

SITE: EXELON VICTORIA B2301
CLIENT: MACTEC
AUTHOR: C. CARTER

DATE: 11/17/07
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>1.67</u>
DEPTH REF. OFFSET AT START	<u>39.33'</u>
DEPTH REF. OFFSET AT END	<u>39.40</u>
AFTER SURVEY DEPTH ERROR	<u>.07</u> LESS THAN 0.4%?

LOG NAME	START DEPTH	START TIME	END DEPTH	END TIME
B2301ELOGTEST01		10:29 am		10:30 am
B2301ELOGUP01	305.6'	1:34	33.65'	2:01 pm

MAINTENANCE PERFORMED ON SITE: _____

EQUIPMENT PROBLEMS OR FAILURES: _____

SUGGESTIONS, ADDITIONS, CHANGES: _____



P-S SUSPENSION VELOCITY FIELD LOG

SITE: EXELON VICTORIA B-2301 DATE: 11/12/07
CLIENT: MACTEC JOB: 7501
AUTHOR: C. CARTER PAGE 1 OF 7

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: B-2301 LOCATION: Perimeter

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: 310 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: 0 TIME SINCE LAST CIRCULATION: 12:00pm



SITE: EXELON VICTORIA B-2301
CLIENT: MACTEC
AUTHOR: C. CARTER

DATE: 11/17/07
JOB: 7501
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LOGGING CREW: C. CARTER
VEHICLE(S) USED AND MILEAGE: RENTAL
MOBILIZED FROM: Victoria, TX DEPARTURE TIME: _____
ARRIVED ON SITE: _____
STANDBY TIME: _____ CAUSE: _____
LOGGING STARTED: 2:50 pm LOGGING COMPLETED: 4:59 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: RP = top of casing .50m RP = 1.50m
1.44m @ 5:12pm

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: EXELON VICTORIA B2301

DATE: 11/17/07

CLIENT: MACTEC

JOB: 7501

AUTHOR: C. CARTER

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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	001		2:50 m
2.5	8.20	3		
3.0	9.84	3		
3.5	11.48	4		
4.0	13.12	5		
4.5	14.76	6		
5.0	16.40	7		
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 B2301

DATE: 11/17/07

CLIENT: MACTEC

JOB: 7501

AUTHOR: C. CARTER

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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		new paper
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 B2301

DATE: 11/12/07

CLIENT: MACTEC

JOB: 7501

AUTHOR: C. CARTER

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

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: EXELON VICTORIA B2301

DATE: 4/17/07

CLIENT: MACTEC

JOB: 7501

AUTHOR: C. CARTER

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DEPTH METERS	DEPTH FEET	UNFILTERED FILE NO.	FILTERED FILE NO.	COMMENTS CASING, WATER, ROCK, ETC
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60.5	198.49	119		60.2 = 118
61.0	200.13	120		
61.5	201.77	121		
62.0	203.41	122		
62.5	205.05	123		
63.0	206.69	124		
63.5	208.33	125		
64.0	209.97	126		
64.5	211.61	127		
65.0	213.25	128		
65.5	214.90	129		
66.0	216.54	130		
66.5	218.18	131		
67.0	219.82	132		
67.5	221.46	133		
68.0	223.10	134		
68.5	224.74	135		
69.0	226.38	136		
69.5	228.02	137		
70.0	229.66	138		
70.5	231.30	139		
71.0	232.94	140		
71.5	234.58	141		
72.0	236.22	142		
72.5	237.86	143		
73.0	239.50	144		
73.5	241.14	145		
74.0	242.78	146		
74.5	244.42	147		
75.0	246.06	148		
75.5	247.70	149		
76.0	249.34	150		
76.5	250.98	151		
77.0	252.62	152		
77.5	254.27	153		
78.0	255.91	154		
78.5	257.55	155		
79.0	259.19	156		
79.5	260.83	157		
80.0	262.47	158		

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: EXELON VICTORIA B2301

DATE: 11/12/07

CLIENT: MACTEC

JOB: 7501

AUTHOR: C. CARTER

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

80.5	264.11	159		
81.0	265.75	160		
81.5	267.39	161		
82.0	269.03	162		
82.5	270.67	163		
83.0	272.31	164		
83.5	273.95	165		
84.0	275.59	166		
84.5	277.23	167		
85.0	278.87	168		
85.5	280.51	169		
86.0	282.15	170		
86.5	283.79	171		
87.0	285.43	172		
87.5	287.07	173		
88.0	288.71	174		
88.5	290.35	175		
89.0	291.99	176		
89.5	293.64	177		
90.0	295.28	178		4:59 pm
90.5	296.92			
91.0	298.56			
91.5	300.20			
92.0	301.84			
92.5	303.48			
93.0	305.12			
93.5	306.76			
94.0	308.40			
94.5	310.04			
95.0	311.68			
95.5	313.32			
96.0	314.96			
96.5	316.60			
97.0	318.24			
97.5	319.88			
98.0	321.52			
98.5	323.16			
99.0	324.80			
99.5	326.44			
100.0	328.08			



B-2301 CALIPER FIELD LOG

SITE: EXELON VICTORIA COUNTY COL 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: ALLAN SHAW CELL PHONE: 301-704-2684
PHONE:
CONTACT: PHONE:
PHONE:
CONTACT: PHONE:
PHONE:
DRILLER: PHONE:
COMPANY: PHONE:

GENERAL SITE CONDITIONS/LOCATION:

BOREHOLE DESIGNATION: B-2301 LOCATION: Perimeter

COUNTY: VICTORIA RANGE: TOWNSHIP: SECTION:
BOREHOLE CONSTRUCTION: CASED UNCASD X
DIAMETERS AND DEPTH RANGES: 4" 0 TO 310': TO
BOREHOLE TOTAL DEPTH AS DRILLED: 310 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: 0 TIME SINCE LAST CIRCULATION: 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: 6:04 pm LOGGING COMPLETED: 6:45 pm

SITE: EXELON VICTORIA COUNTY COL B-2301 DATE: 11/17/07
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>1.64</u>
DEPTH REF. OFFSET AT START	<u>5.18</u>
DEPTH REF. OFFSET AT END	<u>5.35</u>
AFTER SURVEY DEPTH ERROR	<u>.17</u> LESS THAN 0.4%?

LOG NAME	START DEPTH	START TIME	END DEPTH	END TIME
B2301CALTEST01		5:37 pm		5:38 pm
B2301CALUP01	306.1'	6:04 pm	.95'	6:35 pm
B2301CALTEST02		6:44 pm		6:45 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.	B2301caltest01	1.983	3.925	8.006	4.536
AS MEAS.	B2301caltest02	1.997	3.748	8.650	4.521
AS MEAS.					
AS MEAS.					
AS MEAS.					
AS MEAS.					

MAINTENANCE PERFORMED ON SITE: _____

EQUIPMENT PROBLEMS OR FAILURES: _____

SUGGESTIONS, ADDITIONS, CHANGES: _____



B-2301

DEVIATION FIELD LOG

SITE: EXELON VICTORIA COUNTY COL _____ 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: _____

DIRECTIONS TO SITE: _____

GENERAL SITE CONDITIONS/LOCATION: _____

BOREHOLE DESIGNATION: B-2301 LOCATION: Perimeter

COUNTY: VICTORIA RANGE: _____ TOWNSHIP: _____ SECTION: _____
BOREHOLE CONSTRUCTION: CASED _____ UNCASD ☒
DIAMETERS AND DEPTH RANGES: 4" 0 TO 310 ft ; _____ TO _____
BOREHOLE TOTAL DEPTH AS DRILLED: 310 ft
CONDUCTOR CASING?: YES ☒ DEPTH TO BOTTOM OF CASING 3.5' ; NO
DEPTH TO BEDROCK: NA DEPTH TO WATER TABLE: NA
BOREHOLE FLUID: WATER _____; FRESH WATER MUD ☒; SALT WATER MUD _____
OTHER: _____
DEPTH TO BOREHOLE FLUID: ϕ TIME SINCE LAST CIRCULATION: 12 pm



SITE: EXELON VICTORIA COUNTY COL B2301 DATE: 11/17/07
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: 8:30 am
ARRIVED ON SITE: 9:00 am
STANDBY TIME: _____ CAUSE: _____
LOGGING STARTED: 7:14 pm LOGGING COMPLETED: _____

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

1	PROBE TILT TEST	<u>65.7</u>	BRUNTON TILT	<u>24</u>	
2	PROBE TILT TEST	<u>21.97</u>	BRUNTON TILT	<u>68</u>	
3	PROBE TILT TEST	<u>64.0</u>	BRUNTON TILT	<u>26</u>	<i>after log</i>
1	PROBE AZIMUTH TEST	<u>346</u>	BRUNTON AZIMUTH	<u>344</u>	
2	PROBE AZIMUTH TEST	<u>290.7</u>	BRUNTON AZIMUTH	<u>292</u>	
3	PROBE AZIMUTH TEST	<u>275.9</u>	BRUNTON AZIMUTH	<u>271</u>	<i>after log</i>

PROBE OFFSET	1.44M(4.72FT)
MINUS CASING STICK-UP	<u>1.64</u>
DEPTH REF. OFFSET AT START	<u>3.08</u>
DEPTH REF. OFFSET AT END	<u>3.22</u>
AFTER SURVEY DEPTH ERROR	<u>.14</u> LESS THAN 0.4%?

LOG NAME	START DEPTH	START TIME	END DEPTH	END TIME
B2301400P01	303.2'	7:14 pm	3.1'	7:28 pm

MAINTENANCE PERFORMED ON SITE: _____

EQUIPMENT PROBLEMS OR FAILURES: _____

SUGGESTIONS, ADDITIONS, CHANGES: _____



DATE: 4/15/07
JOB: 7501
PAGE 1 OF 1

PHONE: 361-972-0198

LOGGING CREW: C. Carter

[illegible]



B2302 ELOG FIELD LOG

SITE: EXELON VICTORIA DATE: 4/15/07
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: B2302 LOCATION: Perimeter

COUNTY: VICTORIA RANGE: _____ TOWNSHIP: _____ SECTION: _____
BOREHOLE CONSTRUCTION: CASED _____ UNCASD X
DIAMETERS AND DEPTH RANGES: 4.5" 0 TO 315 ft; _____ TO _____
BOREHOLE TOTAL DEPTH AS DRILLED: 315 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: 0 TIME SINCE LAST CIRCULATION: 1 pm

LOGGING CREW: C. CARTER
VEHICLE(S) USED AND MILEAGE: RENTAL
MOBILIZED FROM: Victoria TX DEPARTURE TIME: 9:30 am
ARRIVED ON SITE: 10:00 am
STANDBY TIME: _____ CAUSE: _____
LOGGING STARTED: 1:55 pm LOGGING COMPLETED: 2:23 pm

SITE: EXELON VICTORIA B-2302
CLIENT: MACTEC
AUTHOR: C. CARTER

DATE: 4/15/07
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>0</u>
DEPTH REF. OFFSET AT START	<u>41.0</u>
DEPTH REF. OFFSET AT END	<u>41.4</u>
AFTER SURVEY DEPTH ERROR	<u>.4</u> LESS THAN 0.4%?

LOG NAME	START DEPTH	START TIME	END DEPTH	END TIME
B2302 ELOG TEST 01		1:12 pm		1:13 pm
B2302 ELOG UPD 1	315.1 ft	1:55 pm	39.65'	2:23

MAINTENANCE PERFORMED ON SITE: _____

EQUIPMENT PROBLEMS OR FAILURES: _____

SUGGESTIONS, ADDITIONS, CHANGES: _____



P-S SUSPENSION VELOCITY FIELD LOG

SITE: EXELON VICTORIA B2302 DATE: 11/15/07
CLIENT: MACTEC JOB: 7501
AUTHOR: C. CARTER PAGE 1 OF 7

CONTACT: STEVE CRIZENZO 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: B2302 LOCATION: Perimeter

COUNTY: VICTORIA RANGE: TOWNSHIP: SECTION:
BOREHOLE CONSTRUCTION: CASED UNCASED ☒
DIAMETERS AND DEPTH RANGES: 4.5" 0 TO 315 ft; TO
BOREHOLE TOTAL DEPTH AS DRILLED: 315 ft
CONDUCTOR CASING?: YES DEPTH TO BOTTOM OF CASING; 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: 1pm



SITE: EXELON VICTORIA 82302 DATE: 4/15/07
CLIENT: MACTEC JOB: 7501
AUTHOR: C. CARTER PAGE 2 OF 7

LOGGING CREW: C. CARTER
VEHICLE(S) USED AND MILEAGE: RENTAL
MOBILIZED FROM: Victoria, TX DEPARTURE TIME: 9:30am
ARRIVED ON SITE: 10pm
STANDBY TIME: _____ CAUSE: _____
LOGGING STARTED: 2:36pm LOGGING COMPLETED: 4:12pm
STANDBY TIME: _____ CAUSE: _____
LOGGING STARTED: _____ LOGGING COMPLETED: _____
DEMOBILIZED 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: 20 = ground surface 2.48m
2.63

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: EXELON VICTORIA B-2302

DATE: 11/15/07

CLIENT: MACTEC

JOB: 7501

AUTHOR: C. CARTER

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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		2:36 pm
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 32302

DATE: 11/15/07

CLIENT: MACTEC

JOB: 7501

AUTHOR: C. CARTER

PAGE 4 OF 7

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

20.5	67.26	39		
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 82302

DATE: 11/15/07

CLIENT: MACTEC

JOB: 7501

AUTHOR: C. CARTER

PAGE 5 OF 7

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

40.5	132.87	77		
41.0	134.51	78		
41.5	136.15	79		
42.0	137.80	80		
42.5	139.44	81		
43.0	141.08	82		
43.5	142.72	83		
44.0	144.36	84		
44.5	146.00	85		
45.0	147.64	86		
45.5	149.28	87		
46.0	150.92	88		
46.5	152.56	89		
47.0	154.20	90		
47.5	155.84	91		
48.0	157.48	92		
48.5	159.12	93		
49.0	160.76	94		
49.5	162.40	95		
50.0	164.04	96		
50.5	165.68	97		
51.0	167.32	98		
51.5	168.96	99		
52.0	170.60	100		
52.5	172.24	101		
53.0	173.88	102		
53.5	175.52	103		
54.0	177.17	104		
54.5	178.81	105		
55.0	180.45	106		
55.5	182.09	107		
56.0	183.73	108		
56.5	185.37	109		
57.0	187.01	110		
57.5	188.65	111		
58.0	190.29	112		
58.5	191.93	113		
59.0	193.57	114		
59.5	195.21	115		
60.0	196.85	116		

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: EXELON VICTORIA 82302

DATE: 11/15/07

CLIENT: MACTEC

JOB: 7501

AUTHOR: C. CARTER

PAGE 6 OF 7

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

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 B2302

DATE: 11/15/07

CLIENT: MACTEC

JOB: 7501

AUTHOR: C. CARTER

PAGE 7 OF 7

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		4112
92.0	301.84			
92.5	303.48			
93.0	305.12			
93.5	306.76			
94.0	308.40			
94.5	310.04			
95.0	311.68			
95.5	313.32			
96.0	314.96			
96.5	316.60			
97.0	318.24			
97.5	319.88			
98.0	321.52			
98.5	323.16			
99.0	324.80			
99.5	326.44			
100.0	328.08			



B-2302

CALIPER FIELD LOG

SITE: EXELON VICTORIA COUNTY COL _____ DATE: 11/15/07
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: _____
CONTACT: _____ PHONE: _____
PHONE: _____
DRILLER: _____ PHONE: _____
COMPANY: _____ PHONE: _____

GENERAL SITE CONDITIONS/LOCATION: _____

BOREHOLE DESIGNATION: B-2302 LOCATION: Perimeter
COUNTY: VICTORIA RANGE: _____ TOWNSHIP: _____ SECTION: _____
BOREHOLE CONSTRUCTION: CASED _____ UNCASD ☒
DIAMETERS AND DEPTH RANGES: 4.5" 0 TO 315 ft ; _____ TO _____
BOREHOLE TOTAL DEPTH AS DRILLED: 315 ft
CONDUCTOR CASING?: YES _____ DEPTH TO BOTTOM OF CASING _____; NO ☒
DEPTH TO BEDROCK: N/A DEPTH TO WATER TABLE: N/A
BOREHOLE FLUID: WATER _____; FRESH WATER MUD ☒; SALT WATER MUD _____
OTHER: _____
DEPTH TO BOREHOLE FLUID: ~5 ft TIME SINCE LAST CIRCULATION: 1 pm

LOGGING CREW: C. CARTER
VEHICLE(S) USED AND MILEAGE: RENTAL
MOBILIZED FROM: VICTORIA, TX DEPARTURE TIME: 7:30 am
ARRIVED ON SITE: 10 am
STANDBY TIME: _____ CAUSE: _____
LOGGING STARTED: 5:01 pm LOGGING COMPLETED: 5:30 pm

SITE: EXELON VICTORIA COUNTY COL B-2302
CLIENT: MACTEC
AUTHOR: C. CARTER

DATE: 11/05/07
JOB: 7501
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>6.80</u>
AFTER SURVEY DEPTH ERROR	<u>.02</u> LESS THAN 0.4%?

LOG NAME	START DEPTH	START TIME	END DEPTH	END TIME
B2302CALTEST01		4:42pm		4:43pm
B2302CALUP01	302.05'	5:01pm	5.15'	5:30pm
B2302CALTEST02		5:42pm		5:43pm

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.	B2302CALTEST01	1.997	3.948	8.050	4.521
AS MEAS.	B2302CALTEST02	1.983	3.964	8.040	4.534
AS MEAS.					
AS MEAS.					
AS MEAS.					
AS MEAS.					

MAINTENANCE PERFORMED ON SITE: _____

EQUIPMENT PROBLEMS OR FAILURES: _____

SUGGESTIONS, ADDITIONS, CHANGES: _____



B-2302

DEVIATION FIELD LOG

SITE: EXELON VICTORIA COUNTY COL DATE: 4/15/07
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: _____

DIRECTIONS TO SITE: _____

GENERAL SITE CONDITIONS/LOCATION: _____

BOREHOLE DESIGNATION: B-2302 LOCATION: Perimeter

COUNTY: VICTORIA RANGE: _____ TOWNSHIP: _____ SECTION: _____
BOREHOLE CONSTRUCTION: CASED _____ UNCASD X
DIAMETERS AND DEPTH RANGES: 4.5" 0 TO 315 ft; _____ TO _____
BOREHOLE TOTAL DEPTH AS DRILLED: 315 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: Ø TIME SINCE LAST CIRCULATION: 1 pm



SITE: EXELON VICTORIA COUNTY COL B2302 DATE: 11/15/07
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: 9:30 am
ARRIVED ON SITE: 10:00 am
STANDBY TIME: _____ CAUSE: _____
LOGGING STARTED: 6:15 pm LOGGING COMPLETED: 6:31 pm

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

1 PROBE TILT TEST 89.92 BRUNTON TILT 0
2 PROBE TILT TEST 75.0 BRUNTON TILT 15
3 PROBE TILT TEST 59.76 BRUNTON TILT 30 *After log*
1 PROBE AZIMUTH TEST 334.1 BRUNTON AZIMUTH 333
2 PROBE AZIMUTH TEST 380.6 BRUNTON AZIMUTH 84
3 PROBE AZIMUTH TEST 281.1 BRUNTON AZIMUTH 276 *After log*

PROBE OFFSET	1.44M(4.72FT)
MINUS CASING STICK-UP	<u>0</u>
DEPTH REF. OFFSET AT START	<u>4.72</u>
DEPTH REF. OFFSET AT END	<u>4.70</u>
AFTER SURVEY DEPTH ERROR	<u>.02</u> LESS THAN 0.4%?

LOG NAME	START DEPTH	START TIME	END DEPTH	END TIME
<u>B2302ADUP01</u>	<u>303.5'</u>	<u>6:15 pm</u>	<u>2.8'</u>	<u>6:31 pm</u>

MAINTENANCE PERFORMED ON SITE: _____
EQUIPMENT PROBLEMS OR FAILURES: _____
SUGGESTIONS, ADDITIONS, CHANGES: _____



B-2303 BORING GEOPHYSICS FIELD LOG SUMMARY

SITE: EXELON-VICTORIA

CLIENT: MACTEC

AUTHOR: G. CARTER R. STELLER 11/15/07

DATE: 11/15/07

JOB: 7501

PAGE 1 OF 1

CONTACT:_STEVE CRISENZO

PHONE: 361-972-0198

BOREHOLE CONSTRUCTION: CASED _____ UNCASED ☒

DIAMETERS AND DEPTH RANGES: 5" 0 TO 310'; _____ TO _____

BOREHOLE TOTAL DEPTH AS DRILLED: 310

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

DEPTH TO BEDROCK: NA

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

LOGGING CREW: ~~C. Carter~~ R. STELZER 11/15/07

[illegible]



B-2303 ELOG FIELD LOG

SITE: EXELON VICTORIA DATE: 11/15/07
CLIENT: MACTEC JOB: 7501
AUTHOR: G. CARTER R. STEUER 11/15/07 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: B2303 LOCATION: _____
COUNTY: VICTORIA RANGE: _____ TOWNSHIP: _____ SECTION: _____
BOREHOLE CONSTRUCTION: CASED _____ UNCASD ☒
DIAMETERS AND DEPTH RANGES: 5" 0 TO 310'; _____ TO _____
BOREHOLE TOTAL DEPTH AS DRILLED: 310'
CONDUCTOR CASING?: YES _____ DEPTH TO BOTTOM OF CASING _____; NO ☒
DEPTH TO BEDROCK: NA DEPTH TO WATER TABLE: _____
BOREHOLE FLUID: WATER _____; FRESH WATER MUD ☒; SALT WATER MUD _____
OTHER: _____
DEPTH TO BOREHOLE FLUID: 0 TIME SINCE LAST CIRCULATION: 1/2 HR

LOGGING CREW: G. CARTER R. STEUER 11/15/07
VEHICLE(S) USED AND MILEAGE: RENTAL
MOBILIZED FROM: 10:30 DEPARTURE TIME: 10:00
ARRIVED ON SITE: _____
STANDBY TIME: _____ CAUSE: _____
LOGGING STARTED: 12:21 LOGGING COMPLETED: 12:40

SITE: EXELON VICTORIA B-2303

DATE: 11/15/07

CLIENT: MACTEC

JOB: 7501

AUTHOR: G. CARTER B. Stevens

11/15/07

PAGE 2 OF 2

WINCH: COMPROBE SILVER OYO RG ☒ OTHER 5310
MICROLOGGER 5772 ☒ OTHER 5490 ☒ OTHER 5490 ☒

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>59.8'</u>
AFTER SURVEY DEPTH ERROR	<u>-0.1'</u> LESS THAN 0.4%? <u>YES</u>

LOG NAME	START DEPTH	START TIME	END DEPTH	END TIME
<u>B2303 ELOG TEST 1</u>	<u>0</u>	<u>17:21</u>	<u>0</u>	<u>17:23</u>
<u>B2303 ELOG 101</u>	<u>39.0'</u>	<u>17:48</u>	<u>39.6'</u>	<u>18:16</u>

MAINTENANCE PERFORMED ON SITE: _____

EQUIPMENT PROBLEMS OR FAILURES: _____

SUGGESTIONS, ADDITIONS, CHANGES: _____



P-S SUSPENSION VELOCITY FIELD LOG

SITE: EXELON VICTORIA B-2303 DATE: 11/15/07
CLIENT: MACTEC JOB: 7501
AUTHOR: G. CARTER R. Stewen 11/15/07 PAGE 1 OF 7
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: B-2303 LOCATION: _____
COUNTY: VICTORIA RANGE: _____ TOWNSHIP: _____ SECTION: _____
BOREHOLE CONSTRUCTION: CASED _____ UNCASD ☒
DIAMETERS AND DEPTH RANGES: 5" 0 TO 310'; _____ TO _____
BOREHOLE TOTAL DEPTH AS DRILLED: 310'
CONDUCTOR CASING?: YES _____ DEPTH TO BOTTOM OF CASING _____; NO ☒
DEPTH TO BEDROCK: NA DEPTH TO WATER TABLE: 245
BOREHOLE FLUID: WATER _____; FRESH WATER MUD ☒; SALT WATER MUD _____;
OTHER: _____
DEPTH TO BOREHOLE FLUID: 0 TIME SINCE LAST CIRCULATION: 1 1/2 HR



SITE: EXELON VICTORIA B-2303

DATE: 11/15/07

CLIENT: MACTEC

JOB: 7501

AUTHOR: C. CARTER R. STEUER

PAGE 2 OF 7

11/15/07

LOGGING CREW: C. CARTER R. STEUER

VEHICLE(S) USED AND MILEAGE: RENTAL

MOBILIZED FROM: Victoria, TX

DEPARTURE TIME: 10:00

ARRIVED ON SITE: 10:30

STANDBY TIME:

CAUSE:

RAS 11/15/07

LOGGING STARTED: 14:35

LOGGING COMPLETED: 12 20:28

STANDBY TIME:

CAUSE:

LOGGING STARTED:

LOGGING COMPLETED:

DEMobilized TO:

ARRIVAL TIME:

ADDITIONAL DEMOB TIME:

REASON:

BATTERIES CHANGED BEFORE LOGGING: YES ☐ ; NO ☒ ; STORED WITH NEW

WINCH

COMPROBE ☐

GREY ☐

OYO ☐

RG ☒

OTH ☐

INSTRUMENT

OYO 12004 ☐

15014 ☐

19029 ☐

RG 160023 ☒

160024 ☐

RECEIVER S/N

12008 ☐

20042 ☒

26066 ☐

11001 ☐

23053 ☐

30086 ☐

MAINTENANCE PERFORMED ON SITE:

EQUIPMENT PROBLEMS OR FAILURES:

SUGGESTIONS, ADDITIONS, CHANGES:

COMMENTS:

DEPTH REFERENCE = 2.5m - 38 (1.1 ft) = 2.16m
2.21
DEPTH = 40.05m

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: EXELON VICTORIA B-2303

DATE: 11/15/07

CLIENT: MACTEC

JOB: 7501

AUTHOR: G. CARTER R. STEWART 11/15/07

PAGE 3 OF 7

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	1		
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	7		
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		