



B21824 offset CALIPER FIELD LOG

SITE: EXELON VICTORIA COUNTY COL _____ DATE: 4/12/07
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: B21824 offset LOCATION: _____

COUNTY: VICTORIA RANGE: _____ TOWNSHIP: _____ SECTION: _____
BOREHOLE CONSTRUCTION: CASED _____ UNCASD X
DIAMETERS AND DEPTH RANGES: 5" 0 TO 416 ft; _____ TO _____
BOREHOLE TOTAL DEPTH AS DRILLED: 416 ft
CONDUCTOR CASING?: YES X DEPTH TO BOTTOM OF CASING 2'; NO _____
DEPTH TO BEDROCK: N/A DEPTH TO WATER TABLE: N/A
BOREHOLE FLUID: WATER _____; FRESH WATER MUD X; SALT WATER MUD _____
OTHER: _____
DEPTH TO BOREHOLE FLUID: 0 TIME SINCE LAST CIRCULATION: 5:30pm

LOGGING CREW: C. CARTER _____
VEHICLE(S) USED AND MILEAGE: RENTAL _____
MOBILIZED FROM: VICTORIA, TX _____ DEPARTURE TIME: 10:30am
ARRIVED ON SITE: 11:30 am
STANDBY TIME: _____ CAUSE: _____
LOGGING STARTED: 4:00 PM 9:46 pm LOGGING COMPLETED: 10:27 pm

SITE: EXELON VICTORIA COUNTY COL B2182A off test DATE: 11/12/07
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>1.1</u>
DEPTH REF. OFFSET AT START	<u>5.72</u>
DEPTH REF. OFFSET AT END	<u>5.70</u>
AFTER SURVEY DEPTH ERROR	<u>.02</u> LESS THAN 0.4%?

LOG NAME	START DEPTH	START TIME	END DEPTH	END TIME
<u>B2182A off test</u>				
<u>B2182A off cal test 01</u>		<u>9:28 pm</u>		<u>9:29 pm</u>
<u>B2182A off cal test 01</u>	<u>404.9'</u>	<u>9:46 pm</u>	<u>4.45'</u>	<u>10:27 pm</u>
<u>B2182A off cal test 02</u>		<u>10:33 pm</u>		<u>10:35 pm</u>

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.	<u>B2182A off cal test 01</u>	<u>1.983</u>	<u>3.911</u>	<u>8.036</u>	<u>4.505</u>
AS MEAS.	<u>B2182A off cal test 02</u>	<u>1.965</u>	<u>3.952</u>	<u>8.021</u>	<u>4.505</u>
AS MEAS.					
AS MEAS.					
AS MEAS.					
AS MEAS.					

MAINTENANCE PERFORMED ON SITE: _____

EQUIPMENT PROBLEMS OR FAILURES: _____

SUGGESTIONS, ADDITIONS, CHANGES: _____



B21821 offset DEVIATION FIELD LOG

SITE: EXELON VICTORIA COUNTY COL DATE: 11/12/07
CLIENT: MACTEC JOB: 7501
AUTHOR: C. CARTER PAGE 1 OF 2

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

DIRECTIONS TO SITE: _____

GENERAL SITE CONDITIONS/LOCATION: _____

BOREHOLE DESIGNATION: B21821 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: 5:30pm



SITE: EXELON VICTORIA COUNTY COL B2182A offset DATE: 11/12/07
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: 10:30 am
ARRIVED ON SITE: 11:00 am
STANDBY TIME: CAUSE:
LOGGING STARTED: 11:01 pm LOGGING COMPLETED: 11:21 pm

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

1 PROBE TILT TEST	<u>86</u>	BRUNTON TILT	<u>86</u>	
2 PROBE TILT TEST	<u>26.02</u>	BRUNTON TILT	<u>25</u>	
3 PROBE TILT TEST	<u>.2</u>	BRUNTON TILT	<u>0</u>	After log
1 PROBE AZIMUTH TEST	<u>187.9</u>	BRUNTON AZIMUTH	<u>192</u>	
2 PROBE AZIMUTH TEST	<u>123.7</u>	BRUNTON AZIMUTH	<u>121</u>	
3 PROBE AZIMUTH TEST	<u>357.5</u>	BRUNTON AZIMUTH	<u>352</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>3.81</u>
AFTER SURVEY DEPTH ERROR	<u>.19</u> LESS THAN 0.4%?

LOG NAME	START DEPTH	START TIME	END DEPTH	END TIME
<u>B2182A offset 400P 01</u>	<u>405.8'</u>	<u>11:01</u>	<u>3.8'</u>	<u>11:21</u>

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



DATE: 11/13/07 + 11/14/07

JOB: 7501

PAGE 1 OF 1

PHONE: 361-972-0198

BOREHOLE CONSTRUCTION: CASED ~~✖~~ UNCASD ✕

DIAMETERS AND DEPTH RANGES: 4.5" 0 TO 211 ft ; , TO

BOREHOLE TOTAL DEPTH AS DRILLED: 211 ft

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

DEPTH TO BEDROCK: _____

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

LOGGING CREW: C. Carter

[illegible]



322624 fr ELOG FIELD LOG

SITE: EXELON VICTORIA DATE: 11/13/07
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: 4.5" 0 TO 211 ft; TO
BOREHOLE TOTAL DEPTH AS DRILLED: 211 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: 0-5 ft TIME SINCE LAST CIRCULATION: 3:00pm

LOGGING CREW: C. CARTER
VEHICLE(S) USED AND MILEAGE: RENTAL
MOBILIZED FROM: Victoria DEPARTURE TIME: 11:30 am
ARRIVED ON SITE: 12:00pm
STANDBY TIME: CAUSE:
LOGGING STARTED: 3:54pm LOGGING COMPLETED: 4:12pm

SITE: EXELON VICTORIA B2262A DATE: 11/13/07
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>0</u>
DEPTH REF. OFFSET AT START	<u>41.0</u>
DEPTH REF. OFFSET AT END	<u>41.0</u>
AFTER SURVEY DEPTH ERROR	<u>0</u> LESS THAN 0.4%?

LOG NAME	START DEPTH	START TIME	END DEPTH	END TIME
<u>B2262A ELOGUP01</u>		<u>2:46pm</u>		<u>2:48pm</u>
<u>B2262A ELOGUP01</u>	<u>209.9'</u>	<u>3:54pm</u>	<u>39.25'</u>	<u>4:12pm</u>

MAINTENANCE PERFORMED ON SITE: _____

EQUIPMENT PROBLEMS OR FAILURES: _____

SUGGESTIONS, ADDITIONS, CHANGES: _____



B2262 Affair CALIPER FIELD LOG

SITE: EXELON VICTORIA COUNTY COL DATE: 11/13/07
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: B2262 Affair LOCATION: Unit 2

COUNTY: VICTORIA RANGE: TOWNSHIP: SECTION:
BOREHOLE CONSTRUCTION: CASED UNCASED X
DIAMETERS AND DEPTH RANGES: 4.5" 0 TO 211 ft; TO
BOREHOLE TOTAL DEPTH AS DRILLED:
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: 3 pm

LOGGING CREW: C. CARTER
VEHICLE(S) USED AND MILEAGE: RENTAL
MOBILIZED FROM: VICTORIA, TX DEPARTURE TIME: 11:30 am
ARRIVED ON SITE: 12:00 pm
STANDBY TIME: CAUSE:
LOGGING STARTED: 4:47 pm LOGGING COMPLETED: 5:09 pm

SITE: EXELON VICTORIA COUNTY COL B22624 off site DATE: 11/13/07
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>6.86</u>
AFTER SURVEY DEPTH ERROR	<u>.02</u> LESS THAN 0.4%?

LOG NAME	START DEPTH	START TIME	END DEPTH	END TIME
B22624 off cal test 01		4:27pm		4:28pm
B22624 off cal up 01	207.6'	4:47	5.6'	5:09
B22624 off cal test 02		5:20 pm		5:21pm

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.	B22624 off cal test 01	1.949	3.902	8.005	4.496
AS MEAS.	B22624 off cal test 02	1.981	3.925	8.036	4.521
AS MEAS.					
AS MEAS.					
AS MEAS.					
AS MEAS.					

MAINTENANCE PERFORMED ON SITE: _____

EQUIPMENT PROBLEMS OR FAILURES: _____

SUGGESTIONS, ADDITIONS, CHANGES: _____



B2262A offset DEVIATION FIELD LOG

SITE: EXELON VICTORIA COUNTY COL DATE: 11/13/07
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: B2262A offset LOCATION: _____

COUNTY: VICTORIA RANGE: _____ TOWNSHIP: _____ SECTION: _____

BOREHOLE CONSTRUCTION: CASED _____ UNCASD X

DIAMETERS AND DEPTH RANGES: 4.5" 0 TO 211 ft; _____ TO _____

BOREHOLE TOTAL DEPTH AS DRILLED: 211 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: 3 pm



SITE: EXELON VICTORIA COUNTY COL B2262A offset DATE: 11/13/07
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: 11:30am
ARRIVED ON SITE: 12 pm
STANDBY TIME: _____ CAUSE: _____
LOGGING STARTED: 5:54pm LOGGING COMPLETED: 6:04pm

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

1	PROBE TILT TEST	<u>91.33</u>	BRUNTON TILT	<u>1</u>	
2	PROBE TILT TEST	<u>77.79</u>	BRUNTON TILT	<u>12</u>	
3	PROBE TILT TEST	<u>75.3</u>	BRUNTON TILT	<u>15</u>	<i>after log</i>
1	PROBE AZIMUTH TEST	<u>156.4</u>	BRUNTON AZIMUTH	<u>159</u>	
2	PROBE AZIMUTH TEST	<u>269.3</u>	BRUNTON AZIMUTH	<u>269</u>	
3	PROBE AZIMUTH TEST	<u>120.3</u>	BRUNTON AZIMUTH	<u>124</u>	<i>after log</i>

PROBE OFFSET	1.44M(4.72FT)
MINUS CASING STICK-UP	<u>6</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
B2262A offset 400P01	201.2'	5:54pm	3.2'	6:04pm

MAINTENANCE PERFORMED ON SITE: _____

EQUIPMENT PROBLEMS OR FAILURES: _____

SUGGESTIONS, ADDITIONS, CHANGES: _____



P-S SUSPENSION VELOCITY FIELD LOG

SITE: EXELON VICTORIA B-2262A OFFSET DATE: 11/14/07
CLIENT: MACTEC JOB: 7501
AUTHOR: G. CARTER R. STEUER 11/14/07 PAGE 1 OF 6

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-2262A OFFSET LOCATION:

COUNTY: VICTORIA RANGE: TOWNSHIP: SECTION:
BOREHOLE CONSTRUCTION: CASED UNCASED ☒
DIAMETERS AND DEPTH RANGES: 5" 0 TO 210'; TO
BOREHOLE TOTAL DEPTH AS DRILLED: 210'
CONDUCTOR CASING?: YES DEPTH TO BOTTOM OF CASING; NO ☒
DEPTH TO BEDROCK: NA DEPTH TO WATER TABLE: ~45'
BOREHOLE FLUID: WATER; FRESH WATER MUD ☒; SALT WATER MUD;
OTHER:
DEPTH TO BOREHOLE FLUID: Ø TIME SINCE LAST CIRCULATION: ~ 1/2 HR



SITE: EXELON VICTORIA B-2262A OFFSET
CLIENT: MACTEC
AUTHOR: G. GARTER R. STEUER

DATE: 11/14/07

JOB: 7501

PAGE 2 OF 6

11/14/07

LOGGING CREW: G. GARTER R. STEUER

VEHICLE(S) USED AND MILEAGE: RENTAL

MOBILIZED FROM: Victoria, TX

DEPARTURE TIME: 11:30

ARRIVED ON SITE: 12:00

STANDBY TIME:

CAUSE:

LOGGING STARTED: 16:17

LOGGING COMPLETED: 17:19

STANDBY TIME:

CAUSE:

LOGGING STARTED:

LOGGING COMPLETED:

DEMOLIBIZED 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
START ZERO = 2.5m - 2m (0.7 FT) = 2.3m
END ZERO = 2.3m

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: EXELON VICTORIA *2262-18/07* DATE: ~~11/13/07~~ *11/14/07* *RAS*
CLIENT: MACTEC JOB: 7501
AUTHOR: C. CARTER *R. STEWART* *11/14/07* PAGE *3* OF *6*

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			
2.5	8.20	201 <i>12</i> 217		6:41 <i>7:09</i> <i>12:19</i>
3.0	9.84	2 <i>213</i>		
3.5	11.48	3 <i>212</i>		
4.0	13.12	4 <i>211</i>		
4.5	14.76	5 <i>210</i>		
5.0	16.40	06 <i>209</i>		
5.5	18.04	<i>208</i>		
6.0	19.69	<i>207</i>		
6.5	21.33	<i>206</i>		
7.0	22.97	<i>205</i>		
7.5	24.61	<i>204</i>		
8.0	26.25	<i>203</i>		
8.5	27.89	<i>202</i>		
9.0	29.53	<i>201</i>		
9.5	31.17	<i>200</i>		
10.0	32.81	<i>199</i>		
10.5	34.45	<i>198</i>		
11.0	36.09	<i>197</i>		
11.5	37.73	<i>196</i>		
12.0	39.37	<i>195</i>		
12.5	41.01	<i>194</i>		
13.0	42.65	<i>193</i>		
13.5	44.29	<i>192</i>		
14.0	45.93	<i>191</i>		
14.5	47.57	<i>190</i>		
15.0	49.21	<i>189</i>		
15.5	50.85	<i>188</i>		
16.0	52.49	<i>187</i>		
16.5	54.13	<i>186</i>		
17.0	55.77	<i>185</i>		
17.5	57.41	<i>184</i>		
18.0	59.06	<i>183</i>		
18.5	60.70	<i>182</i>		
19.0	62.34	<i>181</i>		
19.5	63.98	<i>180</i>		
20.0	65.62	<i>179</i>		

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: EXELON VICTORIA B-2262A OFFSET

DATE: 11/14/07

CLIENT: MACTEC

JOB: 7501

AUTHOR: G. CARTER R. STELLER 11/14/07

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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	178		
21.0	68.90	177		
21.5	70.54	176		
22.0	72.18	175		
22.5	73.82	174		
23.0	75.46	173		
23.5	77.10	172		
24.0	78.74	171		
24.5	80.38	170		
25.0	82.02	169		
25.5	83.66	168		
26.0	85.30	167		
26.5	86.94	166		
27.0	88.58	165		
27.5	90.22	164		
28.0	91.86	163		
28.5	93.50	162		
29.0	95.14	161		
29.5	96.78	160		
30.0	98.43	159		
30.5	100.07	158		
31.0	101.71	157		
31.5	103.35	156		
32.0	104.99	155		
32.5	106.63	154		
33.0	108.27	153		
33.5	109.91	152		
34.0	111.55	151		silence 1 ↑
34.5	113.19	150		
35.0	114.83	149		
35.5	116.47	148		
36.0	118.11	147		
36.5	119.75	146		
37.0	121.39	145		
37.5	123.03	144		
38.0	124.67	143		
38.5	126.31	142		
39.0	127.95	141		
39.5	129.59	140		
40.0	131.23	139		

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: EXELON VICTORIA B-2262A OFFSET DATE: 11/14/07
CLIENT: MACTEC JOB: 7501
AUTHOR: G. CARTER R. STELLER 11/14/07 PAGE 5 OF 6

DEPTH METERS	DEPTH FEET	UNFILTERED FILE NO.	FILTERED FILE NO.	COMMENTS CASING, WATER, ROCK, ETC
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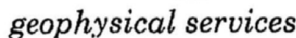
40.5	132.87	130		
41.0	134.51	131		
41.5	136.15	130		
42.0	137.80	135		
42.5	139.44	134		
43.0	141.08	133		
43.5	142.72	132		
44.0	144.36	131		
44.5	146.00	130		
45.0	147.64	129		
45.5	149.28	128		
46.0	150.92	127		
46.5	152.56	126		
47.0	154.20	125		
47.5	155.84	124		
48.0	157.48	123		
48.5	159.12	122		
49.0	160.76	121		
49.5	162.40	120		
50.0	164.04	119		
50.5	165.68	118		
51.0	167.32	117		
51.5	168.96	116		
52.0	170.60	115		
52.5	172.24	114		
53.0	173.88	113		
53.5	175.52	112		
54.0	177.17	111		
54.5	178.81	110		
55.0	180.45	109		
55.5	182.09	108		
56.0	183.73	107		
56.5	185.37	106		
57.0	187.01	105		
57.5	188.65	104		
58.0	190.29	103		
58.5	191.93	102		
59.0	193.57	101		16:17
59.5	195.21			
60.0	196.85			

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: EXELON VICTORIA B-2202A OFFSET DATE: 11/14/07
CLIENT: MACTEC JOB: 7501
AUTHOR: G. CARTER R. STELLER 11/14/07 PAGE 6 OF 6

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

60.5	198.49			
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			TD @ 210'
64.5	211.61			
65.0	213.25			
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			
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			
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			



B-2274 BORING GEOPHYSICS FIELD LOG SUMMARY

DATE: 11/7/07
JOB: 7501
PAGE 1 OF 1

PHONE: 361-972-0198

BOREHOLE CONSTRUCTION: CASED _____ UNCASD X
DIAMETERS AND DEPTH RANGES: 7 1/8" 0 TO 20 ft; 5", 20 ft TO 620 ft
BOREHOLE TOTAL DEPTH AS DRILLED: _____
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

2117607



2274 off ELOG FIELD LOG

SITE: EXELON VICTORIA DATE: 11/26/07
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: 2274 off LOCATION: Power Block Unit 2

COUNTY: VICTORIA RANGE: _____ TOWNSHIP: _____ SECTION: _____
BOREHOLE CONSTRUCTION: CASED _____ UNCASD X
DIAMETERS AND DEPTH RANGES: 7 1/8" 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: 0 TIME SINCE LAST CIRCULATION: 12:00pm

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 - 12:00 pm CAUSE: Drillers cleaning hole
LOGGING STARTED: 1:00 pm LOGGING COMPLETED: 7:57 pm

SITE: EXELON VICTORIA B2274 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
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 ft</u>
DEPTH REF. OFFSET AT END	<u>40.7 ft</u>
AFTER SURVEY DEPTH ERROR	<u>.3 ft</u> LESS THAN 0.4%?

cc 11/7/07

LOG NAME	START DEPTH	START TIME	END DEPTH	END TIME
B2274 off log tested		11:16 am		
B2274 off log up	17.85 ft	1:00 pm	39.1 ft	1:57
B2274 ELOG TEST 101		7:46 am		7:47 am

MAINTENANCE PERFORMED ON SITE: _____

EQUIPMENT PROBLEMS OR FAILURES: _____

SUGGESTIONS, ADDITIONS, CHANGES: _____



P-S SUSPENSION VELOCITY FIELD LOG

SITE: EXELON VICTORIA B2274/6 DATE: 11/7/07
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: B2274/6 LOCATION: Power Block Unit 2

COUNTY: VICTORIA RANGE: _____ TOWNSHIP: _____ SECTION: _____
BOREHOLE CONSTRUCTION: CASED _____ UNCASD 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: 0 TIME SINCE LAST CIRCULATION: 12 pm



SITE: EXELON VICTORIA 82274 off DATE: 11/7/07
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: 6:40 am
ARRIVED ON SITE: 7:00 am
STANDBY TIME: 7:30 - 12 CAUSE: Drillers cleaning hole
LOGGING STARTED: 2:53 pm LOGGING COMPLETED: 7:10 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 ☒
02 01

MAINTENANCE PERFORMED ON SITE:

EQUIPMENT PROBLEMS OR FAILURES: Logged from 2.5m - 30.0m then pulled
probe out of hole to change receivers. Used Receiver 20042 from 2.5m to
183.0m

SUGGESTIONS, ADDITIONS, CHANGES:

COMMENTS: RP = ground surface = 2.48m
2.47m @ 7:50

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: EXELON VICTORIA B2274
CLIENT: MACTEC
AUTHOR: C. CARTER

DATE: 11/7/07
JOB: 7501
PAGE: 3 OF 12

DEPTH METERS	DEPTH FEET	UNFILTERED FILE NO.	FILTERED FILE NO.	COMMENTS CASING, WATER, ROCK, ETC
		01	02	
0.5	1.64			
1.0	3.28			
1.5	4.92			
2.0	6.56			01 02
2.5	8.20	001	1	2:53 pm 4:10 pm
3.0	9.84	2	2	
3.5	11.48	3	3	
4.0	13.12	4	4	
4.5	14.76	5	5	
5.0	16.40	6	6	
5.5	18.04	7	7	
6.0	19.69	8	8	
6.5	21.33	9	9	
7.0	22.97	10	10	
7.5	24.61	11	11	
8.0	26.25	12	12	
8.5	27.89	13	13	
9.0	29.53	14	14	
9.5	31.17	15	15	
10.0	32.81	16	16	
10.5	34.45	17	17	
11.0	36.09	18	18	
11.5	37.73	19	19	
12.0	39.37	20	20	
12.5	41.01	21	21	
13.0	42.65	22	22	
13.5	44.29	23	23	
14.0	45.93	24	24	
14.5	47.57	25	25	
15.0	49.21	26	26	
15.5	50.85	27	27	
16.0	52.49	28	28	
16.5	54.13	29	29	
17.0	55.77	30	30	
17.5	57.41	31	31	
18.0	59.06	32	32	
18.5	60.70	33	33	
19.0	62.34	34	34	
19.5	63.98	35	35	
20.0	65.62	36	36	

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: EXELON VICTORIA 8227486

DATE: 11/7/07

CLIENT: MACTEC

JOB: 7501

AUTHOR: C. CARTER

PAGE 4 OF 12

DEPTH METERS	DEPTH FEET	UNFILTERED FILE NO.	FILTERED FILE NO.	COMMENTS CASING, WATER, ROCK, ETC
		01	02	
20.5	67.26	37	37	
21.0	68.90	38	38	
21.5	70.54	39	39	
22.0	72.18	40	40	
22.5	73.82	41	41	
23.0	75.46	42	42	
23.5	77.10	43	43	
24.0	78.74	44	44	
24.5	80.38	45	45	
25.0	82.02	46	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	56-02	Pulled out probe changed rec.
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 B2274
CLIENT: MACTEC
AUTHOR: C. CARTER

DATE: 11/7/07
JOB: 7501
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	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 B227486 DATE: 11/7/07
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	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 B2274
CLIENT: MACTEC
AUTHOR: C. CARTER

DATE: 11/7/07
JOB: 7501
PAGE: 7 OF 12

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

80.5	264.11	SP 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			
90.0	295.28	175		
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	185		
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	195		

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: EXELON VICTORIA B2274 ~~46~~

DATE: 11/7/07

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
-----------------	---------------	------------------------	----------------------	--------------------------------------

100.5	329.72	196		
101.0	331.36	197		
101.5	333.01	198		
102.0	334.65	199		
102.5	336.29	200		
103.0	337.93	201		
103.5	339.57	202		
104.0	341.21	203		
104.5	342.85	204		
105.0	344.49	205		
105.5	346.13			
106.0	347.77			
106.5	349.41			
107.0	351.05			
107.5	352.69			
108.0	354.33			
108.5	355.97			
109.0	357.61			
109.5	359.25			
110.0	360.89	215		
110.5	362.53			
111.0	364.17			
111.5	365.81			
112.0	367.45			
112.5	369.09			
113.0	370.73			
113.5	372.38			
114.0	374.02			
114.5	375.66			
115.0	377.30	225		
115.5	378.94			
116.0	380.58			
116.5	382.22			
117.0	383.86			
117.5	385.50			
118.0	387.14			
118.5	388.78			
119.0	390.42			
119.5	392.06			
120.0	393.70	235		

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: EXELON VICTORIA 82274

DATE: 11/7/07

CLIENT: MACTEC

JOB: 7501

AUTHOR: C. CARTER

PAGE 9 OF 12

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

120.5	395.34	236		
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	V		
124.5	408.46			
125.0	410.10	245		
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	V		
129.0	423.23			
129.5	424.87			
130.0	426.51	255		
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	V		
134.0	439.63			
134.5	441.27			
135.0	442.91	265		
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	V		
139.0	456.04			
139.5	457.68			
140.0	459.32	275		

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: EXELON VICTORIA 322748/10

DATE: 11/16/07

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	276		
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	285		
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	295		
150.5	493.77			
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	305		
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	315		

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: EXELON VICTORIA 8227486 DATE: 11/1/07
CLIENT: MACTEC JOB: 7501
AUTHOR: C. CARTER PAGE 11 OF 12

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

160.5	526.57	316		
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	325		
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	335		
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	345		
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	355		