

ELOG FIELD LOG REV 1.1a



Borehole

ELOG FIELD LOG

SITE*: Turkey Point NPP DATE*: 4/20/08
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*	2.25	
DEPTH REF. OFFSET AT START*	38.75	} REF TO GROUND SURFACE
DEPTH REF. OFFSET AT END*	38.55	
AFTER SURVEY DEPTH ERROR*	.2	

LOG NAME*	START DEPTH*	START TIME	END DEPTH*	END TIME
B7010HELOGTEST02		8:22		8:23
B7010HELOGUP02	456.9	11:39	369.15	11:48

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

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

SUGGESTIONS, ADDITIONS, CHANGES:
Quick gel, super gel x sure mud, tiger
salt + tiger mud used for drilling mud

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL

P-S FIELD LOG REV 1.31a



B-70104 P-S SUSPENSION VELOCITY FIELD LOG REV 1.31a

Borehole

SITE*: Turkey Point COL DATE*: 4/21/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: C-Contar 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: _____ RANGE: _____ TOWNSHIP: _____ SECTION: _____
BOREHOLE CONSTRUCTION*: CASED _____ UNCASD X
DIAMETERS AND DEPTH RANGES*: 4" 0 TO 160 ft; 3 7/8" 160 TO 457.5 ft
BOREHOLE TOTAL DEPTH AS DRILLED*: 457.5 ft
SURFACE CASING?: yes DEPTH TO BOTTOM OF CASING 160 ft; 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: 10:30 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-701DH P-S SUSPENSION VELOCITY FIELD LOG REV 1.31a

Borehole*

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

LOGGING CREW*: C. Carter
MOBILIZED FROM: Florida City DEPARTURE TIME: 7:00 am
ARRIVED ON SITE: 7:15 am
STANDBY TIME: _____ CAUSE: _____
LOGGING STARTED: _____ LOGGING COMPLETED: _____

BATTERIES CHANGED BEFORE LOGGING: YES _____; NO X; 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 in no s/n
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* .76
DEPTH REF. OFFSET AT START* 1.79
DEPTH REF. OFFSET AT END* 1.70
AFTER SURVEY DEPTH ERROR* .09 } REF TO GROUND SURFACE

LOG NAME*	START DEPTH*	START TIME	END DEPTH*	END TIME
<u>B701DH SUSP DOWN 02</u>	<u>39.7</u>	<u>12:45</u>	<u>434.7</u>	<u>1:08</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 92626 (951) 549-1234 Fx (951) 549-1236

P-S FIELD LOG REV V1.31a

B-70604

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE*: Turkey Point NPP

DATE*: 4/17/08 4/21/08

CLIENT*: MACTEC

JOB*: 8083

AUTHOR*: C. Carter

PAGE* 23 OF 784 4/21/08

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
103.0	337.93	135		
103.5	339.57	136		
104.0	341.21	137		
104.5	342.85	138		
105.0	344.49	139		
105.5	346.13	140		
106.0	347.77	141		
106.5	349.41	142		
107.0	351.05	143		
107.5	352.69	144		
108.0	354.33	145		
108.5	355.97	146		
109.0	357.61	147		
109.5	359.25	148		
110.0	360.89	149		
110.5	362.53	150		
111.0	364.17	151		
111.5	365.81	152		
112.0	367.45	153		
112.5	369.09	154		
113.0	370.73	155		
113.5	372.38	156		
114.0	374.02	157		
114.5	375.66	158		
115.0	377.30	159		
115.5	378.94	160		
116.0	380.58	161		
116.5	382.22	162		
117.0	383.86	163		
117.5	385.50	164		
118.0	387.14	165		
118.5	388.78	166		
119.0	390.42	167		
119.5	392.06	168		
120.0	393.70	169		
120.5	395.34	170		
121.0	396.98	171	176	12:45 4/21
121.5	398.62	172	177	
122.0	400.26	173	178	
122.5	401.90	174	179	
123.0	403.54	175	180	

P-S FIELD LOG REV V1.31a

B-701014 GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE*: Turkey Point NPP DATE*: 4/21/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: C. Carter PAGE*: 4 OF 4 cur 10/08
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
123.5	405.18	181		
124.0	406.82	182		
124.5	408.46	183		
125.0	410.10	184		
125.5	411.75	185		
126.0	413.39	186		
126.5	415.03	187		
127.0	416.67	188		
127.5	418.31	189		
128.0	419.95	190		
128.5	421.59	191		
129.0	423.23	192		
129.5	424.87	193		
130.0	426.51	194		
130.5	428.15	195		
131.0	429.79	196		
131.5	431.43	197		
132.0	433.07	198		
132.5	434.71	197		108
133.0	436.35			
133.5	437.99			
134.0	439.63			
134.5	441.27			
135.0	442.91			
135.5	444.55			
136.0	446.19			
136.5	447.83			
137.0	449.48			
137.5	451.12			
138.0	452.76			
138.5	454.40			
139.0	456.04			
139.5	457.68			
140.0	459.32			
140.5	460.96			
141.0	462.60			
141.5	464.24			
142.0	465.88			
142.5	467.52			
143.0	469.16			
143.5	470.80			

CALIPER FIELD LOG REV 1.1a.PDF



B-701 DA

CALIPER FIELD LOG

Borehole*

SITE*: Turkey Point NPP DATE*: 4/21/08
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: cc 4/21/08
BOREHOLE CONSTRUCTION: CASED UNCASD ☒
DIAMETERS AND DEPTH RANGES: ~~4 1/4~~ 4" 0 TO 160 ft; 3 7/8", 160 ft TO ~~457.5~~ 457.5' cc 4/21/08

BOREHOLE TOTAL DEPTH AS DRILLED*: 457.5

SURFACE CASING?: YES ☒ DEPTH TO BOTTOM OF CASING 160'; 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: ϕ TIME SINCE LAST CIRCULATION: 10:30 am

LOGGING CREW: C. Carter

VEHICLE(S) USED AND MILEAGE:

MOBILIZED FROM: Florida City, FL DEPARTURE TIME: 7:00 am

ARRIVED ON SITE: 7:15 am

STANDBY TIME: CAUSE:

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL

CALIPER FIELD LOG REV 1.1a PDF



B-701DH CALIPER FIELD LOG
Borehole*

SITE*: Turkey Point NPP DATE*: 4/24/08
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 10' ☐ 102' ☒ 10' RG ☐

PROBE OFFSET 2.08M(6.82 FT)
MINUS CASING STICK-UP* cc 4/24/08 2.5 cc 4/24/08 12 IN MAX
DEPTH REF. OFFSET AT START* 4.57 4.82 REF TO GROUND SURFACE
DEPTH REF. OFFSET AT END* 4.10
AFTER SURVEY DEPTH ERROR* 22

LOG NAME*	START DEPTH*	START TIME*	END DEPTH*	END TIME*
B701DH CAL TEST 03		11:21		11:22 am
B701DH CAL UP 02	455.85 ft	11:43	389.65 ft	11:50 am
B701DH CAL TEST 04		12:08		12:10 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.*	B701DH CAL TEST 03	1.976	3.97	8.04	4.55
AS MEAS.*	B701DH CAL TEST 04	2.02	3.92	8.01	4.55
AS MEAS.					
AS MEAS.					
AS MEAS.					
AS MEAS.					

4.510" cc 4/24/08

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

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

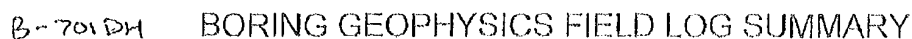
SUGGESTIONS, ADDITIONS, CHANGES:

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL

GEOVision Geophysical Services

1151 Pomona Road, Unit P, Corona, CA 92882

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



Borehole[®]

DATE: 5/3/08

JOB*:8083

AUTHOR: ~~C. Carter~~ D. STELLER 5/3/08

PAGE*: 1 OF 1

PHONE:

UNCASED ✓

DIAMETERS AND DEPTH RANGES: 6" 0 TO 457 FT 3.88" 457 TO 555.5 FT

BOREHOLE TOTAL DEPTH AS DRILLED*: 558.5 FT

CONDUCTOR CASING?: YES ☒ DEPTH TO BOTTOM OF CASING 457 FT; NO (403.200)

DEPTH TO BEDROCK: 23 ft

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

LOGGING CREW: 2. STEWEL

[illegible]

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL

ELOG FIELD LOG REV 1.1a



B-701DH ELOG FIELD LOG
Borehole*

SITE*: Turkey Point NPP DATE*: 5/3/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: G. Carter R. STEWART PAGE: 1 OF 2
5/3/08

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: 6" 0 TO 457'; 3.08, 457' TO 555.5'

BOREHOLE TOTAL DEPTH AS DRILLED*: 555.5 FT (HQ8 ROD)

SURFACE CASING?: YES ☒ DEPTH TO BOTTOM OF CASING 457'; NO _____
DEPTH TO BEDROCK: 12 FT DEPTH TO WATER TABLE: 20
BOREHOLE FLUID: WATER _____; FRESH WATER MUD ☒; SALT WATER MUD _____;
OTHER: _____
DEPTH TO BOREHOLE FLUID: Ø TIME SINCE LAST CIRCULATION: 2 1/2 HR

LOGGING CREW: G. Carter R. STEWART 5/3/08
VEHICLE(S) USED AND MILEAGE: PERMAN
MOBILIZED FROM: Florida City, FL DEPARTURE TIME: 07:00
ARRIVED ON SITE: 07:30
STANDBY TIME: NA CAUSE: NA

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL

ELOG FIELD LOG REV 1.1a



3710 DH ELOG FIELD LOG
Borehole*

SITE*: Turkey Point NPP DATE*: 6/3/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: G. Carter P. STELLER PAGE: PAGE 2 OF 2
5/3/08

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*	- 3.3'
DEPTH REF. OFFSET AT START*	37.7' REF TO GROUND SURFACE
DEPTH REF. OFFSET AT END*	37.6'
AFTER SURVEY DEPTH ERROR*	- 0.1'

LOG NAME*	START DEPTH*	START TIME	END DEPTH*	END TIME
3710 DH ELOG TEST 03	0	08:50	0	09:56
3710 DH ELOG 03	555.0	09:14	457.0'	09:26

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

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

SUGGESTIONS, ADDITIONS, CHANGES: N/A

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-701DH CALIPER FIELD LOG

Borehole*

SITE*: Turkey Point NPP DATE*: 5/3/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: G. Carter R. STEUER 5/3/08 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 ☒
DIAMETERS AND DEPTH RANGES: 6" 0 TO 457'; 3.88", 457 TO 555.5 FT

BOREHOLE TOTAL DEPTH AS DRILLED*: 555.5 FT

SURFACE CASING?: YES ☒ DEPTH TO BOTTOM OF CASING 457 FT NO _____
DEPTH TO BEDROCK: 13 FT DEPTH TO WATER TABLE: 20
BOREHOLE FLUID: WATER _____; FRESH WATER MUD ☒; SALT WATER MUD _____;
OTHER: _____
DEPTH TO BOREHOLE FLUID: Ø TIME SINCE LAST CIRCULATION: 01 HR

LOGGING CREW: G. Carter R. STEUER 5/3/08
VEHICLE(S) USED AND MILEAGE: RENTAL
MOBILIZED FROM: Florida City, FL DEPARTURE TIME: 07:00
ARRIVED ON SITE: 07:30
STANDBY TIME: NA CAUSE: NA

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL

CALIPER FIELD LOG REV 1.1a.PDF



B-701DH

CALIPER FIELD LOG

Borehole*

SITE*: Turkey Point NPP DATE*: 8/2/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: G. Carter R. Stewen 1/24/08 PAGE: PAGE 2 OF 2

WINCH: COMPROBE SILVER ☒ OYO RG OTHER
MICROLOGGER* 5310 5772 ☒ OTHER
CALIPER PROBE* 5368 ☒ OTHER
SHEAVE* COMPROBE ☐ OYO 10' ☐ 10' ☒ 10' RG ☐

PROBE OFFSET	2.08M(6.82 FT)	12 IN MAX
MINUS CASING STICK-UP*	3.3'	REF TO GROUND SURFACE
DEPTH REF. OFFSET AT START*	3.52'	
DEPTH REF. OFFSET AT END*	3.55'	
AFTER SURVEY DEPTH ERROR*	+0.03'	

LOG NAME*	START DEPTH*	START TIME*	END DEPTH*	END TIME*
B701DHCAUTEST05	0	9:52	0	9:56
B701DHCAUTEST03	353.0'	10:10	451.0'	10:23
B701DHCAUTEST06	0	10:36	0	10:39

CALIBRATION PLATE S/N 201		AS BUILT			PVC FITTING
	FILE NAME	1.968 IN (50 MM)	3.937 IN (100 MM)	8.000 IN (203.2 MM)	4.507 IN (114.3 MM)
AS MEAS.*	B701DHCAUTEST05	1.96	3.92	7.99	4.56
AS MEAS.*	B701DHCAUTEST06	1.98	3.94	8.00	4.56
AS MEAS.					
AS MEAS.					
AS MEAS.					
AS MEAS.					

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

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

SUGGESTIONS, ADDITIONS, CHANGES: NA

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

P-S FIELD LOG REV 1.31a



B-701 DH P-S SUSPENSION VELOCITY FIELD LOG REV 1.31a

Borehole

SITE*: Turkey Point NPP DATE*: 5/3/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: G. Carter Q. STELLER 5/3/08 PAGE 1 OF * 5

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*: 6" 0 TO 457 FT ; 3.88" 457 TO 555.5 FT

BOREHOLE TOTAL DEPTH AS DRILLED*: 555.5 FT

SURFACE CASING?: YES DEPTH TO BOTTOM OF CASING 457 FT ; NO (HQ3 ROD)

DEPTH TO BEDROCK: 3 FT DEPTH TO WATER TABLE: 0

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

OTHER:

DEPTH TO BOREHOLE FLUID*: 0 TIME SINCE LAST CIRCULATION: 2 HR

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL.
GEOVision Geophysical Services - 1154 Pomona Road, Suite P, Corona, CA 92622 (951) 549-1234 Fx (951) 549-1236

P-S FIELD LOG REV V1.31a



B-701DH P-S SUSPENSION VELOCITY FIELD LOG REV 1.31a

Borehole*

SITE*: Turkey Point NPP DATE*: 5/3/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: G. Garter R. STEVEN 5/3/08 PAGE 2 OF * 5

LOGGING CREW*: G. Garter R. STEVEN 5/3/08
MOBILIZED FROM: Florida City, FL DEPARTURE TIME: 07:00
ARRIVED ON SITE: 07:30
STANDBY TIME: CAUSE:
LOGGING STARTED: 11:17 LOGGING COMPLETED: 12:20

BATTERIES CHANGED BEFORE LOGGING: YES ☒; NO ☐; STORED WITH NEW ☐
WINCH COMPROBE ☐ GREY ☐ OYO ☐ RG ☐ OTH Slower
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* 1.0m
DEPTH REF. OFFSET AT START* 1.5m
DEPTH REF. OFFSET AT END* 1.5m
AFTER SURVEY DEPTH ERROR* 0
REF TO GROUND SURFACE

LOG NAME*	START DEPTH*	START TIME	END DEPTH*	END TIME
B701DH SUSP DOWN 03	140m	11:17	151.0m	11:31
B701DH SUSP DOWN 04	150.5m	11:33	159.5m	12:20

MAINTENANCE PERFORMED ON SITE*: N/A (N/A if none)
EQUIPMENT PROBLEMS OR FAILURES*: N/A (N/A if none)
SUGGESTIONS, ADDITIONS, CHANGES: N/A
COMMENTS:

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL.
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P-S FIELD LOG REV V1.31a

B-701 DH **GEOVISION SUSPENSION LOGGING FIELD NOTES**

SITE*: TRUCKEE POINT COL DATE*: 5/2/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: R. STELLER PAGE* 3 OF 5

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
123.5	405.18			
124.0	406.82			
124.5	408.46			
125.0	410.10			
125.5	411.75			
126.0	413.39			
126.5	415.03			
127.0	416.67			
127.5	418.31			
128.0	419.95			
128.5	421.59			
129.0	423.23			
129.5	424.87			
130.0	426.51			
130.5	428.15			
131.0	429.79			
131.5	431.43			
132.0	433.07			
132.5	434.71			
133.0	436.35			
133.5	437.99			
134.0	439.63			
134.5	441.27			
135.0	442.91			
135.5	444.55			
136.0	446.19			
136.5	447.83			
137.0	449.48			
137.5	451.12			
138.0	452.76			
138.5	454.40			
139.0	456.04			
139.5	457.68	373		H&B ROD TO 457 FT
140.0	459.32	300 372		
140.5	460.96	301 371		
141.0	462.60	302 370		
141.5	464.24	303 369		
142.0	465.88	304 368		
142.5	467.52	305 367		
143.0	469.16	306 366		
143.5	470.80	307 365		

P-S FIELD LOG REV V1.31a

B-701DH **GEOVISION SUSPENSION LOGGING FIELD NOTES**

SITE*: TURKEY POINT COL DATE*: 5/3/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: R. STELLER PAGE*: 4 OF 5

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

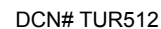
DEPTH METERS	DEPTH FEET	UNFILTERED FILE NO*	FILTERED FILE NO* (if any)	COMMENTS CASING, WATER, ROCK, ETC
144.0	472.44	308 364		
144.5	474.08	309 363		
145.0	475.72	310 362		
145.5	477.36	311 361		
146.0	479.00	312 360		
146.5	480.64	313 359		
147.0	482.28	314 358		
147.5	483.92	315 357		
148.0	485.56	316 356		
148.5	487.20	317 355		
149.0	488.85	318 354		
149.5	490.49	319 353		
150.0	492.13	320 352		
150.5	493.77	321 351		
151.0	495.41	322		
151.5	497.05	323		
152.0	498.69	324		
152.5	500.33	325		
153.0	501.97	326		
153.5	503.61	327		
154.0	505.25	328		
154.5	506.89	329		
155.0	508.53	330		
155.5	510.17	331		
156.0	511.81	332		
156.5	513.45	333		
157.0	515.09	334		
157.5	516.73	335		
158.0	518.37	336		
158.5	520.01	337		
159.0	521.65	338		
159.5	523.29	339		
160.0	524.93	340		
160.5	526.57	341		
161.0	528.22	342		
161.5	529.86	343		
162.0	531.50	344		
162.5	533.14	345		
163.0	534.78	346		
163.5	536.42	347		
164.0	538.06	348		

P-S FIELD LOG REV V1.31a

B-701 DA **GEOVISION SUSPENSION LOGGING FIELD NOTES**
 SITE*: TURKEY POINT COL DATE*: 5/3/08
 CLIENT*: MACTEC JOB*: 8083
 AUTHOR*: P. STEUER PAGE* 5 OF 5

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
164.5	539.70	349		
165.0	541.34	350		
165.5	542.98			BOTTOM MEASUREMENT?
166.0	544.62			Ht @ 165.3 m.
166.5	546.26			
167.0	547.90			
167.5	549.54			
168.0	551.18			
168.5	552.82			
169.0	554.46			T.O. @ 555.5'
169.5	556.10			
170.0	557.74			
170.5	559.38			
171.0	561.02			
171.5	562.66			
172.0	564.30			
172.5	565.94			
173.0	567.59			
173.5	569.23			
174.0	570.87			
174.5	572.51			
175.0	574.15			
175.5	575.79			
176.0	577.43			
176.5	579.07			
177.0	580.71			
177.5	582.35			
178.0	583.99			
178.5	585.63			
179.0	587.27			
179.5	588.91			
180.0	590.55			
180.5	592.19			
181.0	593.83			
181.5	595.47			
182.0	597.11			
182.5	598.75			
183.0	600.39			
183.5	602.03			
184.0	603.67			
184.5	605.31			



ELOG FIELD LOG REV 1.1a



B-701 DH ELOG FIELD LOG

Borehole*

SITE*: Turkey Point NPP DATE*: 5/5/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: C. Carter R. STEWEN 5/5/08 PAGE: 1 OF 2
CONTACT: _____ PHONE: Off Cell
CONTACT: _____ PHONE: Off Cell
CONTACT: _____ PHONE: Off Cell
CONTACT: GLEN BAKER PHONE: Off Cell 931-242-6501
COMPANY: MILLER

GENERAL SITE CONDITIONS/LOCATION: _____

COUNTY: Miami-Dade RANGE: _____ TOWNSHIP: _____ SECTION: _____
BOREHOLE CONSTRUCTION: CASED UNCASED ☒
DIAMETERS AND DEPTH RANGES: 4" 0 TO 457 FT; 3.00" 457 FT TO 615.5 FT

BOREHOLE TOTAL DEPTH AS DRILLED*: 615.5 FT

SURFACE CASING?: YES ☒ DEPTH TO BOTTOM OF CASING 457 FT (H23 200) NO _____
DEPTH TO BEDROCK: 23 DEPTH TO WATER TABLE: 20
BOREHOLE FLUID: WATER; FRESH WATER MUD ☒; SALT WATER MUD _____
OTHER: _____
DEPTH TO BOREHOLE FLUID: 0 TIME SINCE LAST CIRCULATION: 1 HR

LOGGING CREW: C. Carter R. STEWEN 5/5/08
VEHICLE(S) USED AND MILEAGE: _____
MOBILIZED FROM: Florida City, FL DEPARTURE TIME: 09:30
ARRIVED ON SITE: 10:00
STANDBY TIME: N/A CAUSE: N/A

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

ELOG FIELD LOG REV 1.1a



B-701 DH ELOG FIELD LOG
Borehole*

SITE*: Turkey Point NPP DATE*: 5/5/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: C. Carter R. STELLER 5/5/08 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)*	+62.2 FT	
MINUS CASING STICK-UP*	-3.3 FT	
DEPTH REF. OFFSET AT START*	37.7 FT	} REF TO GROUND SURFACE
DEPTH REF. OFFSET AT END*	37.6 FT	
AFTER SURVEY DEPTH ERROR*	-0.1 FT	

LOG NAME*	START DEPTH*	START TIME	END DEPTH*	END TIME
B701DHLMTEST04	0	11:20	0	11:24
B701DHLMTEST04	615.3 FT	11:48	450.0 FT	12:04

MAINTENANCE PERFORMED ON SITE*: N/A RAS 7/20/08 (N/A if none)

EQUIPMENT PROBLEMS OR FAILURES*: N/A RAS 7/20/08 (N/A if none)

SUGGESTIONS, ADDITIONS, CHANGES:

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL

CALIPER FIELD LOG REV 1.1a.PDF



D-701 DH CALIPER FIELD LOG
Borehole*

SITE*: Turkey Point NPP DATE*: 5/5/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: G. Carter P. STEWEL 5/5/08 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 ✓
DIAMETERS AND DEPTH RANGES: 4" 0 TO 457' FT; 3.89, 457' FT TO 615.5' FT

BOREHOLE TOTAL DEPTH AS DRILLED*: 615.5' FT

SURFACE CASING?: YES ✓ DEPTH TO BOTTOM OF CASING 457' FT NO (N Q3 Q09)

DEPTH TO BEDROCK: 15' FT DEPTH TO WATER TABLE: 0

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

OTHER: _____

DEPTH TO BOREHOLE FLUID: 0 TIME SINCE LAST CIRCULATION: 2 HR

LOGGING CREW: G. Carter P. STEWEL 5/5/08

VEHICLE(S) USED AND MILEAGE: 2 ENTAL

MOBILIZED FROM: Florida City, FL DEPARTURE TIME: 09:30

ARRIVED ON SITE: 10:00

STANDBY TIME: N/A CAUSE: N/A

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL

CALIPER FIELD LOG REV 1.1a.PDF



B-701 DH CALIPER FIELD LOG
Borehole*

SITE*: Turkey Point NPP DATE*: 5/5/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: G. Carter D. STEWART 5/5/08 PAGE: PAGE 2 OF 2

WINCH: COMPROBE SILVER ☒ OYO RG OTHER
MICROLOGGER* 5310 5772 ☒ OTHER
CALIPER PROBE* 5368 ☒ OTHER
SHEAVE* COMPROBE ☐ OYO 10 ☐ 102 ☒ 101 ☐ RG ☐

PROBE OFFSET	2.08M(6.82 FT)	12 IN MAX
MINUS CASING STICK-UP*	3.3 FT	REF TO GROUND SURFACE
DEPTH REF. OFFSET AT START*	3.52 FT	
DEPTH REF. OFFSET AT END*	3.45	
AFTER SURVEY DEPTH ERROR*	-0.07 FT	

LOG NAME*	START DEPTH*	START TIME*	END DEPTH*	END TIME*
B701DH CALTEST07	0	12:33	0	12:35
B701DH CALUP 04	612.0 FT	12:46	450.0 FT	13:04
B701DH CALTEST08	0	13:14	0	13:16

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.* B701DH CALTEST07	1.97	3.93	8.02	4.57
AS MEAS.* B701DH CALTEST08	1.98	3.94	8.03	4.51
AS MEAS.				
AS MEAS.				
AS MEAS.				
AS MEAS.				

MAINTENANCE PERFORMED ON SITE*: N/A PAR 7/24/08 (N/A if none)

EQUIPMENT PROBLEMS OR FAILURES*: N/A PAR 7/24/08 (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



B-701 DH P-S SUSPENSION VELOCITY FIELD LOG REV 1.31a
Borehole

SITE*: Turkey Point NPP DATE*: 5/5/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: C. Garter R. STELLER 5/5/08 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*: 1 1/2" 0 TO 457 FT; 5.88" 457 TO 615.5 FT
BOREHOLE TOTAL DEPTH AS DRILLED*: 615.5 FT
SURFACE CASING?: ☒ DEPTH TO BOTTOM OF CASING 457 FT NO (1003 ROD)
DEPTH TO BEDROCK: 23 FT DEPTH TO WATER TABLE: 8
BOREHOLE FLUID: WATER _____; FRESH WATER MUD ☒; SALT WATER MUD: _____
OTHER: _____
DEPTH TO BOREHOLE FLUID*: 0 TIME SINCE LAST CIRCULATION: 3 HR

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL
GEOVision Geophysical Services 1151 Peninsula Road, Suite P, Corona, CA 92622 (951) 549-1234 Fx (951) 549-1236

P-S FIELD LOG REV V1.31a



B-701 DH P-S SUSPENSION VELOCITY FIELD LOG REV 1.31a
Borehole*

SITE*: Turkey Point NPP DATE*: 5/5/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: G. Carter R. STEUER 5/5/08 PAGE 2 OF * 6

LOGGING CREW*: G. Carter R. STEUER 5/5/08
MOBILIZED FROM: Florida City, FL DEPARTURE TIME: 09:30
ARRIVED ON SITE: 10:00
STANDBY TIME: N/A CAUSE: N/A
LOGGING STARTED: 14:10 LOGGING COMPLETED: 14:50

BATTERIES CHANGED BEFORE LOGGING: YES ; NO ☒ ; STORED WITH NEW
WINCH COMPROBE ☐ GREY ☐ OYO ☐ RG ☐ OTH silver
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* 1.0m
DEPTH REF. OFFSET AT START* 1.5m
DEPTH REF. OFFSET AT END* 1.5m
AFTER SURVEY DEPTH ERROR* ϕ } REF TO GROUND SURFACE

LOG NAME*	START DEPTH*	START TIME	END DEPTH*	END TIME
B-701 DH SUSPENSION 05	110m (459.3 FT.)	14:10	183.5m (602.0 FT.)	14:50

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

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

SUGGESTIONS, ADDITIONS, CHANGES: N/A
COMMENTS:

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

GEOVision Geophysical Services 1151 Pomona Road, Suite P, Corona, CA 92622 (951) 549-1234 Fx (951) 549-1236

P-S FIELD LOG REV V1.31a

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE*: Turkey Point COL DATE*: 5/5/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: P. STELLER 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
123.5	405.18			
124.0	406.82			
124.5	408.46			
125.0	410.10			
125.5	411.75			
126.0	413.39			
126.5	415.03			
127.0	416.67			
127.5	418.31			
128.0	419.95			
128.5	421.59			
129.0	423.23			
129.5	424.87			
130.0	426.51			
130.5	428.15			
131.0	429.79			
131.5	431.43			
132.0	433.07			
132.5	434.71			
133.0	436.35			
133.5	437.99			
134.0	439.63			
134.5	441.27			
135.0	442.91			
135.5	444.55			
136.0	446.19			
136.5	447.83			
137.0	449.48			
137.5	451.12			
138.0	452.76			
138.5	454.40			
139.0	456.04			
139.5	457.68			N03 200 TO 457 FT
140.0	459.32	A74		
140.5	460.96	A75		
141.0	462.60	A76		
141.5	464.24	A77		
142.0	465.88	A78		
142.5	467.52	A79		
143.0	469.16	A80		
143.5	470.80	A81		

P-S FIELD LOG REV V1.31a

B-701 Dr **GEOVISION SUSPENSION LOGGING FIELD NOTES**

SITE*: TURKEY POINT COL DATE*: 5/5/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: R. STEWART 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
144.0	472.44	482		
144.5	474.08	483		
145.0	475.72	484		
145.5	477.36	485		
146.0	479.00	486		
146.5	480.64	487		
147.0	482.28	488		
147.5	483.92	489		
148.0	485.56	490		
148.5	487.20	491		
149.0	488.85	492		
149.5	490.49	493		
150.0	492.13	494		
150.5	493.77	495		
151.0	495.41	496		
151.5	497.05	497		
152.0	498.69	498		
152.5	500.33	499		
153.0	501.97	500		
153.5	503.61	501		
154.0	505.25	502		
154.5	506.89	503		
155.0	508.53	504		
155.5	510.17	505		
156.0	511.81	506		
156.5	513.45	507		
157.0	515.09	508		
157.5	516.73	509		
158.0	518.37	510		
158.5	520.01	511		
159.0	521.65	512		
159.5	523.29	513		
160.0	524.93	514		
160.5	526.57	515		
161.0	528.22	516		
161.5	529.86	517		
162.0	531.50	518		
162.5	533.14	519		
163.0	534.78	520		
163.5	536.42	521		
164.0	538.06	522		

P-S FIELD LOG REV V1.31a

B-701 DH **GEOVISION SUSPENSION LOGGING FIELD NOTES**
SITE*: Turkey Point COL DATE*: 5/5/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: R. STELLER 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
164.5	539.70	523		
165.0	541.34	524		
165.5	542.98	525		
166.0	544.62	526		
166.5	546.26	527		
167.0	547.90	528		
167.5	549.54	529		
168.0	551.18	530		
168.5	552.82	531		
169.0	554.46	532		
169.5	556.10	533		
170.0	557.74	534		
170.5	559.38	535		
171.0	561.02	536		
171.5	562.66	537		
172.0	564.30	538		
172.5	565.94	539		
173.0	567.59	540		
173.5	569.23	541		
174.0	570.87	542		
174.5	572.51	543		
175.0	574.15	544		
175.5	575.79	545		
176.0	577.43	546		
176.5	579.07	547		
177.0	580.71	548		
177.5	582.35	549		
178.0	583.99	550		
178.5	585.63	551		
179.0	587.27	552		
179.5	588.91	553		
180.0	590.55	554		
180.5	592.19	555		
181.0	593.83	556		
181.5	595.47	557		
182.0	597.11	558		
182.5	598.75	559		
183.0	600.39	560		
183.5	602.03	561		Hit @ 183.75 @ 14:58
184.0	603.67			Bottom measurement?
184.5	605.31			

P-S FIELD LOG REV VI.31a

B. TOBY **GEOVISION SUSPENSION LOGGING FIELD NOTES**
SITE*: TURKEY POINT COL DATE*: 5/5/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: R. STEWART 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
185.0	606.96			
185.5	608.60			
186.0	610.24			
186.5	611.88			
187.0	613.52			
187.5	615.16			
188.0	616.80			
188.5	618.44			
189.0	620.08			
189.5	621.72			
190.0	623.36			
190.5	625.00			
191.0	626.64			
191.5	628.28			
192.0	629.92			
192.5	631.56			
193.0	633.20			
193.5	634.84			
194.0	636.48			
194.5	638.12			
195.0	639.76			
195.5	641.40			
196.0	643.04			
196.5	644.69			
197.0	646.33			
197.5	647.97			
198.0	649.61			
198.5	651.25			
199.0	652.89			
199.5	654.53			
200.0	656.17			
200.5	657.81			
201.0	659.45			
201.5	661.09			
202.0	662.73			
202.5	664.37			
203.0	666.01			
203.5	667.65			
204.0	669.29			
204.5	670.93			
205.0	672.57			

ACOUSTIC TELEVIEWER LOG COVER 1.0a.pdf



B-701 DH ACOUSTIC TELEVIEWER FIELD LOG Rev 1.0a

Borehole*

SITE*: Turkey Point NPP DATE*: 5/5/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: G. Carter R. STEWEN 5/5/08 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 ☒
DIAMETERS AND DEPTH RANGES: 4" 0 TO 457'; 3.84" 457' TO 615.5 FT

BOREHOLE TOTAL DEPTH AS DRILLED*: _____

SURFACE CASING?: YES ☒ DEPTH TO BOTTOM OF CASING 457'; NO 4" STEEL
DEPTH TO BEDROCK: 23 FT DEPTH TO WATER TABLE: 0
BOREHOLE FLUID: WATER ☒; FRESH WATER MUD _____; SALT WATER MUD _____
OTHER: _____
DEPTH TO BOREHOLE FLUID: 0 TIME SINCE LAST CIRCULATION: 7 HR

LOGGING CREW: G. Carter R. STEWEN 5/5/08
VEHICLE(S) USED AND MILEAGE: RENTAL
MOBILIZED FROM: Florida City DEPARTURE TIME: 09:30
ARRIVED ON SITE: 10:00
STANDBY TIME: N/A CAUSE: N/A

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL

ACOUSTIC TELEVIEWER LOG COVER 1.0a.pdf



B-701 DH ACOUSTIC TELEVIEWER FIELD LOG Rev 1.0a

Borehole*

SITE*: Turkey Point NPP DATE*: 5/8/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: G. Carter R. Steiner 5/5/08 PAGE 2 OF 2

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

PROBE TILT TEST* 89.8 BRUNTON TILT* 90°
PROBE TILT TEST* 14.3 BRUNTON TILT* 14°
PROBE TILT TEST* 0.2° BRUNTON TILT* 0° AFTER LOG* ☒
PROBE AZIMUTH TEST* 135.9° BRUNTON AZIMUTH* 126°
PROBE AZIMUTH TEST* 242.1° BRUNTON AZIMUTH* 240°
PROBE AZIMUTH TEST* 32.6° BRUNTON AZIMUTH* 35° AFTER LOG* ☒

PROBE OFFSET*	1.44M(4.72FT)	} REF TO GROUND SURFACE
MINUS CASING STICK-UP*	2.4	
DEPTH REF. OFFSET AT START*	2.32'	
DEPTH REF. OFFSET AT END*	2.20'	
AFTER SURVEY DEPTH ERROR*	-0.12'	

LOG NAME*	START DEPTH*	START TIME	END DEPTH*	END TIME
B701DTHu802	010.0 FT	16:47	110.0 FT	17:34

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

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

SUGGESTIONS, ADDITIONS, CHANGES: N/A

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-701 DH BORING GEOPHYSICS FIELD LOG SUMMARY

Borehole*

SITE*: Turkey Point NPP
CLIENT*: MACTEC
AUTHOR*: G. Carter R. STELLER 5/6/08
DATE*: 5/6/08, 5/7/08
JOB*: 8083
PAGE*: 1 OF 1

CONTACT: _____ PHONE: _____

BOREHOLE CONSTRUCTION: CASSED _____ UNCASSED ☒
DIAMETERS AND DEPTH RANGES: 1" 0 TO 45.7 FT; 3.88" 45.7 TO 615.5 FT
BOREHOLE TOTAL DEPTH AS DRILLED*: 105.5 FT
CONDUCTOR CASING?: YES ☒ DEPTH TO BOTTOM OF CASING 127 FT, NO _____
DEPTH TO BEDROCK: 3 FT
BOREHOLE FLUID: WATER _____; FRESH WATER MUD ☒; SALT WATER MUD _____

LOGGING CREW: R. STELLER

LOG TYPE*	FILE NAME*	DEPTH RANGE*	DATE*	TIMES*
ELOG TEST	B701DH ELOG TEST 05	Ø	5/6/08	09:40 - 09:42
ELOG/GAMMA	B701DH ELOG/GAMMA 05	485.0 - 425.0 FT	5/6/08	13:13 - 13:20
SUSPENSION PS	NO DATA COLLECTED - HOLE		5/6/08	N/A
	OBSTRUCTED @ 424.2 FT			
ELOG TEST	B701DH ELOG TEST 06	Ø	5/7/08	10:14 - 10:16
ELOG/GAMMA	B701DH ELOG/GAMMA 06	155.0 - 20.0 FT	5/7/08	10:20 - 10:41
CALIPER TEST	B701DH CALIPER TEST 09	Ø	5/7/08	10:54 - 10:56
CALIPER/GAMMA	B701DH CALIPER/GAMMA 05	155.0 - Ø	5/7/08	11:05 - 11:22
CALIPER TEST	B701DH CALIPER TEST 10	Ø	5/7/08	11:26 - 11:28
SUSPENSION PS	B701DH SUSPENSION PS 07	16.4 - 134.5 FT	5/7/08	12:15 - 12:47
ACOUSTIC TELE	B701DH ACOUSTIC TELE 03	125.0 - 15.0 FT	5/7/08	13:16 - 13:45
ACOUSTIC TELE	B701DH ACOUSTIC TELE 04	25.0 - 23.0 FT	5/7/08	14:58 - 15:11
SUSPENSION PS	B701DH SUSPENSION PS 08	1.6 - 23.0 FT	5/7/08	15:00 - 15:11
CALIPER TEST	B701DH CALIPER TEST 11	Ø	5/7/08	15:20 - 15:23
CALIPER/GAMMA	B701DH CALIPER/GAMMA 06	155.0 - Ø	5/7/08	15:33 - 15:50
CALIPER TEST	B701DH CALIPER TEST 12	Ø	5/7/08	15:53 - 15:56

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL

ELOG FIELD LOG REV 1.1a



B-70104 ELOG FIELD LOG
Borehole*

SITE*: Turkey Point NPP DATE*: 5/6/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: C. Carter P. STEWEE 5/6/08 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 457' ft; 3.88" 457' TO 615.5' ft

BOREHOLE TOTAL DEPTH AS DRILLED*: 615.5' ft

SURFACE CASING?: YES ☒ DEPTH TO BOTTOM OF CASING 427' ft; NO _____

DEPTH TO BEDROCK: 53' ft DEPTH TO WATER TABLE: ±0

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

OTHER: _____

DEPTH TO BOREHOLE FLUID: 0 TIME SINCE LAST CIRCULATION: 2 1/2 HRS

LOGGING CREW: C. Carter P. STEWEE 5/6/08

VEHICLE(S) USED AND MILEAGE: RENTAL

MOBILIZED FROM: Florida City, FL DEPARTURE TIME: 07:00

ARRIVED ON SITE: 07:30

STANDBY TIME: N/A CAUSE: N/A

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL

ELOG FIELD LOG REV 1.1a



B-701 D4 ELOG FIELD LOG
Borehole*

SITE*: Turkey Point NPP DATE*: 5/6/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: C. Carter R. Stuebel PAGE: PAGE 2 OF 2
5/6/08

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 FT
MINUS CASING STICK-UP*	- 3.3 FT
DEPTH REF. OFFSET AT START*	37.7 FT
DEPTH REF. OFFSET AT END*	37.8 FT
AFTER SURVEY DEPTH ERROR*	+0.1 FT

REF TO GROUND SURFACE

LOG NAME*	START DEPTH*	START TIME	END DEPTH*	END TIME
B701DHELOGTEST05	0	09:40	0	09:42
B701DHELOGUP 05	425.0 FT	13:13	425.0 FT	13:20

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

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

SUGGESTIONS, ADDITIONS, CHANGES: N/A

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL

P-S FIELD LOG REV V1.31a



B-901D14 P-S SUSPENSION VELOCITY FIELD LOG REV 1.31a

Borehole

SITE*: Turkey Point NPP DATE*: 5/6/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: ~~G. Carter~~ P. STELLER 5/6/08 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: Miami-Dade RANGE: _____ TOWNSHIP: _____ SECTION: _____
BOREHOLE CONSTRUCTION*: CASED _____ UNCASED ☒
DIAMETERS AND DEPTH RANGES*: 4' 0 TO 457' FT ; 3.88" 457 TO 615.5 FT
BOREHOLE TOTAL DEPTH AS DRILLED*: 615.5 FT
SURFACE CASING?: ☒ DEPTH TO BOTTOM OF CASING 42.7 FT NO
DEPTH TO BEDROCK: 23 FT DEPTH TO WATER TABLE: 2 FT
BOREHOLE FLUID: WATER _____; FRESH WATER MUD ☒; SALT WATER MUD; _____
OTHER: _____
DEPTH TO BOREHOLE FLUID*: 0 TIME SINCE LAST CIRCULATION: 1 1/2 HR

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-701 D4 P-S SUSPENSION VELOCITY FIELD LOG REV 1.31a
Borehole*

SITE*: Turkey Point NPP DATE*: 5/6/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: C. Carter P. STELLER 5/6/08 PAGE 2 OF * 3

LOGGING CREW*: G. Carter 5/6/08
MOBILIZED FROM: Florida City, FL DEPARTURE TIME: 07:00
ARRIVED ON SITE: 07:30
STANDBY TIME: CAUSE:
LOGGING STARTED: NA LOGGING COMPLETED: NA

BATTERIES CHANGED BEFORE LOGGING: YES; NO ☒; STORED WITH NEW
WINCH COMPROBE ☐ GREY ☐ OYO ☐ RG ☐ OTH SILVER
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* -1.0m
DEPTH REF. OFFSET AT START* 1.5m
DEPTH REF. OFFSET AT END* 1.5m
AFTER SURVEY DEPTH ERROR* 0
REF TO GROUND SURFACE

LOG NAME*	START DEPTH*	START TIME	END DEPTH*	END TIME
<u>NO DATA COLLECTED, BORING</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>
<u>OBSTRUCTED @ 424.2</u>				

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

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

SUGGESTIONS, ADDITIONS, CHANGES: N/A
COMMENTS:

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

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P-S FIELD LOG REV V1.31a

B-701 DH **GEOVISION SUSPENSION LOGGING FIELD NOTES**

SITE*: TURKEY POINT COI DATE*: 5/6/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: B. STEWART PAGE* 3 OF 5

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
123.5	405.18			
124.0	406.82			
124.5	408.46			
125.0	410.10			
125.5	411.75			
126.0	413.39			CONSTRUCTION @ 125.6m
126.5	415.03			TIP @ 424.2'
127.0	416.67			
127.5	418.31			
128.0	419.95			
128.5	421.59			
129.0	423.23			
129.5	424.87			
130.0	426.51			
130.5	428.15			
131.0	429.79			4" STEEL CASING TO 428'
131.5	431.43	--		
132.0	433.07			
132.5	434.71			
133.0	436.35			
133.5	437.99			
134.0	439.63			
134.5	441.27			
135.0	442.91			
135.5	444.55			
136.0	446.19			
136.5	447.83			
137.0	449.48			
137.5	451.12			
138.0	452.76			
138.5	454.40			
139.0	456.04			
139.5	457.68			
140.0	459.32			
140.5	460.96			
141.0	462.60			
141.5	464.24			
142.0	465.88			
142.5	467.52			
143.0	469.16			
143.5	470.80			BOTTOM MEASUREMENT?

ELOG FIELD LOG REV 1.1a



B-7010H ELOG FIELD LOG

Borehole*

SITE*: Turkey Point NPP DATE*: 5/7/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: ~~G. Carter~~ R. Stewer 5/7/08 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 457 FT; 5.08, 457 TO 615.5 FT

BOREHOLE TOTAL DEPTH AS DRILLED*: 615.5 FT 10 FT RAS 5/7/08

SURFACE CASING?: YES ☒ DEPTH TO BOTTOM OF CASING 27 FT; NO _____
DEPTH TO BEDROCK: 23 FT DEPTH TO WATER TABLE: cφ
BOREHOLE FLUID: WATER _____; FRESH WATER MUD ☒; SALT WATER MUD _____
OTHER: _____
DEPTH TO BOREHOLE FLUID: φ TIME SINCE LAST CIRCULATION: c/HR

LOGGING CREW: ~~G. Carter~~ R. Stewer 5/7/08
VEHICLE(S) USED AND MILEAGE: Rental
MOBILIZED FROM: Florida City, FL DEPARTURE TIME: 09:00
ARRIVED ON SITE: 09:30
STANDBY TIME: N/A CAUSE: N/A

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL

ELOG FIELD LOG REV 1.1a



B-701 DH ELOG FIELD LOG
Borehole*

SITE*: Turkey Point NPP DATE*: 5/7/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: C. Carter, R. Stewer 5/7/08 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 10.0 FT	REF TO GROUND SURFACE
MINUS CASING STICK-UP*	-1.0 9.2 FT	
DEPTH REF. OFFSET AT START*	48.0 FT	
DEPTH REF. OFFSET AT END*	20.0 FT	
AFTER SURVEY DEPTH ERROR*	0	

2AS 5/7/08

LOG NAME*	START DEPTH*	START TIME	END DEPTH*	END TIME
B7010HELOGTEST00	0	10:14	0	10:16
B7010HELOGW006	155.0 FT	10:26	20.0	10:41

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

CALIPER FIELD LOG REV 1.1a PDF



B-701 DH CALIPER FIELD LOG
Borehole*

SITE*: Turkey Point NPP DATE*: 5/7/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: G. Carter R. STELLER 5/7/08 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 Y

DIAMETERS AND DEPTH RANGES: 4" 0 TO 457 FT; 3.88" 457 TO 615.5 FT

BOREHOLE TOTAL DEPTH AS DRILLED*: 615.5 FT

SURFACE CASING?: YES ✓ DEPTH TO BOTTOM OF CASING 16 FT; NO ✓

DEPTH TO BEDROCK: 0.3 FT DEPTH TO WATER TABLE: 0

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

OTHER: _____

DEPTH TO BOREHOLE FLUID: 0 TIME SINCE LAST CIRCULATION: 0.1 HR.

LOGGING CREW: G. Carter R. STELLER 5/7/08

VEHICLE(S) USED AND MILEAGE: RENTAL

MOBILIZED FROM: Florida City, FL DEPARTURE TIME: 09:00

ARRIVED ON SITE: 09:30

STANDBY TIME: N/A CAUSE: N/A

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL

CALIPER FIELD LOG REV 1.1a.PDF



B-701 DH CALIPER FIELD LOG
Borehole*

SITE*: Turkey Point NPP DATE*: 5/7/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: S. Carter, R. STEWART 5/7/08 PAGE: PAGE 2 OF 2

WINCH: COMPROBE SILVER ☒ OYO ☐ RG ☐ OTHER ☐
MICROLOGGER* 5310 ☐ 5772 ☒ OTHER ☐
CALIPER PROBE* 5368 ☒ OTHER ☐
SHEAVE* COMPROBE ☐ OYO 10' ☐ 10' ☒ 10' ☐ RG ☐

PROBE OFFSET	2.08M(6.82 FT)	12 IN MAX
MINUS CASING STICK-UP*	1.0 FT	
DEPTH REF. OFFSET AT START*	5.82 FT	0.5 FT
DEPTH REF. OFFSET AT END*	5.8 FT	4.32 FT
AFTER SURVEY DEPTH ERROR*	-0.02 FT	6.30 FT

LOG NAME*	START DEPTH*	START TIME*	END DEPTH*	END TIME*
B701DH CALTEST 09	0	10:54	0	10:56
B701DH CALTEST 05	155.0 FT	11:05	0	11:22
B701DH CALTEST 10	0	11:26	0	11:28
B701DH CALTEST 11	0	15:20	0	15:23
B701DH CALTEST 06	155.0	15:33	0	15:50
B701DH CALTEST 12	0	15:53	0	15:56

CALIBRATION PLATE S/N 201		AS BUILT			PVC FITTING
FILE NAME		1.968 IN (50 MM)	3.937 IN (100 MM)	8.000 IN (203.2 MM)	4.507 IN (114.3 MM)
AS MEAS.*	B701DH CALTEST 09	2.01	3.96	8.02	4.53
AS MEAS.*	B701DH CALTEST 10	1.96	3.92	8.00	4.49
AS MEAS.	B701DH CALTEST 11	1.92	3.88	7.96	4.46
AS MEAS.	B701DH CALTEST 12	1.93	3.89	7.97	4.46
AS MEAS.					
AS MEAS.					

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

EQUIPMENT PROBLEMS OR FAILURES*: _____ (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

P-S FIELD LOG REV V1.31a



B-701 DH P-S SUSPENSION VELOCITY FIELD LOG REV 1.31a

Borehole

SITE*: Turkey Point NPP DATE*: 5/7/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: G. Garter R. SIELLER 5/7/08 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 ☒

DIAMETERS AND DEPTH RANGES*: 4" 0 TO 45.7 FT; 3.88" 45.7 TO 615.5 FT

BOREHOLE TOTAL DEPTH AS DRILLED*: 615.5 FT

SURFACE CASING?: Run 1 DEPTH TO BOTTOM OF CASING 16 FT; NO Run 2

DEPTH TO BEDROCK: ± 3 FT DEPTH TO WATER TABLE: Ø

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

OTHER: _____

DEPTH TO BOREHOLE FLUID*: Ø TIME SINCE LAST CIRCULATION: ± 2 HR

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL.
GEOVision Geophysical Services — 1151 Pomona Road, Suite P, Corona, CA 92622 (951) 549-1234 Fx (951) 549-1236

P S FIELD LOG REV V1.31a



B-701 DH P-S SUSPENSION VELOCITY FIELD LOG REV 1.31a
Borehole*

SITE*: Turkey Point NPP DATE*: 5/7/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: G. Carter R. STEWART 5/7/08 PAGE 2 OF 4

LOGGING CREW*: C. Carter R. STEWART 5/7/08
MOBILIZED FROM: Florida City, FL DEPARTURE TIME: 09:00
ARRIVED ON SITE: 09:30
STANDBY TIME: N/A CAUSE: N/A
LOGGING STARTED: 12:15 LOGGING COMPLETED: 15:11

BATTERIES CHANGED BEFORE LOGGING: YES ; NO ☒ ; STORED WITH NEW
WINCH COMPROBE ☐ GREY ☐ OYO ☐ RG ☐ OTH SIVEN
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* -0.3 m } -0.1 m
DEPTH REF. OFFSET AT START* 2.2 m }
DEPTH REF. OFFSET AT END* 2.2 m } REF TO GROUND SURFACE 2.4 m
AFTER SURVEY DEPTH ERROR* $\emptyset$

LOG NAME*	START DEPTH*	START TIME	END DEPTH*	END TIME
B701 DH Susp <u>07</u>	16.4 FT	12:15	134.5 FT	12:47
B701 DH Susp <u>08</u>	1.64 FT	15:00	23.0 FT	15:11
<u>DOWN</u> <u>cas</u> 5/7/08				

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

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

SUGGESTIONS, ADDITIONS, CHANGES: N/A
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-761 DH GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE*: TURKEY POINT COL.

DATE*: 5/7/08

CLIENT*: MACTEC

JOB*: 8083

AUTHOR*: R. STELLER 5/7/08

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	944		
1.0	3.28	945		
1.5	4.92	946		
2.0	6.56	947		
2.5	8.20	948		
3.0	9.84	949		
3.5	11.48	950		
4.0	13.12	951		
4.5	14.76	952		
5.0	16.40	762 953		6" STEEL CASE TO 16' ON RUN #7 (RUN FOR DATA)
5.5	18.04	763 954		
6.0	19.69	764 955		
6.5	21.33	765 956		
7.0	22.97	766 957		
7.5	24.61	767		
8.0	26.25	768		
8.5	27.89	769		
9.0	29.53	770		
9.5	31.17	771		
10.0	32.81	772		
10.5	34.45	773		
11.0	36.09	774		
11.5	37.73	775		
12.0	39.37	776		
12.5	41.01	777		
13.0	42.65	778		
13.5	44.29	779		
14.0	45.93	780		
14.5	47.57	781		
15.0	49.21	782		
15.5	50.85	783		
16.0	52.49	784		
16.5	54.13	785		
17.0	55.77	786		
17.5	57.41	787		
18.0	59.06	788		
18.5	60.70	789		
19.0	62.34	790		
19.5	63.98	791		
20.0	65.62	792		
20.5	67.26	793		

P-S FIELD LOG REV V1.31a

B-701 DH GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE*: TURNKEY POINT COL DATE*: 5/7/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: R. STELLER 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	794		
21.5	70.54	795		
22.0	72.18	796		
22.5	73.82	797		
23.0	75.46	798		
23.5	77.10	799		
24.0	78.74	800		
24.5	80.38	801		
25.0	82.02	802		
25.5	83.66	803		
26.0	85.30	804		
26.5	86.94	805		
27.0	88.58	806		
27.5	90.22	807		
28.0	91.86	808		
28.5	93.50	809		
29.0	95.14	810		
29.5	96.78	811		
30.0	98.43	812		
30.5	100.07	813		
31.0	101.71	814		
31.5	103.35	815	8A3	80ms 1 @ 12:47
32.0	104.99	816	812	
32.5	106.63	817	8A1	
33.0	108.27	818	8A0	
33.5	109.91	819	839	
34.0	111.55	820	838	
34.5	113.19	821	837	
35.0	114.83	822	836	
35.5	116.47	823	835	
36.0	118.11	824		20ms ↓
36.5	119.75	825		
37.0	121.39	826		
37.5	123.03	827		
38.0	124.67	828		
38.5	126.31	829		
39.0	127.95	830		
39.5	129.59	831		
40.0	131.23	832		
40.5	132.87	833		
41.0	134.51	834		@ 12:10

ACOUSTIC TELEVIEWER LOG COVER 1.0a.pdf



B-701 DA ACOUSTIC TELEVIEWER FIELD LOG Rev 1.0a

Borehole*

SITE*: Turkey Point NPP DATE*: 5/7/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: G. Carter R. STELLER 5/7/08 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 457 FT; 3.88" 457 TO 615.5 FT

BOREHOLE TOTAL DEPTH AS DRILLED*: 615.5 FT

SURFACE CASING?: YES Run 1 DEPTH TO BOTTOM OF CASING 16 FT; NO Run 2
DEPTH TO BEDROCK: 23 FT DEPTH TO WATER TABLE: 26
BOREHOLE FLUID: WATER; FRESH WATER MUD ✓; SALT WATER MUD
OTHER:
DEPTH TO BOREHOLE FLUID: 0 TIME SINCE LAST CIRCULATION: 22 HR

LOGGING CREW: G. Carter R. STELLER 5/7/08
VEHICLE(S) USED AND MILEAGE: RENTAL
MOBILIZED FROM: Florida City DEPARTURE TIME: 09:00
ARRIVED ON SITE: 09:30
STANDBY TIME: N/A CAUSE: N/A

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL

ACOUSTIC TELEVIEWER LOG COVER 1.0a.pdf



B-701 DIT ACOUSTIC TELEVIEWER FIELD LOG Rev 1.0a

Borehole*

SITE*: Turkey Point NPP DATE*: 5/7/08
CLIENT*: MACTEC JOB*: 8083
AUTHOR*: C. Gatter R. Wrensch 5/7/08 PAGE 2 OF 2

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

PROBE TILT TEST* 93.6° BRUNTON TILT* 93°
PROBE TILT TEST* 8.7° BRUNTON TILT* 9°
PROBE TILT TEST* 0.2° BRUNTON TILT* 0° AFTER LOG*
PROBE AZIMUTH TEST* 269.1° BRUNTON AZIMUTH* 263°
PROBE AZIMUTH TEST* 330.6° BRUNTON AZIMUTH* 344°
PROBE AZIMUTH TEST* 75.4° BRUNTON AZIMUTH* 75° AFTER LOG*

PROBE OFFSET*	1.44M(4.72FT)	Run 1	Run 2
MINUS CASING STICK-UP*	1.0 FT	0.5 FT	4.22 FT
DEPTH REF. OFFSET AT START*	3.72 FT	REF TO GROUND SURFACE	
DEPTH REF. OFFSET AT END*	5.75		
AFTER SURVEY DEPTH ERROR*	±0.03	4.20 FT	±0.02 FT

LOG NAME*	START DEPTH*	START TIME	END DEPTH*	END TIME
B701DITAWP03	125.0 FT	13:16	15.0	13:45
B701DITAWP04	25.0 FT	14:38	6	14:47

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

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

SUGGESTIONS, ADDITIONS, CHANGES: N/A

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL



B-704GDH BORING GEOPHYSICS FIELD LOG SUMMARY

Borehole*

SITE*: Turkey Point NPP

CLIENT*: MACTEC

AUTHOR*: C. Carter

DATE*: 3/8/08, 3/9/08

JOB*: 8083

PAGE*: 1 OF 1

CONTACT:

PHONE:

BOREHOLE CONSTRUCTION: CASSED

UNCASSED ☒

DIAMETERS AND DEPTH RANGES: 6" 0 TO 24 ft, 5" 24 TO 133 ft

BOREHOLE TOTAL DEPTH AS DRILLED*: 133 ft

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

DEPTH TO BEDROCK: 4'

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

LOGGING CREW: C. Carter

LOG TYPE*	FILE NAME*	DEPTH RANGE*	DATE*	TIMES*
ELOG	B704GDHELOGTEST02		3/8/08	10:09 - 10:10 am
ELOG	B704GDHELOGUP01	129 - 39.5 ft	3/8/08	11:08 - 11:20 am
PS velocity	B704GDHSUSP000001	26.25 - 116.47 ft	3/8/08	12:14 - 1:04 pm
ATV	B704GDH40UP01	119.4 - 5.5 ft	3/8/08	2:11 - 2:47 pm
Caliper	B704GDHICALTEST01		3/8/08	3:05 - 3:06
Caliper	B704GDHICALUP01	121.0 - 8.6 ft	3/8/08	3:22 - 3:33
Caliper	B704GDHICALTEST02		3/8/08	3:41 - 3:42
ELOG	B704GDHELOGUP02	129.5 - 37.45	3/8/08	11:26 - 11:36 am
ELOG	B704GDHELOGTEST03		3/9/08	9:07 - 9:09
ELOG	B704GDHELOGUP03	163.05 - 103.15 ft	3/9/08	10:11 - 10:18
PS velocity	B704GDHSUSP000002	116.47 - 149.28'	3/9/08	10:44 - 11:00 am
Deviation	B704GDH40UP02	157.2 - 108.5 ft	3/9/08	11:46 - 11:48 am
Caliper	B704GDHICALTEST03		3/9/08	12:19 - 12:20 pm
Caliper	B704GDHICALUP02	155.4 - 105.05 ft	3/9/08	12:36 - 12:41 pm
Caliper	B704GDHICALTEST04		3/9/08	12:51 - 12:52 pm

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

ELOG FIELD LOG REV 1.1a



R-704GDH ELOG FIELD LOG
Borehole*

SITE*: Turkey Point NPP DATE*: 3/8/08
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 _____ UNCASD X
DIAMETERS AND DEPTH RANGES: 6" 0 TO 24 ft; 5" 24 ft TO 133 ft

BOREHOLE TOTAL DEPTH AS DRILLED*: cc 3/8/08
129 ft 133 ft

SURFACE CASING?: YES X DEPTH TO BOTTOM OF CASING 24 ft; NO _____
DEPTH TO BEDROCK: 7' DEPTH TO WATER TABLE: φ
BOREHOLE FLUID: WATER _____; FRESH WATER MUD X; SALT WATER MUD _____;

OTHER: _____
DEPTH TO BOREHOLE FLUID: φ TIME SINCE LAST CIRCULATION: 4pm 3/7

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: 7:30 - 10:30 cc 3/8/08 CAUSE: weather

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL

ELOG FIELD LOG REV 1.1a



B-704G011 ELOG FIELD LOG
Borehole*

SITE*: Turkey Point NPP DATE*: 3/8/68
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)*	32.5 02
MINUS CASING STICK-UP*	-1.0
DEPTH REF. OFFSET AT START*	40 40 REF TO GROUND SURFACE
DEPTH REF. OFFSET AT END*	39.95 39.95
AFTER SURVEY DEPTH ERROR*	.05 .05

LOG NAME*	START DEPTH*	START TIME	END DEPTH*	END TIME
B704G011ELOGTEST02		10:09 am		10:10 am
B704G011ELOGUP01	12.9 ft	11:08 am	39.5 ft	11:20 am
B704G011ELOGUP02	12.9.5 ft	11:26	37.45 ft	11:36

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.

P-S FIELD LOG REV V1.31a



B-7046Dtl **P-S SUSPENSION VELOCITY FIELD LOG REV 1.31a**

Borehole

SITE*: Turkey Point NPP DATE*: 3/8/08
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 UNCASED

DIAMETERS AND DEPTH RANGES*: 6" 0 TO 24 ft ; 5" 24 TO 133 ft

BOREHOLE TOTAL DEPTH AS DRILLED*: 133 ft

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

DEPTH TO BEDROCK: 4 ft DEPTH TO WATER TABLE: Ø

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

OTHER: _____

DEPTH TO BOREHOLE FLUID*: Ø TIME SINCE LAST CIRCULATION: 4pm 3/7

ITEMS WITH * MUST BE COMPLETED. OTHER INFORMATION IS OPTIONAL.
GEOVision Geophysical Services — 11511 Pomona Road, Suite P, Corona, CA 92622 (951) 549-1234 Fx (951) 549-1236