GEOVision Borehole Geophysics depth wheel verification

Performed by Robert Steller on September 23, 2006

	Depth reading in #1	Depth reading out	Depth reading in #2
Depth wheel S/N 101 500 pulse/revolution Circumference = 983mm (3225.07 millifeet)	100.1 feet (30.51 m)	99.95 feet (30.46 m)	100.05 feet (30.50 m)
Depth wheel S/N 102 500 pulse/revolution Circumference = 994mm (3261.15 millifeet)	100.00 feet (30.48) m	100.05 feet (30.50 m)	100.00 feet (30.48) m
Aries winch 200 pulse/revolution Circumference = 305.9mm (1003.51 millifeet)	100.05 feet (30.50) m	100.05 feet (30.50 m)	100.00 feet (30.48) m
Depth wheel S/N 103 500 pulse/revolution Circumference = 1000mm (3.281 feet)			
Comprobe winch 500 pulse/revolution Circumference = 1000mm (3.281 feet)			

All measurements taken with a Stanley 100ft flexible stainless steel tape model number 34-130, and a Keeson 300 foot fiberglass tape, both marked in feet, inches and 1/8ths of inches. Enough cable was spooled off of the winch to allow the cable and tape measures to be laid flat on the parking lot surface side-by-side. A permanent marker was used to mark a 100.0 foot interval on the cable, and the marks were also tagged with electrical tape for visibility. The cable was then spooled back onto the winch. When the first mark was at the top of the measuring wheel, a matching permanent mark was placed, and the recording system (Robertson Micrologger) was set to 0.0 feet depth. The cable was spooled in to the second mark, and the distance was recorded. The recording system was set to 0.0 feet again, and the cable spooled out to the first mark again, and the distance was recorded. The process was repeated one more time to spool the cable back onto the winch, and the distance was recorded.

Estimated accuracy is of these measurements is +/- 0.1 foot or +/- 0.03m.

GEOVision Suspension PS probe Receiver 1–Receiver 2 (R1-R2) spacing verification

Performed by Robert Steller on September 23, 2006

	R2 center to R1 center hanging dry	R2 center to R1 center hanging submerged	R1 bottom to source center hanging submerged with 1m isolation tube S/N 280068
Receiver S/N 30086	40.2in 1.02m	40.0in 1.02m	76.0in 1.93m
Receiver S/N 20042	39.8in 1.01m	39.6in 1.01m	75.7in 1.92m
Receiver S/N 12008	40.2in 1.02m	40.0in 1.02m	76.0in 1.93m

All measurements taken with a Lufkin 3.7m flexible steel tape model number HV1034DM, marked in mm and 100th of feet. Probe suspended in 3-inch diameter clear PVC pipe, using chain clamp placed between bottom and center of Receiver 2 hard section (See Figure). Probe "bounced" to establish unrestricted hanging length before measurement. Probe allowed to relax for 5 minutes prior to each measurement. Water level set to submerge bottom of Receiver 2 hard section.. Estimated accuracy due to hysterisis in rubber section approximately +/- 0.01' or +/- 0.003m.

APPENDIX D

BORING GEOPHYSICAL LOGGING FIELD DATA LOGS

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B-301 BORING GEOPHYSICS FIELD LOG SUMMARY

SITE: CCNPP COLA DATE: 6/5/2006
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 1 OF 2

CONTACT: RUBEN TARUSELLI PHONE: 703-906-1797

BOREHOLE CONSTRUCTION: CASED ____ UNCASED ✓
DIAMETERS AND DEPTH RANGES: 6" 0 TO 20'; 4 3/4", 20' TO 403'
BOREHOLE TOTAL DEPTH AS DRILLED: 403'
CONDUCTOR CASING?: YES ____ DEPTH TO BOTTOM OF CASING ____; NO ✓
DEPTH TO BEDROCK: NA
BOREHOLE FLUID: WATER ____; FRESH WATER MUD ✓; SALT WATER MUD ____;

LOGGING CREW: R. STELLER

LOG TYPE	FILE NAME	DEPTH RANGE	DATE	TIMES
Pg P-S VELO	001 - 238	0.6' - 390.4'	6/5/06	10:10 - 12:30
DEVIATION	B301AUDOWN01	Ø - 402.5'	6/5/06	13:05 - 13:50
ELOG/GAMMA	B301ELOGUP01	402.0' - 1.7'	6/5/06	14:20 - 15:02
ELOG/GAMMA	B301ELOGUP02	402.0' - 1.7'	6/5/06	15:14 - 15:45
CAL TEST	B301TESTCAL01	-0-	6/5/06	16:05 - 16:10
CALIPER	B301CALUP01	402.0 - (-1.0)	6/5/06	16:25 - 16:55
CAL TEST	B301TESTCAL02	-0-	6/5/06	17:00 - 17:05

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P-S SUSPENSION VELOCITY FIELD LOG

SITE: CALVERT CLIFFS COLA B-401 301 DATE: 6/5/06
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 1 OF 2

CONTACT: _____ OFFICE PHONE: _____
CELL PHONE: _____
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-401 301 LOCATION: _____

COUNTY: _____ RANGE: _____ TOWNSHIP: _____ SECTION: _____
BOREHOLE CONSTRUCTION: CASED ____ UNCASED ✓
DIAMETERS AND DEPTH RANGES: 6" 0 TO 40'20"; 4 1/4" 30 TO 402'403'
BOREHOLE TOTAL DEPTH AS DRILLED: 402' 403'
CONDUCTOR CASING?: YES ____ DEPTH TO BOTTOM OF CASING ____; NO ✓
DEPTH TO BEDROCK: NA DEPTH TO WATER TABLE: @ 30'
BOREHOLE FLUID: WATER ____; FRESH WATER MUD ✓; SALT WATER MUD ____;
OTHER: _____
DEPTH TO BOREHOLE FLUID: 0 TIME SINCE LAST CIRCULATION: 1/2 HR

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geophysical services

SITE: CALVERT CLIFFS COLA B-4 301 DATE: 6/5/06
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 2 OF 8

LOGGING CREW: R. STELLER
VEHICLE(S) USED AND MILEAGE: RENTAL
MOBILIZED FROM: LEXINGTON PARK DEPARTURE TIME: 7:30
ARRIVED ON SITE: 8:00
STANDBY TIME: CAUSE:
LOGGING STARTED: 10:10 LOGGING COMPLETED: 12:30
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 ☐	

MAINTENANCE PERFORMED ON SITE:

EQUIPMENT PROBLEMS OR FAILURES:

SUGGESTIONS, ADDITIONS, CHANGES:

COMMENTS:

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: CALVERT CLIFFS COLA B-402301 DATE: 6/5/06
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 3 OF 8

DEPTH METERS	DEPTH FEET	UNFILTERED FILE NO.	FILTERED FILE NO.	COMMENTS CASING, WATER, ROCK, ETC
0.5	1.64	1		
1.0	3.28	2		
1.5	4.92	3		
2.0	6.56	4		
2.5	8.20	5		
3.0	9.84	6		
3.5	11.48	7		
4.0	13.12	8		
4.5	14.76	9		
5.0	16.40	10		
5.5	18.04	11		
6.0	19.69	12		
6.5	21.33	13		
7.0	22.97	14		
7.5	24.61	15		
8.0	26.25	16		
8.5	27.89	17		
9.0	29.53	18		
9.5	31.17	19		
10.0	32.81	20		
10.5	34.45	21		
11.0	36.09	22		
11.5	37.73	23		
12.0	39.37	24		
12.5	41.01	25		
13.0	42.65	26		
13.5	44.29	27		
14.0	45.93	28		
14.5	47.57	29		
15.0	49.21	30		
15.5	50.85	31		
16.0	52.49	32		
16.5	54.13	33		
17.0	55.77	34		
17.5	57.41	35		
18.0	59.06	36		
18.5	60.70	37		
19.0	62.34	38		
19.5	63.98	39		
20.0	65.62	40		

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: CALVERT CLIFFS COLA B-401 201 DATE: 6/5/06
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 4 OF 8

DEPTH METERS	DEPTH FEET	UNFILTERED FILE NO.	FILTERED FILE NO.	COMMENTS CASING, WATER, ROCK, ETC
20.5	67.26	41		
21.0	68.90	42		
21.5	70.54	43		
22.0	72.18	44		
22.5	73.82	45		
23.0	75.46	46		
23.5	77.10	47		
24.0	78.74	48		
24.5	80.38	49		
25.0	82.02	50		
25.5	83.66	51		
26.0	85.30	52		
26.5	86.94	53		
27.0	88.58	54		
27.5	90.22	55		
28.0	91.86	56		
28.5	93.50	57		
29.0	95.14	58		
29.5	96.78	59		
30.0	98.43	60		
30.5	100.07	61		
31.0	101.71	62		
31.5	103.35	63		
32.0	104.99	64		
32.5	106.63	65		
33.0	108.27	66		
33.5	109.91	67		
34.0	111.55	68		
34.5	113.19	69		
35.0	114.83	70		
35.5	116.47	71		
36.0	118.11	72		
36.5	119.75	73		
37.0	121.39	74		
37.5	123.03	75		
38.0	124.67	76		
38.5	126.31	77		
39.0	127.95	78		
39.5	129.59	79		
40.0	131.23	80		

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: CALVERT CLIFFS COLA B-4a+ 301 DATE: 6/5/06
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 5 OF 8

DEPTH METERS	DEPTH FEET	UNFILTERED FILE NO.	FILTERED FILE NO.	COMMENTS CASING, WATER, ROCK, ETC
40.5	132.87	81		
41.0	134.51	82		
41.5	136.15	83		
42.0	137.80	84		
42.5	139.44	85		
43.0	141.08	86		
43.5	142.72	87		
44.0	144.36	88		
44.5	146.00	89		
45.0	147.64	90		
45.5	149.28	91		
46.0	150.92	92		
46.5	152.56	93		
47.0	154.20	94		
47.5	155.84	95		
48.0	157.48	96		
48.5	159.12	97		
49.0	160.76	98		
49.5	162.40	99		
50.0	164.04	100		
50.5	165.68	101		
51.0	167.32	102		
51.5	168.96	103		
52.0	170.60	104		
52.5	172.24	105		
53.0	173.88	106		
53.5	175.52	107		
54.0	177.17	108		
54.5	178.81	109		
55.0	180.45	110		
55.5	182.09	111		
56.0	183.73	112		
56.5	185.37	113		
57.0	187.01	114		—
57.5	188.65	115		
58.0	190.29	116		
58.5	191.93	117		
59.0	193.57	118		
59.5	195.21	119		
60.0	196.85	120		

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: CALVERT CLIFFS COLA B-4or 301 DATE: 6/5/06
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 6e OF 8

DEPTH METERS	DEPTH FEET	UNFILTERED FILE NO.	FILTERED FILE NO.	COMMENTS CASING, WATER, ROCK, ETC
60.5	198.49	121		
61.0	200.13	122		
61.5	201.77	123		
62.0	203.41	124		
62.5	205.05	125		
63.0	206.69	126		
63.5	208.33	127		
64.0	209.97	128		
64.5	211.61	129		
65.0	213.25	130		
65.5	214.90	131		
66.0	216.54	132		
66.5	218.18	133		
67.0	219.82	134		
67.5	221.46	135		
68.0	223.10	136		
68.5	224.74	137		
69.0	226.38	138		
69.5	228.02	139		
70.0	229.66	140		
70.5	231.30	141		
71.0	232.94	142		
71.5	234.58	143		
72.0	236.22	144		
72.5	237.86	145		
73.0	239.50	146		
73.5	241.14	147		
74.0	242.78	148		
74.5	244.42	149		
75.0	246.06	150		
75.5	247.70	151		
76.0	249.34	152		
76.5	250.98	153		
77.0	252.62	154		
77.5	254.27	155		
78.0	255.91	156		
78.5	257.55	157		
79.0	259.19	158		
79.5	260.83	159		
80.0	262.47	160		

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: CALVERT CLIFFS COLA G-461-301 DATE: 10/5/06
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 7 OF 8

DEPTH METERS	DEPTH FEET	UNFILTERED FILE NO.	FILTERED FILE NO.	COMMENTS CASING, WATER, ROCK, ETC
80.5	264.11	161		
81.0	265.75	162		
81.5	267.39	163		
82.0	269.03	164		
82.5	270.67	165		
83.0	272.31	166		
83.5	273.95	167		
84.0	275.59	168		
84.5	277.23	169		
85.0	278.87	170		
85.5	280.51	171		
86.0	282.15	172		
86.5	283.79	173		
87.0	285.43	174		
87.5	287.07	175		
88.0	288.71	176		
88.5	290.35	177		
89.0	291.99	178		
89.5	293.64	179		
90.0	295.28	180		CHANGE J
90.5	296.92	181		
91.0	298.56	182		
91.5	300.20	183		
92.0	301.84	184		
92.5	303.48	185		
93.0	305.12	186		
93.5	306.76	187		
94.0	308.40	188		
94.5	310.04	189		
95.0	311.68	190		
95.5	313.32	191		
96.0	314.96	192		
96.5	316.60	193		
97.0	318.24	194		
97.5	319.88	195		
98.0	321.52	196		
98.5	323.16	197		
99.0	324.80	198		
99.5	326.44	199		
100.0	328.08	200		

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: CALVERT CLIFFS COLA G-4or 301 DATE: 6/5/06
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 8 OF 8

DEPTH METERS	DEPTH FEET	UNFILTERED FILE NO.	FILTERED FILE NO.	COMMENTS CASING, WATER, ROCK, ETC
100.5	329.72	201		
101.0	331.36	202		
101.5	333.01	203		
102.0	334.65	204		
102.5	336.29	205		
103.0	337.93	206		
103.5	339.57	207		
104.0	341.21	208		
104.5	342.85	209		
105.0	344.49	210		
105.5	346.13	211		
106.0	347.77	212		
106.5	349.41	213		
107.0	351.05	214		
107.5	352.69	215		
108.0	354.33	216		
108.5	355.97	217		
109.0	357.61	218		
109.5	359.25	219		
110.0	360.89	220		
110.5	362.53	221		
111.0	364.17	222		
111.5	365.81	223		
112.0	367.45	224		
112.5	369.09	225		
113.0	370.73	226		
113.5	372.38	227		
114.0	374.02	228		
114.5	375.66	229		
115.0	377.30	230		
115.5	378.94	231		
116.0	380.58	232		
116.5	382.22	233		
117.0	383.86	234		
117.5	385.50	235		
118.0	387.14	236		Bottom measurement:
118.5	388.78	237		Hit bottom @ 119.2m = TD @ 403.2'
119.0	390.42	238		
119.5	392.06			
120.0	393.70			

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B-301 ACOUSTIC TELEVIEWER FIELD LOG

SITE: CCNPP COLA DATE: 6/5/2006
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 1 OF 2

CONTACT: RUBEN TARUSELLI OFFICE PHONE:
CELL PHONE: 703-906-1797
CONTACT: OFFICE PHONE:
PHONE:
CONTACT: PHONE:
PHONE:
CONTACT: PHONE:
PHONE:
DRILLER: PHONE:
COMPANY: PHONE:

DIRECTIONS TO SITE:

GENERAL SITE CONDITIONS/LOCATION:

BOREHOLE DESIGNATION: B-301 LOCATION:

COUNTY: RANGE: TOWNSHIP: SECTION:
BOREHOLE CONSTRUCTION: CASED UNCASED ✓
DIAMETERS AND DEPTH RANGES: 6" 0 TO 20'; 4 3/4" 20' TO 405'
BOREHOLE TOTAL DEPTH AS DRILLED: 403'
CONDUCTOR CASING?: YES DEPTH TO BOTTOM OF CASING ; NO ✓
DEPTH TO BEDROCK: NA DEPTH TO WATER TABLE: ≈30'
BOREHOLE FLUID: WATER ; FRESH WATER MUD ✓ ; SALT WATER MUD ;
OTHER:
DEPTH TO BOREHOLE FLUID: Ø TIME SINCE LAST CIRCULATION: ≈4 HR.

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SITE: CCNPP COLA B-301 DATE: 6/5/2006
CLIENT: SCHNABEL JOB: 8165
AUTHOR: R. STELLER PAGE 2 OF 2

LOGGING CREW: R. STELLER
VEHICLE(S) USED AND MILEAGE: RENTAL
MOBILIZED FROM: LEXINGTON PARK DEPARTURE TIME: 7:30
ARRIVED ON SITE: 8:00
STANDBY TIME: CAUSE:
LOGGING STARTED: 13:05 LOGGING COMPLETED: 13:50

WINCH: COMPROBE ___ SILVER ✓ OYO ___ OTHER ___
MICROLOGGER 5301 ✓ OTHER ___
TELEVIEWER OPTICAL #5117 ___ ACOUSTIC #5174 ✓ OTHER ___

PROBE TILT TEST 88.2 BRUNTON TILT 88°
PROBE AZIMUTH TEST 336.7 BRUNTON AZIMUTH 337° PROBE HANGING 0.3°

PROBE OFFSET	OPTICAL 1.88M(6.17FT)	ACOUSTIC 1.44M(4.72FT)
CASING STICK-UP	-	- 1.50 FT
DEPTH REF. OFFSET		3.22 FT

LOG NAME	START DEPTH	START TIME	END DEPTH	END TIME
9301 AU DOWN 01	Ø	13:05	402.5'	13:50

MAINTENANCE PERFORMED ON SITE:

EQUIPMENT PROBLEMS OR FAILURES:

SUGGESTIONS, ADDITIONS, CHANGES:

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B-301 ELOG FIELD LOG

SITE: CCNPP COLA
DATE: 6/5/2006
CLIENT: SCHNABEL
JOB: 6165
AUTHOR: R. STELLER
PAGE 1 OF 2

CONTACT: RUBEN TARUSELLI
OFFICE PHONE:
CELL PHONE: 703-906-1797
CONTACT:
OFFICE PHONE:
PHONE:
CONTACT:
PHONE:
PHONE:
CONTACT:
PHONE:
PHONE:
DRILLER:
PHONE:
COMPANY:
PHONE:

GENERAL SITE CONDITIONS/LOCATION:

BOREHOLE DESIGNATION: B-301
LOCATION:

COUNTY:
RANGE:
TOWNSHIP:
SECTION:
BOREHOLE CONSTRUCTION: CASED ___ UNCASED ✓
DIAMETERS AND DEPTH RANGES: 6" 0 TO 20'; 4 3/4" 20' TO 403'
BOREHOLE TOTAL DEPTH AS DRILLED:
CONDUCTOR CASING?: YES ___ DEPTH TO BOTTOM OF CASING ___; NO ✓
DEPTH TO BEDROCK: NA
DEPTH TO WATER TABLE: 230'
BOREHOLE FLUID: WATER ___; FRESH WATER MUD ✓; SALT WATER MUD ___;
OTHER:
DEPTH TO BOREHOLE FLUID: Ø
TIME SINCE LAST CIRCULATION: ≈6 HR

LOGGING CREW: R. STELLER
VEHICLE(S) USED AND MILEAGE: RENTAL
MOBILIZED FROM: LEXINGTON PARK
DEPARTURE TIME: 7:30
ARRIVED ON SITE: 8:00
STANDBY TIME:
CAUSE:
LOGGING STARTED: 14:20
LOGGING COMPLETED: 15:45

SITE: CCNPP COLA 13-301 DATE: 6/ 9/2006
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 2 OF 2

WINCH: COMPROBE ___ SILVER ✓ OYO ___ OTHER ___
MICROLOGGER 5301 ✓ OTHER ___
ELOG PROBE 5490 ✓ OTHER ___

PROBE OFFSET	2.50M(8.20 FT)	
CASING STICK-UP	-1.50	
DEPTH REF. OFFSET	6.70FT.	

LOG NAME	START DEPTH	START TIME	END DEPTH	END TIME
B301ELOG UP 01	14:20	402'	1.7'	~~1.7'~~ 15:02
B301ELOG UP 02	15:14	402'	1.7'	15:45

MAINTENANCE PERFORMED ON SITE: ___

EQUIPMENT PROBLEMS OR FAILURES: ___

SUGGESTIONS, ADDITIONS, CHANGES: ___

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B-301 CALIPER FIELD LOG

SITE: CCNPP COLA DATE: 6/5/2006
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 1 OF 2

CONTACT: RUBEN TARUSELLI OFFICE PHONE:
CELL PHONE: 703-906-1797
CONTACT: OFFICE PHONE:
PHONE:
CONTACT: PHONE:
PHONE:
CONTACT: PHONE:
PHONE:
DRILLER: PHONE:
COMPANY: PHONE:

GENERAL SITE CONDITIONS/LOCATION:

BOREHOLE DESIGNATION: B-301 LOCATION:

COUNTY: RANGE: TOWNSHIP: SECTION:
BOREHOLE CONSTRUCTION: CASED UNCASED ✓
DIAMETERS AND DEPTH RANGES: 6 ~~4 1/4~~ 0 TO ~~403'~~ 20'; 4 3/4" ~~30~~ 20' TO 403'
BOREHOLE TOTAL DEPTH AS DRILLED: 403'
CONDUCTOR CASING?: YES DEPTH TO BOTTOM OF CASING ; NO ✓
DEPTH TO BEDROCK: NA DEPTH TO WATER TABLE: ≈30'
BOREHOLE FLUID: WATER ; FRESH WATER MUD ✓ ; SALT WATER MUD ;
OTHER:
DEPTH TO BOREHOLE FLUID: Ø TIME SINCE LAST CIRCULATION: 6 HR.

LOGGING CREW: R. STELLER
VEHICLE(S) USED AND MILEAGE: RENTAL
MOBILIZED FROM: LEXINGTON PARK DEPARTURE TIME: 7:30
ARRIVED ON SITE: 8:00
STANDBY TIME: CAUSE:
LOGGING STARTED: 16:20 LOGGING COMPLETED: 17:05

SITE:_CCNPP COLA B-301 DATE: 6/ 5 /2006
CLIENT:_SCHNABEL JOB:_6165
AUTHOR:_R. STELLER PAGE 2 OF 2

WINCH: COMPROBE____ SILVER ✓ OYO____ OTHER____
MICROLOGGER 5301 ✓ OTHER____
CALIPER PROBE 5368 ✓ OTHER____

PROBE OFFSET	12 IN MAX 2.08M(6.82 FT)	24 IN MAX
CASING STICK-UP	ARMS - 1.5	ARMS -
DEPTH REF. OFFSET	5.32'	

LOG NAME	START DEPTH	START TIME	END DEPTH	END TIME
B301 TEST CAL 01	Ø	16:05	Ø	16:10
B301 CAL 4"01	402'	16:25	~1.0	16:55
B301 TEST CAL 02	Ø	17:00	Ø	17:05

CALIBRATION PLATE S/N 201

		AS BUILT		
		1.968 IN	3.937 IN	8.000 IN
	FILE NAME	(50 MM)	(100 MM)	203.2 MM
AS MEAS.	B301 TEST CAL 01	1.97	3.91	8.02
AS MEAS.	B301 TEST CAL 02	1.98	3.94	8.03
AS MEAS.				
AS MEAS.				
AS MEAS.				
AS MEAS.				

MAINTENANCE PERFORMED ON SITE:____

EQUIPMENT PROBLEMS OR FAILURES:____

SUGGESTIONS, ADDITIONS, CHANGES:____

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B-304 BORING GEOPHYSICS FIELD LOG SUMMARY

SITE: CCNPP COLA DATE: 6/1-2/2006
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 1 OF 2

CONTACT: RUBEN TARUSELLI PHONE: 703-906-1797

BOREHOLE CONSTRUCTION: CASED ____ UNCASED ✓
DIAMETERS AND DEPTH RANGES: 4 1/4 0 TO 200' ; ____ , ____ TO ____
BOREHOLE TOTAL DEPTH AS DRILLED: 200'
CONDUCTOR CASING?: YES ____ DEPTH TO BOTTOM OF CASING ____ ; NO ✓
DEPTH TO BEDROCK: NA
BOREHOLE FLUID: WATER ____ ; FRESH WATER MUD ✓ ; SALT WATER MUD ____ ;

LOGGING CREW: R. STELLER

LOG TYPE	FILE NAME	DEPTH RANGE	DATE	TIMES
Oyo PS	001 – 112	1.6 – 182.1'	6/1/06	11:00 – 13:30
BG PS	201 – 311	1.6 – 180.5'	6/1/06	14:05 – 15:35
4ARM CAL	B304 4ARM PRE CAL	0.2 – 2.0'	6/1/06	16:10 – 16:12
4ARM CAL/DEV	B304 DOWN 01	0.0 – 194.0	6/1/06	16:20 – 17:20
4ARM CAL	B304 POS CAL	1.0 – (-1.0)	6/1/06	17:32 – 17:34
ELOG/GAMMA	B304 ELOG DOWN 01	40.5 – 195.4	6/1/06	18:00 – 18:20
ELOG/GAMMA	B304 ELOG UP 01	195.4 – 20.2	6/1/06	18:25 – 18:45
3ARM CAL	B304 TEST CAL 01	Ø	6/2/06	11:25 – 11:30
3ARM CAL	B304 CAL UP 01	188 – Ø	6/2/06	11:33 – 11:53
3ARM CAL	B304 TEST CAL 02	Ø	6/2/06	11:55 – 12:00
3ARM CAL	B304 TEST CAL 03	Ø	6/2/06	12:05 – 12:10
3ARM CAL	B304 CAL UP 02	189.0 – Ø	6/2/06	12:13 – 12:33
3ARM CAL	B304 TEST CAL 04	Ø	6/2/06	12:40 – 12:45

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P-S SUSPENSION VELOCITY FIELD LOG

SITE: CALVERT CLIFFS COLA B-304 DATE: 6/1/06
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 1 OF 5

CONTACT: _____ OFFICE PHONE: _____
CELL PHONE: _____
CONTACT: _____ OFFICE PHONE: _____
_____ PHONE: _____
CONTACT: _____ _____ PHONE: _____
_____ PHONE: _____
CONTACT: _____ _____ PHONE: _____
_____ PHONE: _____
DRILLER: _____ _____ PHONE: _____
COMPANY: _____ _____ PHONE: _____

DIRECTIONS TO SITE: _____

GENERAL SITE CONDITIONS/LOCATION: _____

EA#: _____
BOREHOLE DESIGNATION: _____ LOCATION: _____
COUNTY: _____ RANGE: _____ TOWNSHIP: _____ SECTION: _____
BOREHOLE CONSTRUCTION: CASED ____ UNCASED ✓
DIAMETERS AND DEPTH RANGES: 4 1/4" 0 TO 200' : ____, ____ TO ____
BOREHOLE TOTAL DEPTH AS DRILLED: 200'
CONDUCTOR CASING?: YES ____ DEPTH TO BOTTOM OF CASING ____; NO ✓
DEPTH TO BEDROCK: N/A DEPTH TO WATER TABLE: ≈ 60'
BOREHOLE FLUID: WATER ____; FRESH WATER MUD ✓; SALT WATER MUD ____;
OTHER: _____
DEPTH TO BOREHOLE FLUID: _____ TIME SINCE LAST CIRCULATION: 2 HRS

GEOVision
geophysical services

SITE: CALVERT CLIFFS COLA B-204 DATE: 6/1/06
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 2 OF 5

LOGGING CREW: R. STELLER
VEHICLE(S) USED AND MILEAGE: RENTAL
MOBILIZED FROM: LEXINGTON PARK DEPARTURE TIME: 6:00
ARRIVED ON SITE: 7:00
STANDBY TIME: ~ CAUSE: DOCUMENTATION, MOVE ON SITE
OYO LOGGING STARTED: 11:00 LOGGING COMPLETED: 13:30
STANDBY TIME: CAUSE:
to Robertson LOGGING STARTED: 14:05 LOGGING COMPLETED: 15:35
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 ☐					

MAINTENANCE PERFORMED ON SITE:
OYO DATA FILES: 001 - 112
ROBERTSON DATA
EQUIPMENT PROBLEMS OR FAILURES: FILES: 201 - 311

SUGGESTIONS, ADDITIONS, CHANGES:

COMMENTS: OYO ZERO ON RETURN = +0.03 m ROBERTSON ↓ 0.3 FT ABOVE PLATE
ROBERTSON ZERO ON RETURN = 0.3 FT.

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: CALVERT CLIFFS COLA B-304 DATE: 6/1/06

CLIENT: SCHNABEL JOB: 6165

AUTHOR: R. STELLER PAGE 5 OF 5

DEPTH METERS	DEPTH FEET	UNFILTERED FILE NO.	FILTERED FILE NO.	COMMENTS CASING, WATER, ROCK, ETC
0.5	1.64	201	201	
1.0	3.28	2	202	
1.5	4.92	3	203	
2.0	6.56	4	204	
2.5	8.20	5	205	
3.0	9.84	6	206	
3.5	11.48	7	207	
4.0	13.12	8	208	
4.5	14.76	9	209	
5.0	16.40	10	210	
5.5	18.04	11	211	
6.0	19.69	12 13	212, 213	
6.5	21.33	14	214	
7.0	22.97	15	215	
7.5	24.61	16	216	
8.0	26.25	17	217	
8.5	27.89	18	218	
9.0	29.53	19	219	
9.5	31.17	20	220	
10.0	32.81	21	221	
10.5	34.45	22	222	Sea water
11.0	36.09	23	223	
11.5	37.73	24	224	
12.0	39.37	25	225	
12.5	41.01	26	226	
13.0	42.65	27	227	
13.5	44.29	28	228	
14.0	45.93	29	229	
14.5	47.57	30	230	
15.0	49.21	31	231	
15.5	50.85	32	232	
16.0	52.49	33	233	
16.5	54.13	34	234	
17.0	55.77	35	235	
17.5	57.41	36	236	
18.0	59.05	37	237	
18.5	60.79	38	238	
19.0	62.34	39	239	
19.5	63.98	40	240	
20.0	65.62	41	241	

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: CALVERT CLIFFS COLA B-304 DATE: 6/1/06
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 4 OF 5

ROBERTSON

DEPTH METERS	DEPTH FEET	~~UNFILTERED~~ FILE NO. 040	~~FILTERED~~ FILE NO.	COMMENTS CASING, WATER, ROCK, ETC
20.5	67.26	42	242	
21.0	68.90	43	243	
21.5	70.54	44	244	
22.0	72.18	45	245	
22.5	73.82	46	246	
23.0	75.46	47	247	
23.5	77.10	48	248	
24.0	78.74	49	249	
24.5	80.38	50	250	
25.0	82.02	51	251	
25.5	83.66	52	252	
26.0	85.30	53	253	
26.5	86.94	54	254	
27.0	88.58	55	255	
27.5	90.22	56	256	
28.0	91.86	57	257	
28.5	93.50	58	258	Vs = 240 m/s
29.0	95.14	59	259	
29.5	96.78	60	260	
30.0	98.43	61	261	
30.5	100.07	62	262	
31.0	101.71	63	263 CLIPPED	
31.5	103.35	64	264	
32.0	104.99	65	265	
32.5	106.63	66	266 CLIPPED	
33.0	108.27	67	267	
33.5	109.91	68	268	
34.0	111.55	69	269 CLIPPED	
34.5	113.19	70	270	
35.0	114.83	71	271	
35.5	116.47	72	272 CLIPPED	
36.0	118.11	73	273	
36.5	119.75	74	274	
37.0	121.39	75	275	
37.5	123.03	76	276	
38.0	124.67	77	277	
38.5	126.31	78	278	
39.0	127.95	79	279	
39.5	129.59	80	280	
40.0	131.23	81	281	

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: CALVERT CLIFFS COLA R-304 DATE: 6/1/06
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 5 OF 9

DEPTH METERS	DEPTH FEET	CCD UNFILTERED FILE NO.	RADIATION FILTERED FILE NO.	COMMENTS CASING, WATER, ROCK, ETC
40.5	132.87	81	281	
41.0	134.51	82	282	
41.5	136.15	83	283 CASED	
42.0	137.80	84	284 "	
42.5	139.44	85	285 "	
43.0	141.08	86	286 "	
43.5	142.72	87	287 "	
44.0	144.36	88	288 "	
44.5	146.00	89	289 "	
45.0	147.64	90	290 "	
45.5	149.28	91	291 "	
46.0	150.92	92	292 "	
46.5	152.56	93	293	
47.0	154.20	94	294	
47.5	155.84	95	295	
48.0	157.48	96	296	
48.5	159.12	97	297	
49.0	160.76	98	298	
49.5	162.40	99	299	
50.0	164.04	100	300 CASED	
50.5	165.68	101	301 "	DISC. & de wtr. WATER.
51.0	167.32	102	302 "	
51.5	168.96	103	303	
52.0	170.60	104	304	
52.5	172.24	105	305	
53.0	173.88	106	306	
53.5	175.52	107	307	
54.0	177.17	108	308	
54.5	178.81	109	309	
55.0	180.45	110	310	
55.5	182.09	111	311	
56.0	183.73			LOST RECEIVER AT 55.1m (TIP @ 183.9')
56.5	185.37			CCD HIT @ 56.58 m (TIP @ 185.7')
57.0	187.01			BOTTOM MEASURED. ?
57.5	188.65			
58.0	190.29			
58.5	191.93			
59.0	193.57			
59.5	195.21			
60.0	196.85			

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ACOUSTIC TELEVIEWER FIELD LOG

SITE: ~~GRAND GULF COL~~ CCNPP COLA B-304 DATE: 6/1/2006
CLIENT: WLA JOB: 6242
AUTHOR: R. STELLER PAGE 1 OF 2

CONTACT: JIM HENGISH OFFICE PHONE: 601-437-7354
CELL PHONE: 415-488-7382
CONTACT: OFFICE PHONE:
PHONE:
CONTACT: PHONE:
PHONE:
CONTACT: PHONE:
PHONE:
DRILLER: PHONE:
COMPANY: PHONE:

DIRECTIONS TO SITE:

GENERAL SITE CONDITIONS/LOCATION:

BOREHOLE DESIGNATION: B-304 LOCATION:

COUNTY: RANGE: TOWNSHIP: SECTION:
BOREHOLE CONSTRUCTION: CASED UNCASED ✓
DIAMETERS AND DEPTH RANGES: 4 1/4" 0 TO 200'; , TO
BOREHOLE TOTAL DEPTH AS DRILLED: 200'
CONDUCTOR CASING?: YES DEPTH TO BOTTOM OF CASING; NO ✓
DEPTH TO BEDROCK: NA DEPTH TO WATER TABLE: 060'
BOREHOLE FLUID: WATER; FRESH WATER MUD ✓; SALT WATER MUD;
OTHER:
DEPTH TO BOREHOLE FLUID: TIME SINCE LAST CIRCULATION: 6 HRS

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SITE: GRAND GULF COL B-304 DATE: 6/1/2006
CLIENT: WLA JOB: 6242
AUTHOR: R. STELLER PAGE 2 OF 2

LOGGING CREW: R. STELLER
VEHICLE(S) USED AND MILEAGE: RENTAL
MOBILIZED FROM: LEXINGTON PARK DEPARTURE TIME: 6:00
ARRIVED ON SITE: 7:00
STANDBY TIME: CAUSE:
LOGGING STARTED: 16:10 LOGGING COMPLETED:

WINCH: COMPROBE ✓ SILVER ✓ OYO ___ OTHER ___
MICROLOGGER 5301 ✓ OTHER ___
TELEVIEWER OPTICAL #5117 ___ ACOUSTIC #5174 ✓ OTHER ___

PROBE TILT TEST 85.2° BRUNTON TILT 84° PROBE HANGING 0.4°
PROBE AZIMUTH TEST 293.3° BRUNTON AZIMUTH 289°

PROBE OFFSET	OPTICAL 1.88M(6.17FT)	ACOUSTIC 1.44M(4.72FT)
CASING STICK-UP	-	- 1.50'
DEPTH REF. OFFSET		3.22 FT ✓

LOG NAME	START DEPTH	START TIME	END DEPTH	END TIME
B304 PRECAL	2.0	16:10	02	16:12
B304 AV DOWN01	0.0	16:20	94'	17:20
B304 POSCAL	1.0	17:32	-1.0	17:34
B304 ELOG DOWN01	40.5	18:00	195.4	18:20
B304 ELOG UP 01	195.4	18:25	20.2	18:45

MAINTENANCE PERFORMED ON SITE:

EQUIPMENT PROBLEMS OR FAILURES: ELOG DOWN01 AND ELOG UP01 DIFFER IN DEPTH BY ≈ 10' DUE TO LOG UP WITH INCORRECT DIRECTION? CHECK IN ANALYSIS.

SUGGESTIONS, ADDITIONS, CHANGES: ELOG EXTENSION 32.8'
STICK-UP = 1.50' PROBE LENGTH = 9.2 STINGER @ 9.2 - 1.5' = 7.7'
6:45 PM

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B-304 CALIPER FIELD LOG

SITE: CCNPP COLA DATE: 6/2/2008
CLIENT: SCHNABEL JOB: 6185
AUTHOR: R. STELLER

CONTACT: RUBEN TARUSELLI OFFICE PHONE:
CELL PHONE: 703-906-1797
CONTACT: OFFICE PHONE:
PHONE:
CONTACT: PHONE:
PHONE:
CONTACT: PHONE:
PHONE:
DRILLER: PHONE:
COMPANY: PHONE:

GENERAL SITE CONDITIONS/LOCATION:

BOREHOLE DESIGNATION: B-304 LOCATION:

COUNTY: RANGE: TOWNSHIP: SECTION:
BOREHOLE CONSTRUCTION: CASED UNCASED ✓
DIAMETERS AND DEPTH RANGES: 4.25" 0 TO 200' ; TO
BOREHOLE TOTAL DEPTH AS DRILLED: 200'
CONDUCTOR CASING?: YES DEPTH TO BOTTOM OF CASING ; NO ✓
DEPTH TO BEDROCK: NA DEPTH TO WATER TABLE: 6.68'
BOREHOLE FLUID: WATER ; FRESH WATER MUD ✓ ; SALT WATER MUD ;
OTHER:
DEPTH TO BOREHOLE FLUID: 0 TIME SINCE LAST CIRCULATION: 4½ HR

LOGGING CREW: R. STELLER
VEHICLE(S) USED AND MILEAGE: RENTAL
MOBILIZED FROM: LEXINGTON PARK DEPARTURE TIME: 10:15
ARRIVED ON SITE: 10:45
STANDBY TIME: — CAUSE: —
LOGGING STARTED: 11:50 LOGGING COMPLETED: 12:40

7651 Pannon Rock, Unit P, Corona, CA 92882 Ph (951) 549-1238 Fx (951) 549-1236

SITE: CCNPP COLA R- 304 DATE: 6 / 2 /2006
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 2 OF 2

WINCH: COMPROBE ____ SILVER ✓ OYO ____ OTHER ____
MICROLOGGER 5301 ✓ OTHER ____
CALIPER PROBE 5368 ✓ OTHER ____

PROBE OFFSET	12 IN MAX 2.08M(6.82 FT)	24 IN MAX
CASING STICK-UP	ARMS - 1.50	ARMS - ____
DEPTH REF. OFFSET	5.32 FT	

LOG NAME	START DEPTH	START TIME	END DEPTH	END TIME
B304 TEST CAL 01	Ø	11:25 20:15	Ø	~~11:30~~ 20:18
B304 CAL UP 01	188 145	11:33 20:20	Ø	11:53 20:44
B304 TEST CAL 02	Ø	11:55 20:48	Ø	12:00 20:50
B304 TEST CAL 03	Ø	12:05	Ø	12:10
B304 CAL UP 02	189'	12:13	Ø	12:33
B304 ~~CAL~~ TEST CAL 04	Ø	12:40	Ø	12:45

CALIBRATION PLATE S/N 201

		AS BUILT		
		1.968 IN	3.937 IN	8.000 IN
	FILE NAME	(50 MM)	(100 MM)	203.2 MM
AS MEAS.	B 304 TEST CAL 01	1.97	3.92	8.00
AS MEAS.	B 304 TEST CAL 02	1.92	3.87	7.88
AS MEAS.	B 304 TEST CAL 03	1.97	3.97	8.00
AS MEAS.	B 304 TEST CAL 04	1.96	3.96	8.00
AS MEAS.				
AS MEAS.				

1.96 3.93 8.00
~~1.94~~ 3.96 8.04
1.97 3.95 8.03

MAINTENANCE PERFORMED ON SITE: ____

EQUIPMENT PROBLEMS OR FAILURES: ____

SUGGESTIONS, ADDITIONS, CHANGES: ____

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B-307 BORING GEOPHYSICS FIELD LOG SUMMARY

SITE: CCNPP COLA DATE: 6/15/2006
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 1 OF 2

CONTACT: RUBEN TARUSELLI PHONE: 703-906-1797

BOREHOLE CONSTRUCTION: CASED ____ UNCASED ✓
DIAMETERS AND DEPTH RANGES: 6" 0 TO 20'; 4 1/4" 20 TO 200'
BOREHOLE TOTAL DEPTH AS DRILLED: 200'
CONDUCTOR CASING?: YES ____ DEPTH TO BOTTOM OF CASING ____; NO ✓
DEPTH TO BEDROCK: NA
BOREHOLE FLUID: WATER ____; FRESH WATER MUD ✓; SALT WATER MUD ____;

LOGGING CREW: R. STELLER

LOG TYPE	FILE NAME	DEPTH RANGE	DATE	TIMES
SUSPENSIONRS	001 - 114	16' - 197.0'	6/15/06	20:00 - 21:05
CALIPER TEST	B307TESTCAL01	Ø	6/15/06	21:25 - 21:35
CALIPER	B307CALIP01	197.0 - (-0.5)	6/15/06	21:45 - 22:05
CALIPER TEST	B307TESTCAL02	Ø	6/15/06	22:10 - 22:15
ELOG/GAMMA	B307ELOGCLP01	200.0' - 4.05'	6/15/06	22:27 - 22:50
DEVIATION	B307DEVDOWN01	Ø - 195.0'	6/15/06	23:20 - 0:15

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P-S SUSPENSION VELOCITY FIELD LOG

SITE: CALVERT CLIFFS COLA B-307 DATE: 6/15/06
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 1 OF 5

CONTACT: _____ OFFICE PHONE: _____
CELL PHONE: _____
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-307 LOCATION: _____

COUNTY: _____ RANGE: _____ TOWNSHIP: _____ SECTION: _____
BOREHOLE CONSTRUCTION: CASED ____ UNCASED ✓
DIAMETERS AND DEPTH RANGES: ~~4~~ 6" 0 TO ~~200'~~ 20; 4 1/4, 20 TO 200'
BOREHOLE TOTAL DEPTH AS DRILLED: 200'
CONDUCTOR CASING?: YES ____ DEPTH TO BOTTOM OF CASING ____; NO ✓
DEPTH TO BEDROCK: N/A DEPTH TO WATER TABLE: _____
BOREHOLE FLUID: WATER ____; FRESH WATER MUD ✓; SALT WATER MUD ____;
OTHER: _____
DEPTH TO BOREHOLE FLUID: Ø TIME SINCE LAST CIRCULATION: 1/2 HR

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SITE: CALVERT CLIFFS COLA B-307 DATE: 6/15/06
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 2 OF 5

LOGGING CREW: R. STELLER
VEHICLE(S) USED AND MILEAGE: RENTAL
MOBILIZED FROM: LEXINGTON PARK DEPARTURE TIME: 17:00
ARRIVED ON SITE: 18:30
STANDBY TIME: CAUSE:
LOGGING STARTED: LOGGING COMPLETED:
STANDBY TIME: CAUSE:
LOGGING STARTED: 20:00 LOGGING COMPLETED: 21:05
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 OFFSET = 8.14' − 1.5' = 6.64' = 2.02m

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: CALVERT CLIFFS COLA B-307 DATE: 6/15/06

CLIENT: SCHNABEL JOB: 6165

AUTHOR: R. STELLER PAGE 3 OF 15

DEPTH METERS	DEPTH FEET	UNFILTERED FILE NO.	FILTERED FILE NO.	COMMENTS CASING, WATER, ROCK, ETC
0.5	1.64	1		
1.0	3.28	2		
1.5	4.92	3		
2.0	6.56	4		
2.5	8.20	5		
3.0	9.84	6		
3.5	11.48	7		
4.0	13.12	8		
4.5	14.76	9		
5.0	16.40	10		
5.5	18.04	11		
6.0	19.69	12		
6.5	21.33	13		
7.0	22.97	14		
7.5	24.61	15		
8.0	26.25	16		
8.5	27.89	17		
9.0	29.53	18		
9.5	31.17	19		
10.0	32.81	20		
10.5	34.45	21		
11.0	36.09	22		
11.5	37.73	23		
12.0	39.37	24		
12.5	41.01	25		
13.0	42.65	26		
13.5	44.29	27		
14.0	45.93	28		
14.5	47.57	29		
15.0	49.21	30		
15.5	50.85	31		
16.0	52.49	32		
16.5	54.13	33		
17.0	55.77	34		
17.5	57.41	35		
18.0	59.06	36		
18.5	60.70	37		
19.0	62.34	38		
19.5	63.98	39		
20.0	65.62	40		

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: CALVERT CLIFFS COLA B-307 DATE: 6/15/06

CLIENT: SCHNABEL JOB: 6165

AUTHOR: R. STELLER PAGE 4 OF 5

DEPTH METERS	DEPTH FEET	UNFILTERED FILE NO.	FILTERED FILE NO.	COMMENTS CASING, WATER, ROCK, ETC
20.5	67.26	41		
21.0	68.90	42		
21.5	70.54	43		
22.0	72.18	44		
22.5	73.82	45		
23.0	75.46	46		
23.5	77.10	47		
24.0	78.74	48		
24.5	80.38	49		
25.0	82.02	50		
25.5	83.66	51		
26.0	85.30	52		
26.5	86.94	53		
27.0	88.58	54		
27.5	90.22	55		
28.0	91.86	56		
28.5	93.50	57		
29.0	95.14	58		
29.5	96.78	59		
30.0	98.43	60		
30.5	100.07	61		
31.0	101.71	62		
31.5	103.35	63		
32.0	104.99	64		
32.5	106.63	65		
33.0	108.27	66		
33.5	109.91	67		
34.0	111.55	68		
34.5	113.19	69		
35.0	114.83	70		
35.5	116.47	71		
36.0	118.11	72		
36.5	119.75	73		
37.0	121.39	74		
37.5	123.03	75		
38.0	124.67	76		
38.5	126.31	77		
39.0	127.95	78		
39.5	129.59	79		
40.0	131.23	80		

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: CALVERT CLIFFS COLA B-307 DATE: 6/15/06
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 5 OF 5

DEPTH METERS	DEPTH FEET	UNFILTERED FILE NO.	FILTERED FILE NO.	COMMENTS CASING, WATER, ROCK, ETC
40.5	132.87	81		
41.0	134.51	82		
41.5	136.15	83		
42.0	137.80	84		
42.5	139.44	85		
43.0	141.08	86		
43.5	142.72	87		
44.0	144.36	88		
44.5	146.00	89		
45.0	147.64	90		
45.5	149.28	91		
46.0	150.92	92		
46.5	152.56	93		
47.0	154.20	94		
47.5	155.84	95		
48.0	157.48	96		
48.5	159.12	97		
49.0	160.76	98		
49.5	162.40	99		
50.0	164.04	100		
50.5	165.68	101		
51.0	167.32	102		
51.5	168.96	103		
52.0	170.60	104		
52.5	172.24	105		
53.0	173.88	106		
53.5	175.52	107		
54.0	177.17	108		
54.5	178.81	109		
55.0	180.45	110		
55.5	182.09	111		
56.0	183.73	112		
56.5	185.37	113		
57.0	187.01	114		Bottom measurement ?
57.5	188.65			Hit Bottom @ 57.3m ⇒ Tip at
58.0	190.29			200.1'
58.5	191.93			
59.0	193.57			
59.5	195.21			
60.0	196.85			

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B-307 CALIPER FIELD LOG

SITE: CCNPP COLA DATE: 4/15/2008
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 1 OF 2

CONTACT: RUBEN TARUSELLI OFFICE PHONE:
CELL PHONE: 703-906-1797
CONTACT: OFFICE PHONE:
PHONE:
CONTACT: PHONE:
PHONE:
CONTACT: PHONE:
PHONE:
DRILLER: PHONE:
COMPANY: PHONE:

GENERAL SITE CONDITIONS/LOCATION:

BOREHOLE DESIGNATION: B-307 LOCATION:

COUNTY: RANGE: TOWNSHIP: SECTION:
BOREHOLE CONSTRUCTION: CASED UNCASED ✓
DIAMETERS AND DEPTH RANGES: 6" 0 TO 60' ; 4¼" 80 TO 200'
BOREHOLE TOTAL DEPTH AS DRILLED: 200'
CONDUCTOR CASING?: YES DEPTH TO BOTTOM OF CASING ; NO ✓
DEPTH TO BEDROCK: 52' DEPTH TO WATER TABLE:
BOREHOLE FLUID: WATER ; FRESH WATER MUD ✓ ; SALT WATER MUD ;
OTHER:
DEPTH TO BOREHOLE FLUID: 0 TIME SINCE LAST CIRCULATION: 2 hr

LOGGING CREW: R. STELLER
VEHICLE(S) USED AND MILEAGE: RENTAL
MOBILIZED FROM: Lexington, Penn. DEPARTURE TIME: 17:00
ARRIVED ON SITE: 10:30
STANDBY TIME: CAUSE:
LOGGING STARTED: 21:25 LOGGING COMPLETED: 22:15

SITE: CCNPP COLA B-307 DATE: 6/15/2006
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 2 OF 2

WINCH: COMPROBE ___ SILVER ✓ OYO ___ OTHER ___
MICROLOGGER 5301 ✓ OTHER ___
CALIPER PROBE 5368 ✓ OTHER ___

PROBE OFFSET CASING STICK-UP DEPTH REF. OFFSET	12 IN MAX 2.08M(6.82 FT) ARMS - 1.5' 5.32'	24 IN MAX ARMS - ___

LOG NAME	START DEPTH	START TIME	END DEPTH	END TIME
B307 TEMP 01	0	21:25	0	21:35
B307 CALIP 01	117.0	21:45	~0.5	22:05
B307 TEMP 02	0	22:10	0	22:15

CALIBRATION PLATE S/N 201

		AS BUILT		
		1.968 IN	3.937 IN	8.000 IN
	FILE NAME	(50 MM)	(100 MM)	203.2 MM
AS MEAS.	B307 TEMP 01	1.94	3.94	8.01
AS MEAS.	B307 TEMP 02	1.93	3.87	7.94
AS MEAS.				
AS MEAS.				
AS MEAS.				
AS MEAS.				

MAINTENANCE PERFORMED ON SITE: ___

EQUIPMENT PROBLEMS OR FAILURES: ___

SUGGESTIONS, ADDITIONS, CHANGES: ___

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B-307 ELOG FIELD LOG

SITE: CCNPP COLA DATE: 6/15/2006
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 1 OF 2

CONTACT: RUBEN TARUSELLI OFFICE PHONE:
CELL PHONE: 703-906-1797
CONTACT: OFFICE PHONE:
PHONE:
CONTACT: PHONE:
PHONE:
CONTACT: PHONE:
PHONE:
DRILLER: PHONE:
COMPANY: PHONE:

GENERAL SITE CONDITIONS/LOCATION:

BOREHOLE DESIGNATION: B-307 LOCATION:

COUNTY: RANGE: TOWNSHIP: SECTION:
BOREHOLE CONSTRUCTION: CASED UNCASED ✓
DIAMETERS AND DEPTH RANGES: 6" 0 TO 20' ; 4 1/4" 20' TO 200'
BOREHOLE TOTAL DEPTH AS DRILLED: 200'
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: 4 HR.

LOGGING CREW: R. STELLER
VEHICLE(S) USED AND MILEAGE: RENTAL
MOBILIZED FROM: LEXINGTON PARK DEPARTURE TIME: 17:00
ARRIVED ON SITE: 8:30
STANDBY TIME: CAUSE:
LOGGING STARTED: 22:27 LOGGING COMPLETED: 22:50

SITE: CCNPP COLA B-307 DATE: 6/15/2006
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 2 OF 2

WINCH: COMPROBE ____ SILVER ✓ OYO ____ OTHER ____
MICROLOGGER 5301 ✓ OTHER ____
ELOG PROBE 5490 ✓ OTHER ____

PROBE OFFSET	2.50M(8.20 FT)	
CASING STICK-UP	-1.5	
DEPTH REF. OFFSET	6.7 FT.	

LOG NAME	START DEPTH	START TIME	END DEPTH	END TIME
B307 Elog up 01	200'	22:27	4.05	22:50

MAINTENANCE PERFORMED ON SITE: ____

EQUIPMENT PROBLEMS OR FAILURES: ____

SUGGESTIONS, ADDITIONS, CHANGES: ____

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B-307 DEVIATION ~~ACOUSTIC TELEVIEWER~~ FIELD LOG

SITE: CCNPP COLA DATE: 6/15/2006
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 1 OF 2

CONTACT: RUBEN TARUSELLI OFFICE PHONE:
CELL PHONE: 703-906-1797
CONTACT: OFFICE PHONE:
PHONE:
CONTACT: PHONE:
PHONE:
CONTACT: PHONE:
PHONE:
DRILLER: PHONE:
COMPANY: PHONE:

DIRECTIONS TO SITE:

GENERAL SITE CONDITIONS/LOCATION:

BOREHOLE DESIGNATION: B-307 LOCATION:

COUNTY: RANGE: TOWNSHIP: SECTION:
BOREHOLE CONSTRUCTION: CASED UNCASED ✓
DIAMETERS AND DEPTH RANGES: 12" 0 TO 20' ; 4 3/4" 20 TO 200'
BOREHOLE TOTAL DEPTH AS DRILLED: 200
CONDUCTOR CASING?: YES DEPTH TO BOTTOM OF CASING ; NO ✓
DEPTH TO BEDROCK: N/A DEPTH TO WATER TABLE:
BOREHOLE FLUID: WATER ; FRESH WATER MUD ✓ ; SALT WATER MUD ;
OTHER:
DEPTH TO BOREHOLE FLUID: 17 TIME SINCE LAST CIRCULATION: 2 HRS

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SITE: CCNPP COLA B-307 DATE: 6/15/2006
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 2 OF 2

LOGGING CREW: R. STELLER
VEHICLE(S) USED AND MILEAGE: RENTAL
MOBILIZED FROM: LEXINGTON PARK DEPARTURE TIME: 17:00
ARRIVED ON SITE: 18:30
STANDBY TIME: CAUSE:
LOGGING STARTED: 23:20 LOGGING COMPLETED:

WINCH: COMPROBE ___ SILVER ___ OYO ___ OTHER COLOG MGX II
MICROLOGGER 5301 ___ OTHER MGX II
TELEVIEWER OPTICAL #5117 ___ ACOUSTIC #5174 ___ OTHER COLOG DVAZ

PROBE TILT TEST 87.7 BRUNTON TILT 88 HANGING 0.6'
PROBE AZIMUTH TEST 282.1 BRUNTON AZIMUTH 276

PROBE OFFSET	OPTICAL 1.88M(6.17FT)	ACOUSTIC 1.44M(4.72FT)
CASING STICK-UP	-	-
DEPTH REF. OFFSET		

ZERO -1.5'

LOG NAME	START DEPTH	START TIME	END DEPTH	END TIME
B307 DOWN				
B307 DBI DOWN 01	0	23:20	195	12:15

MAINTENANCE PERFORMED ON SITE:

EQUIPMENT PROBLEMS OR FAILURES:

SUGGESTIONS, ADDITIONS, CHANGES:

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B-318 BORING GEOPHYSICS FIELD LOG SUMMARY

SITE: CCNPP COLA DATE: 6 / 4 /2006
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 1 OF 2

CONTACT: RUBEN TARUSELLI PHONE: 703-906-1797

BOREHOLE CONSTRUCTION: CASED ____ UNCASED ✓
DIAMETERS AND DEPTH RANGES: 4 1/4 0 TO 201 ; ____, ____ TO ____
BOREHOLE TOTAL DEPTH AS DRILLED: 201'
CONDUCTOR CASING?: YES ____ DEPTH TO BOTTOM OF CASING ____; NO ✓
DEPTH TO BEDROCK: ____
BOREHOLE FLUID: WATER ____; FRESH WATER MUD ✓; SALT WATER MUD ____;

LOGGING CREW: R. STELLER

LOG TYPE	FILE NAME	DEPTH RANGE	DATE	TIMES
Rg PS	001 - 116	1.6 - 190.3	6/4/06	14:30 - 16:00
DEVIATION	B318AMDOWN01	Ø - 86.4	6/4/06	16:20 - 16:50
DEVIATION	B318AMDOWN02	83.5 - 198.5	6/4/06	18:00 - 18:32
ELOG/GAMMA	B318ELOGDOWN01	18.0 - 197.0	6/4/06	19:05 - 19:24
ELOG/GAMMA	B318ELOGUP01	197.0 - 40.0	6/4/06	19:25 - 19:45
GAMMA	B318ELOGUP02	40.0 - Ø	6/4/06	19:50 - 20:00
3 ARM CAL	B318TESTCAL01	Ø	6/4/06	20:15 - 20:18
3 ARM CAL	B318CALUP01	195.0 - Ø	6/4/06	20:26 - 20:44
3 ARM CAL	B318TESTCAL02	Ø	6/4/06	20:46 - 20:50

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P-S SUSPENSION VELOCITY FIELD LOG

SITE: CALVERT CLIFFS COLA B-318 DATE: 6/4/06
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 1 OF 5

CONTACT: _____ OFFICE PHONE: _____
CELL PHONE: _____
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-~~304~~ 318 LOCATION: _____

COUNTY: _____ RANGE: _____ TOWNSHIP: _____ SECTION: _____
BOREHOLE CONSTRUCTION: CASED ____ UNCASED ✓
DIAMETERS AND DEPTH RANGES: 4 1/2 0 TO ~~200'~~ 201'; ____, ____ TO ____
BOREHOLE TOTAL DEPTH AS DRILLED: ~~200'~~ 201'
CONDUCTOR CASING?: YES ____ DEPTH TO BOTTOM OF CASING ____; NO ____
DEPTH TO BEDROCK: NA DEPTH TO WATER TABLE: ≈ 96'
BOREHOLE FLUID: WATER ____; FRESH WATER MUD ✓; SALT WATER MUD ____;
OTHER: _____
DEPTH TO BOREHOLE FLUID: Ø TIME SINCE LAST CIRCULATION: 1/2 HR

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SITE: CALVERT CLIFFS COLA B-21B DATE: 6/4/06
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 2 OF 5

LOGGING CREW: R. STELLER
VEHICLE(S) USED AND MILEAGE: CENTRAL
MOBILIZED FROM: LEXINGTON PARK DEPARTURE TIME: 1:00 PM
ARRIVED ON SITE: 13:30
STANDBY TIME: CAUSE:
LOGGING STARTED: 14:30 LOGGING COMPLETED: 16:00
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 ☑	26086 ☐	11001 ☐	23053 ☐				

MAINTENANCE PERFORMED ON SITE:

EQUIPMENT PROBLEMS OR FAILURES:

SUGGESTIONS, ADDITIONS, CHANGES:

COMMENTS:

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: CALVERT CLIFFS COLA B-319 DATE: 6/4/06

CLIENT: SCHNABEL JOB: 6165

AUTHOR: R. STELLER PAGE 3 OF 5

DEPTH METERS	DEPTH FEET	UNFILTERED FILE NO.	FILTERED FILE NO.	COMMENTS CASING, WATER, ROCK, ETC
0.5	1.64	1		
1.0	3.28	2		
1.5	4.92	3		
2.0	6.56	4		
2.5	8.20	5		
3.0	9.84	6		
3.5	11.48	7		
4.0	13.12	8		
4.5	14.76	9		
5.0	16.40	10		
5.5	18.04	11		
6.0	19.69	12		
6.5	21.33	13		
7.0	22.97	14		
7.5	24.61	15		
8.0	26.25	16		
8.5	27.89	17		
9.0	29.53	18		
9.5	31.17	19		
10.0	32.81	20		
10.5	34.45	21		
11.0	36.09	22		
11.5	37.73	23		
12.0	39.37	24		
12.5	41.01	25		
13.0	42.65	26		
13.5	44.29	27		
14.0	45.93	28		
14.5	47.57	29		
15.0	49.21	30		
15.5	50.85	31		
16.0	52.49	32		
16.5	54.13	33		
17.0	55.77	34		
17.5	57.41	35		
18.0	59.06	36		
18.5	60.70	37		
19.0	62.34	38		
19.5	63.98	39		
20.0	65.62	40		

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: CALVERT CLIFFS COLA B-319 DATE: 6/4/06
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 4 OF 5

DEPTH METERS	DEPTH FEET	UNFILTERED FILE NO.	FILTERED FILE NO.	COMMENTS CASING, WATER, ROCK, ETC
20.5	67.26	41		
21.0	68.90	42		
21.5	70.54	43		
22.0	72.18	44		
22.5	73.82	45		
23.0	75.46	46		
23.5	77.10	47		
24.0	78.74	48		
24.5	80.38	49		
25.0	82.02	50		
25.5	83.66	51		
26.0	85.30	52		
26.5	86.94	53		
27.0	88.58	54		
27.5	90.22	55		
28.0	91.86	56		
28.5	93.50	57		
29.0	95.14	58		
29.5	96.78	59		
30.0	98.43	60		
30.5	100.07	61		
31.0	101.71	62		
31.5	103.35	63		
32.0	104.99	64		
32.5	106.63	65		
33.0	108.27	66		
33.5	109.91	67		
34.0	111.55	68		
34.5	113.19	69		
35.0	114.83	70		
35.5	116.47	71		
36.0	118.11	72		
36.5	119.75	73		
37.0	121.39	74		
37.5	123.03	75		
38.0	124.67	76		
38.5	126.31	77		
39.0	127.95	78		
39.5	129.59	79		
40.0	131.23	80		

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: CALVERT CLIFFS COLA B-318 DATE: 6/4/06
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 5 OF 5

DEPTH METERS	DEPTH FEET	UNFILTERED FILE NO.	FILTERED FILE NO.	COMMENTS CASING, WATER, ROCK, ETC
40.5	132.87	81		
41.0	134.51	82		
41.5	136.15	83		
42.0	137.80	84		
42.5	139.44	85		
43.0	141.08	86		
43.5	142.72	87		
44.0	144.36	88		
44.5	146.00	89		
45.0	147.64	90		
45.5	149.28	91		
46.0	150.92	92		
46.5	152.56	93		
47.0	154.20	94		
47.5	155.84	95		
48.0	157.48	96		
48.5	159.12	97		
49.0	160.76	98		
49.5	162.40	99		
50.0	164.04	100		
50.5	165.68	101		
51.0	167.32	102		
51.5	168.96	103		
52.0	170.60	104		
52.5	172.24	105		
53.0	173.88	106		
53.5	175.52	107		
54.0	177.17	108		
54.5	178.81	109		
55.0	180.45	110		
55.5	182.09	111		
56.0	183.73	112		
56.5	185.37	113		
57.0	187.01	114		Bottom measurement?
57.5	188.65	115		
58.0	190.29	116		Bottom @ 58.2m
58.5	191.93			
59.0	193.57			
59.5	195.21			
60.0	196.85			

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B-318 Acoustic TELEVIEWER FIELD LOG

SITE: ~~GRAND GULF COL~~ Calvert Cliffs COLA DATE: 6/4/2006
CLIENT: ~~WLA~~ Schnabel JOB: ~~6242~~ 6165
AUTHOR: R. STELLER PAGE 1 OF 2

CONTACT: ~~JIM HENGISH~~ OFFICE PHONE: 601-437-7354
CELL PHONE: 415-488-7382
CONTACT: OFFICE PHONE:
PHONE:
CONTACT: PHONE:
PHONE:
CONTACT: PHONE:
PHONE:
DRILLER: PHONE:
COMPANY: PHONE:

DIRECTIONS TO SITE:

GENERAL SITE CONDITIONS/LOCATION:

BOREHOLE DESIGNATION: B-318 LOCATION:

COUNTY: RANGE: TOWNSHIP: SECTION:
BOREHOLE CONSTRUCTION: CASED ✓ UNCASED ✓
DIAMETERS AND DEPTH RANGES: 4 1/4 0 TO ~~250~~ 201' , TO
BOREHOLE TOTAL DEPTH AS DRILLED: 201'
CONDUCTOR CASING?: YES DEPTH TO BOTTOM OF CASING ; NO ✓
DEPTH TO BEDROCK: NA DEPTH TO WATER TABLE: ≈90' ?
BOREHOLE FLUID: WATER Ø ; FRESH WATER MUD ✓ ; SALT WATER MUD ;
OTHER:
DEPTH TO BOREHOLE FLUID: TIME SINCE LAST CIRCULATION: 1 1/2 HR

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SITE: GRAND GULF COL B-318 DATE: 6/4/2006
CLIENT: WLA JOB: ~~6242~~ 6165
AUTHOR: R. STELLER PAGE 2 OF 2

LOGGING CREW: R. STELLER
VEHICLE(S) USED AND MILEAGE: RENTAL
MOBILIZED FROM: LEXINGTON PARK DEPARTURE TIME: 1200pm
ARRIVED ON SITE: 13:30
STANDBY TIME: CAUSE:
LOGGING STARTED: 16:20 LOGGING COMPLETED: 20:00

WINCH: COMPROBE ___ SILVER ✓ OYO ___ OTHER ___
MICROLOGGER 5301 ✓ OTHER ___
TELEVIEWER OPTICAL #5117 ___ ACOUSTIC #5174 ✓ OTHER ___

PROBE TILT TEST 87.6 BRUNTON TILT 88.0 HANGING 0-20°
PROBE AZIMUTH TEST 34.2 BRUNTON AZIMUTH 37.0

PROBE OFFSET	OPTICAL 1.88M(6.17FT)	ACOUSTIC 1.44M(4.72FT)
CASING STICK-UP	-	- 1.50FT
DEPTH REF. OFFSET		3.22'

ELOG (8.2 FT)
- 1.50
+ 52.8
3945'

LOG NAME	START DEPTH	START TIME	END DEPTH	END TIME
B318 ALL DOWN 01	0'	16:20	86.4'	16:50
B318 ALL DOWN 02	83.5	18:00	198.5	18:32
B318 ELOG DOWN 01	18.0	19:05	197	19:24
B318 ELOG UP 01	197	19:25	40'	19:45
B318 ELOG UP 02	40	19:50	0'	20:00

MAINTENANCE PERFORMED ON SITE:

EQUIPMENT PROBLEMS OR FAILURES:

SUGGESTIONS, ADDITIONS, CHANGES:

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B-318 CALIPER FIELD LOG

SITE: CCNPP COLA DATE: 6/4/2006
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 1 OF 2

CONTACT: RUBEN TARUSELLI OFFICE PHONE:
CELL PHONE: 703-906-1797
CONTACT: OFFICE PHONE:
PHONE:
CONTACT: PHONE:
PHONE:
CONTACT: PHONE:
PHONE:
DRILLER: PHONE:
COMPANY: PHONE:

GENERAL SITE CONDITIONS/LOCATION:

BOREHOLE DESIGNATION: LOCATION:

COUNTY: RANGE: TOWNSHIP: SECTION:
BOREHOLE CONSTRUCTION: CASED UNCASED ✓
DIAMETERS AND DEPTH RANGES: 4 1/4 0 TO 201' : TO
BOREHOLE TOTAL DEPTH AS DRILLED: 201
CONDUCTOR CASING?: YES DEPTH TO BOTTOM OF CASING : NO ✓
DEPTH TO BEDROCK: DEPTH TO WATER TABLE:
BOREHOLE FLUID: WATER ; FRESH WATER MUD ✓ ; SALT WATER MUD ;
OTHER:
DEPTH TO BOREHOLE FLUID: TIME SINCE LAST CIRCULATION: 4 HRS

LOGGING CREW: R. STELLER
VEHICLE(S) USED AND MILEAGE: RENTAL
MOBILIZED FROM: LEHIGH TOWN PA DEPARTURE TIME: 15:00
ARRIVED ON SITE: 15:30
STANDBY TIME: CAUSE:
LOGGING STARTED: 20:15 LOGGING COMPLETED: SAME 20:50

SITE: CCNPP COLA B-318 DATE: 6 / 4 /2006
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 2 OF 2

WINCH: COMPROBE ____ SILVER ✓ OYO ____ OTHER ____
MICROLOGGER 5301 ✓ OTHER ____
CALIPER PROBE 5368 ✓ OTHER ____

PROBE OFFSET	12 IN MAX 2.08M(6.82 FT)	24 IN MAX
CASING STICK-UP	ARMS - 1.50	ARMS - ____
DEPTH REF. OFFSET	5.32'	____

LOG NAME	START DEPTH	START TIME	END DEPTH	END TIME
B318TESTCAL01	Ø	20:15	Ø	20:18
B318CALUP01	195'	20:26	Ø	20:44
B318-TESTCAL02	Ø	20:48	Ø	20:50

CALIBRATION PLATE S/N 201

		AS BUILT		
		1.968 IN	3.937 IN	8.000 IN
	FILE NAME	(50 MM)	(100 MM)	203.2 MM
AS MEAS.	B318-~~CAL01~~ TESTCAL01	1.96	3.97	8.00
AS MEAS.	B318-TESTCAL02	1.97	3.95	8.03
AS MEAS.				
AS MEAS.				
AS MEAS.				
AS MEAS.				

MAINTENANCE PERFORMED ON SITE: ____

EQUIPMENT PROBLEMS OR FAILURES: ____

SUGGESTIONS, ADDITIONS, CHANGES: ____

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B-323 BORING GEOPHYSICS FIELD LOG SUMMARY

SITE: CCNPP COLA DATE: 6 / 13 /2006
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 1 OF 2

CONTACT: RUBEN TARUSELLI PHONE: 703-906-1797

BOREHOLE CONSTRUCTION: CASED ____ UNCASED ✓
DIAMETERS AND DEPTH RANGES: 4 3/8 0 TO 200' ; ____ , ____ TO ____
BOREHOLE TOTAL DEPTH AS DRILLED: 200'
CONDUCTOR CASING?: YES ____ DEPTH TO BOTTOM OF CASING ____ ; NO ✓
DEPTH TO BEDROCK: NA
BOREHOLE FLUID: WATER ____ ; FRESH WATER MUD ✓ ; SALT WATER MUD ____ ;

LOGGING CREW: R. STELLER

LOG TYPE	FILE NAME	DEPTH RANGE	DATE	TIMES
SUSPENSION PS	001 - 116	1.6' - 190.3'	6/13/06	09:00 - 11:00
CALIPER TEST	B323 TESTCAL01	Ø	6/13/06	11:15 - 11:25
CALIPER	B323CAL UP01	203.5' - Ø	6/13/06	11:40 - 12:02
CALIPER TEST	B323 TESTCAL02	Ø	6/13/06	12:05 - 12:08
ELOG	B323 ELOG UP01	203.5' - 18.3'	6/13/06	12:27 - 12:47
DEVIATION	B323 DEV UP01	190.0 - 180.0'	6/13/06	14:35 - 14:35
DEVIATION	B323 DEV UP02	190.0 - Ø	6/13/06	14:40 - 15:30

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P-S SUSPENSION VELOCITY FIELD LOG

SITE: CALVERT CLIFFS COLA B-323 DATE: 6/13/06
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 1 OF 5

CONTACT: OFFICE PHONE:
CELL PHONE:
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-323 LOCATION:

COUNTY: RANGE: TOWNSHIP: SECTION:
BOREHOLE CONSTRUCTION: CASED UNCASED ✓
DIAMETERS AND DEPTH RANGES: 4¼" 0 TO 200' ; TO
BOREHOLE TOTAL DEPTH AS DRILLED: 200'
CONDUCTOR CASING?: YES DEPTH TO BOTTOM OF CASING ; NO ✓
DEPTH TO BEDROCK: N/A 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

GEOVision
geophysical services

SITE: CALVERT CLIFFS COLA B-323 DATE: 6/13/06
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 2 OF 5

LOGGING CREW: R. STELLER
VEHICLE(S) USED AND MILEAGE: RENTAL
MOBILIZED FROM: LEXINGTON PARK DEPARTURE TIME: 7:00
ARRIVED ON SITE: 7:30
STANDBY TIME: CAUSE:
LOGGING STARTED: LOGGING COMPLETED:
STANDBY TIME: CAUSE:
LOGGING STARTED: 09:00 LOGGING COMPLETED: 11:00
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: MUD BOX = 1.7' x .518 m. TOOL = 8.14' - 6.44'
= 1.96 m OFFSET TO TOP OF TOOL
ROUND TRIP = 2.04 m.

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: CALVERT CLIFFS COLA B-323 DATE: 6/15/06
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 5 OF 5

DEPTH METERS	DEPTH FEET	UNFILTERED FILE NO.	FILTERED FILE NO.	COMMENTS CASING, WATER, ROCK, ETC
0.5	1.64	opt		
1.0	3.28	2		
1.5	4.92	3		
2.0	6.56	4		
2.5	8.20	5		
3.0	9.84	6		
3.5	11.48	7		
4.0	13.12	8		
4.5	14.76	9		
5.0	16.40	10		
5.5	18.04	11		
6.0	19.69	12		
6.5	21.33	13		
7.0	22.97	14		
7.5	24.61	15		
8.0	26.25	16		
8.5	27.89	17		
9.0	29.53	18		
9.5	31.17	19		
10.0	32.81	20		
10.5	34.45	21		
11.0	36.09	22		
11.5	37.73	23		
12.0	39.37	24		
12.5	41.01	25		
13.0	42.65	26		
13.5	44.29	27		
14.0	45.93	28		
14.5	47.57	29		
15.0	49.21	30		
15.5	50.85	31		
16.0	52.49	32		
16.5	54.13	33		
17.0	55.77	34		
17.5	57.41	35		
18.0	59.06	36		
18.5	60.70	37		
19.0	62.34	38		
19.5	63.98	39		
20.0	65.62	40		

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: CALVERT CLIFFS COLA B-323 DATE: 6/13/06

CLIENT: SCHNABEL JOB: 6165

AUTHOR: R. STELLER PAGE 4 OF 5

DEPTH METERS	DEPTH FEET	UNFILTERED FILE NO.	FILTERED FILE NO.	COMMENTS CASING, WATER, ROCK, ETC
20.5	67.26	41		
21.0	68.90	42		
21.5	70.54	43		
22.0	72.18	44		
22.5	73.82	45		
23.0	75.46	46		
23.5	77.10	47		
24.0	78.74	48		
24.5	80.38	49		
25.0	82.02	50		
25.5	83.66	51		
26.0	85.30	52		
26.5	86.94	53		
27.0	88.58	54		
27.5	90.22	55		
28.0	91.86	56		
28.5	93.50	57		
29.0	95.14	58		
29.5	96.78	59		
30.0	98.43	60		
30.5	100.07	61		
31.0	101.71	62		
31.5	103.35	63		
32.0	104.99	64		
32.5	106.63	65		
33.0	108.27	66		
33.5	109.91	67		
34.0	111.55	68		
34.5	113.19	69		
35.0	114.83	70		
35.5	116.47	71		
36.0	118.11	72		
36.5	119.75	73		
37.0	121.39	74		
37.5	123.03	75		
38.0	124.67	76		
38.5	126.31	77		
39.0	127.95	78		
39.5	129.59	79		
40.0	131.23	80		

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: CALVERT CLIFFS COLA B-322 DATE: 6/13/06
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 5 OF 5

DEPTH METERS	DEPTH FEET	UNFILTERED FILE NO.	FILTERED FILE NO.	COMMENTS CASING, WATER, ROCK, ETC
40.5	132.87	81		
41.0	134.51	82		
41.5	136.15	83		
42.0	137.80	84		
42.5	139.44	85		
43.0	141.08	86		
43.5	142.72	87		
44.0	144.36	88		
44.5	146.00	89		
45.0	147.64	90		
45.5	149.28	91		
46.0	150.92	92		
46.5	152.56	93		
47.0	154.20	94		
47.5	155.84	95		
48.0	157.48	96		
48.5	159.12	97		
49.0	160.76	98		
49.5	162.40	99		
50.0	164.04	100		
50.5	165.68	101		
51.0	167.32	102		
51.5	168.96	103		
52.0	170.60	104		
52.5	172.24	105		
53.0	173.88	106		
53.5	175.52	107		
54.0	177.17	108		
54.5	178.81	109		
55.0	180.45	110		
55.5	182.09	111		
56.0	183.73	112		
56.5	185.37	113		
57.0	187.01	114		BOTTOM MARKER ?
57.5	188.65	115		
58.0	190.29	116		HIT BOTTOM @ 58.3m - TYP @
58.5	191.93			2034' ?
59.0	193.57			
59.5	195.21			
60.0	196.85			

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B-323 CALIPER FIELD LOG

SITE: CCNPP COLA DATE: 6 / 13 /2006
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 1 OF 2

CONTACT: RUBEN TARUSELLI OFFICE PHONE:
CELL PHONE: 703-906-1797
CONTACT: OFFICE PHONE:
PHONE:
CONTACT: PHONE:
PHONE:
CONTACT: PHONE:
PHONE:
DRILLER: PHONE:
COMPANY: PHONE:

GENERAL SITE CONDITIONS/LOCATION:

BOREHOLE DESIGNATION: B-323 LOCATION:

COUNTY: RANGE: TOWNSHIP: SECTION:
BOREHOLE CONSTRUCTION: CASED UNCASED ✓
DIAMETERS AND DEPTH RANGES: 4.5" 0 TO 200' ; TO
BOREHOLE TOTAL DEPTH AS DRILLED: 200'
CONDUCTOR CASING?: YES DEPTH TO BOTTOM OF CASING ; NO ✓
DEPTH TO BEDROCK: N/A DEPTH TO WATER TABLE:
BOREHOLE FLUID: WATER ; FRESH WATER MUD ✓ ; SALT WATER MUD ;
OTHER:
DEPTH TO BOREHOLE FLUID: TIME SINCE LAST CIRCULATION: 2 HRS

LOGGING CREW: R. STELLER
VEHICLE(S) USED AND MILEAGE: RENTAL
MOBILIZED FROM: LEXINGTON PARK DEPARTURE TIME: 7:00
ARRIVED ON SITE: 7:30
STANDBY TIME: CAUSE:
LOGGING STARTED: 11:30 LOGGING COMPLETED:

SITE: CCNPP COLA B-323 DATE: 6/13/2008
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER

WINCH: COMPROBE ____ SILVER ✓ OYO ____ OTHER ____
MICROLOGGER 5301 ✓ OTHER ____
CALIPER PROBE 5368 ✓ OTHER ____

PROBE OFFSET CASING STICK-UP DEPTH REF. OFFSET	12 IN MAX 2.08M(6.82 FT) ARMS - 13' 5.1'	24 IN MAX ARMS - ____

LOG NAME	START DEPTH	START TIME	END DEPTH	END TIME
B323TOTCAL.01	0	11:15	0	11:25
B323CALIP01	203.5	11:40	0	12:02
B323TEMPCAL.02	0	12:05	0	12:08

CALIBRATION PLATE S/N 201

		AS BUILT		
		1.968 IN	3.937 IN	8.000 IN
	FILE NAME	(50 MM)	(100 MM)	203.2 MM
AS MEAS.	B323TOTCAL.01	1.96	3.94	7.97
AS MEAS.	B323TEMPCAL.02	1.00	3.92	8.02
AS MEAS.				
AS MEAS.				
AS MEAS.				
AS MEAS.				

MAINTENANCE PERFORMED ON SITE: ____

EQUIPMENT PROBLEMS OR FAILURES: ____

SUGGESTIONS, ADDITIONS, CHANGES: ____

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B-323 ELOG FIELD LOG

SITE: CCNPP COLA DATE: 6/13/2006
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 1 OF 2

CONTACT: RUBEN TARUSELLI OFFICE PHONE:
CELL PHONE: 703-906-1797
CONTACT: OFFICE PHONE:
PHONE:
CONTACT: PHONE:
PHONE:
CONTACT: PHONE:
PHONE:
DRILLER: PHONE:
COMPANY: PHONE:

GENERAL SITE CONDITIONS/LOCATION:

BOREHOLE DESIGNATION: B-323 LOCATION:

COUNTY: RANGE: TOWNSHIP: SECTION:
BOREHOLE CONSTRUCTION: CASED UNCASED ✓
DIAMETERS AND DEPTH RANGES: 4½ 0 TO 203' ; TO
BOREHOLE TOTAL DEPTH AS DRILLED: 203
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: 6 HR.

LOGGING CREW: R. STELLER
VEHICLE(S) USED AND MILEAGE: RENTAL
MOBILIZED FROM: Lexington Park DEPARTURE TIME: 7:00
ARRIVED ON SITE: 7:30
STANDBY TIME: CAUSE:
LOGGING STARTED: 12:30 LOGGING COMPLETED:

SITE: CCNPP COLA B-323 DATE: 6/13/2006
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 2 OF 2

WINCH: COMPROBE ___ SILVER ✓ OYO ___ OTHER ___
MICROLOGGER 5301 ✓ OTHER ___
ELOG PROBE 5490 ✓ OTHER ___

PROBE OFFSET	2.50M(8.20 FT)	
CASING STICK-UP	- 1.5' +	32.8
DEPTH REF. OFFSET	34.5'	TO WELL TOP.

LOG NAME	START DEPTH	START TIME	END DEPTH	END TIME
B323Geo up 01	202.5'	12:27	18.5'	12:47

MAINTENANCE PERFORMED ON SITE: ___

EQUIPMENT PROBLEMS OR FAILURES: ___

SUGGESTIONS, ADDITIONS, CHANGES: ___

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B-323 (revised) ACOUSTIC TELEVIEWER FIELD LOG

SITE: CCNPP COLA DATE: / /2006
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 1 OF 2

CONTACT: RUBEN TARUSELLI OFFICE PHONE:
CELL PHONE: 703-906-1797
CONTACT: OFFICE PHONE:
PHONE:
CONTACT: PHONE:
PHONE:
CONTACT: PHONE:
PHONE:
DRILLER: PHONE:
COMPANY: PHONE:

DIRECTIONS TO SITE:

GENERAL SITE CONDITIONS/LOCATION:

BOREHOLE DESIGNATION: B-323 LOCATION:

COUNTY: RANGE: TOWNSHIP: SECTION:
BOREHOLE CONSTRUCTION: CASED ____ UNCASED ✓
DIAMETERS AND DEPTH RANGES: 4½ 0 TO 203 ; ____, ____ TO ____
BOREHOLE TOTAL DEPTH AS DRILLED: 203'
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: 5 HRS

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SITE: CCNPP COLA B-323 DATE: 6/13/2006
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 2 OF 2

LOGGING CREW: R. STELLER
VEHICLE(S) USED AND MILEAGE: RENTAL
MOBILIZED FROM: DEPARTURE TIME:
ARRIVED ON SITE:
STANDBY TIME: CAUSE:
LOGGING STARTED: LOGGING COMPLETED:

WINCH: COMPROBE ___ SILVER ___ OYO ___ OTHER May II
MICROLOGGER 5301 ___ OTHER May II
TELEVIEWER OPTICAL #5117 ___ ACOUSTIC #5174 ___ OTHER Mt Sopris Deviation

PROBE TILT TEST 88.9 BRUNTON TILT 89°
PROBE AZIMUTH TEST 353° BRUNTON AZIMUTH 350°

PROBE OFFSET	OPTICAL 1.88M(6.17FT)	ACOUSTIC 1.44M(4.72FT)
CASING STICK-UP	-	- 1.50
DEPTH REF. OFFSET		-1.5

Ø @ top of probe.

LOG NAME	START DEPTH	START TIME	END DEPTH	END TIME
B323DEVUP01	190.0	14:33	180'	14:55
B323DEVUP02	190.0	4:40	Ø	15:30

MAINTENANCE PERFORMED ON SITE: Hit bottom @ 190.1' (Top of probe.
zero @ end -3.13')

EQUIPMENT PROBLEMS OR FAILURES:

SUGGESTIONS, ADDITIONS, CHANGES:

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B-401 BORING GEOPHYSICS FIELD LOG SUMMARY

SITE: CCNPP COLA DATE: 6/28/2006
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 1 OF 2

CONTACT: RUBEN TARUSELLI PHONE: 703-906-1797

BOREHOLE CONSTRUCTION: CASED ____ UNCASED ✓
DIAMETERS AND DEPTH RANGES: 4½' 0 TO 400' ; ____ , ____ TO ____
BOREHOLE TOTAL DEPTH AS DRILLED: 400'
CONDUCTOR CASING?: YES ____ DEPTH TO BOTTOM OF CASING ____ ; NO ✓
DEPTH TO BEDROCK: NA
BOREHOLE FLUID: WATER ____ ; FRESH WATER MUD ✓ ; SALT WATER MUD ____ ;

LOGGING CREW: R. STELLER, C. CARTER

LOG TYPE	FILE NAME	DEPTH RANGE	DATE	TIMES
SUSPENSION PS	001 – 297.0	1.6' – 388.8	6/28/06	12:05 – 14:37
ACOUSTIC TV	B401AUDOWN01	3.2' – 401.0'	6/28/06	15:05 – 16:59
CALIPER TEST	B401CALTEST01	Ø	6/28/06	17:17 – 17:20
CALIPER/GAMMA	B401CALUP01	397.0' – Ø'	6/28/06	17:28 – 17:48
CALIPER TEST	B401CALTEST02	Ø	6/28/06	17:50 – 17:55
ELOG	B401ELOG UP01	399.5' – 1.8'	6/28/06	18:34 – 19:14

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P-S SUSPENSION VELOCITY FIELD LOG

SITE: CALVERT CLIFFS COLA B-401 DATE: 6/28/06
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 1 OF 2

CONTACT: _____ OFFICE PHONE: _____
CELL PHONE: _____
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-401 LOCATION: _____

COUNTY: _____ RANGE: _____ TOWNSHIP: _____ SECTION: _____
BOREHOLE CONSTRUCTION: CASED ____ UNCASED ✓
DIAMETERS AND DEPTH RANGES: 4 1/2" 0 TO 400' : _____, _____ TO _____
BOREHOLE TOTAL DEPTH AS DRILLED: 400'
CONDUCTOR CASING?: YES ____ DEPTH TO BOTTOM OF CASING _____; NO ✓
DEPTH TO BEDROCK: N/A DEPTH TO WATER TABLE: _____
BOREHOLE FLUID: WATER ____; FRESH WATER MUD ✓; SALT WATER MUD ____;
OTHER: _____
DEPTH TO BOREHOLE FLUID: ✓ TIME SINCE LAST CIRCULATION: 1/2 hr.

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SITE: CALVERT CLIFFS COLA B-401 DATE: 6/28/06
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 2 OF 8

LOGGING CREW: R. STELLER, C. CARTER
VEHICLE(S) USED AND MILEAGE: RENTAL
MOBILIZED FROM: LEXINGTON PARK DEPARTURE TIME: 8:30
ARRIVED ON SITE: 9:00
STANDBY TIME: CAUSE:
LOGGING STARTED: 12:05 LOGGING COMPLETED: 14:37
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: 2800 = 8.14' − 1.5' = 6.64' = 2.02m, 2.04m ON EXIT

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: CALVERT CLIFFS COLA B-401 DATE: 6/28/02
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 1 OF 5

DEPTH METERS	DEPTH FEET	UNFILTERED FILE NO.	FILTERED FILE NO.	COMMENTS CASING, WATER, ROCK, ETC
0.5	1.64	1		
1.0	3.28	2		
1.5	4.92	3		
2.0	6.56	4		
2.5	8.20	5		
3.0	9.84	6		
3.5	11.48	7		
4.0	13.12	8		
4.5	14.76	9		
5.0	16.40	10		
5.5	18.04	11		
6.0	19.69	12		
6.5	21.33	13		
7.0	22.97	14		
7.5	24.61	15		
8.0	26.25	16		
8.5	27.89	17		
9.0	29.53	18		
9.5	31.17	19		
10.0	32.81	20		
10.5	34.45	21		
11.0	36.09	22		
11.5	37.73	23		
12.0	39.37	24		
12.5	41.01	25		
13.0	42.65	26		
13.5	44.29	27		
14.0	45.93	28		
14.5	47.57	29		
15.0	49.21	30		
15.5	50.85	31		
16.0	52.49	32		
16.5	54.13	33		
17.0	55.77	34		
17.5	57.41	35		
18.0	59.06	36		
18.5	60.70	37		
19.0	62.34	38		
19.5	63.98	39		
20.0	65.62	40		

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: CALVERT CLIFFS COLA B-401 DATE: 6/28/06
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 4 OF 5

DEPTH METERS	DEPTH FEET	UNFILTERED FILE NO.	FILTERED FILE NO.	COMMENTS CASING, WATER, ROCK, ETC
20.5	67.26	41		
21.0	68.90	42		
21.5	70.54	43		
22.0	72.18	44		
22.5	73.82	45		
23.0	75.46	46		
23.5	77.10	47		
24.0	78.74	48		
24.5	80.38	49		
25.0	82.02	50		
25.5	83.66	51		
26.0	85.30	52		
26.5	86.94	53		
27.0	88.58	54		
27.5	90.22	55		
28.0	91.86	56		
28.5	93.50	57		
29.0	95.14	58		
29.5	96.78	59		
30.0	98.43	60		
30.5	100.07	61		
31.0	101.71	62		
31.5	103.35	63		
32.0	104.99	64		
32.5	106.63	65		
33.0	108.27	66		
33.5	109.91	67		
34.0	111.55	68		
34.5	113.19	69		
35.0	114.83	70		
35.5	116.47	71		
36.0	118.11	72		
36.5	119.75	73		
37.0	121.39	74		
37.5	123.03	75		
38.0	124.67	76		
38.5	126.31	77		
39.0	127.95	78		
39.5	129.59	79		
40.0	131.23	80		

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: CALVERT CLIFFS COLA R-401 DATE: 6/22/06
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 5 OF 6

DEPTH METERS	DEPTH FEET	UNFILTERED FILE NO.	FILTERED FILE NO.	COMMENTS CASING, WATER, ROCK, ETC
40.5	132.87	81		
41.0	134.51	82		
41.5	136.15	83		
42.0	137.80	84		
42.5	139.44	85		
43.0	141.08	86		
43.5	142.72	87		
44.0	144.36	88		
44.5	146.00	89		
45.0	147.64	90		
45.5	149.28	91		
46.0	150.92	92		
46.5	152.56	93		
47.0	154.20	94		
47.5	155.84	95		
48.0	157.48	96		
48.5	159.12	97		
49.0	160.76	98		
49.5	162.40	99		
50.0	164.04	100		
50.5	165.68	101		
51.0	167.32	102		
51.5	168.96	103		
52.0	170.60	104		
52.5	172.24	105		
53.0	173.88	106		
53.5	175.52	107		
54.0	177.17	108		
54.5	178.81	109		
55.0	180.45	110		
55.5	182.09	111		
56.0	183.73	112		
56.5	185.37	113		
57.0	187.01	114		
57.5	188.65	115		
58.0	190.29	116		
58.5	191.93	117		
59.0	193.57	118		
59.5	195.21	119		
60.0	196.85	120		

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: CALVERT CLIFFS COLA B-401 DATE: 6/28/06

CLIENT: SCHNABEL JOB: 6165

AUTHOR: R. STELLER PAGE 6 OF 15

DEPTH METERS	DEPTH FEET	UNFILTERED FILE NO.	FILTERED FILE NO.	COMMENTS CASING, WATER, ROCK, ETC
60.5	198.49	121		
61.0	200.13	122		
61.5	201.77	123		
62.0	203.41	124		
62.5	205.05	125		
63.0	206.69	126		
63.5	208.33	127		
64.0	209.97	128		
64.5	211.61	129		
65.0	213.25	130		
65.5	214.90	131		
66.0	216.54	132		
66.5	218.18	133		
67.0	219.82	134		
67.5	221.46	135		
68.0	223.10	136		
68.5	224.74	137		
69.0	226.38	138		
69.5	228.02	139		
70.0	229.66	140		
70.5	231.30	141		
71.0	232.94	142		
71.5	234.58	143		
72.0	236.22	144		
72.5	237.86	145		
73.0	239.50	146		
73.5	241.14	147		
74.0	242.78	148		
74.5	244.42	149		
75.0	246.06	150		
75.5	247.70	151		
76.0	249.34	152		
76.5	250.98	153		
77.0	252.62	154		
77.5	254.27	155		
78.0	255.91	156		
78.5	257.55	157		
79.0	259.19	158		
79.5	260.83	159		
80.0	262.47	160		

GEOVISION SUSPENSION LOGGING FIELD NOTES

SITE: CALVERT CLIFFS COLA C-Aa DATE: 6/28/06
CLIENT: SCHNABEL JOB: 6165
AUTHOR: R. STELLER PAGE 7 OF 8

DEPTH METERS	DEPTH FEET	UNFILTERED FILE NO.	FILTERED FILE NO.	COMMENTS CASING, WATER, ROCK, ETC
80.5	264.11	161		
81.0	265.75	162		
81.5	267.39	163		
82.0	269.03	164		
82.5	270.67	165		
83.0	272.31	166		
83.5	273.95	167		
84.0	275.59	168		
84.5	277.23	169		
85.0	278.87	170		
85.5	280.51	171		
86.0	282.15	172		
86.5	283.79	173		
87.0	285.43	174		
87.5	287.07	175		
88.0	288.71	176		
88.5	290.35	177		
89.0	291.99	178		
89.5	293.64	179		
90.0	295.28	180		
90.5	296.92	181		
91.0	298.56	182		
91.5	300.20	183		
92.0	301.84	184		
92.5	303.48	185		
93.0	305.12	186		
93.5	306.76	187		
94.0	308.40	188		
94.5	310.04	189		
95.0	311.68	190		
95.5	313.32	191		
96.0	314.96	192		
96.5	316.60	193		
97.0	318.24	194		
97.5	319.88	195		
98.0	321.52	196		
98.5	323.16	197		
99.0	324.80	198		
99.5	326.44	199		
100.0	328.08	200		