

### GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: EXELON VICTORIA B-12  
CLIENT: MACTEC  
AUTHOR: C. CARTER

DATE: 10/24/07  
JOB: 7359 7501  
PAGE 4 OF 7

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		

994

## GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: EXELON VICTORIA B-12 DATE: 10/24/07  
 CLIENT: MACTEC JOB: 7359 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 B-12  
 CLIENT: MACTEC  
 AUTHOR: C. CARTER

DATE: 10/24/07  
 JOB: ~~7359~~ 7501  
 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 B-12 DATE: 10/24/07  
 CLIENT: MACTEC JOB: 7359, 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		90.22 hit bottom 2:30pm
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			





B21621 offset ELOG FIELD LOG

SITE: EXELON VICTORIA DATE: 11/14/07  
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: B21621 offset LOCATION: Unit 1

COUNTY: VICTORIA RANGE: TOWNSHIP: SECTION:  
BOREHOLE CONSTRUCTION: CASED UNCASED X  
DIAMETERS AND DEPTH RANGES: 5" 0 TO 210 ft; TO  
BOREHOLE TOTAL DEPTH AS DRILLED: 210 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: 11:30am

LOGGING CREW: C. CARTER  
VEHICLE(S) USED AND MILEAGE: RENTAL  
MOBILIZED FROM: Victoria, TX DEPARTURE TIME: 8:30am  
ARRIVED ON SITE: 9:00am  
STANDBY TIME: CAUSE:  
LOGGING STARTED: 12:53pm LOGGING COMPLETED: 1:10pm

SITE: EXELON VICTORIA B21624 offset DATE: 4/14/07  
 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 YOKÉ 10.0M (32.8 FT)	32.8
MINUS CASING STICK-UP	0
DEPTH REF. OFFSET AT START	41.0
DEPTH REF. OFFSET AT END	41.0
AFTER SURVEY DEPTH ERROR	0 LESS THAN 0.4%?

LOG NAME	START DEPTH	START TIME	END DEPTH	END TIME
B21624 offset 01		12:28 pm		12:29 pm
B21624 offset log up 01	208 ft	12:53 pm	40.15'	1:10 pm

MAINTENANCE PERFORMED ON SITE: \_\_\_\_\_

EQUIPMENT PROBLEMS OR FAILURES: \_\_\_\_\_

SUGGESTIONS, ADDITIONS, CHANGES: \_\_\_\_\_



### P-S SUSPENSION VELOCITY FIELD LOG

SITE: EXELON VICTORIA B2162A offsite DATE: 11/14/07  
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: B2162A offsite LOCATION: Unit 1

COUNTY: VICTORIA RANGE: \_\_\_\_\_ TOWNSHIP: \_\_\_\_\_ SECTION: \_\_\_\_\_  
BOREHOLE CONSTRUCTION: CASED \_\_\_\_\_ UNCASD X  
DIAMETERS AND DEPTH RANGES: 5" 0 TO 210 ft; \_\_\_\_\_ TO \_\_\_\_\_  
BOREHOLE TOTAL DEPTH AS DRILLED: 210 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: 11:30am





SITE: EXELON VICTORIA 321624 effact DATE: 11/14/07  
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: 8:30am  
ARRIVED ON SITE: 9:00am  
STANDBY TIME: \_\_\_\_\_ CAUSE: \_\_\_\_\_  
LOGGING STARTED: 1:25 pm LOGGING COMPLETED: 2:28 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 = ground surface 2.48 m  
2.51 m @ 2:40 pm

## GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: EXELON VICTORIA B21624 d/c      DATE: 11/14/07  
 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
0.5	1.64			
1.0	3.28			
1.5	4.92			
2.0	6.56			
2.5	8.20	601		1:25
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 32162A off site      DATE: 11/14/07  
 CLIENT: MACTEC      JOB: 7501  
 AUTHOR: C. CARTER      PAGE 4 OF 5

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 B2162A off site DATE: 11/14/07  
 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	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	97		
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		2:28 pm
60.0	196.85			



B2162A offsite CALIPER FIELD LOG

SITE: EXELON VICTORIA COUNTY COL DATE: 11/16/07  
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: B2162A offsite LOCATION: \_\_\_\_\_

COUNTY: VICTORIA RANGE: \_\_\_\_\_ TOWNSHIP: \_\_\_\_\_ SECTION: \_\_\_\_\_  
BOREHOLE CONSTRUCTION: CASED UNCASED 7  
DIAMETERS AND DEPTH RANGES: 5" 0 TO 210 ft; \_\_\_\_\_ TO \_\_\_\_\_  
BOREHOLE TOTAL DEPTH AS DRILLED: 210 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: 2 ft TIME SINCE LAST CIRCULATION: 11:30 am

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: 3:08 pm LOGGING COMPLETED: 3:30 pm

SITE: EXELON VICTORIA COUNTY COL B2162A off site DATE: 11/14/07  
 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>6.80</u>
AFTER SURVEY DEPTH ERROR	<u>.02</u> LESS THAN 0.4%?

LOG NAME	START DEPTH	START TIME	END DEPTH	END TIME
<u>B2162A off cal test 01</u>		<u>2:48 pm</u>		<u>2:49 pm</u>
<u>B2162A off cal up 01</u>	<u>202.15'</u>	<u>3:08 pm</u>	<u>5.85'</u>	<u>3:30 pm</u>
<u>B2162A off cal test 02</u>		<u>3:45 pm</u>		<u>3:46 pm</u>

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)	4.507 IN (114.3 MM)
AS MEAS.	<u>B2162A off cal test 01</u>	<u>1.997</u>	<u>3.952</u>	<u>8.043</u>	<u>4.521</u>
AS MEAS.	<u>B2162A off cal test 02</u>	<u>1.933</u>	<u>3.911</u>	<u>8.036</u>	<u>4.536</u>
AS MEAS.					
AS MEAS.					
AS MEAS.					
AS MEAS.					

cc 11/14/07

MAINTENANCE PERFORMED ON SITE: \_\_\_\_\_

EQUIPMENT PROBLEMS OR FAILURES: \_\_\_\_\_

SUGGESTIONS, ADDITIONS, CHANGES: \_\_\_\_\_





B2162A offset DEVIATION FIELD LOG

SITE: EXELON VICTORIA COUNTY COL DATE: 11/14/07  
 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-2162A offset LOCATION: \_\_\_\_\_  
 COUNTY: VICTORIA RANGE: \_\_\_\_\_ TOWNSHIP: \_\_\_\_\_ SECTION: \_\_\_\_\_  
 BOREHOLE CONSTRUCTION: CASED \_\_\_\_\_ UNCASD   
 DIAMETERS AND DEPTH RANGES: 5" 0 TO 210 ft; \_\_\_\_\_ TO \_\_\_\_\_  
 BOREHOLE TOTAL DEPTH AS DRILLED: 210 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: 10 ft TIME SINCE LAST CIRCULATION: 11:30 am



SITE: EXELON VICTORIA COUNTY COL B2162A off 400051 DATE: 11/14/07  
 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: 4:17 pm LOGGING COMPLETED: 4:30 pm

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

1 PROBE TILT TEST 90.66 BRUNTON TILT 0  
 2 PROBE TILT TEST 72.44 BRUNTON TILT 18  
 3 PROBE TILT TEST 77.61 BRUNTON TILT 13 *After log*  
 1 PROBE AZIMUTH TEST 291.0 BRUNTON AZIMUTH 285  
 2 PROBE AZIMUTH TEST 353.0 BRUNTON AZIMUTH 356  
 3 PROBE AZIMUTH TEST 31.5 BRUNTON AZIMUTH 34 *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>4.72</u>
AFTER SURVEY DEPTH ERROR	<u>0</u> LESS THAN 0.4%?

LOG NAME	START DEPTH	START TIME	END DEPTH	END TIME
<u>B2162A off 400051</u>	<u>204.7'</u>	<u>4:17 pm</u>	<u>3.1 ft</u>	<u>4:30 pm</u>

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



B-2174A <sup>offset</sup> BORING GEOPHYSICS FIELD LOG SUMMARY

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

DATE: 11/9/07 + 11/12/07  
JOB: 7501  
PAGE 1 OF 1

CONTACT: STEVE CRISENZO

PHONE: 361-972-0198

BOREHOLE CONSTRUCTION: CASED \_\_\_\_\_ UNCASD X  
DIAMETERS AND DEPTH RANGES: 7 3/4" 0 TO 40 ft; 6 3/4" 40 ft TO 617 ft  
BOREHOLE TOTAL DEPTH AS DRILLED: 617 ft  
CONDUCTOR CASING?: YES \_\_\_\_\_ DEPTH TO BOTTOM OF CASING \_\_\_\_\_; NO X  
DEPTH TO BEDROCK: NA  
BOREHOLE FLUID: WATER \_\_\_\_\_; FRESH WATER MUD X; SALT WATER MUD \_\_\_\_\_;

LOGGING CREW: C. Carter

LOG TYPE	FILE NAME	DEPTH RANGE	DATE	TIMES
ELOG	B2174AELOGTEST01		11/9/07	11:54 am - 11:55 am
ELOG	B2174AELOGUP01	609.8' - 37.8'	11/9/07	5:20 - 6:17 pm
P-S velocity	B2174ASUSPDW01	2.5m - 93.0m	11/9/07	6:48 p - 8:20 pm
Caliper	B2174ACALTEST01		11/9/07	9:00 pm - 9:01 pm
Caliper	B2174ACALUP01	317.55' - 4.75'	11/9/07	9:27 pm - 9:59 pm
Caliper	B2174ACALTEST02		11/9/07	10:05 p - 10:07 p
Deviation	B2174AAUUP01	317 - 3.8'	11/9/07	10:50 p - 11:12 p
P-S velocity	B2174AoffSUSPDW01	90.0m - 183.0m	11/12/07	2:02 - 3:34 pm
Caliper	B2174AoffCALTEST03			<del>12:47 - 1:19 pm</del> 11:48 - 11:50 am
Caliper	B2174AoffCALUP02	599.6' - 295.8'		12:47 - 1:19 pm
Caliper	B2174AoffCALTEST04			1:36 - 1:37 pm
Deviation	B2174AoffAAUUP02	604.8' - 297'	11/12/07	4:38 pm - 4:55 pm

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



P-S SUSPENSION VELOCITY FIELD LOG

SITE: EXELON VICTORIA B-2174A offset DATE: 11/19/07 / 11/12/07  
CLIENT: MACTEC JOB: 7501  
AUTHOR: C. CARTER PAGE 1 OF 12

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-2174A offset LOCATION: Unit 1  
COUNTY: VICTORIA RANGE: \_\_\_\_\_ TOWNSHIP: \_\_\_\_\_ SECTION: \_\_\_\_\_  
BOREHOLE CONSTRUCTION: CASED \_\_\_\_\_ UNCASD X  
DIAMETERS AND DEPTH RANGES: 7 1/8" 0 TO 40 ft; 6 3/4" 40' TO 617'  
BOREHOLE TOTAL DEPTH AS DRILLED: 617 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: 4pm / 1pm



SITE: EXELON VICTORIA B-2174A off DATE: 11/9/07 + 11/12/07  
CLIENT: MACTEC JOB: 7501  
AUTHOR: C. CARTER PAGE 2 OF 12

LOGGING CREW: C. CARTER  
VEHICLE(S) USED AND MILEAGE: RENTAL  
MOBILIZED FROM: Victoria, TX DEPARTURE TIME: 7:30 am / 10:30 (11/12)  
ARRIVED ON SITE: 8:00 am / 11:00 am (11/12)  
STANDBY TIME: 11a - 4:30 pm CAUSE: Drillers cleaning hole  
LOGGING STARTED: 6:48 pm LOGGING COMPLETED: 8:20 pm  
STANDBY TIME: \_\_\_\_\_ CAUSE: \_\_\_\_\_  
LOGGING STARTED: 2:02 pm (11/12) LOGGING COMPLETED: 3:34 pm (11/12)  
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 = ground surface = 2.48  
RP 2.51 after log  
11/12/07 : RP = ground surface = 2.48  
2.52 after log @ 4:00 pm

## GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: EXELON VICTORIA B-2174A  
 CLIENT: MACTEC  
 AUTHOR: C. CARTER

DATE: 11/9/07  
 JOB: 7501  
 PAGE 3 OF 12

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	<del>6</del> 001		6:48 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 B2174A 46  
 CLIENT: MACTEC  
 AUTHOR: C. CARTER

DATE: 11/9/07  
 JOB: 7501  
 PAGE 4 OF 12

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 321742 of 6 DATE: 11/9/07  
 CLIENT: MACTEC JOB: 7501  
 AUTHOR: C. CARTER PAGE 5 OF 12

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			
46.0	150.92			
46.5	152.56			
47.0	154.20			
47.5	155.84			
48.0	157.48			
48.5	159.12			
49.0	160.76			
49.5	162.40			
50.0	164.04	96		
50.5	165.68			
51.0	167.32			
51.5	168.96			
52.0	170.60			
52.5	172.24			
53.0	173.88			
53.5	175.52			
54.0	177.17			
54.5	178.81			
55.0	180.45	166		
55.5	182.09			
56.0	183.73			
56.5	185.37			
57.0	187.01			
57.5	188.65			
58.0	190.29			
58.5	191.93			
59.0	193.57			
59.5	195.21			
60.0	196.85	116		

## GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: EXELON VICTORIA 82124A/06 DATE: 11/9/07  
 CLIENT: MACTEC JOB: 7501  
 AUTHOR: C. CARTER PAGE 6 OF 12

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

60.5	198.49	117		
61.0	200.13			
61.5	201.77			
62.0	203.41			
62.5	205.05			
63.0	206.69			
63.5	208.33			
64.0	209.97			
64.5	211.61			
65.0	213.25	126		
65.5	214.90			
66.0	216.54			
66.5	218.18			
67.0	219.82			
67.5	221.46			
68.0	223.10			
68.5	224.74			
69.0	226.38			
69.5	228.02			
70.0	229.66	136		
70.5	231.30			
71.0	232.94			
71.5	234.58			
72.0	236.22			
72.5	237.86			
73.0	239.50			
73.5	241.14			
74.0	242.78			
74.5	244.42			
75.0	246.06	146		
75.5	247.70			
76.0	249.34			
76.5	250.98			
77.0	252.62			
77.5	254.27			
78.0	255.91			
78.5	257.55			
79.0	259.19			
79.5	260.83			
80.0	262.47	156		

## GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: EXELON VICTORIA 32174A/6      DATE: 11/9/07 / 11/12/07  
 CLIENT: MACTEC      JOB: 7501  
 AUTHOR: C. CARTER      PAGE 7 OF 12

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

80.5	264.11	157		
81.0	265.75			
81.5	267.39			
82.0	269.03			
82.5	270.67			
83.0	272.31			
83.5	273.95			
84.0	275.59			
84.5	277.23			
85.0	278.87	166		
85.5	280.51			
86.0	282.15			
86.5	283.79			
87.0	285.43			
87.5	287.07			
88.0	288.71			
88.5	290.35			
89.0	291.99			
89.5	293.64			
90.0	295.28	176	284	2:02 (11/12/07)
90.5	296.92		285	
91.0	298.56		286	
91.5	300.20		287	
92.0	301.84		288	
92.5	303.48		289	
93.0	305.12	182	290	hit bottom 93.1 8:20pm (11/9/07)
93.5	306.76		291	
94.0	308.40		292	
94.5	310.04		293	
95.0	311.68		294	
95.5	313.32		295	
96.0	314.96		296	
96.5	316.60		297	
97.0	318.24		298	
97.5	319.88		299	
98.0	321.52		300	
98.5	323.16		301	
99.0	324.80		302	
99.5	326.44		303	
100.0	328.08		304	

### GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: EXELON VICTORIA 32174 Afford      DATE: 11/12/07  
 CLIENT: MACTEC      JOB: 7501  
 AUTHOR: C. CARTER      PAGE 8 OF 12

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

100.5	329.72	305		
101.0	331.36	306		
101.5	333.01	307		
102.0	334.65	308		
102.5	336.29	309		
103.0	337.93	310		
103.5	339.57	311		
104.0	341.21	312		
104.5	342.85	313		
105.0	344.49	314		
105.5	346.13	315		
106.0	347.77	316		
106.5	349.41	317		
107.0	351.05	318		
107.5	352.69	319		
108.0	354.33	320		
108.5	355.97	321		
109.0	357.61	322		
109.5	359.25	323		
110.0	360.89	324		
110.5	362.53	325		
111.0	364.17	326		
111.5	365.81	327		
112.0	367.45	328		
112.5	369.09	329		
113.0	370.73	330		
113.5	372.38	331		
114.0	374.02	332		
114.5	375.66	333		
115.0	377.30	334		
115.5	378.94	335		
116.0	380.58	336		
116.5	382.22	337		
117.0	383.86	338		
117.5	385.50	339		
118.0	387.14	340		
118.5	388.78	341		
119.0	390.42	342		
119.5	392.06	343		
120.0	393.70	344		

## GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: EXELON VICTORIA 32174A offset  
 CLIENT: MACTEC  
 AUTHOR: C. CARTER

DATE: 11/12/07  
 JOB: 7501  
 PAGE 9 OF 12

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

120.5	395.34	345		
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	354		
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	364		
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	374		
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	384		



## GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: EXELON VICTORIA 32174A g/act DATE: 11/12/07  
 CLIENT: MACTEC JOB: 7501  
 AUTHOR: C. CARTER PAGE 10 OF 12

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

140.5	460.96	385		
141.0	462.60			
141.5	464.24			
142.0	465.88			
142.5	467.52			
143.0	469.16			
143.5	470.80			
144.0	472.44			
144.5	474.08			
145.0	475.72	394		
145.5	477.36			
146.0	479.00			
146.5	480.64			
147.0	482.28			
147.5	483.92			
148.0	485.56			
148.5	487.20			
149.0	488.85			
149.5	490.49			
150.0	492.13			
150.5	493.77	404		
151.0	495.41			
151.5	497.05			
152.0	498.69			
152.5	500.33			
153.0	501.97			
153.5	503.61			
154.0	505.25			
154.5	506.89			
155.0	508.53	414		
155.5	510.17			
156.0	511.81			
156.5	513.45			
157.0	515.09			
157.5	516.73			
158.0	518.37			
158.5	520.01			
159.0	521.65			
159.5	523.29			
160.0	524.93	424		

### GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: EXELON VICTORIA 32174A offset DATE: 11/12/07  
 CLIENT: MACTEC JOB: 7501  
 AUTHOR: C. CARTER PAGE 11 OF 12

DEPTH METERS	DEPTH FEET	UNFILTERED FILE NO.	FILTERED FILE NO.	COMMENTS
--------------	------------	---------------------	-------------------	----------

160.5	526.57	425		
161.0	528.22			
161.5	529.86			
162.0	531.50			
162.5	533.14			
163.0	534.78			
163.5	536.42			
164.0	538.06			
164.5	539.70			
165.0	541.34	434		
165.5	542.98			
166.0	544.62			
166.5	546.26			
167.0	547.90			
167.5	549.54			
168.0	551.18			
168.5	552.82			
169.0	554.46			
169.5	556.10			
170.0	557.74			
170.5	559.38	444		
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	454		
175.5	575.79			
176.0	577.43			
176.5	579.07			
177.0	580.71			
177.5	582.35			
178.0	583.99			Probe may be resting on ledge
178.5	585.63			
179.0	587.27			
179.5	588.91			
180.0	590.55	464		

## GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: EXELON VICTORIA 32174A offset  
 CLIENT: MACTEC  
 AUTHOR: C. CARTER

DATE: 11/12/07  
 JOB: 7501  
 PAGE 12 OF 12

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

180.5	592.19			
181.0	593.83			
181.5	595.47	467		
182.0	597.11	468		
182.5	598.75	469		
183.0	600.39	470		3:34
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			