

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: EXELON VICTORIA 82274 off DATE: 11/7/07
CLIENT: MACTEC JOB: 7501
AUTHOR: C. CARTER PAGE 12 OF 12

DEPTH METERS	DEPTH FEET	UNFILTERED FILE NO.	FILTERED FILE NO.	COMMENTS CASING, WATER, ROCK, ETC
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180.5	592.19	356		
181.0	593.83	357		
181.5	595.47	358		
182.0	597.11	359		
182.5	598.75	360		
183.0	600.39	361		7:10 pm
183.5	602.03			
184.0	603.67			
184.5	605.31			
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			



B2274 off CALIPER FIELD LOG

SITE: EXELON VICTORIA COUNTY COL DATE: 11/7/67
CLIENT: MACTEC JOB: 7501
AUTHOR: C. CARTER PAGE 1 OF 2

CONTACT: STEVE CRISENZO OFFICE PHONE: 361-972-0198
CELL PHONE: 919-949-1707
CONTACT: ALLAN SHAW CELL PHONE: 301-704-2684
PHONE:
CONTACT: PHONE:
PHONE:
CONTACT: PHONE:
PHONE:
DRILLER: PHONE:
COMPANY: PHONE:

GENERAL SITE CONDITIONS/LOCATION:

BOREHOLE DESIGNATION: B2274 off LOCATION: Power Block Unit 2

COUNTY: VICTORIA RANGE: TOWNSHIP: SECTION:
BOREHOLE CONSTRUCTION: CASED UNCASED X
DIAMETERS AND DEPTH RANGES: 7 7/8" 0 TO 20 ft; 5" 20 ft TO 620 ft
BOREHOLE TOTAL DEPTH AS DRILLED: 620 ft
CONDUCTOR CASING?: YES DEPTH TO BOTTOM OF CASING: NO X
DEPTH TO BEDROCK: NA DEPTH TO WATER TABLE: NA
BOREHOLE FLUID: WATER; FRESH WATER MUD X; SALT WATER MUD;
OTHER:
DEPTH TO BOREHOLE FLUID: ≥ 10 ft TIME SINCE LAST CIRCULATION: 12pm

LOGGING CREW: C. CARTER
VEHICLE(S) USED AND MILEAGE: RENTAL
MOBILIZED FROM: VICTORIA, TX DEPARTURE TIME: 6:40 am
ARRIVED ON SITE: 7:00 am
STANDBY TIME: 7:30 am - 12 pm CAUSE: Driller cleaning hole
LOGGING STARTED: 8:51 pm LOGGING COMPLETED: 9:52 pm

SITE: EXELON VICTORIA COUNTY COL B2274 off DATE: 11/7/07
CLIENT: MACTEC JOB: 7501
AUTHOR: C. CARTER PAGE 2 OF 2

WINCH: COMPROBE SILVER X OYO RG OTHER
MICROLOGGER 5310 X 5772 OTHER
CALIPER PROBE 5368 X OTHER

PROBE OFFSET	2.08M(6.82 FT) 12 IN MAX
MINUS CASING STICK-UP	<u>0</u>
DEPTH REF. OFFSET AT START	<u>6.82</u>
DEPTH REF. OFFSET AT END	<u>6.45</u>
AFTER SURVEY DEPTH ERROR	<u>.37</u> LESS THAN 0.4%?

LOG NAME	START DEPTH	START TIME	END DEPTH	END TIME
B2274 off cal test 01		8:12 pm		8:13 pm
B2274 off cal up 01	604.55'	8:51 pm	4.85'	9:52 pm
B2274 off cal test 02		10:02 pm		10:04 pm

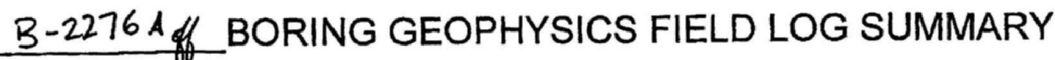
CALIBRATION PLATE S/N 201

		AS BUILT			PVC FITTING
		1.968 IN (50 MM)	3.937 IN (100 MM)	8.000 IN (203.2 MM)	4.500 IN cc 11/7/07 (114.3 MM)
AS MEAS.	B2274 off cal test 01	1.968	4.021	8.055	4.501
AS MEAS.	B2274 off cal test 02	1.986	3.979	8.03	4.499
AS MEAS.					
AS MEAS.					
AS MEAS.					
AS MEAS.					

MAINTENANCE PERFORMED ON SITE: _____

EQUIPMENT PROBLEMS OR FAILURES: _____

SUGGESTIONS, ADDITIONS, CHANGES: _____



DATE: _____
JOB: 7501 _____
PAGE 1 OF 1

PHONE: 361-972-0198

LOGGING CREW: C. Carter

[illegible]

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



B2276A offset ELOG FIELD LOG

SITE: EXELON VICTORIA DATE: 11/10/07
CLIENT: MACTEC JOB: 7501
AUTHOR: C. CARTER PAGE 1 OF 2

CONTACT: STEVE CRISENZO OFFICE PHONE: 361-972-0198
CELL PHONE: 919-949-1707
CONTACT: OFFICE PHONE:
PHONE:
CONTACT: PHONE:
PHONE:
CONTACT: PHONE:
PHONE:
PHONE:
DRILLER: PHONE:
COMPANY: PHONE:

GENERAL SITE CONDITIONS/LOCATION: _____

BOREHOLE DESIGNATION: B2276A offset LOCATION: _____

COUNTY: VICTORIA RANGE: _____ TOWNSHIP: _____ SECTION: _____
BOREHOLE CONSTRUCTION: CASED _____ UNCASD X
DIAMETERS AND DEPTH RANGES: 4.5" 0 TO 210 ft; _____ TO _____
BOREHOLE TOTAL DEPTH AS DRILLED: 210 ft
CONDUCTOR CASING?: YES X DEPTH TO BOTTOM OF CASING 1.5'; NO _____
DEPTH TO BEDROCK: NA DEPTH TO WATER TABLE: NA
BOREHOLE FLUID: WATER _____; FRESH WATER MUD X; SALT WATER MUD _____
OTHER: _____
DEPTH TO BOREHOLE FLUID: Ø TIME SINCE LAST CIRCULATION: 2:30pm

LOGGING CREW: C. CARTER
VEHICLE(S) USED AND MILEAGE: RENTAL
MOBILIZED FROM: Victoria DEPARTURE TIME: 1:30pm
ARRIVED ON SITE: 2:00
STANDBY TIME: _____ CAUSE: _____
LOGGING STARTED: 3:31pm LOGGING COMPLETED: 3:49pm

SITE: EXELON VICTORIA B2276A offset DATE: 11/10/07
CLIENT: MACTEC JOB: 7501
AUTHOR: C. CARTER PAGE 2 OF 2

WINCH: COMPROBE SILVER X OYO RG OTHER
MICROLOGGER 5310 X 5772 OTHER
ELOG PROBE 5490 X OTHER

PROBE LENGTH	2.50M(8.20 FT)
PLUS YOKE 10.0M (32.8 FT)	<u>32.8</u>
MINUS CASING STICK-UP	<u>-1.3</u>
DEPTH REF. OFFSET AT START	<u>39.7</u>
DEPTH REF. OFFSET AT END	<u>39.6</u>
AFTER SURVEY DEPTH ERROR	<u>.1</u> LESS THAN 0.4%?

LOG NAME	START DEPTH	START TIME	END DEPTH	END TIME
B2276A ELOG TEST 01		2:40 pm		2:41 pm
B2276A ELOG UP 01	208.55'	3:31 pm	39.6'	3:49 pm

MAINTENANCE PERFORMED ON SITE: _____

EQUIPMENT PROBLEMS OR FAILURES: _____

SUGGESTIONS, ADDITIONS, CHANGES: _____



B2276A offset CALIPER FIELD LOG

SITE: EXELON VICTORIA COUNTY COL DATE: 11/10/07
CLIENT: MACTEC JOB: 7501
AUTHOR: C. CARTER PAGE 1 OF 2

CONTACT: STEVE CRISENZO OFFICE PHONE: 361-972-0198
CELL PHONE: 919-949-1707
CONTACT: ALLAN SHAW CELL PHONE: 301-704-2684
PHONE:
CONTACT: PHONE:
PHONE:
CONTACT: PHONE:
PHONE:
DRILLER: PHONE:
COMPANY: PHONE:

GENERAL SITE CONDITIONS/LOCATION:

BOREHOLE DESIGNATION: B2276A offset LOCATION:

COUNTY: VICTORIA RANGE: TOWNSHIP: SECTION:
BOREHOLE CONSTRUCTION: CASED ☐ UNCASED ☒
DIAMETERS AND DEPTH RANGES: 4.5" 0 TO 76 ft; TO
BOREHOLE TOTAL DEPTH AS DRILLED: 210 ft
CONDUCTOR CASING?: YES ☒ DEPTH TO BOTTOM OF CASING 1.5'; NO
DEPTH TO BEDROCK: NA DEPTH TO WATER TABLE: NA
BOREHOLE FLUID: WATER ☐; FRESH WATER MUD ☒; SALT WATER MUD ☐
OTHER:
DEPTH TO BOREHOLE FLUID: TIME SINCE LAST CIRCULATION: 2:30pm

LOGGING CREW: C. CARTER
VEHICLE(S) USED AND MILEAGE: RENTAL
MOBILIZED FROM: VICTORIA, TX DEPARTURE TIME: 1:30pm
ARRIVED ON SITE: 2:00pm
STANDBY TIME: CAUSE:
LOGGING STARTED: 6:08pm LOGGING COMPLETED: 6:29pm

SITE: EXELON VICTORIA COUNTY COL B2276A DATE: 4/10/07
CLIENT: MACTEC JOB: 7501
AUTHOR: C. CARTER PAGE 2 OF 2

WINCH: COMPROBE SILVER X OYO RG OTHER
MICROLOGGER 5310 X 5772 OTHER
CALIPER PROBE 5368 X OTHER

PROBE OFFSET	2.08M(6.82 FT) 12 IN MAX
MINUS CASING STICK-UP	<u>-1.3</u>
DEPTH REF. OFFSET AT START	<u>5.52</u>
DEPTH REF. OFFSET AT END	<u>5.53</u>
AFTER SURVEY DEPTH ERROR	<u>.03</u> LESS THAN 0.4%?

LOG NAME	START DEPTH	START TIME	END DEPTH	END TIME
B2276ACALTEST01		5:49 pm		5:51 pm
B2276ACALUP01	206.8	6:08	4.1	6:29 pm
B2276ACALTEST02		6:32 pm		6:33 pm

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.	B2276ACALTEST01	1.981	3.917	8.036	4.494
AS MEAS.	B2276ACALTEST02	1.955	3.917	8.017	4.490
AS MEAS.					
AS MEAS.					
AS MEAS.					
AS MEAS.					

MAINTENANCE PERFORMED ON SITE: _____

EQUIPMENT PROBLEMS OR FAILURES: _____

SUGGESTIONS, ADDITIONS, CHANGES: _____



B-22764 offset DEVIATION FIELD LOG

SITE: EXELON VICTORIA COUNTY COL DATE: 11/10/07
CLIENT: MACTEC JOB: 7501
AUTHOR: C. CARTER PAGE 1 OF 2

CONTACT: STEVE CRISENZO OFFICE PHONE: 361-972-0198
CELL PHONE: 919-949-1707
CONTACT: OFFICE PHONE:
PHONE:
CONTACT: PHONE:
PHONE:
CONTACT: PHONE:
PHONE:
PHONE:
DRILLER: PHONE:
COMPANY: PHONE:

DIRECTIONS TO SITE:

GENERAL SITE CONDITIONS/LOCATION:

BOREHOLE DESIGNATION: B-22764 offset LOCATION: Unit 2

COUNTY: VICTORIA RANGE: TOWNSHIP: SECTION:
BOREHOLE CONSTRUCTION: CASED UNCASD X
DIAMETERS AND DEPTH RANGES: 4.5" 0 TO 210'; TO
BOREHOLE TOTAL DEPTH AS DRILLED:
CONDUCTOR CASING?: YES X DEPTH TO BOTTOM OF CASING 1.5'; NO
DEPTH TO BEDROCK: NA DEPTH TO WATER TABLE: NA
BOREHOLE FLUID: WATER; FRESH WATER MUD X; SALT WATER MUD
OTHER:
DEPTH TO BOREHOLE FLUID: ~10' TIME SINCE LAST CIRCULATION: 2:30pm



SITE: EXELON VICTORIA COUNTY COL B22761 offset DATE: 11/10/07
CLIENT: MACTEC JOB: 7501
AUTHOR: C. CARTER PAGE 2 OF 2

LOGGING CREW: C. CARTER
VEHICLE(S) USED AND MILEAGE: RENTAL
MOBILIZED FROM: Victoria TX DEPARTURE TIME: 1:30 pm
ARRIVED ON SITE: 2:00 pm
STANDBY TIME: CAUSE:
LOGGING STARTED: 6:56 pm LOGGING COMPLETED: 7:11 pm

WINCH: COMPROBE SILVER X OYO RG OTHER
MICROLOGGER 5310 X 5772 OTHER
TELEVIEWER 5174 X OTHER

1 PROBE TILT TEST 89.55 BRUNTON TILT 0
2 PROBE TILT TEST 10.10 BRUNTON TILT 10
3 PROBE TILT TEST 9.77 BRUNTON TILT 9.5 *after log*
1 PROBE AZIMUTH TEST 50.70 BRUNTON AZIMUTH 55
2 PROBE AZIMUTH TEST 135 BRUNTON AZIMUTH 124
3 PROBE AZIMUTH TEST 129.6 BRUNTON AZIMUTH 134 *after log*

PROBE OFFSET	1.44M(4.72FT)
MINUS CASING STICK-UP	<u>1.3</u>
DEPTH REF. OFFSET AT START	<u>3.42</u>
DEPTH REF. OFFSET AT END	<u>3.45</u>
AFTER SURVEY DEPTH ERROR	<u>.03</u> LESS THAN 0.4%?

LOG NAME	START DEPTH	START TIME	END DEPTH	END TIME
B22761A100P01	202.8'	6:56 pm	2.6'	7:11 pm

MAINTENANCE PERFORMED ON SITE: _____

EQUIPMENT PROBLEMS OR FAILURES: _____

SUGGESTIONS, ADDITIONS, CHANGES: _____



P-S SUSPENSION VELOCITY FIELD LOG

SITE: EXELON VICTORIA B22764 off DATE: 11/10/07
CLIENT: MACTEC JOB: 7501
AUTHOR: C. CARTER PAGE 1 OF 5

CONTACT: STEVE CRISENZO OFFICE PHONE: 361-972-0198
CELL PHONE: 919-949-1707
CONTACT: OFFICE PHONE:
PHONE:
CONTACT: PHONE:
PHONE:
CONTACT: PHONE:
PHONE:
DRILLER: PHONE:
COMPANY: PHONE:

DIRECTIONS TO SITE:

GENERAL SITE CONDITIONS/LOCATION:

EA#:
BOREHOLE DESIGNATION: B22764 off LOCATION:

COUNTY: VICTORIA RANGE: TOWNSHIP: SECTION:
BOREHOLE CONSTRUCTION: CASED UNCASD ☒
DIAMETERS AND DEPTH RANGES: 4.5" 0 TO 210 ft; TO
BOREHOLE TOTAL DEPTH AS DRILLED: 210 ft
CONDUCTOR CASING?: YES ☒ DEPTH TO BOTTOM OF CASING 1.5'; NO
DEPTH TO BEDROCK: NA DEPTH TO WATER TABLE: NA
BOREHOLE FLUID: WATER; FRESH WATER MUD ☒; SALT WATER MUD
OTHER:
DEPTH TO BOREHOLE FLUID: 0 TIME SINCE LAST CIRCULATION: 2:30pm



SITE: EXELON VICTORIA DATE: 11/20/07
CLIENT: MACTEC JOB: 7501
AUTHOR: C. CARTER PAGE 2 OF 5

LOGGING CREW: C. CARTER
VEHICLE(S) USED AND MILEAGE: RENTAL
MOBILIZED FROM: Victoria, TX DEPARTURE TIME: 1:30pm
ARRIVED ON SITE: 2:00pm
STANDBY TIME: _____ CAUSE: _____
LOGGING STARTED: 4:30pm LOGGING COMPLETED: 5:30pm
STANDBY TIME: _____ CAUSE: _____
LOGGING STARTED: _____ LOGGING COMPLETED: _____
DEMOLIZED TO: _____ ARRIVAL TIME: _____
ADDITIONAL DEMOB TIME: _____ REASON: _____

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 ☐

MAINTENANCE PERFORMED ON SITE: _____

EQUIPMENT PROBLEMS OR FAILURES: _____

SUGGESTIONS, ADDITIONS, CHANGES: _____

COMMENTS: Top of casing = 40cm RP = 2.45 - .40 = 2.05
2.07 5:41pm

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: EXELON VICTORIA B2276A offset DATE: 4/16/07
CLIENT: MACTEC JOB: 7501
AUTHOR: C. CARTER PAGE 3 OF 5

DEPTH METERS	DEPTH FEET	UNFILTERED FILE NO.	FILTERED FILE NO.	COMMENTS CASING, WATER, ROCK, ETC
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0.5	1.64			
1.0	3.28			
1.5	4.92			
2.0	6.56	001		4:30
2.5	8.20	2		
3.0	9.84	3		
3.5	11.48	4		
4.0	13.12	5		
4.5	14.76	6		
5.0	16.40	007		
5.5	18.04	8		
6.0	19.69	9		
6.5	21.33	10		
7.0	22.97	11		
7.5	24.61	12		
8.0	26.25	13		
8.5	27.89	14		
9.0	29.53	15		
9.5	31.17	16		
10.0	32.81	17		
10.5	34.45	18		
11.0	36.09	19		
11.5	37.73	20		
12.0	39.37	21		
12.5	41.01	22		
13.0	42.65	23		
13.5	44.29	24		
14.0	45.93	25		
14.5	47.57	26		
15.0	49.21	27		
15.5	50.85	28		
16.0	52.49	29		
16.5	54.13	30		
17.0	55.77	31		
17.5	57.41	32		
18.0	59.06	33		
18.5	60.70	34		
19.0	62.34	35		
19.5	63.98	36		
20.0	65.62	37		

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: EXELON VICTORIA 32276A offset
CLIENT: MACTEC
AUTHOR: C. CARTER

DATE: 11/10/07
JOB: 7501
PAGE 4 OF 5

DEPTH METERS	DEPTH FEET	UNFILTERED FILE NO.	FILTERED FILE NO.	COMMENTS CASING, WATER, ROCK, ETC
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20.5	67.26	38		
21.0	68.90	39		
21.5	70.54	40		
22.0	72.18	41		
22.5	73.82	42		
23.0	75.46	43		
23.5	77.10	44		
24.0	78.74	45		
24.5	80.38	46		
25.0	82.02	47		
25.5	83.66	48		
26.0	85.30	49		
26.5	86.94	50		
27.0	88.58	51		
27.5	90.22	52		
28.0	91.86	53		
28.5	93.50	54		
29.0	95.14	55		
29.5	96.78	56		
30.0	98.43	57		
30.5	100.07	58		
31.0	101.71	59		
31.5	103.35	60		
32.0	104.99	61		
32.5	106.63	62		
33.0	108.27	63		
33.5	109.91	64		
34.0	111.55	65		
34.5	113.19	66		
35.0	114.83	67		
35.5	116.47	68		
36.0	118.11	69		
36.5	119.75	70		
37.0	121.39	71		
37.5	123.03	72		
38.0	124.67	73		
38.5	126.31	74		
39.0	127.95	75		
39.5	129.59	76		
40.0	131.23	77		

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: EXELON VICTORIA *B22-76A offset*

DATE: *11/10/07*

CLIENT: MACTEC

JOB: 7501

AUTHOR: C. CARTER

PAGE *5*

OF *5*

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

40.5	132.87	78		
41.0	134.51	79		
41.5	136.15	80		
42.0	137.80	81		
42.5	139.44	82		
43.0	141.08	83		
43.5	142.72	84		
44.0	144.36	85		
44.5	146.00	86		
45.0	147.64	87		
45.5	149.28	88		
46.0	150.92	89		
46.5	152.56	90		
47.0	154.20	91		
47.5	155.84	92		
48.0	157.48	93		
48.5	159.12	94		
49.0	160.76	95		
49.5	162.40	96		
50.0	164.04	97		
50.5	165.68	98		
51.0	167.32	99		
51.5	168.96	100		
52.0	170.60	101		
52.5	172.24	102		
53.0	173.88	103		
53.5	175.52	104		
54.0	177.17	105		
54.5	178.81	106		
55.0	180.45	107		
55.5	182.09	108		
56.0	183.73	109		
56.5	185.37	110		
57.0	187.01	111		
57.5	188.65	112		
58.0	190.29	113		
58.5	191.93	114		
59.0	193.57	115		
59.5	195.21	116		
60.0	196.85	117		<i>60.01 hit bottom 5:30pm</i>



DATE: 11/11/07
JOB: 7501
PAGE 1 OF 1

PHONE: 361-972-0198

LOGGING CREW: C. Carter + R. Stelzer

[illegible]

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



B-22824 offset ELOG FIELD LOG

SITE: EXELON VICTORIA DATE: 11/11/07
CLIENT: MACTEC JOB: 7501
AUTHOR: C. CARTER PAGE 1 OF 2

CONTACT: STEVE CRISENZO OFFICE PHONE: 361-972-0198
CELL PHONE: 919-949-1707
CONTACT: OFFICE PHONE:
PHONE:
CONTACT: PHONE:
PHONE:
CONTACT: PHONE:
PHONE:
DRILLER: PHONE:
COMPANY: PHONE:

GENERAL SITE CONDITIONS/LOCATION:

BOREHOLE DESIGNATION: B-22824 offset LOCATION: Unit 2

COUNTY: VICTORIA RANGE: TOWNSHIP: SECTION:
BOREHOLE CONSTRUCTION: CASED ☐ UNCASD ☒
DIAMETERS AND DEPTH RANGES: 5" 0 TO 410 ft; TO
BOREHOLE TOTAL DEPTH AS DRILLED: 410 ft
CONDUCTOR CASING?: YES ☒ DEPTH TO BOTTOM OF CASING 2'; NO
DEPTH TO BEDROCK: NA DEPTH TO WATER TABLE: NA
BOREHOLE FLUID: WATER; FRESH WATER MUD ☒; SALT WATER MUD
OTHER:
DEPTH TO BOREHOLE FLUID: 0 TIME SINCE LAST CIRCULATION: 5 min

LOGGING CREW: C. CARTER
VEHICLE(S) USED AND MILEAGE: RENTAL
MOBILIZED FROM: Victoria TX DEPARTURE TIME: 3:00
ARRIVED ON SITE: 3:30pm
STANDBY TIME: CAUSE:
LOGGING STARTED: 5:41pm LOGGING COMPLETED: 6:20pm

SITE: EXELON VICTORIA B-2282A offset
CLIENT: MACTEC
AUTHOR: C. CARTER

DATE: 11/1/07
JOB: 7501
PAGE 2 OF 2

WINCH: _____ COMPROBE _____ SILVER X OYO _____ RG _____ OTHER _____
MICROLOGGER 5310 X 5772 _____ OTHER _____
ELOG PROBE 5490 X OTHER _____

PROBE LENGTH	2.50M(8.20 FT)
PLUS YOKE 10.0M (32.8 FT)	<u>32.8</u>
MINUS CASING STICK-UP	<u>-1.1</u>
DEPTH REF. OFFSET AT START	<u>39.9</u>
DEPTH REF. OFFSET AT END	<u>39.7</u>
AFTER SURVEY DEPTH ERROR	<u>.2</u> LESS THAN 0.4%?

LOG NAME	START DEPTH	START TIME	END DEPTH	END TIME
<u>B2282A ELOG TEST 01</u>		<u>4:30pm</u>		<u>4:31pm</u>
<u>B2282A ELOG TEST 02</u>	<u>406.1'</u>	<u>5:41</u>	<u>17.6'</u>	<u>6:20pm</u>

MAINTENANCE PERFORMED ON SITE: _____

EQUIPMENT PROBLEMS OR FAILURES: _____

SUGGESTIONS, ADDITIONS, CHANGES: _____



P-S SUSPENSION VELOCITY FIELD LOG

SITE: EXELON VICTORIA B2282.1 offset DATE: 11/11/07
CLIENT: MACTEC JOB: 7501
AUTHOR: C. CARTER PAGE 1 OF 9

CONTACT: STEVE CRISENZO OFFICE PHONE: 361-972-0198
CELL PHONE: 919-949-1707
CONTACT: OFFICE PHONE:
PHONE:
CONTACT: PHONE:
PHONE:
CONTACT: PHONE:
PHONE:
DRILLER: PHONE:
COMPANY: PHONE:

DIRECTIONS TO SITE:

GENERAL SITE CONDITIONS/LOCATION:

EA#: _____
BOREHOLE DESIGNATION: B2282.1 offset LOCATION: Unit 2

COUNTY: VICTORIA RANGE: _____ TOWNSHIP: _____ SECTION: _____
BOREHOLE CONSTRUCTION: CASED _____ UNCASD X
DIAMETERS AND DEPTH RANGES: 5" 0 TO 410'; _____ TO _____
BOREHOLE TOTAL DEPTH AS DRILLED: 410 ft
CONDUCTOR CASING?: YES X DEPTH TO BOTTOM OF CASING 2'; NO _____
DEPTH TO BEDROCK: NA DEPTH TO WATER TABLE: NA
BOREHOLE FLUID: WATER _____; FRESH WATER MUD X; SALT WATER MUD _____;
OTHER: _____
DEPTH TO BOREHOLE FLUID: 0 TIME SINCE LAST CIRCULATION: 5pm



SITE: EXELON VICTORIA B22824 offset DATE: 11/11/07
CLIENT: MACTEC JOB: 7501
AUTHOR: C. CARTER PAGE 2 OF 9

LOGGING CREW: C. CARTER
VEHICLE(S) USED AND MILEAGE: RENTAL
MOBILIZED FROM: Victoria, TX DEPARTURE TIME: 3:30 pm
ARRIVED ON SITE: 4:00 pm
STANDBY TIME: CAUSE:
LOGGING STARTED: 6:36 pm LOGGING COMPLETED: 8:23 pm
STANDBY TIME: CAUSE:
LOGGING STARTED: LOGGING COMPLETED:
DEMOBILIZED TO: ARRIVAL TIME:
ADDITIONAL DEMOB TIME: REASON:

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

MAINTENANCE PERFORMED ON SITE:

EQUIPMENT PROBLEMS OR FAILURES:

SUGGESTIONS, ADDITIONS, CHANGES:

COMMENTS: Top of casing = .34m RP = 2.14m
2.18m @ 8:41 pm

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: EXELON VICTORIA B2282A46

DATE: 11/16/07

CLIENT: MACTEC

JOB: 7501

AUTHOR: C. CARTER

PAGE 3 OF 9

DEPTH METERS	DEPTH FEET	UNFILTERED FILE NO.	FILTERED FILE NO.	COMMENTS CASING, WATER, ROCK, ETC
0.5	1.64			
1.0	3.28			
1.5	4.92			
2.0	6.56			
2.5	8.20	001		6:36
3.0	9.84	2		
3.5	11.48	3		
4.0	13.12	4		
4.5	14.76	5		
5.0	16.40	6		
5.5	18.04	7		
6.0	19.69	8		
6.5	21.33	9		
7.0	22.97	10		
7.5	24.61	11		
8.0	26.25	12		
8.5	27.89	13		
9.0	29.53	14		
9.5	31.17	15		
10.0	32.81	16		
10.5	34.45	17		
11.0	36.09	18		
11.5	37.73	19		
12.0	39.37	20		
12.5	41.01	21		
13.0	42.65	22		
13.5	44.29	23		
14.0	45.93	24		
14.5	47.57	25		
15.0	49.21	26		
15.5	50.85	27		
16.0	52.49	28		
16.5	54.13	29		
17.0	55.77	30		
17.5	57.41	31		
18.0	59.06	32		
18.5	60.70	33		
19.0	62.34	34		
19.5	63.98	35		
20.0	65.62	36		

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: EXELON VICTORIA 32282A g/w

DATE: 11/11/07

CLIENT: MACTEC

JOB: 7501

AUTHOR: C. CARTER

PAGE 4

OF 9

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

20.5	67.26	37		
21.0	68.90	38		
21.5	70.54	39		
22.0	72.18	40		
22.5	73.82	41		
23.0	75.46	42		
23.5	77.10	43		
24.0	78.74	44		
24.5	80.38	45		
25.0	82.02	46		
25.5	83.66	47		
26.0	85.30	48		
26.5	86.94	49		
27.0	88.58	50		
27.5	90.22	51		
28.0	91.86	52		
28.5	93.50	53		
29.0	95.14	54		
29.5	96.78	55		
30.0	98.43	56		
30.5	100.07	57		
31.0	101.71	58		
31.5	103.35	59		
32.0	104.99	60		
32.5	106.63	61		
33.0	108.27	62		
33.5	109.91	63		
34.0	111.55	64		
34.5	113.19	65		
35.0	114.83	66		
35.5	116.47	67		
36.0	118.11	68		
36.5	119.75	69		
37.0	121.39	70		
37.5	123.03	71		
38.0	124.67	72		
38.5	126.31	73		
39.0	127.95	74		
39.5	129.59	75		
40.0	131.23	76		

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: EXELON VICTORIA *822824 off well*

DATE: *11/11/07*

CLIENT: MACTEC

JOB: 7501

AUTHOR: C. CARTER

PAGE *5* OF *9*

DEPTH METERS	DEPTH FEET	UNFILTERED FILE NO.	FILTERED FILE NO.	COMMENTS CASING, WATER, ROCK, ETC
40.5	132.87	<i>77</i>		
41.0	134.51	<i>78</i>		
41.5	136.15	<i>79</i>		
42.0	137.80	<i>80</i>		
42.5	139.44	<i>81</i>		
43.0	141.08	<i>82</i>		
43.5	142.72	<i>83</i>		
44.0	144.36	<i>84</i>		
44.5	146.00	<i>85</i>		
45.0	147.64	<i>86</i>		
45.5	149.28	<i>87</i>		
46.0	150.92	<i>88</i>		
46.5	152.56	<i>89</i>		
47.0	154.20	<i>90</i>		
47.5	155.84	<i>91</i>		
48.0	157.48	<i>92</i>		
48.5	159.12	<i>93</i>		
49.0	160.76	<i>94</i>		
49.5	162.40	<i>95</i>		
50.0	164.04	<i>96</i>		
50.5	165.68	<i>97</i>		
51.0	167.32	<i>98</i>		
51.5	168.96	<i>99</i>		
52.0	170.60	<i>100</i>		
52.5	172.24	<i>101</i>		
53.0	173.88	<i>102</i>		
53.5	175.52	<i>103</i>		
54.0	177.17	<i>104</i>		
54.5	178.81	<i>105</i>		
55.0	180.45	<i>106</i>		
55.5	182.09	<i>107</i>		
56.0	183.73	<i>108</i>		
56.5	185.37	<i>109</i>		
57.0	187.01	<i>110</i>		
57.5	188.65	<i>111</i>		
58.0	190.29	<i>112</i>		
58.5	191.93	<i>113</i>		
59.0	193.57	<i>114</i>		
59.5	195.21	<i>115</i>		
60.0	196.85	<i>116</i>		

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: EXELON VICTORIA *322821 offset* DATE: *11/11/07*
CLIENT: MACTEC JOB: 7501
AUTHOR: C. CARTER PAGE *6* OF *9*

DEPTH METERS	DEPTH FEET	UNFILTERED FILE NO.	FILTERED FILE NO.	COMMENTS CASING, WATER, ROCK, ETC
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60.5	198.49	117		
61.0	200.13	118		
61.5	201.77	119		
62.0	203.41	120		
62.5	205.05	121		
63.0	206.69	122		
63.5	208.33	123		
64.0	209.97	124		
64.5	211.61	125		
65.0	213.25	126		
65.5	214.90	127		
66.0	216.54	128		
66.5	218.18	129		
67.0	219.82	130		
67.5	221.46	131		
68.0	223.10	132		
68.5	224.74	133		
69.0	226.38	134		
69.5	228.02	135		
70.0	229.66	136		
70.5	231.30	137		
71.0	232.94	138		
71.5	234.58	139		
72.0	236.22	140		
72.5	237.86	141		
73.0	239.50	142		
73.5	241.14	143		
74.0	242.78	144		
74.5	244.42	145		
75.0	246.06	146		
75.5	247.70	147		
76.0	249.34	148		
76.5	250.98	149		
77.0	252.62	150		
77.5	254.27	151		
78.0	255.91	152		
78.5	257.55	153		
79.0	259.19	154		
79.5	260.83	155		
80.0	262.47	156		

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: EXELON VICTORIA 82282A DATE: 11/11/07
CLIENT: MACTEC JOB: 7501
AUTHOR: C. CARTER PAGE 7 OF 9

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

80.5	264.11	157		
81.0	265.75	158		
81.5	267.39	159		
82.0	269.03	160		
82.5	270.67	161		
83.0	272.31	162		
83.5	273.95	163		
84.0	275.59	164		
84.5	277.23	165		
85.0	278.87	166		
85.5	280.51	167		
86.0	282.15	168		
86.5	283.79	169		
87.0	285.43	170		
87.5	287.07	171		
88.0	288.71	172		
88.5	290.35	173		
89.0	291.99	174		
89.5	293.64	175		
90.0	295.28	176		
90.5	296.92	177		
91.0	298.56	178		
91.5	300.20	179		
92.0	301.84	180		
92.5	303.48	181		
93.0	305.12	182		
93.5	306.76	183		
94.0	308.40	184		
94.5	310.04	185		
95.0	311.68	186		
95.5	313.32	187		
96.0	314.96	188		
96.5	316.60	189		
97.0	318.24	190		
97.5	319.88	191		
98.0	321.52	192		
98.5	323.16	193		
99.0	324.80	194		
99.5	326.44	195		
100.0	328.08	196		

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: EXELON VICTORIA *B25821 off set*

DATE: *11/11/07*

CLIENT: MACTEC

JOB: 7501

AUTHOR: C. CARTER

PAGE *8*

OF *9*

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

100.5	329.72	197		
101.0	331.36	198		
101.5	333.01	199		
102.0	334.65	200		
102.5	336.29	201		
103.0	337.93	202		
103.5	339.57	203		
104.0	341.21	204		
104.5	342.85	205		
105.0	344.49	206		
105.5	346.13	207		
106.0	347.77	208		
106.5	349.41	209		
107.0	351.05	210		
107.5	352.69	211		
108.0	354.33	212		
108.5	355.97	213		
109.0	357.61	214		
109.5	359.25	215		
110.0	360.89	216		
110.5	362.53	217		
111.0	364.17	218		
111.5	365.81	219		
112.0	367.45	220		
112.5	369.09	221		
113.0	370.73	222		
113.5	372.38	223		
114.0	374.02	224		
114.5	375.66	225		
115.0	377.30	226		
115.5	378.94	227		
116.0	380.58	228		
116.5	382.22	229		
117.0	383.86	230		
117.5	385.50	231		
118.0	387.14	232		
118.5	388.78	233		
119.0	390.42	234		
119.5	392.06	235		
120.0	393.70	236		

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: EXELON VICTORIA *32821 offset* DATE: *11/11/07*
CLIENT: MACTEC JOB: 7501
AUTHOR: C. CARTER PAGE *9* OF *9*

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

120.5	395.34	237		<i>hit @ 120.92 8:23 pm</i>
121.0	396.98			
121.5	398.62			
122.0	400.26			
122.5	401.90			
123.0	403.54			
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			
140.0	459.32			



B2282A offset CALIPER FIELD LOG

SITE: EXELON VICTORIA COUNTY COL DATE: 11/11/07
CLIENT: MACTEC JOB: 7501
AUTHOR: C. CARTER PAGE 1 OF 2

CONTACT: STEVE CRISENZO OFFICE PHONE: 361-972-0198
CELL PHONE: 919-949-1707
CONTACT: ALLAN SHAW CELL PHONE: 301-704-2684
PHONE:
CONTACT: PHONE:
PHONE:
CONTACT: PHONE:
PHONE:
DRILLER: PHONE:
COMPANY: PHONE:

GENERAL SITE CONDITIONS/LOCATION:

BOREHOLE DESIGNATION: B2282A offset LOCATION: Unit 2

COUNTY: VICTORIA RANGE: TOWNSHIP: SECTION:
BOREHOLE CONSTRUCTION: CASED ☐ UNCASED ☒
DIAMETERS AND DEPTH RANGES: 5 1/2" 0 TO 4 1/2"; TO
BOREHOLE TOTAL DEPTH AS DRILLED: 410'
CONDUCTOR CASING?: YES ☒ DEPTH TO BOTTOM OF CASING 2'; NO
DEPTH TO BEDROCK: NA DEPTH TO WATER TABLE: NA
BOREHOLE FLUID: WATER ☐; FRESH WATER MUD ☒; SALT WATER MUD ☐
OTHER:
DEPTH TO BOREHOLE FLUID: 0 TIME SINCE LAST CIRCULATION: 5 pm

LOGGING CREW: C. CARTER
VEHICLE(S) USED AND MILEAGE: RENTAL
MOBILIZED FROM: VICTORIA, TX DEPARTURE TIME: 3:00 pm
ARRIVED ON SITE: 3:30 pm
STANDBY TIME: CAUSE:
LOGGING STARTED: 9:15 pm LOGGING COMPLETED: 9:54 pm

SITE: EXELON VICTORIA COUNTY COL 82282A offset DATE: u/11/07
CLIENT: MACTEC JOB: 7501
AUTHOR: C. CARTER PAGE 2 OF 2

WINCH: COMPROBE SILVER X OYO RG OTHER
MICROLOGGER 5310 Y 5772 OTHER
CALIPER PROBE 5368 Y OTHER

PROBE OFFSET	2.08M(6.82 FT) 12 IN MAX
MINUS CASING STICK-UP	- 1.1
DEPTH REF. OFFSET AT START	5.72
DEPTH REF. OFFSET AT END	5.65
AFTER SURVEY DEPTH ERROR	.07 LESS THAN 0.4%?

LOG NAME	START DEPTH	START TIME	END DEPTH	END TIME
B2282A offset CAL TEST 1		8:55 pm		8:57 pm
B2282A offset CAL TEST 1	401.45'	9:15 pm	2.95'	9:54 pm
B2282A offset CAL		9:54 pm		10:51 pm

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)	4.500 IN <u>u/11/07</u> (114.3 MM)
AS MEAS.	B2282A offset CAL TEST 1	1.969	3.952	8.006	4.521
AS MEAS.	B2282A offset CAL TEST 2	1.941	3.902	7.966	4.459
AS MEAS.					
AS MEAS.					
AS MEAS.					
AS MEAS.					

MAINTENANCE PERFORMED ON SITE: _____

EQUIPMENT PROBLEMS OR FAILURES: _____

SUGGESTIONS, ADDITIONS, CHANGES: _____



32282A offset

DEVIATION FIELD LOG

SITE: EXELON VICTORIA COUNTY COL DATE: 11/11/07
CLIENT: MACTEC JOB: 7501
AUTHOR: C. CARTER PAGE 1 OF 2

CONTACT: STEVE CRIZENZO OFFICE PHONE: 361-972-0198
CELL PHONE: 919-949-1707
CONTACT: OFFICE PHONE:
PHONE:
CONTACT: PHONE:
PHONE:
CONTACT: PHONE:
PHONE:
PHONE:
DRILLER: PHONE:
COMPANY: PHONE:

DIRECTIONS TO SITE:

GENERAL SITE CONDITIONS/LOCATION:

BOREHOLE DESIGNATION: 32282A offset LOCATION: _____
COUNTY: VICTORIA RANGE: _____ TOWNSHIP: _____ SECTION: _____
BOREHOLE CONSTRUCTION: CASED _____ UNCASD X
DIAMETERS AND DEPTH RANGES: 5" 0 TO 410 ft; _____ TO _____
BOREHOLE TOTAL DEPTH AS DRILLED: 410 ft
CONDUCTOR CASING?: YES X DEPTH TO BOTTOM OF CASING 2'; NO _____
DEPTH TO BEDROCK: NA DEPTH TO WATER TABLE: NA
BOREHOLE FLUID: WATER _____; FRESH WATER MUD X; SALT WATER MUD _____
OTHER: _____
DEPTH TO BOREHOLE FLUID: 0 TIME SINCE LAST CIRCULATION: 5pm



SITE: EXELON VICTORIA COUNTY COL B22824 off 401 DATE: 11/11/07
CLIENT: MACTEC JOB: 7501
AUTHOR: C. CARTER PAGE 2 OF 2

LOGGING CREW: C. CARTER
VEHICLE(S) USED AND MILEAGE: RENTAL
MOBILIZED FROM: Victoria TX DEPARTURE TIME: 3:00pm
ARRIVED ON SITE: 5:30pm
STANDBY TIME: _____ CAUSE: _____
LOGGING STARTED: 10:31pm LOGGING COMPLETED: 10:53pm

WINCH: _____ COMPROBE _____ SILVER X OYO _____ RG _____ OTHER _____
MICROLOGGER 5310 X 5772 _____ OTHER _____
TELEVIEWER 5174 X OTHER _____

1	PROBE TILT TEST	<u>90.29</u>	BRUNTON TILT	<u>90</u>	
2	PROBE TILT TEST	<u>12.38</u>	BRUNTON TILT	<u>12</u>	
3	PROBE TILT TEST	<u>10.25</u>	BRUNTON TILT	<u>10</u>	After log
1	PROBE AZIMUTH TEST	<u>159.1</u>	BRUNTON AZIMUTH	<u>162</u>	
2	PROBE AZIMUTH TEST	<u>39.7</u>	BRUNTON AZIMUTH	<u>42</u>	
3	PROBE AZIMUTH TEST	<u>9.3</u>	BRUNTON AZIMUTH	<u>356</u>	After log

PROBE OFFSET	1.44M(4.72FT)
MINUS CASING STICK-UP	<u>-1.1</u>
DEPTH REF. OFFSET AT START	<u>3.62</u>
DEPTH REF. OFFSET AT END	<u>3.64</u>
AFTER SURVEY DEPTH ERROR	<u>.02</u> LESS THAN 0.4%?

LOG NAME	START DEPTH	START TIME	END DEPTH	END TIME
<u>B22824 off 401</u>	<u>461.3'</u>	<u>10:31pm</u>	<u>3.7'</u>	<u>10:53</u>

MAINTENANCE PERFORMED ON SITE: _____

EQUIPMENT PROBLEMS OR FAILURES: Probe tests were performed near drill pipe. and

SUGGESTIONS, ADDITIONS, CHANGES: _____



DATE: 11/17/07

JOB: 7501

PAGE 1 OF 1

PHONE: 361-972-0198

BOREHOLE CONSTRUCTION: CASED _____ UNCASD X
DIAMETERS AND DEPTH RANGES: 4" 0 TO 310 ft; _____; _____ TO _____
BOREHOLE TOTAL DEPTH AS DRILLED: 310
CONDUCTOR CASING?: YES X DEPTH TO BOTTOM OF CASING 3.5 ft; NO _____
DEPTH TO BEDROCK: N/A
BOREHOLE FLUID: WATER _____; FRESH WATER MUD X; SALT WATER MUD _____;

LOGGING CREW: C. Carter

[illegible]



B2301 ELOG FIELD LOG

SITE: EXELON VICTORIA DATE: 11/17/07
CLIENT: MACTEC JOB: 7501
AUTHOR: C. CARTER PAGE 1 OF 2

CONTACT: STEVE CRISENZO OFFICE PHONE: 361-972-0198
CELL PHONE: 919-949-1707
CONTACT: _____ OFFICE PHONE: _____
PHONE: _____
CONTACT: _____ PHONE: _____
PHONE: _____
CONTACT: _____ PHONE: _____
PHONE: _____
DRILLER: _____ PHONE: _____
COMPANY: _____ PHONE: _____

GENERAL SITE CONDITIONS/LOCATION: _____

BOREHOLE DESIGNATION: _____ LOCATION: _____

COUNTY: VICTORIA RANGE: _____ TOWNSHIP: _____ SECTION: _____
BOREHOLE CONSTRUCTION: CASED _____ UNCASD X
DIAMETERS AND DEPTH RANGES: 4" 0 TO 310 ft; _____ TO _____
BOREHOLE TOTAL DEPTH AS DRILLED: 320 ft
CONDUCTOR CASING?: YES X DEPTH TO BOTTOM OF CASING 3.5'; NO _____
DEPTH TO BEDROCK: NA DEPTH TO WATER TABLE: NA
BOREHOLE FLUID: WATER _____; FRESH WATER MUD X; SALT WATER MUD _____
OTHER: _____

DEPTH TO BOREHOLE FLUID: φ TIME SINCE LAST CIRCULATION: 10:45 am / 12 pm

LOGGING CREW: C. CARTER
VEHICLE(S) USED AND MILEAGE: RENTAL
MOBILIZED FROM: Victoria, TX DEPARTURE TIME: 8:30 am
ARRIVED ON SITE: 9:00 am
STANDBY TIME: _____ CAUSE: _____
LOGGING STARTED: 1:34 pm LOGGING COMPLETED: 2:01 pm