.

ELOG FIELD LOG REV 1.1a



B-610 DH

ELOG FIELD LOG

Borehole*

SITE*: Turkey Point NPP
CLIENT*: MACTEC
AUTHOR*: C. Carter
DATE*: 4/2/08
JOB*: 8083
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: Miami-Dade RANGE: _____ TOWNSHIP: _____ SECTION: _____
BOREHOLE CONSTRUCTION: CASED _____ UNCASD ☒
DIAMETERS AND DEPTH RANGES: 4" 0 TO 105 ft; 3 7/8" 105 TO 269 ft

BOREHOLE TOTAL DEPTH AS DRILLED*: 269 ft

SURFACE CASING?: YES ☒ DEPTH TO BOTTOM OF CASING 105/20'; NO _____
DEPTH TO BEDROCK: ~3 ft DEPTH TO WATER TABLE: ~1 ft
BOREHOLE FLUID: WATER _____; FRESH WATER MUD ☒; SALT WATER MUD _____
OTHER: _____
DEPTH TO BOREHOLE FLUID: 0 TIME SINCE LAST CIRCULATION: 16 am

LOGGING CREW: C. Carter
VEHICLE(S) USED AND MILEAGE: _____
MOBILIZED FROM: Florida City, FL DEPARTURE TIME: 6:45 am
ARRIVED ON SITE: 7 am
STANDBY TIME: _____ CAUSE: _____

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL

ELOG FIELD LOG REV 1.1a



B-610 DH ELOG FIELD LOG
Borehole*

SITE*: Turkey Point NPP DATE*: 4/2/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: C. Carter 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 32.8
MINUS CASING STICK-UP*	-1.08 -1.5
DEPTH REF. OFFSET AT START*	39.92 39.5 REF TO GROUND SURFACE
DEPTH REF. OFFSET AT END*	40.00 39.59
AFTER SURVEY DEPTH ERROR*	.08 .05

LOG NAME*	START DEPTH*	START TIME	END DEPTH*	END TIME
B610DH ELOG TEST 01		9:40am		9:41am
B610DH ELOG UP01	266.45 ft	11:32am	102.7 ft	11:50am
B610DH ELOG UP02	124.2 ft	4:51pm	39.35	4:59pm

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

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

SUGGESTIONS, ADDITIONS, CHANGES: Drillers used tiger salt, sure mud
+ 1 bag soda ash super gel x, 1 bag high grade bentonite

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL

P-S FIELD LOG REV V1.31a



B-610D-H P-S SUSPENSION VELOCITY FIELD LOG REV 1.31a

Borehole

SITE*: Turkey Point NPP DATE*: 4/2/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: C. Carter PAGE 1 OF * 6

CONTACT: _____ PHONE: Off Cell _____

CONTACT: _____ PHONE: Off Cell _____

CONTACT: _____ PHONE: Off Cell _____

CONTACT: _____ PHONE: Off Cell _____

DIRECTIONS TO SITE: _____

GENERAL SITE CONDITIONS/LOCATION: _____

COUNTY: Miami-Dade RANGE: _____ TOWNSHIP: _____ SECTION: _____

BOREHOLE CONSTRUCTION*: CASED UNCASED X

DIAMETERS AND DEPTH RANGES*: 4" 0 TO 103 ft; 3 7/8" 105 TO 268 ft

BOREHOLE TOTAL DEPTH AS DRILLED*: 269 ft

SURFACE CASING?: yes DEPTH TO BOTTOM OF CASING 105/106'; NO _____

DEPTH TO BEDROCK: ~3 ft DEPTH TO WATER TABLE: ~1 ft

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

OTHER: _____

DEPTH TO BOREHOLE FLUID*: 4 TIME SINCE LAST CIRCULATION: 11 am

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL
GEOVision Geophysical Services—11511 Pomona Road, Suite P, Corona, CA 92602 (951) 549-1234 Fx (951) 549-1236

P-S FIELD LOG REV V1.31a



B-610DH P-S SUSPENSION VELOCITY FIELD LOG REV 1.31a
Borehole*

SITE*: Turkey Point NPP DATE*: 4/2/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: C. Carter PAGE 2 OF * 6

LOGGING CREW*: C. Carter
MOBILIZED FROM: Florida City, FL DEPARTURE TIME: 6:45am
ARRIVED ON SITE: 7:00 am
STANDBY TIME: CAUSE:
LOGGING STARTED: LOGGING COMPLETED:

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* .37 | .46
DEPTH REF. OFFSET AT START* 2.17 | 2.04
DEPTH REF. OFFSET AT END* 2.16 | 2.05
AFTER SURVEY DEPTH ERROR* .01 | .01
REF TO GROUND SURFACE

LOG NAME*	START DEPTH*	START TIME	END DEPTH*	END TIME
B610DH SUSPDOWN01	106.6'	12:34	250.98'	1:27 pm
B610DH SUSPDOWN02	22.97'	5:21 pm	113.2'	5:52 pm

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

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

SUGGESTIONS, ADDITIONS, CHANGES:
COMMENTS:

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL

GEOVision Geophysical Services 1151 Pomona Road, Suite P, Corona, CA 92626 (951) 549-1234 Fx (951) 549-1236

P-S FIELD LOG REV V1.31a

13-61004

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE*: Turkey Point NPP

DATE*: 4/2/08

CLIENT*: MACTEC

JOB*: 8083

AUTHOR*: C. Carter

PAGE* 3 OF 6

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			
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	90		5'21
7.5	24.61	91		
8.0	26.25	92		
8.5	27.89	93		
9.0	29.53	94		
9.5	31.17	95		
10.0	32.81	96		
10.5	34.45	97		
11.0	36.09	98		
11.5	37.73	99		
12.0	39.37	100		
12.5	41.01	101		
13.0	42.65	102		
13.5	44.29	103		
14.0	45.93	104		
14.5	47.57	105		
15.0	49.21	106		
15.5	50.85	107		
16.0	52.49	108		
16.5	54.13	109		
17.0	55.77	110		
17.5	57.41	111		
18.0	59.06	112		
18.5	60.70	113		
19.0	62.34	114		
19.5	63.98	115		
20.0	65.62	116		
20.5	67.26	117		

P-S FIELD LOG REV V1.31a

B-610011

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE*: Turkey Point NPP

DATE*: 4/2/08

CLIENT*: MACTEC

JOB*: 8083

AUTHOR*: C. Carter

PAGE*: 4

OF 6

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
21.0	68.90	118		
21.5	70.54	119		
22.0	72.18	120		
22.5	73.82	121		
23.0	75.46	122		
23.5	77.10	123		
24.0	78.74	124		
24.5	80.38	125		
25.0	82.02	126		
25.5	83.66	127		
26.0	85.30	128		
26.5	86.94	129		
27.0	88.58	130		
27.5	90.22	131		
28.0	91.86	132		
28.5	93.50	133		
29.0	95.14	134		
29.5	96.78	135		
30.0	98.43	136		
30.5	100.07	137		
31.0	101.71	138		
31.5	103.35	139		
32.0	104.99	140		
32.5	106.63	001 141		12-134
33.0	108.27	2 142		
33.5	109.91	3 143		
34.0	111.55	4 144		
34.5	113.19	5 145		5:52
35.0	114.83	6		
35.5	116.47	7		
36.0	118.11	8		
36.5	119.75	9		
37.0	121.39	10		
37.5	123.03	11		
38.0	124.67	12		
38.5	126.31	13		
39.0	127.95	14		
39.5	129.59	15		
40.0	131.23	16		
40.5	132.87	17		
41.0	134.51	18		