

APPENDIX A

SUSPENSION VELOCITY MEASUREMENT

QUALITY ASSURANCE SUSPENSION SOURCE

TO RECEIVER ANALYSIS RESULTS

CCNPP COLA Borehole B-301 velocity data **Source to Receiver and Receiver to Receiver Analysis**

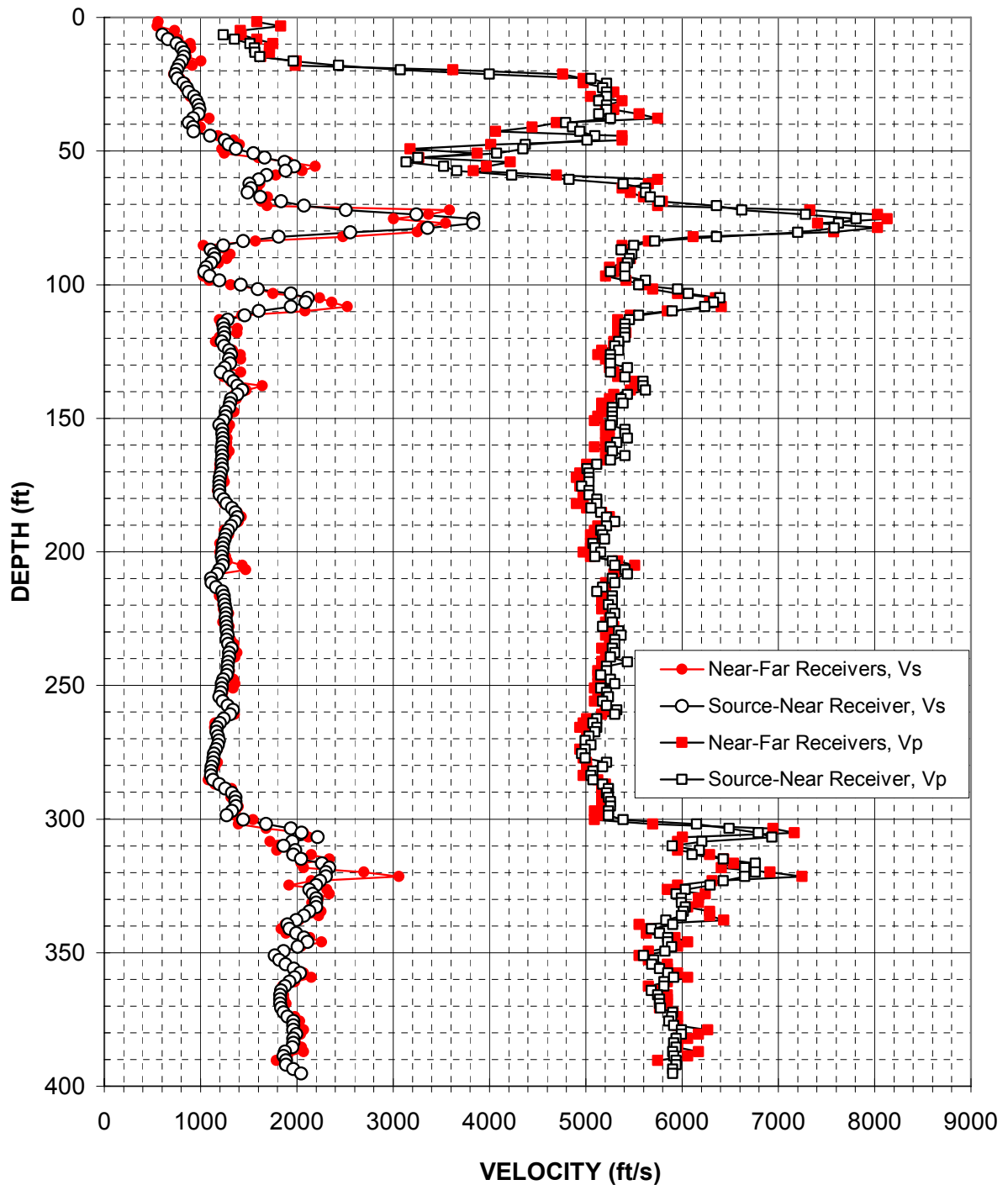


Figure A-1. Boring B-301, R1 - R2 high resolution analysis and S - R1 quality assurance analysis P- and S_H-wave data

Depth (feet)	V _s (feet/sec)	V _p (feet/sec)	Depth (feet)	V _s (feet/sec)	V _p (feet/sec)	Depth (feet)	V _s (feet/sec)	V _p (feet/sec)
6.6	610	1240	88.6	1140	5480	170.6	1210	5030
8.2	660	1350	90.2	1150	5460	172.2	1200	5030
9.8	750	1520	91.9	1110	5430	173.9	1200	5030
11.5	800	1560	93.5	1060	5410	175.5	1200	4960
13.1	830	1570	95.1	1040	5260	177.2	1200	5030
14.8	830	1610	96.8	1090	5410	178.8	1200	5030
16.4	810	1960	98.4	1200	5620	180.4	1240	5110
18.0	780	2430	100.1	1420	5550	182.1	1270	5110
19.7	760	3080	101.7	1600	5950	183.7	1330	5050
21.3	740	4000	103.4	1940	6070	185.4	1360	5150
23.0	760	5050	105.0	2120	6390	187.0	1380	5220
24.6	820	5220	106.6	2090	6330	188.7	1360	5300
26.3	860	5170	108.3	1940	6240	190.3	1320	5220
27.9	880	5220	109.9	1610	5900	191.9	1290	5150
29.5	940	5220	111.6	1460	5550	193.6	1260	5170
31.2	960	5130	113.2	1280	5460	195.2	1250	5200
32.8	980	5220	114.8	1240	5410	196.9	1240	5070
34.5	990	5220	116.5	1240	5410	198.5	1230	5090
36.1	980	5130	118.1	1250	5410	200.1	1230	5150
37.7	930	5260	119.8	1250	5410	201.8	1220	5090
39.4	880	4790	121.4	1220	5340	203.4	1230	5280
41.0	930	4870	123.0	1250	5300	205.1	1230	5300
42.7	930	4940	124.7	1300	5340	206.7	1200	5410
44.3	1100	5090	126.3	1320	5260	208.3	1170	5430
45.9	1250	5020	128.0	1300	5260	210.0	1110	5280
47.6	1290	4380	129.6	1310	5260	211.6	1120	5300
49.2	1370	4350	131.2	1250	5430	213.3	1160	5170
50.9	1550	4080	132.9	1210	5260	214.9	1230	5110
52.5	1670	3260	134.5	1300	5410	216.5	1240	5280
54.1	1870	3130	136.2	1340	5600	218.2	1250	5280
55.8	1980	3520	137.8	1380	5600	219.8	1250	5240
57.4	1880	3660	139.4	1440	5620	221.5	1260	5280
59.1	1690	4230	141.1	1380	5430	223.1	1270	5300
60.7	1610	4830	142.7	1320	5370	224.7	1260	5260
62.3	1510	5390	144.4	1310	5390	226.4	1270	5280
64.0	1520	5620	146.0	1300	5280	228.0	1270	5170
65.6	1490	5620	147.6	1260	5280	229.7	1270	5340
67.3	1620	5670	149.3	1260	5280	231.3	1280	5370
68.9	1840	5770	150.9	1240	5280	232.9	1270	5300
70.5	2080	6360	152.6	1200	5260	234.6	1290	5300
72.2	2510	6620	154.2	1230	5410	236.2	1320	5280
73.8	3240	7280	155.8	1230	5410	237.9	1300	5300
75.5	3840	7810	157.5	1230	5430	239.5	1300	5260
77.1	3840	7630	159.1	1230	5320	241.1	1290	5430
78.7	3360	7580	160.8	1220	5260	242.8	1280	5220
80.4	2560	7200	162.4	1220	5280	244.4	1280	5220
82.0	1810	6360	164.0	1230	5410	246.1	1270	5150
83.7	1440	5720	165.7	1220	5260	247.7	1240	5260
85.3	1240	5500	167.3	1220	5110	249.3	1220	5300
86.9	1110	5370	169.0	1230	5020	251.0	1220	5150

Table A-1. Boring B-301, S - R1 quality assurance analysis P- and S_H-wave data

Depth (feet)	V _s (feet/sec)	V _p (feet/sec)	Depth (feet)	V _s (feet/sec)	V _p (feet/sec)
252.6	1210	5220	334.6	2130	6010
254.3	1200	5240	336.3	2080	5990
255.9	1230	5170	337.9	1990	5830
257.5	1280	5220	339.6	1910	5910
259.2	1340	5320	341.2	1920	5680
260.8	1310	5300	342.9	1990	5770
262.5	1240	5110	344.5	2080	5850
264.1	1200	5070	346.1	2110	5850
265.8	1170	5110	347.8	2010	5900
267.4	1160	5090	349.4	1860	5820
269.0	1180	5030	351.1	1770	5600
270.7	1190	5000	352.7	1820	5710
272.3	1180	5050	354.3	1880	5690
274.0	1160	5000	356.0	1970	5770
275.6	1140	4960	357.6	2040	5850
277.2	1140	5000	359.3	1980	5920
278.9	1130	5220	360.9	1920	5810
280.5	1120	5170	362.5	1880	5810
282.2	1110	5070	364.2	1840	5680
283.8	1110	5050	365.8	1830	5750
285.4	1130	5070	367.5	1830	5770
287.1	1200	5170	369.1	1830	5770
288.7	1260	5240	370.7	1840	5780
290.4	1330	5220	372.4	1860	5910
292.0	1360	5240	374.0	1910	5900
293.6	1360	5260	375.7	1960	5860
295.3	1370	5260	377.3	1960	5920
296.9	1330	5240	378.9	1960	5990
298.6	1270	5240	380.6	1990	5990
300.2	1440	5390	382.2	1960	5940
301.8	1680	6150	383.9	1960	5920
303.5	1940	6490	385.5	1950	5940
305.1	2050	6790	387.1	1880	5910
306.8	2220	6940	388.8	1860	5920
308.4	1950	6210	390.4	1890	5940
310.0	1860	5900	392.1	1890	5940
311.7	1980	6180	393.7	1960	5910
313.3	1970	6100	395.3	2040	5910
315.0	2040	6430			
316.6	2260	6760			
318.2	2340	6650			
319.9	2300	6760			
321.5	2300	6650			
323.2	2240	6430			
324.8	2200	6290			
326.4	2130	6040			
328.1	2170	5940			
329.7	2200	5990			
331.4	2200	5990			
333.0	2200	6040			

Table A-1, continued. Boring B-301, S - R1 quality assurance analysis
P- and S_H-wave data

**CCNPP COLA Borehole B-304 S/N 19029 velocity data
Source to Receiver and Receiver to Receiver Analysis**

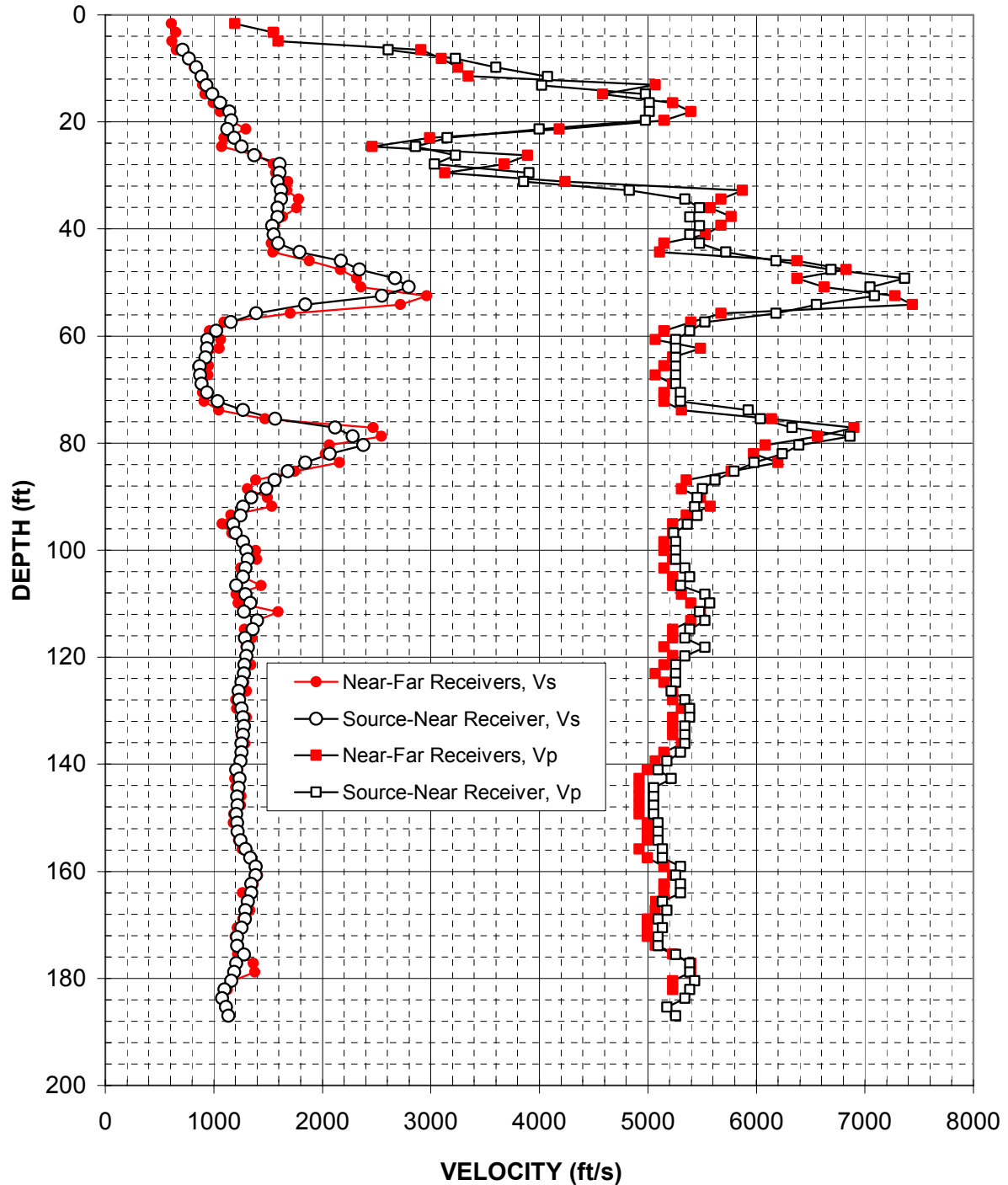


Figure A-2. Boring B-304, S/N 19029, R1 - R2 high resolution analysis
and S - R1 quality assurance analysis P- and S_H-wave data

Depth (feet)	V _s (feet/sec)	V _p (feet/sec)
6.6	710	2610
8.2	770	3230
9.9	840	3600
11.5	890	4080
13.1	930	4020
14.8	990	4980
16.4	1060	5020
18.1	1140	5020
19.7	1160	4980
21.3	1130	4000
23.0	1190	3150
24.6	1260	2860
26.3	1380	3230
27.9	1610	3030
29.5	1610	3900
31.2	1590	3860
32.8	1620	4830
34.5	1620	5340
36.1	1590	5480
37.7	1590	5390
39.4	1540	5480
41.0	1550	5390
42.7	1590	5480
44.3	1790	5720
45.9	2170	6180
47.6	2350	6690
49.2	2670	7370
50.9	2800	7050
52.5	2550	7090
54.1	1850	6550
55.8	1390	6180
57.4	1160	5530
59.1	1020	5390
60.7	940	5260
62.3	940	5260
64.0	920	5260
65.6	870	5260
67.3	880	5260
68.9	890	5260
70.6	940	5300
72.2	1030	5300
73.8	1270	5930
75.5	1570	6040
77.1	2120	6330
78.8	2280	6860
80.4	2380	6390
82.0	2070	6240
83.7	1850	5980
85.3	1680	5800
87.0	1560	5620

Depth (feet)	V _s (feet/sec)	V _p (feet/sec)
88.6	1490	5500
90.2	1350	5460
91.9	1270	5430
93.5	1250	5460
95.2	1180	5370
96.8	1210	5240
98.4	1270	5260
100.1	1300	5260
101.7	1310	5260
103.4	1290	5340
105.0	1270	5390
106.6	1210	5300
108.3	1290	5530
109.9	1340	5570
111.6	1280	5480
113.2	1400	5530
114.8	1360	5390
116.5	1290	5340
118.1	1310	5530
119.8	1300	5340
121.4	1290	5260
123.0	1280	5260
124.7	1260	5260
126.3	1230	5220
128.0	1230	5340
129.6	1260	5390
131.2	1270	5390
132.9	1280	5340
134.5	1270	5340
136.2	1260	5340
137.8	1260	5300
139.4	1250	5170
141.1	1210	5090
142.7	1240	5220
144.4	1230	5050
146.0	1220	5050
147.7	1220	5050
149.3	1210	5050
150.9	1220	5090
152.6	1220	5090
154.2	1250	5090
155.9	1290	5130
157.5	1340	5130
159.1	1390	5300
160.8	1390	5260
162.4	1350	5300
164.1	1350	5300
165.7	1310	5130
167.3	1290	5170
169.0	1290	5090

Depth (feet)	V _s (feet/sec)	V _p (feet/sec)
170.6	1260	5130
172.3	1220	5090
173.9	1220	5090
175.5	1280	5260
177.2	1210	5390
178.8	1190	5390
180.5	1160	5430
182.1	1100	5390
183.7	1080	5340
185.4	1110	5170
187.0	1140	5260

Table A-2. Boring B-304, S/N 19029, S - R1 quality assurance analysis
P- and S_H-wave data

CCNPP COLA Borehole B-304 S/N 160023 velocity data Source to Receiver and Receiver to Receiver Analysis

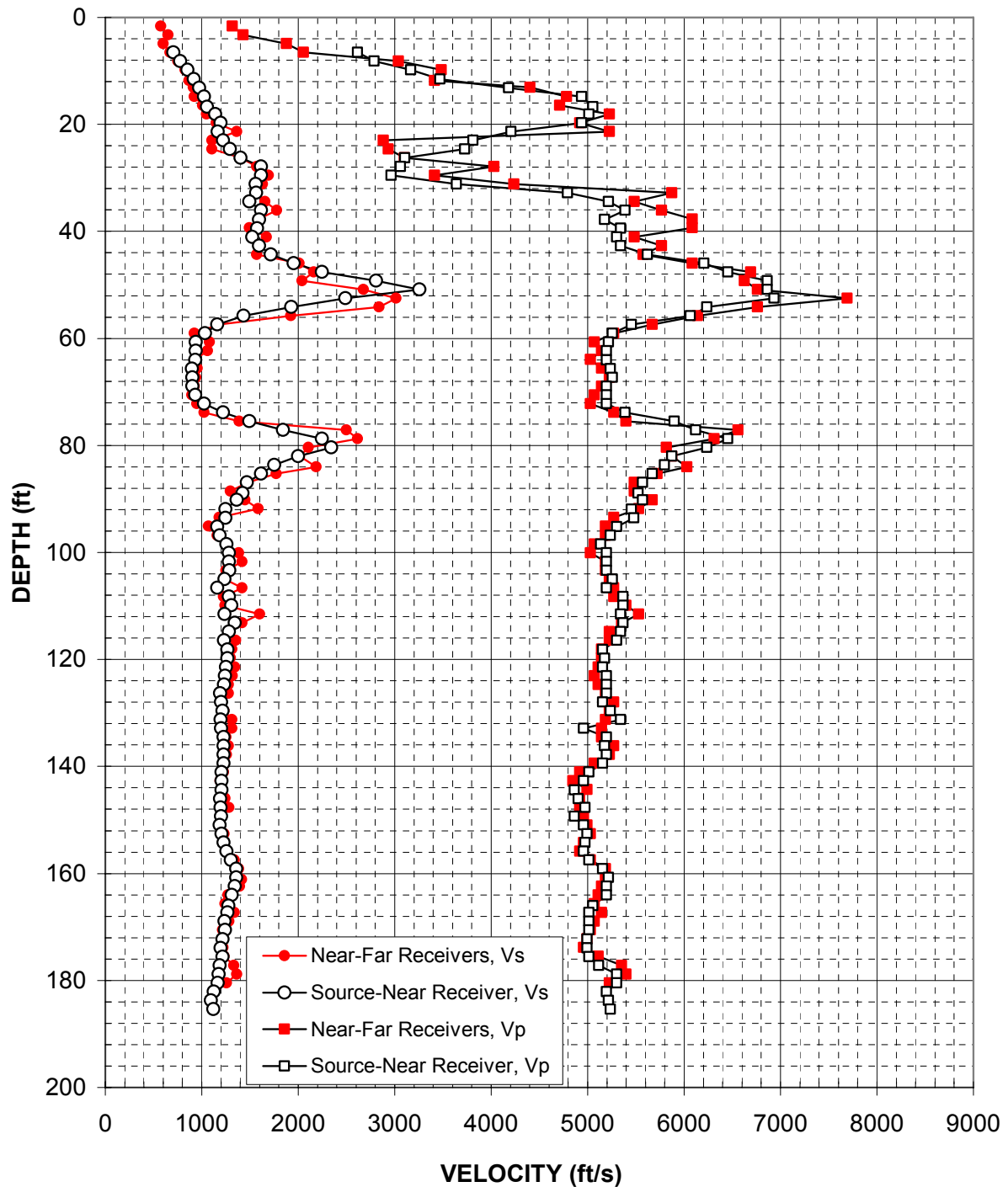


Figure A-3. Boring B-304, S/N 160023, R1 - R2 high resolution analysis
and S - R1 quality assurance analysis P- and S_H-wave data

Depth (feet)	V _s (feet/sec)	V _p (feet/sec)
6.6	710	2620
8.2	780	2790
9.9	860	3170
11.5	920	3470
13.1	970	4180
14.8	1020	4940
16.7	1060	5050
18.1	1140	5020
19.7	1200	4940
21.3	1170	4210
23.0	1220	3810
24.6	1290	3730
26.3	1410	3100
27.9	1610	3060
29.5	1610	2960
31.2	1560	3640
32.8	1570	4790
34.5	1500	5220
36.1	1610	5390
37.7	1600	5170
39.4	1570	5340
41.0	1520	5300
42.7	1600	5340
44.3	1720	5620
45.9	1950	6210
47.6	2250	6460
49.2	2810	6860
50.9	3260	6860
52.5	2490	6940
54.1	1930	6240
55.8	1440	6070
57.4	1160	5460
59.1	1030	5260
60.7	940	5220
62.3	940	5200
64.0	930	5200
65.6	900	5240
67.3	900	5260
68.9	900	5200
70.6	940	5200
72.2	1030	5200
73.8	1220	5390
75.5	1500	5900
77.1	1840	6120
78.8	2250	6460
80.4	2350	6240
82.0	2000	5870
83.7	1750	5800
85.3	1610	5670
87.0	1470	5570

Depth (feet)	V _s (feet/sec)	V _p (feet/sec)
88.9	1420	5530
90.2	1360	5570
91.9	1250	5460
93.5	1250	5480
95.2	1160	5300
96.8	1190	5240
98.4	1260	5130
100.1	1280	5200
101.7	1280	5200
103.4	1290	5200
105.0	1240	5260
106.6	1160	5200
108.3	1280	5370
109.9	1310	5370
111.6	1240	5340
113.2	1340	5370
114.8	1280	5340
116.5	1230	5300
118.1	1270	5150
119.8	1270	5170
121.4	1250	5150
123.0	1240	5200
124.7	1230	5200
126.3	1190	5200
128.0	1200	5150
129.6	1220	5240
131.2	1200	5340
132.9	1200	4960
134.5	1230	5200
136.2	1230	5170
137.8	1230	5200
139.4	1230	5150
141.1	1210	5020
142.7	1210	4960
144.4	1210	4870
146.0	1190	4900
147.7	1200	4980
149.3	1200	4870
150.9	1190	4960
152.6	1210	5000
154.2	1230	4980
155.9	1260	4960
157.5	1300	5020
159.1	1360	5150
160.8	1360	5220
162.4	1340	5200
164.1	1310	5200
166.0	1280	5050
167.3	1270	5020
169.0	1240	5020

Depth (feet)	V _s (feet/sec)	V _p (feet/sec)
170.6	1240	5020
172.3	1220	5000
173.9	1200	5000
175.5	1220	5020
177.2	1190	5110
178.8	1180	5300
180.5	1160	5300
182.1	1120	5200
183.7	1100	5220
185.4	1120	5240

Table A-3. Boring B-304, S/N 160023, S - R1 quality assurance analysis
P- and S_H-wave data

CCNPP COLA Borehole B-307 velocity data **Source to Receiver and Receiver to Receiver Analysis**

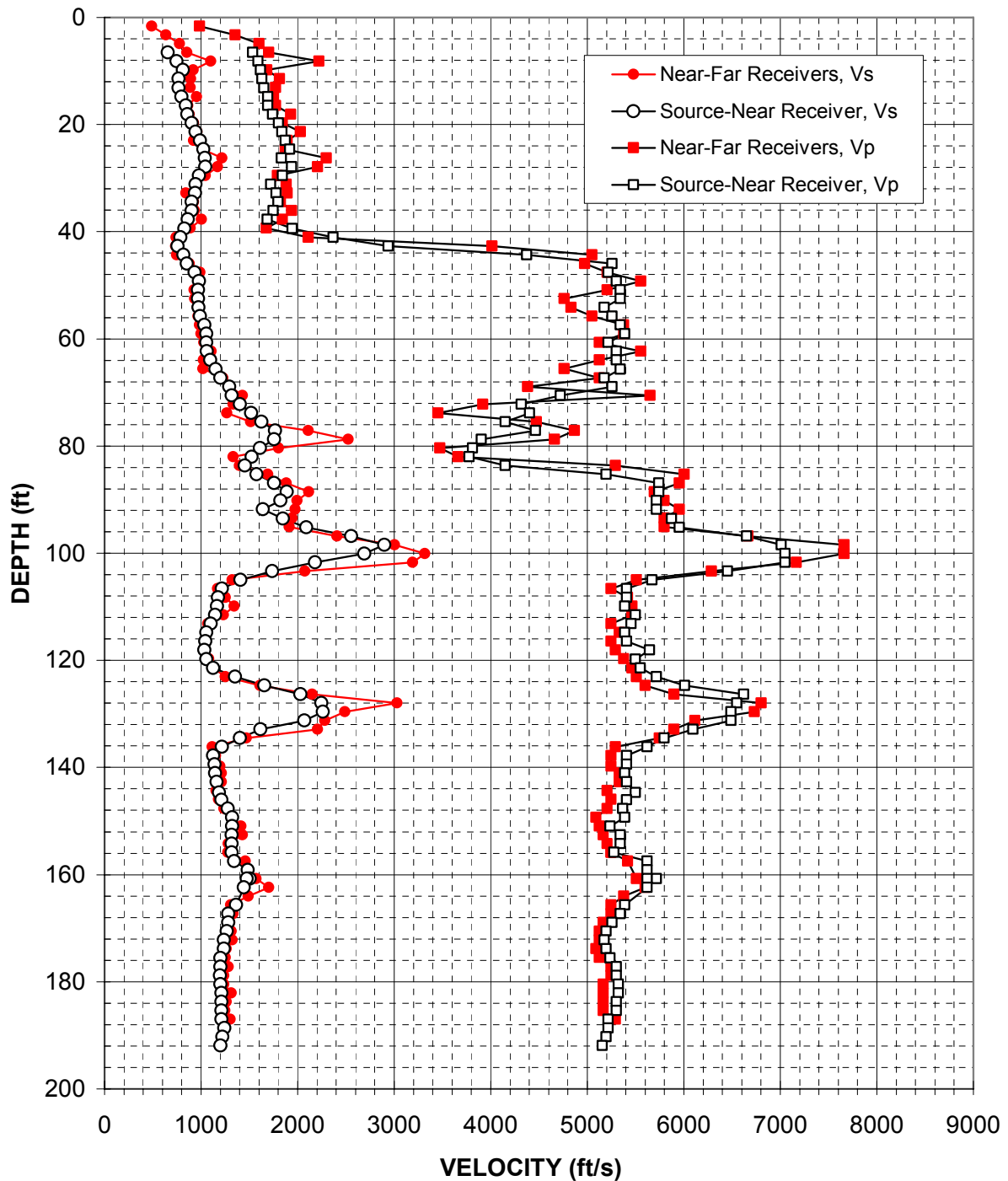


Figure A-4. Boring B-307, R1 - R2 high resolution analysis and S - R1 quality assurance analysis P- and S_H-wave data

Depth (feet)	V _s (feet/sec)	V _p (feet/sec)
6.6	660	1530
8.2	750	1590
9.8	820	1620
11.5	770	1630
13.1	770	1650
14.8	800	1690
16.4	840	1690
18.0	860	1740
19.7	900	1800
21.3	950	1840
23.0	990	1870
24.6	1030	1920
26.3	1040	1830
27.9	1050	1940
29.5	980	1840
31.2	950	1720
32.8	940	1780
34.5	900	1800
36.1	900	1750
37.7	870	1680
39.4	830	1950
41.0	790	2370
42.7	760	2940
44.3	820	4380
45.9	850	5260
47.6	940	5220
49.2	980	5300
50.9	970	5340
52.5	970	5340
54.1	970	5170
55.8	990	5260
57.4	1040	5340
59.1	1060	5390
60.7	1060	5220
62.3	1060	5300
64.0	1100	5300
65.6	1150	5340
67.3	1200	5170
68.9	1290	5260
70.5	1320	4720
72.2	1400	4320
73.8	1520	4410
75.5	1630	4150
77.1	1770	4470
78.7	1760	3900
80.4	1610	3810
82.0	1530	3780
83.7	1450	4150
85.3	1570	5200
86.9	1760	5740

Depth (feet)	V _s (feet/sec)	V _p (feet/sec)
88.6	1890	5740
90.2	1820	5720
91.9	1640	5720
93.5	1850	5870
95.1	2090	5950
96.8	2560	6650
98.4	2900	7010
100.1	2690	7050
101.7	2180	7050
103.4	1740	6460
105.0	1410	5670
106.6	1220	5410
108.3	1180	5410
109.9	1170	5390
111.6	1150	5500
113.2	1100	5460
114.8	1050	5390
116.5	1040	5410
118.1	1040	5650
119.8	1050	5500
121.4	1130	5550
123.0	1350	5720
124.7	1660	6010
126.3	2030	6620
128.0	2250	6550
129.6	2260	6490
131.2	2070	6490
132.9	1620	6090
134.5	1400	5800
136.2	1220	5620
137.8	1130	5410
139.4	1140	5410
141.1	1150	5390
142.7	1160	5410
144.7	1190	5500
146.0	1210	5410
147.6	1280	5370
149.3	1320	5390
150.9	1320	5240
152.6	1320	5340
154.2	1320	5340
155.8	1320	5280
157.5	1340	5620
159.1	1490	5620
160.8	1510	5720
160.8	1470	5620
162.4	1450	5620
165.7	1360	5390
167.3	1280	5340
169.0	1280	5260

Depth (feet)	V _s (feet/sec)	V _p (feet/sec)
170.6	1270	5200
172.2	1240	5170
173.9	1240	5200
175.5	1200	5240
177.2	1200	5300
178.8	1200	5300
180.4	1200	5320
182.1	1210	5320
183.7	1210	5300
185.4	1210	5300
187.0	1210	5220
188.7	1240	5220
190.3	1220	5200
191.9	1200	5150

Table A-4. Boring B-307, S - R1 quality assurance analysis P- and S_H-wave data

CCNPP COLA Borehole B-318 velocity data
Source to Receiver and Receiver to Receiver Analysis

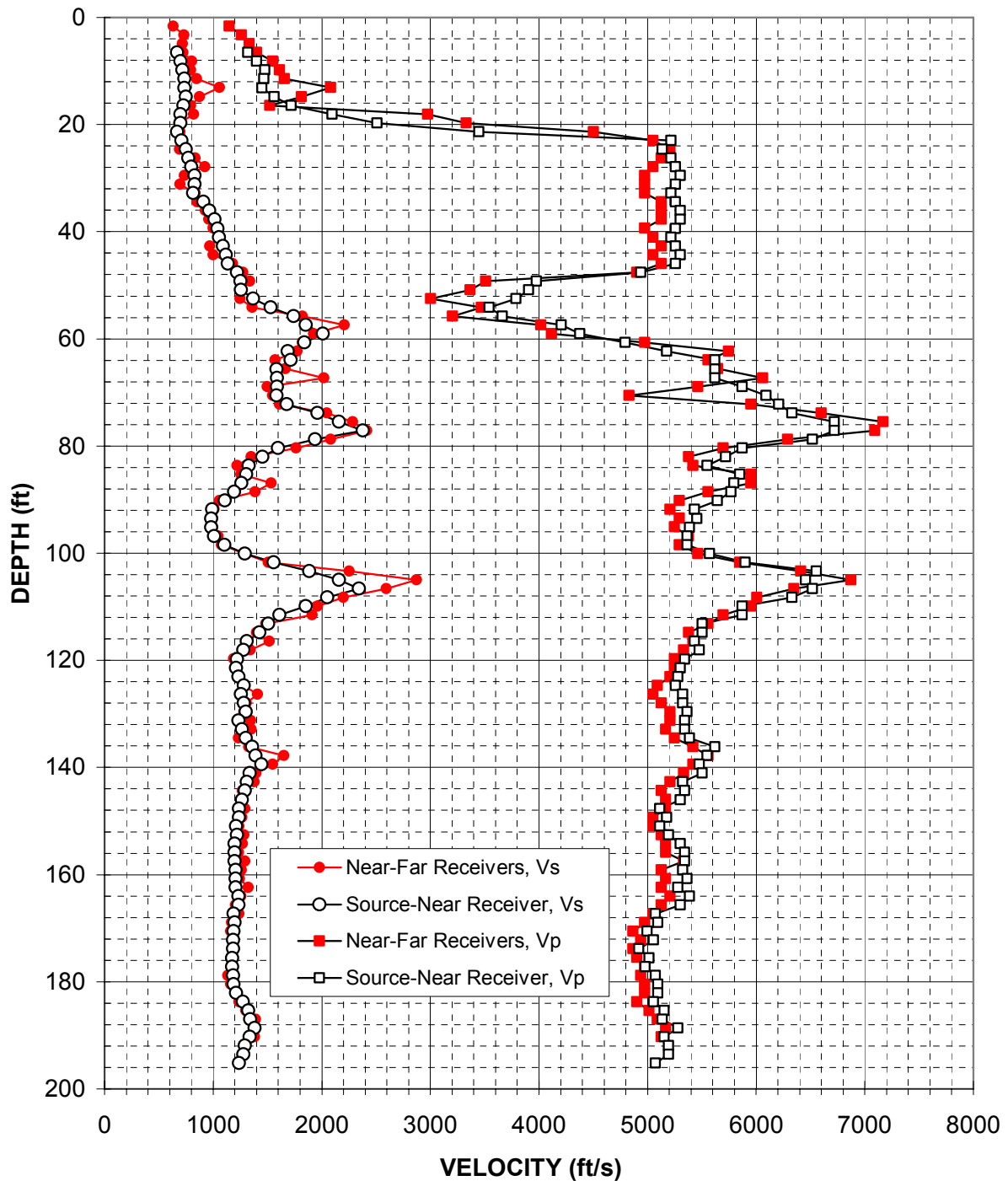


Figure A-5. Boring B-318, R1 - R2 high resolution analysis
 and S - R1 quality assurance analysis P- and S_H -wave data

Depth (feet)	V _s (feet/sec)	V _p (feet/sec)
6.6	670	1320
8.2	700	1400
9.8	720	1480
11.5	740	1470
13.1	740	1450
14.8	750	1560
16.4	730	1720
18.0	700	2100
19.7	700	2510
21.3	670	3450
23.0	710	5220
24.6	750	5130
26.3	770	5220
27.9	800	5260
29.5	830	5300
31.2	830	5260
32.8	820	5220
34.5	910	5260
36.1	960	5300
37.7	1020	5300
39.4	1040	5260
41.0	1060	5220
42.7	1090	5260
44.3	1120	5300
45.9	1140	5260
47.6	1220	4940
49.2	1250	3980
50.9	1260	3900
52.5	1370	3790
54.1	1530	3540
55.8	1740	3660
57.4	1850	4210
59.1	2010	4380
60.7	1840	4790
62.3	1690	5170
64.0	1720	5620
65.6	1580	5620
67.3	1590	5620
68.9	1590	5870
70.5	1580	6090
72.2	1680	6210
73.8	1960	6330
75.5	2160	6720
77.1	2380	6720
78.7	1940	6520
80.4	1600	5870
82.0	1460	5720
83.7	1330	5550
85.3	1310	5850
86.9	1260	5800

Depth (feet)	V _s (feet/sec)	V _p (feet/sec)
88.6	1190	5770
90.2	1110	5650
91.9	990	5430
93.5	980	5460
95.1	980	5390
96.8	1010	5370
98.4	1110	5370
100.1	1290	5570
101.7	1560	5900
103.4	1880	6550
105.0	2160	6460
106.6	2350	6520
108.3	2050	6330
109.9	1850	5870
111.6	1610	5870
113.2	1510	5500
114.8	1430	5500
116.5	1310	5430
118.1	1280	5480
119.8	1220	5340
121.4	1210	5300
123.0	1230	5280
124.7	1290	5260
126.3	1260	5320
128.0	1290	5320
129.6	1300	5370
131.2	1230	5340
132.9	1270	5340
134.5	1300	5390
136.2	1360	5620
137.8	1390	5550
139.4	1450	5480
141.1	1340	5500
142.7	1310	5320
144.4	1290	5340
146.0	1270	5300
147.6	1240	5110
149.3	1240	5170
150.9	1210	5110
152.6	1220	5200
154.2	1200	5300
155.8	1200	5340
157.5	1200	5340
159.1	1210	5320
160.8	1210	5370
162.4	1210	5280
164.0	1230	5390
165.7	1230	5300
167.3	1190	5070
169.0	1200	5090

Depth (feet)	V _s (feet/sec)	V _p (feet/sec)
170.6	1190	5000
172.2	1180	5050
173.9	1180	4920
175.5	1180	5020
177.2	1180	4980
178.8	1180	5070
180.4	1190	5090
182.1	1210	5090
183.7	1270	5050
185.4	1320	5150
187.0	1340	5130
188.7	1380	5280
190.3	1340	5150
191.9	1290	5200
193.6	1280	5200
195.2	1240	5070

Table A-5. Boring B-318, S - R1 quality assurance analysis P- and S_H-wave data

CCNPP COLA Borehole B-323 velocity data
Source to Receiver and Receiver to Receiver Analysis

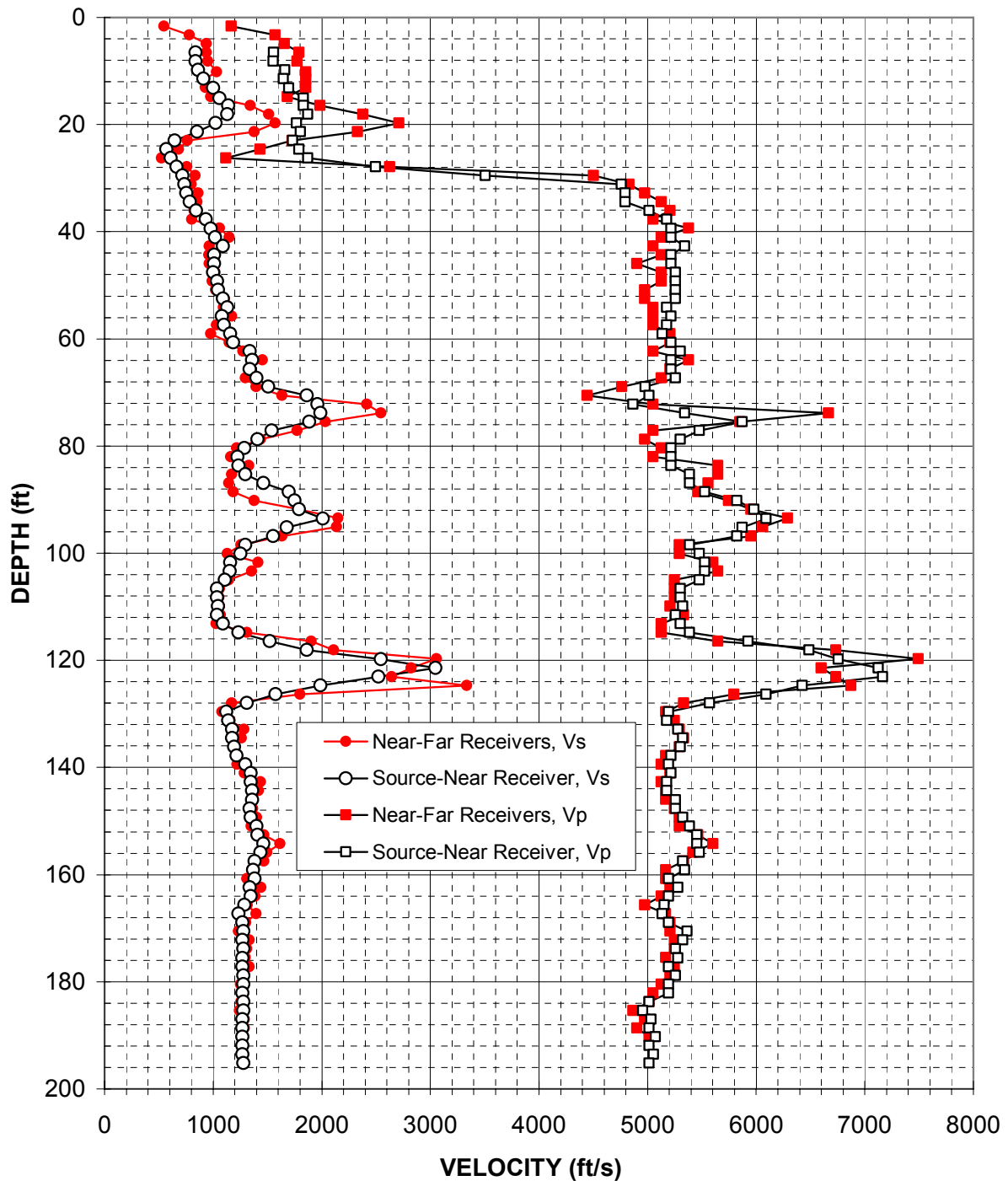


Figure A-6. Boring B-323, R1 - R2 high resolution analysis
 and S - R1 quality assurance analysis P- and S_H-wave data

Depth (feet)	V _s (feet/sec)	V _p (feet/sec)
6.6	840	1560
8.2	840	1550
9.8	860	1660
11.5	910	1650
13.1	1000	1700
15.1	1060	1830
16.4	1140	1830
18.0	1130	1870
19.7	1030	1770
21.3	850	1810
23.0	650	1730
24.6	570	1790
26.3	610	1870
27.9	660	2500
29.5	720	3510
31.2	740	4760
32.8	760	4790
34.5	790	4790
36.1	840	5020
37.7	930	5170
39.4	980	5220
41.0	1020	5220
42.7	1090	5340
44.3	1010	5220
45.9	1010	5220
47.6	1000	5260
49.2	1040	5260
50.9	1040	5260
52.5	1090	5260
54.1	1130	5170
55.8	1080	5220
57.4	1100	5170
59.1	1160	5130
60.7	1190	5220
62.3	1340	5300
64.0	1360	5220
65.6	1340	5220
67.3	1400	5260
68.9	1510	4980
70.5	1860	5020
72.2	1960	4870
73.8	1990	5340
75.5	1880	5870
77.1	1540	5480
78.7	1410	5300
80.4	1290	5220
82.0	1230	5220
83.7	1230	5220
85.3	1300	5390
86.9	1460	5390

Depth (feet)	V _s (feet/sec)	V _p (feet/sec)
88.6	1700	5530
90.2	1750	5820
91.9	1790	5980
93.5	2010	6090
95.1	1680	5870
96.8	1550	5820
98.4	1300	5390
100.1	1250	5480
101.7	1160	5530
103.4	1150	5530
105.0	1110	5480
106.6	1040	5300
108.3	1040	5300
109.9	1040	5320
111.6	1040	5260
113.2	1090	5300
114.8	1230	5390
116.5	1520	5930
118.1	1860	6490
119.8	2550	6760
121.4	3050	7130
123.0	2520	7160
124.7	1990	6420
126.3	1570	6090
128.0	1310	5570
129.6	1120	5200
131.2	1140	5170
132.9	1180	5280
134.5	1180	5320
136.2	1190	5300
137.8	1220	5220
139.4	1300	5200
141.1	1350	5220
142.7	1350	5170
144.4	1360	5170
146.0	1360	5260
147.6	1340	5260
149.3	1350	5320
150.9	1400	5390
152.6	1410	5460
154.2	1460	5460
155.8	1440	5480
157.5	1380	5320
159.1	1370	5340
160.8	1380	5200
162.4	1340	5280
164.0	1350	5200
165.7	1290	5150
167.3	1230	5130
169.0	1270	5200

Depth (feet)	V _s (feet/sec)	V _p (feet/sec)
170.6	1280	5370
172.2	1270	5320
173.9	1280	5260
175.5	1270	5280
177.2	1270	5200
178.8	1280	5260
180.4	1280	5200
182.1	1270	5200
183.7	1280	5020
185.4	1280	4960
187.0	1270	5030
188.7	1270	5020
190.3	1270	5070
191.9	1270	5020
193.6	1270	5050
195.2	1280	5020

Table A-6. Boring B-323, S - R1 quality assurance analysis P- and S_H-wave data

CCNPP COLA Borehole B-401 velocity data
Source to Receiver and Receiver to Receiver Analysis

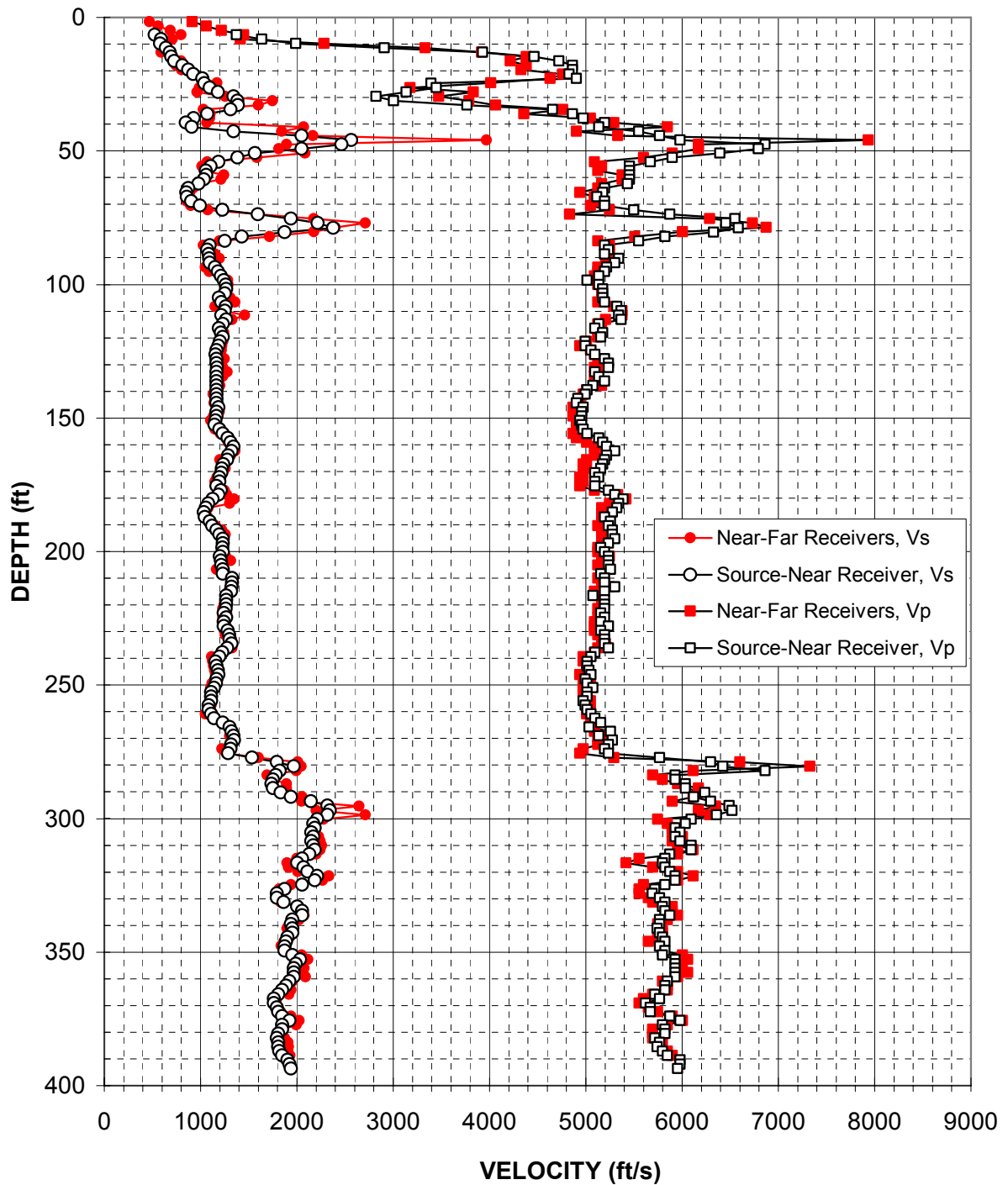


Figure A-7. Boring B-401, R1 - R2 high resolution analysis
 and S - R1 quality assurance analysis P- and S_H -wave data

Depth (feet)	V _s (feet/sec)	V _p (feet/sec)	Depth (feet)	V _s (feet/sec)	V _p (feet/sec)	Depth (feet)	V _s (feet/sec)	V _p (feet/sec)
6.6	530	1380	88.6	1090	5200	170.6	1220	5090
8.2	590	1640	90.2	1090	5340	172.2	1200	5130
9.8	580	1990	91.9	1100	5300	173.9	1200	5090
11.5	640	2910	93.5	1150	5220	175.5	1160	5090
13.1	680	3930	95.1	1180	5200	177.2	1210	5240
14.8	700	4470	96.8	1210	5130	178.8	1190	5300
16.4	730	4720	98.4	1240	5020	180.4	1130	5390
18.0	810	4870	100.1	1260	5130	182.1	1080	5340
19.7	870	4870	101.7	1270	5170	183.7	1060	5320
21.3	930	4830	103.4	1250	5170	185.4	1030	5280
23.0	1020	4900	105.0	1190	5170	187.0	1040	5200
24.6	1040	3400	106.6	1220	5200	188.7	1090	5260
26.3	1100	3450	108.3	1260	5320	190.3	1120	5240
27.9	1180	3130	109.9	1250	5370	191.9	1170	5280
29.5	1340	2820	111.6	1220	5340	193.6	1200	5280
31.2	1380	3000	113.2	1270	5370	195.2	1230	5300
32.8	1390	3770	114.8	1230	5130	196.9	1230	5240
34.5	1310	4660	116.5	1190	5090	198.5	1230	5150
36.1	1070	4870	118.1	1210	5170	200.1	1230	5200
37.7	930	4980	119.8	1230	5150	201.8	1200	5240
39.4	850	5200	121.4	1200	5000	203.4	1210	5240
41.0	910	5130	123.0	1190	5000	205.1	1220	5240
42.7	1340	5550	124.7	1160	5050	206.7	1230	5260
44.3	2050	5770	126.3	1160	5090	208.3	1230	5150
45.9	2570	5980	128.0	1170	5200	210.0	1330	5200
47.6	2470	6860	129.6	1170	5240	211.6	1330	5200
49.2	2050	6790	131.2	1170	5240	213.3	1330	5300
50.9	1570	6390	132.9	1170	5090	214.9	1320	5200
52.5	1380	5900	134.5	1170	5130	216.5	1270	5070
54.1	1190	5670	136.2	1170	5200	218.2	1270	5200
55.8	1110	5460	137.8	1170	5070	219.8	1270	5200
57.4	1060	5460	139.4	1160	5020	221.5	1260	5200
59.1	1060	5460	141.1	1170	5000	223.1	1240	5150
60.7	1030	5460	142.7	1170	4920	224.7	1270	5200
62.3	980	5430	144.4	1170	4900	226.4	1240	5150
64.0	870	5200	146.0	1190	4980	228.0	1240	5240
65.6	860	5170	147.6	1170	4960	229.7	1280	5150
67.3	860	5110	149.3	1170	4960	231.3	1300	5200
68.9	900	5200	150.9	1160	4940	232.9	1300	5200
70.5	1000	5200	152.6	1150	4960	234.6	1330	5200
72.2	1230	5500	154.2	1200	4980	236.2	1280	5240
73.8	1600	5870	155.8	1230	5020	237.9	1230	5090
75.5	1940	6550	157.5	1280	5130	239.5	1200	5050
77.1	2220	6460	159.1	1310	5170	241.1	1160	5020
78.7	2380	6590	160.8	1340	5220	242.8	1170	5020
80.4	1870	6330	162.4	1330	5300	244.4	1180	5030
82.0	1430	5820	164.0	1290	5220	246.1	1190	5050
83.7	1250	5550	165.7	1280	5200	247.7	1170	5000
85.3	1100	5200	167.3	1240	5170	249.3	1160	5020
86.9	1070	5240	169.0	1220	5150	251.0	1140	5070

Table A-7. Boring B-401, S - R1 quality assurance analysis P- and S_H-wave data

Depth (feet)	V _s (feet/sec)	V _p (feet/sec)	Depth (feet)	V _s (feet/sec)	V _p (feet/sec)
252.6	1110	5020	334.6	2060	5820
254.3	1110	5020	336.3	2060	5870
255.9	1110	4980	337.9	1950	5770
257.5	1090	5000	339.6	1940	5770
259.2	1090	5020	341.2	1950	5740
260.8	1110	5050	342.9	1950	5770
262.5	1140	5090	344.5	1910	5800
264.1	1230	5150	346.1	1890	5820
265.8	1300	5030	347.8	1870	5770
267.4	1330	5260	349.4	1870	5820
269.0	1340	5130	351.1	1950	5800
270.7	1350	5280	352.7	2040	5930
272.3	1320	5240	354.3	1990	5930
274.0	1310	5200	356.0	1970	5930
275.6	1290	5240	357.6	1970	5930
277.2	1540	5770	359.3	1970	5930
278.9	1790	6300	360.9	1920	5850
280.5	1970	6420	362.5	1890	5820
282.2	1820	6860	364.2	1850	5820
283.8	1780	5930	365.8	1810	5720
285.4	1750	5930	367.5	1760	5770
287.1	1740	6040	369.1	1760	5620
288.7	1750	6040	370.7	1790	5670
290.4	1830	6240	372.4	1810	5670
292.0	1940	6120	374.0	1850	5870
293.6	2140	6300	375.7	1920	5980
295.3	2320	6490	377.3	1850	5800
296.9	2350	6520	378.9	1850	5820
298.6	2320	6360	380.6	1810	5820
300.2	2210	6090	382.2	1790	5720
301.8	2170	6040	383.9	1810	5770
303.5	2190	5930	385.5	1810	5740
305.1	2150	5980	387.1	1820	5800
306.8	2170	5930	388.8	1850	5850
308.4	2150	5980	390.4	1910	5980
310.0	2170	6090	392.1	1920	5980
311.7	2190	6090	393.7	1940	5950
313.3	2130	5870			
315.0	2060	5820			
316.6	2010	5800			
318.2	2070	5820			
319.9	2110	5870			
321.5	2210	5930			
323.2	2190	5930			
324.8	2060	5820			
326.4	1870	5720			
328.1	1790	5690			
329.7	1790	5770			
331.4	1860	5820			
333.0	2010	5800			

Table A-7, continued. Boring B-401, S - R1 quality assurance analysis
P- and S_H-wave data

CCNPP COLA Borehole B-404 velocity data **Source to Receiver and Receiver to Receiver Analysis**

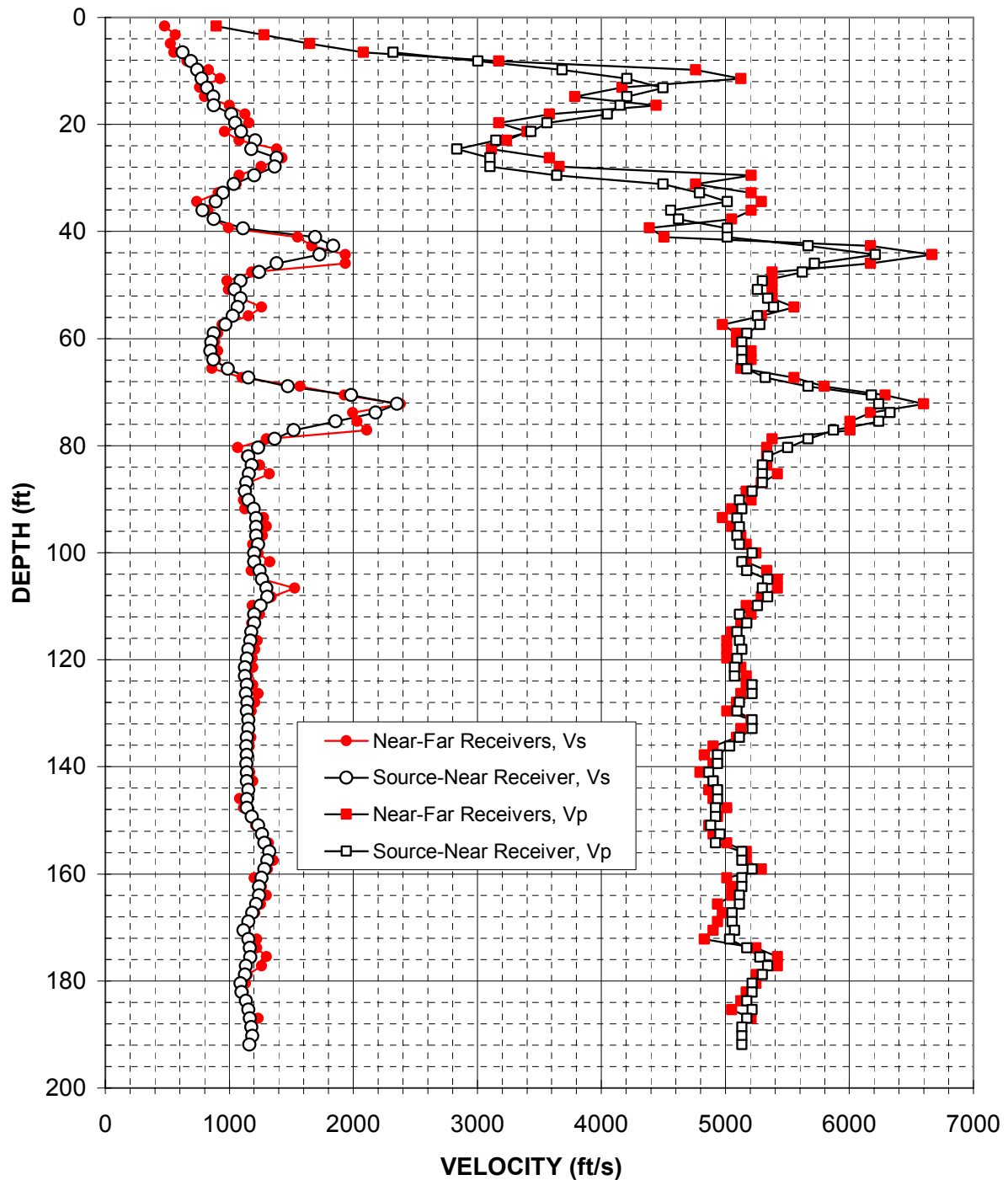


Figure A-8. Boring B-404, R1 - R2 high resolution analysis and S - R1 quality assurance analysis P- and S_H-wave data

Depth (feet)	V _s (feet/sec)	V _p (feet/sec)
6.6	620	2320
8.2	690	3000
9.8	740	3680
11.5	780	4210
13.1	820	4500
14.8	870	4210
16.4	880	4150
18.0	1020	4050
19.7	1050	3560
21.3	1100	3430
23.0	1210	3150
24.6	1180	2830
26.3	1380	3100
27.9	1370	3100
29.5	1200	3640
31.2	1040	4500
32.8	950	4790
34.5	890	5020
36.1	780	4560
37.7	880	4620
39.4	1110	5020
41.0	1690	5020
42.7	1840	5670
44.3	1730	6210
45.9	1380	5720
47.6	1240	5620
49.2	1090	5300
50.9	1040	5260
52.5	1090	5340
54.1	1070	5390
55.8	1030	5260
57.4	970	5280
59.1	880	5170
60.7	850	5130
62.3	850	5130
64.0	870	5130
65.6	990	5170
67.3	1150	5320
68.9	1470	5670
70.5	1980	6180
72.2	2350	6240
73.8	2180	6330
75.5	1860	6240
77.1	1520	5870
78.7	1370	5670
80.4	1230	5500
82.0	1150	5340
83.7	1180	5300
85.3	1160	5300
86.9	1140	5300

Depth (feet)	V _s (feet/sec)	V _p (feet/sec)
88.6	1130	5220
90.2	1160	5110
91.9	1200	5130
93.5	1220	5090
95.1	1220	5110
96.8	1220	5090
98.4	1230	5110
100.1	1200	5220
101.7	1200	5130
103.4	1250	5170
105.0	1270	5340
106.6	1300	5300
108.3	1310	5340
109.9	1250	5260
111.6	1200	5110
113.2	1200	5170
114.8	1180	5090
116.5	1170	5110
118.1	1150	5130
119.8	1140	5090
121.4	1130	5070
123.0	1130	5070
124.7	1140	5220
126.3	1130	5220
128.0	1150	5110
129.6	1140	5090
131.2	1150	5220
132.9	1150	5220
134.5	1140	5110
136.2	1140	5030
137.8	1140	4940
139.4	1140	4940
141.1	1140	4870
142.7	1140	4900
144.4	1150	4940
146.0	1140	4940
147.6	1140	4920
149.3	1180	4920
150.9	1230	4880
152.6	1270	4960
154.2	1290	4920
155.8	1320	5130
157.5	1310	5130
159.1	1290	5220
160.8	1260	5130
162.4	1240	5130
164.0	1240	5110
165.7	1220	5110
167.3	1190	5050
169.0	1150	5050

Depth (feet)	V _s (feet/sec)	V _p (feet/sec)
170.6	1110	5070
172.2	1150	5030
173.9	1170	5170
175.5	1170	5280
177.2	1130	5340
178.8	1130	5300
180.4	1090	5220
182.1	1100	5220
183.7	1130	5170
185.4	1150	5220
187.0	1170	5170
188.7	1180	5130
190.3	1190	5130
191.9	1160	5130

Table A-8. Boring B-404, S - R1 quality assurance analysis P- and S_H-wave data

CCNPP COLA Borehole B-407 velocity data
Source to Receiver and Receiver to Receiver Analysis

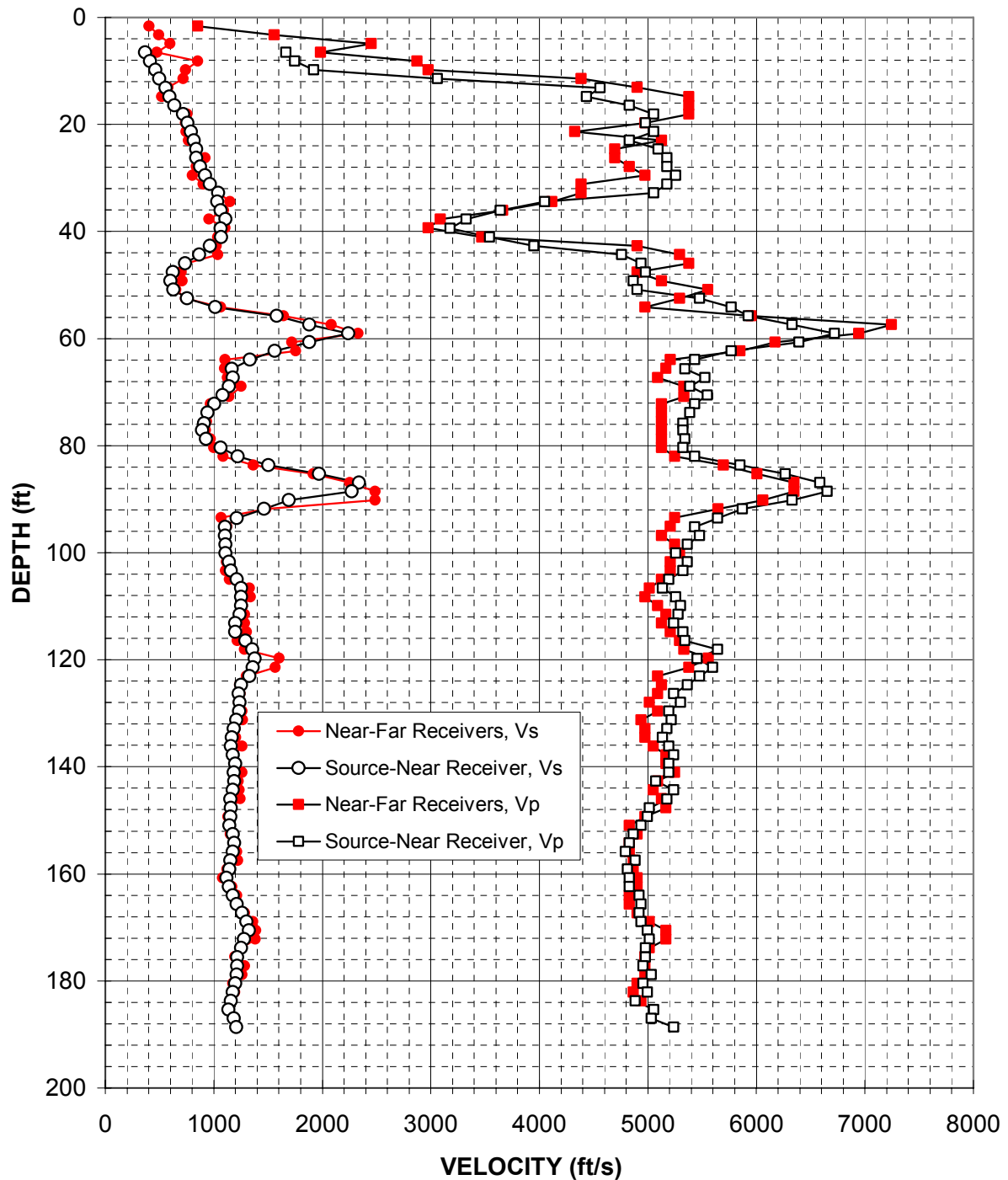


Figure A-9. Boring B-407, R1 - R2 high resolution analysis
 and S - R1 quality assurance analysis P- and S_H -wave data

Depth (feet)	V _s (feet/sec)	V _p (feet/sec)
6.6	370	1670
8.2	410	1750
9.8	460	1920
11.5	500	3060
13.1	560	4560
14.8	590	4440
16.4	640	4830
18.0	720	5050
19.7	760	4980
21.3	790	5050
23.0	820	4830
24.6	840	5090
26.3	840	5170
27.9	880	5170
29.5	920	5260
31.2	960	5170
32.8	1040	5050
34.5	1030	4050
36.1	1060	3640
37.7	1110	3330
39.4	1060	3180
41.0	1070	3540
42.7	960	3950
44.3	870	4760
45.9	740	4940
47.6	630	4980
49.2	600	4870
50.9	630	4900
52.5	760	5480
54.1	1010	5770
55.8	1580	5930
57.4	1880	6330
59.1	2240	6720
60.7	1880	6390
62.3	1560	5770
64.0	1330	5430
65.6	1170	5340
67.3	1170	5530
68.9	1140	5390
70.5	1080	5550
72.2	1010	5430
73.8	940	5390
75.8	910	5320
77.1	890	5320
78.7	930	5340
80.4	1060	5320
82.0	1220	5430
83.7	1510	5850
85.3	1970	6270
86.9	2340	6590

Depth (feet)	V _s (feet/sec)	V _p (feet/sec)
88.6	2270	6650
90.2	1690	6330
91.9	1470	5870
93.5	1210	5650
95.1	1100	5430
96.8	1100	5480
98.4	1110	5370
100.1	1110	5260
101.7	1140	5370
103.4	1160	5320
105.0	1210	5200
106.6	1250	5130
108.3	1250	5260
109.9	1250	5300
111.6	1240	5280
113.2	1200	5240
114.8	1200	5320
116.5	1290	5340
118.1	1360	5650
119.8	1380	5460
121.4	1360	5600
123.0	1330	5480
124.7	1250	5370
126.3	1230	5240
128.0	1240	5300
129.6	1230	5200
131.2	1210	5220
132.9	1180	5170
134.5	1170	5130
136.2	1160	5200
137.8	1170	5240
139.4	1200	5200
141.1	1180	5200
142.7	1190	5070
144.4	1170	5240
146.0	1150	5170
147.6	1160	5020
149.3	1150	5000
150.9	1150	4940
152.6	1170	4870
154.2	1190	4830
155.8	1170	4790
157.5	1150	4880
159.1	1150	4810
160.8	1120	4830
162.4	1140	4830
164.0	1170	4920
165.7	1210	4940
167.3	1260	4920
169.0	1300	4940

Depth (feet)	V _s (feet/sec)	V _p (feet/sec)
170.6	1320	5000
172.2	1280	5020
173.9	1250	4980
175.5	1220	4980
177.2	1220	4960
178.8	1210	5030
180.4	1200	4960
182.1	1170	5000
183.7	1160	4880
185.4	1140	5050
187.0	1180	5030
188.7	1210	5240

Table A-9. Boring B-407, S - R1 quality assurance analysis P- and S_H-wave data

**CCNPP COLA Borehole B-418 velocity data
Source to Receiver and Receiver to Receiver Analysis**

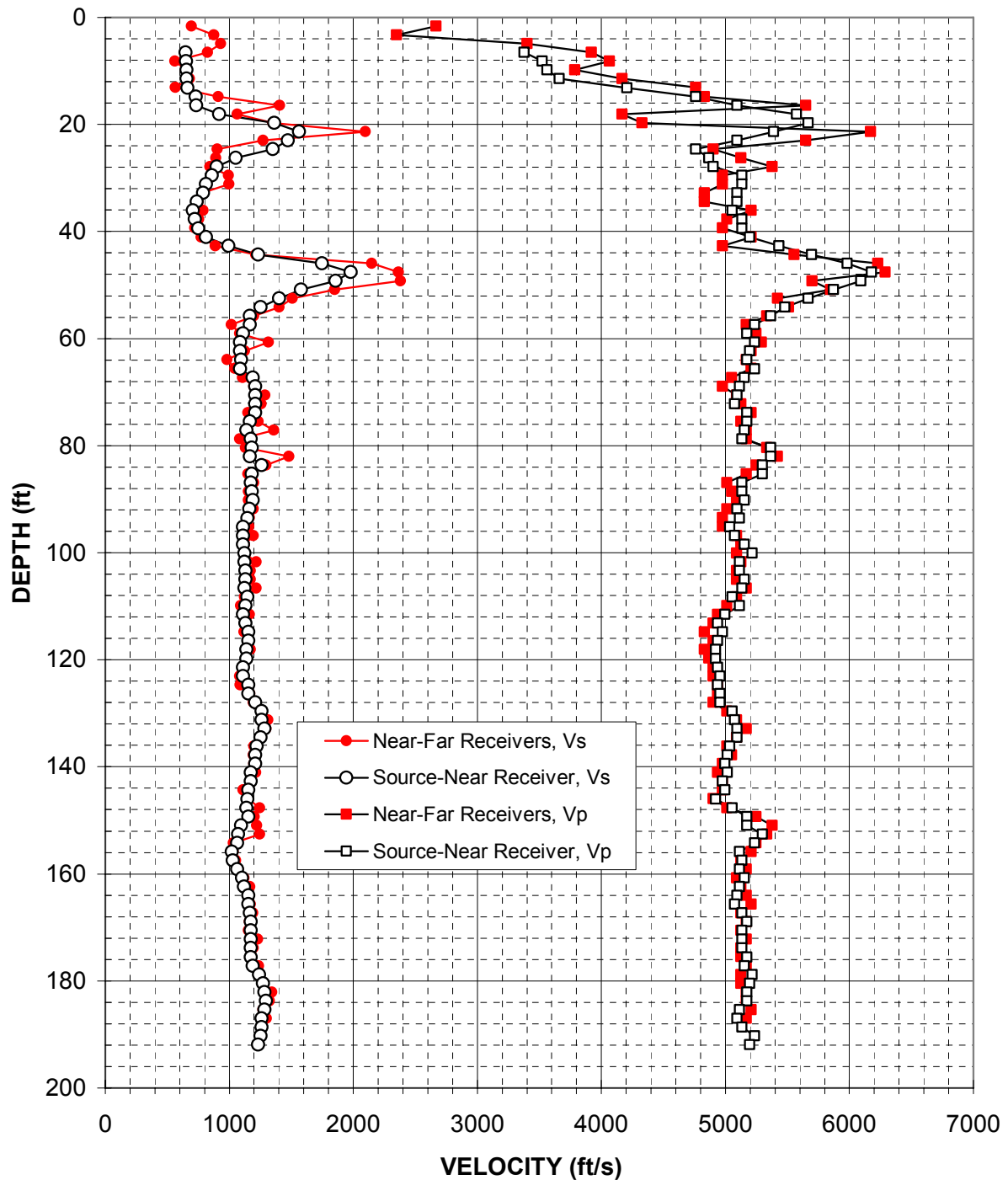


Figure A-10. Boring B-418, R1 - R2 high resolution analysis
and S - R1 quality assurance analysis P- and S_H -wave data

Depth (feet)	V _s (feet/sec)	V _p (feet/sec)
6.6	650	3380
8.2	650	3520
9.8	660	3560
11.5	660	3660
13.1	660	4210
14.8	730	4760
16.4	740	5090
18.0	920	5570
19.7	1360	5670
21.3	1560	5390
23.0	1470	5090
24.6	1350	4760
26.3	1050	4870
27.9	900	4900
29.5	860	5130
31.2	810	5130
32.8	790	5090
34.5	740	5090
36.1	710	5050
37.7	720	5130
39.4	750	5130
41.0	810	5200
42.7	1000	5430
44.3	1230	5690
45.9	1750	5980
47.6	1980	6180
49.2	1860	6090
50.9	1580	5870
52.5	1400	5670
54.1	1250	5480
55.8	1170	5370
57.4	1170	5240
59.1	1110	5170
60.7	1090	5240
62.3	1090	5200
64.0	1100	5170
65.6	1090	5240
67.3	1190	5150
68.9	1210	5110
70.5	1210	5090
72.2	1210	5070
73.8	1210	5170
75.5	1170	5170
77.1	1140	5150
78.7	1170	5130
80.4	1180	5370
82.0	1170	5370
83.7	1260	5300
85.3	1180	5300
86.9	1170	5130

Depth (feet)	V _s (feet/sec)	V _p (feet/sec)
88.6	1180	5130
90.2	1190	5150
91.9	1160	5090
93.5	1150	5110
95.1	1110	5030
96.8	1110	5070
98.4	1110	5150
100.1	1120	5220
101.7	1120	5110
103.4	1130	5110
105.0	1130	5150
106.6	1120	5130
108.3	1150	5050
109.9	1130	5110
111.6	1110	5000
113.2	1130	4940
114.8	1150	4980
116.5	1150	4940
118.1	1140	4920
119.8	1140	4920
121.4	1110	4940
123.0	1110	4960
124.7	1150	4940
126.3	1150	4960
128.0	1210	4960
129.6	1260	5050
131.2	1260	5070
132.9	1290	5090
134.5	1250	5090
136.2	1220	5030
137.8	1210	5020
139.4	1210	5000
141.1	1170	5020
142.7	1170	4980
144.4	1150	5000
146.0	1150	4920
147.6	1140	5050
149.3	1150	5170
150.9	1100	5170
152.6	1070	5300
154.2	1060	5240
155.8	1020	5110
157.5	1030	5130
159.1	1060	5110
160.8	1100	5150
162.4	1120	5110
164.0	1150	5090
165.7	1150	5070
167.3	1170	5130
169.0	1170	5170

Depth (feet)	V _s (feet/sec)	V _p (feet/sec)
170.6	1170	5130
172.2	1170	5130
173.9	1170	5130
175.5	1170	5170
177.2	1190	5150
178.8	1240	5220
180.4	1270	5200
182.1	1290	5170
183.7	1300	5170
185.4	1290	5110
187.0	1260	5090
188.7	1260	5130
190.3	1250	5240
191.9	1230	5200

Table A-10. Boring B-418, S - R1 quality assurance analysis P- and S_H-wave data

CCNPP COLA Borehole B-423 velocity data
Source to Receiver and Receiver to Receiver Analysis

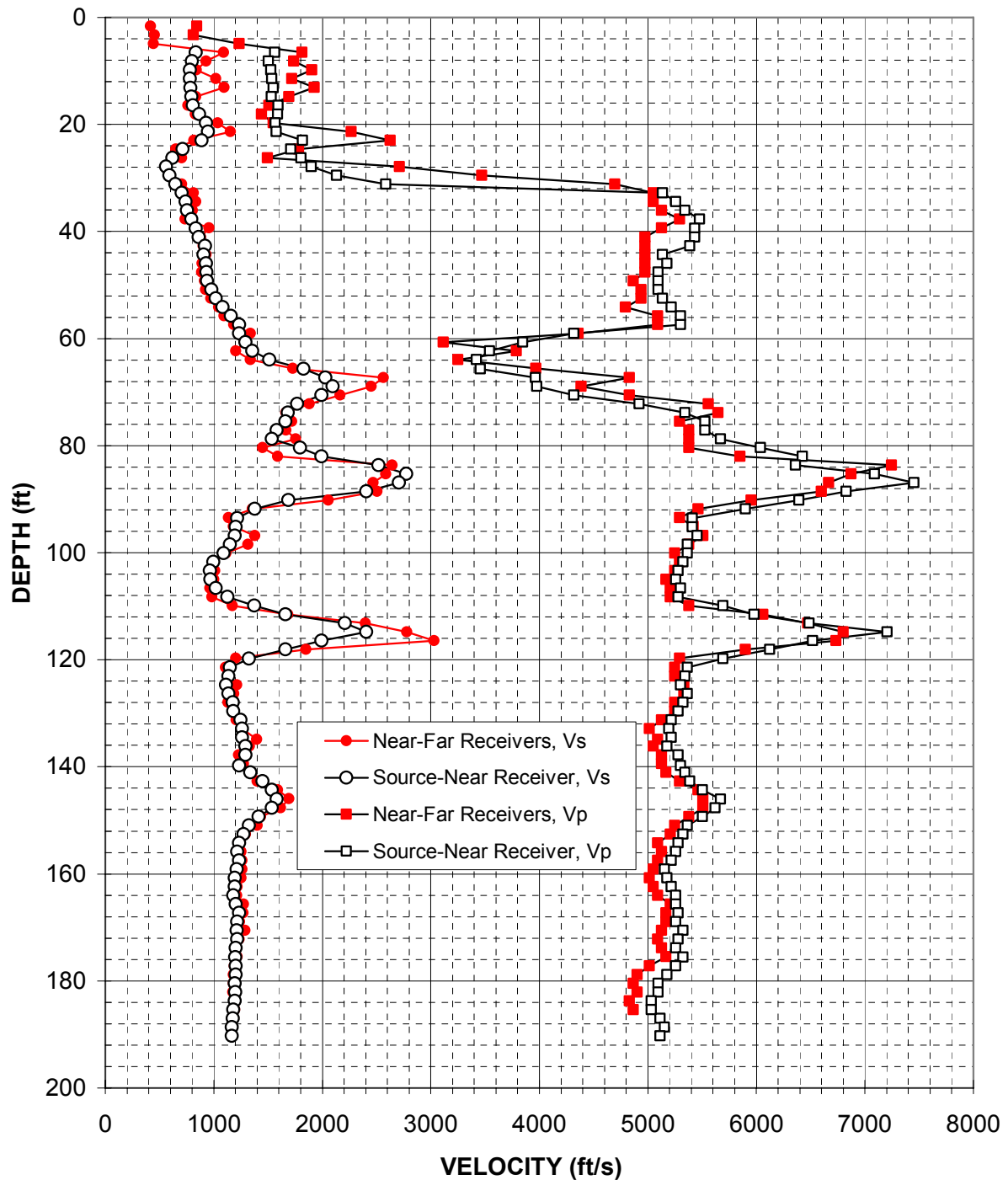


Figure A-11. Boring B-423, R1 - R2 high resolution analysis
 and S - R1 quality assurance analysis P- and S_H -wave data

Depth (feet)	V _s (feet/sec)	V _p (feet/sec)
6.6	830	1560
8.2	800	1510
9.8	780	1530
11.5	780	1530
13.1	780	1550
14.8	790	1530
16.4	810	1590
18.0	870	1590
19.7	930	1570
21.3	950	1570
23.0	890	1820
24.6	720	1710
26.3	620	1810
27.9	560	1900
29.5	590	2130
31.2	650	2590
32.8	710	5130
34.5	740	5260
36.1	760	5340
37.7	800	5480
39.4	830	5430
41.0	860	5430
42.7	920	5390
44.3	910	5130
45.9	930	5170
47.6	940	5090
49.2	940	5090
50.9	980	5090
52.5	1020	5130
54.1	1080	5220
55.8	1160	5300
57.4	1230	5300
59.1	1230	4320
60.7	1290	3850
62.3	1360	3540
64.0	1510	3420
65.6	1830	3460
67.3	2030	3960
68.9	2100	3980
70.5	1990	4320
72.2	1770	4920
73.8	1680	5340
75.5	1660	5530
77.1	1580	5530
78.7	1530	5670
80.4	1800	6040
82.0	1990	6420
83.7	2520	6360
85.3	2770	7090
86.9	2710	7450

Depth (feet)	V _s (feet/sec)	V _p (feet/sec)
88.6	2410	6830
90.2	1690	6390
91.9	1380	5900
93.5	1220	5410
95.1	1210	5410
96.8	1190	5460
98.4	1150	5370
100.1	1090	5370
101.7	1000	5320
103.4	960	5280
105.0	970	5260
106.6	1020	5300
108.3	1130	5280
109.9	1370	5690
111.6	1660	5980
113.2	2210	6490
114.8	2410	7200
116.5	1990	6520
118.1	1660	6120
119.8	1320	5690
121.4	1150	5370
123.0	1140	5340
124.7	1110	5300
126.3	1140	5370
128.0	1170	5320
129.6	1180	5280
131.2	1250	5220
132.9	1260	5200
134.5	1260	5220
136.2	1290	5170
137.8	1290	5280
139.8	1230	5300
141.1	1340	5340
142.7	1450	5390
144.4	1530	5500
146.0	1580	5670
147.6	1530	5620
149.3	1410	5500
150.9	1320	5370
152.6	1280	5320
154.2	1230	5280
155.8	1220	5260
157.5	1230	5220
159.1	1210	5150
160.8	1190	5170
162.4	1190	5220
164.0	1180	5260
165.7	1210	5260
167.3	1230	5280
169.0	1220	5260

Depth (feet)	V _s (feet/sec)	V _p (feet/sec)
170.6	1210	5320
172.2	1220	5280
173.9	1210	5260
175.5	1200	5320
177.2	1210	5260
178.8	1210	5170
180.4	1190	5090
182.1	1200	5090
183.7	1190	5030
185.4	1180	5030
187.0	1170	5110
188.7	1170	5150
190.3	1170	5110

Table A-11. Boring B-423, S - R1 quality assurance analysis P- and S_H-wave data

APPENDIX B

**CALIPER, NATURAL GAMMA, RESISTIVITY,
AND SPONTANEOUS POTENTIAL LOGS**



CCNPP COLA

B301ELOGUP02

COMPANY GEOVision
WELL B-301
FIELD
COUNTRY
STATE
COUNTY
LAT.:
LONG.:

OTHER SERVICES

Perm. Da.. Elev
Log. Datum
Drill Datum

KB 0.00
DF 0.00
GL 0.00

DATE	05 Jun 06	21 Oct 05	21 Oct 05
RUN#	4	0	0
TYPE OF LOG	CALIPER		
DEPTH DRILLER	403.00	0.00	0.00
DEPTH LOGGER	403.00	0.00	0.00
LOG DEEPEST	0.00	0.00	0.00
LOG SHALLOW	0.00	0.00	0.00
FLUID IN HOLE	DRILLING MUD		
SALINITY			
DENSITY			
LEVEL			
MAX TEMP °C	0.00	0.00	0.00
RIG TIME			
RECORDED BY	R. STELLER		
WITNESSED BY			

RUN#

BIT RECORD
SIZE FROM TO

CASING RECORD
SIZE WEIGHT FROM TO

4	4.25	0.00	403.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

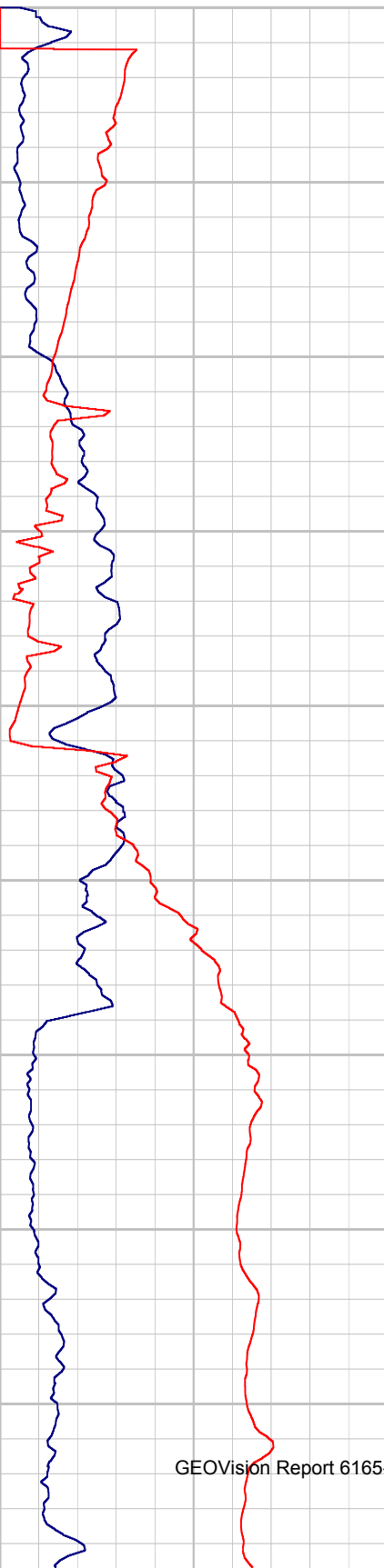
ROBERTSON GEOLOGGING TECHNOLOGY

REMARKS (C:\Data\PS\CC\B-301 5 June 2006 boring geophysics..

11/14/2006

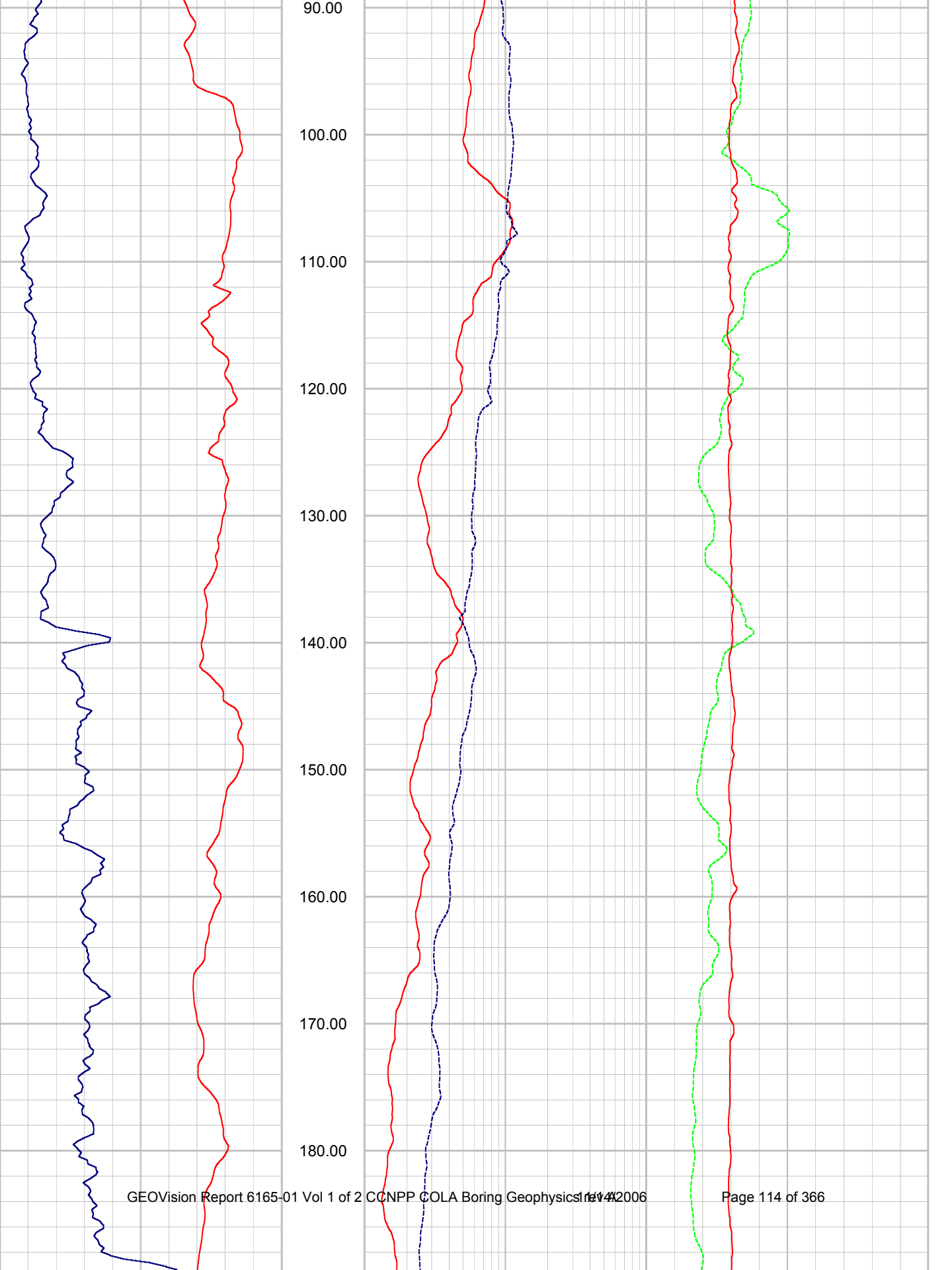
Page 112 of 366

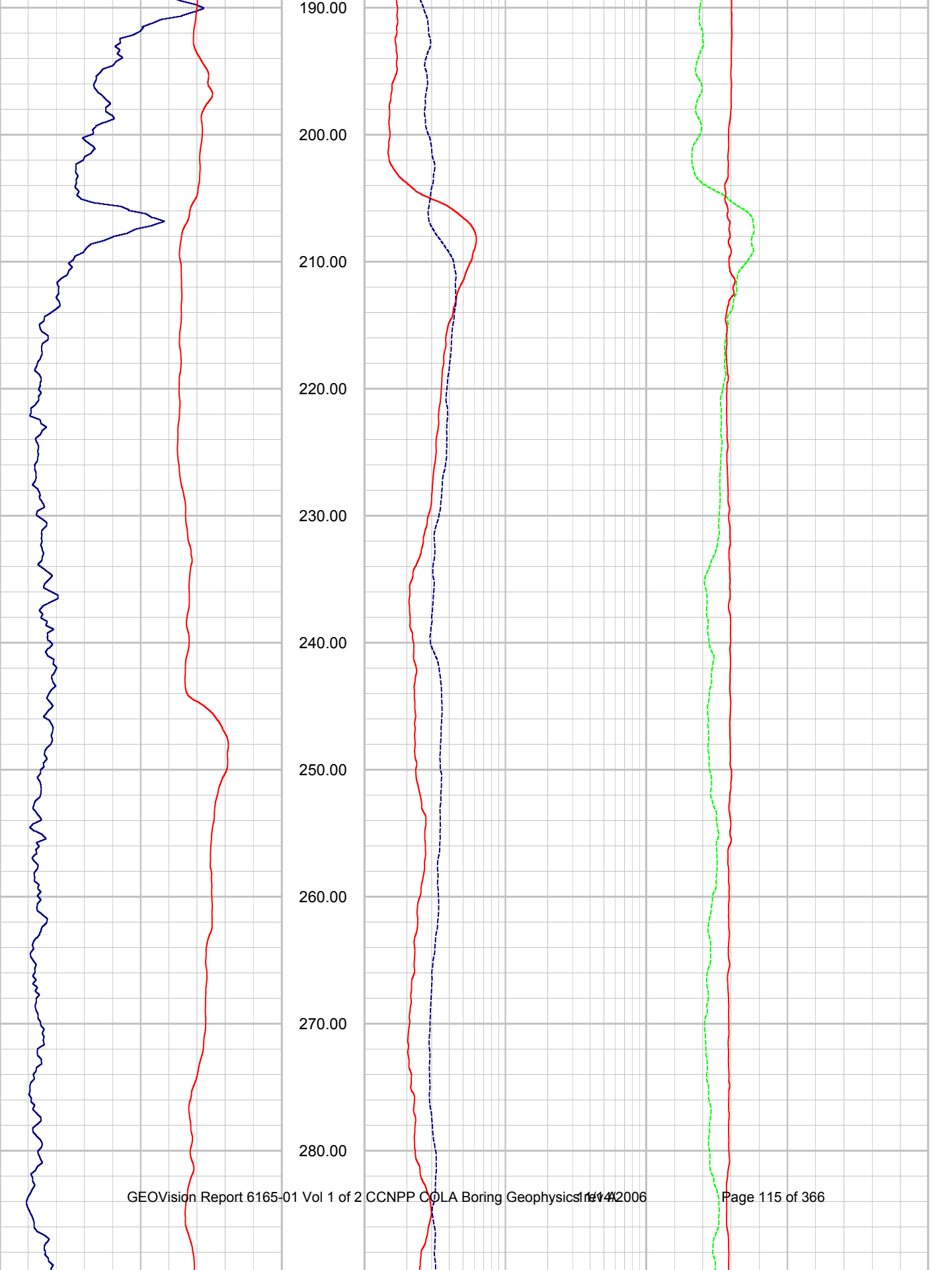
0.00	NGAM CPS	200.00
-200.00	SP mV	200.00

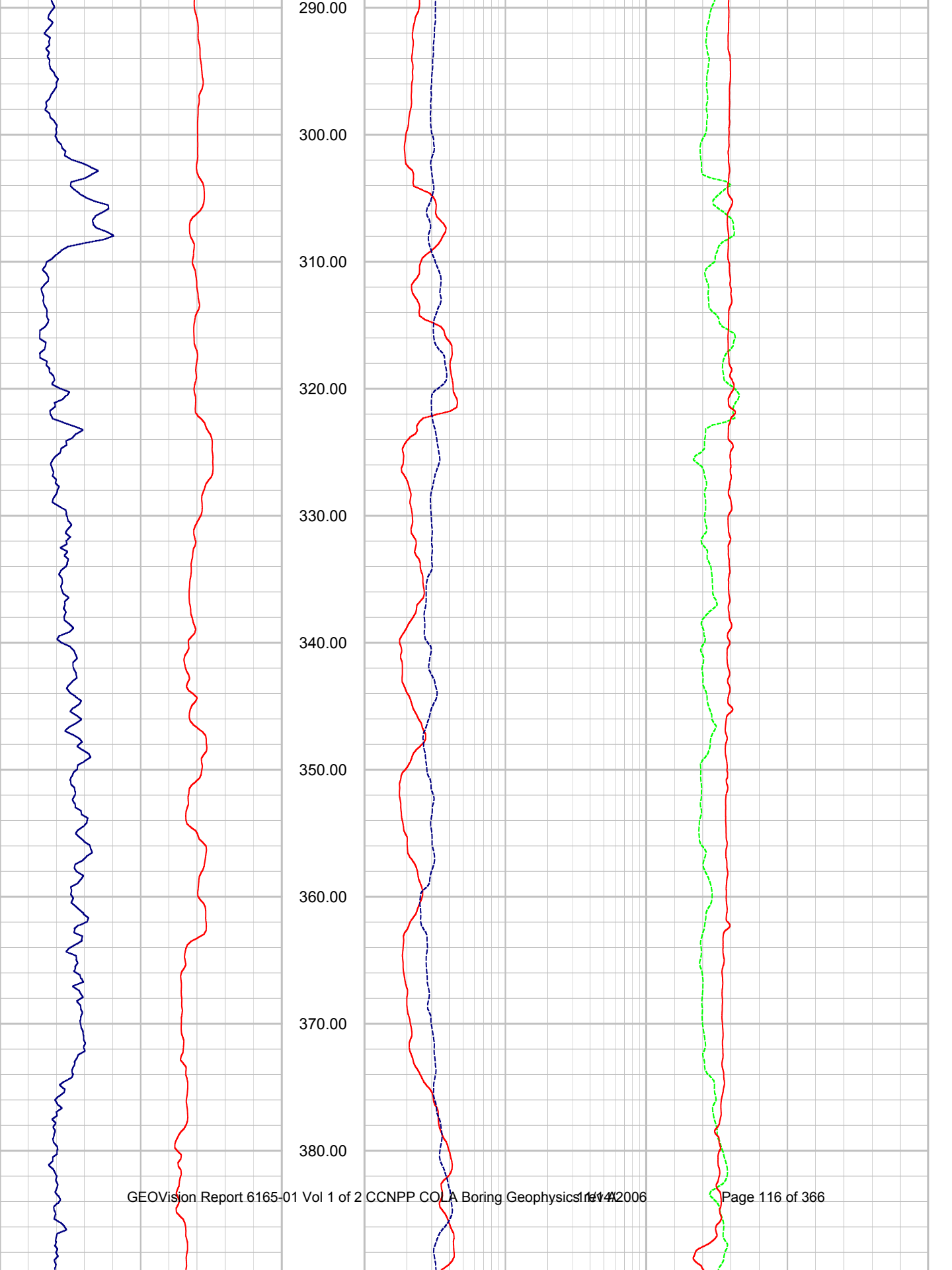


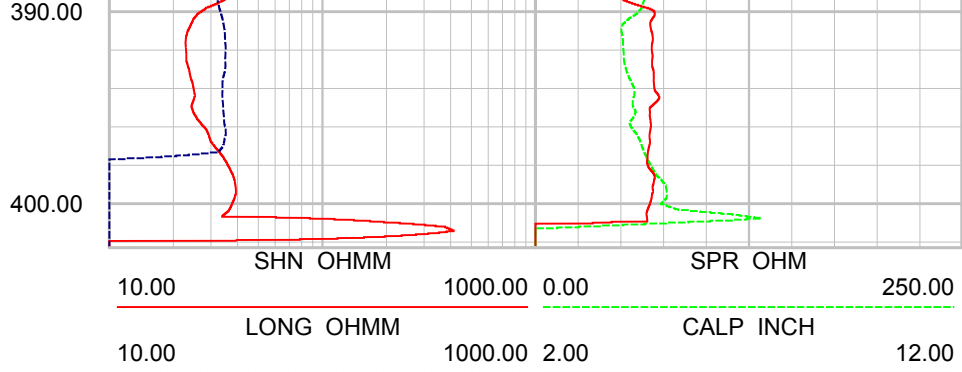
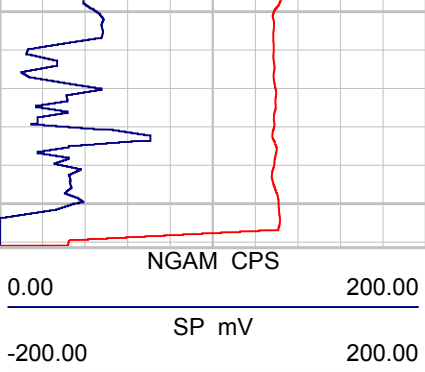
10.00	SHN OHMM	1000.00	0.00	SPR OHM	250.00
10.00	LONG OHMM	1000.00	2.00	CALP INCH	12.00













CCNPP COLA

B304ELOGUP01

COMPANY GEOVision
WELL B-304
FIELD
COUNTRY
STATE
COUNTY
LAT.:
LONG.:

OTHER SERVICES

Perm. Da.. Elev
Log. Datum
Drill Datum

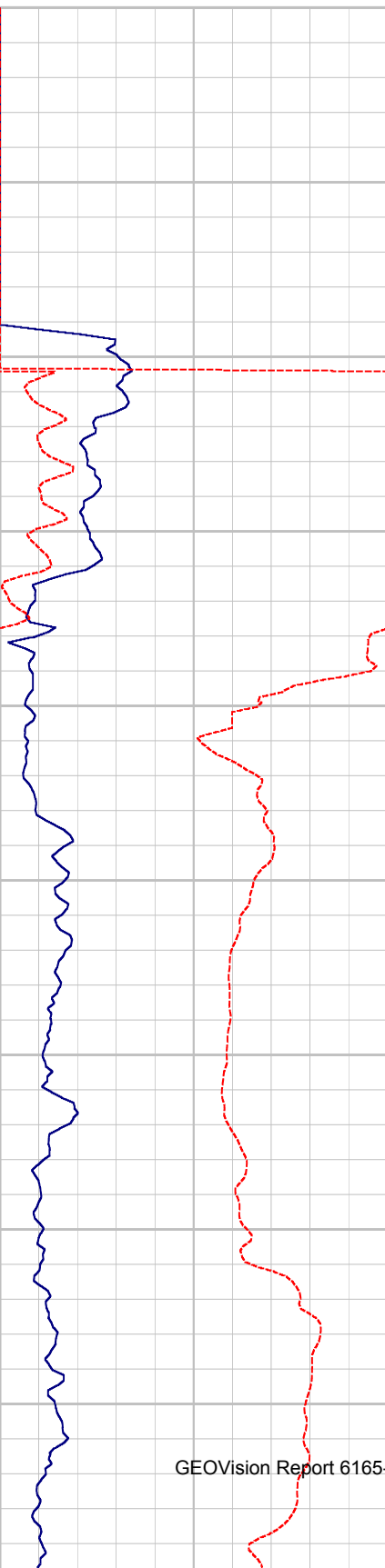
KB 0.00
DF 0.00
GL 0.00

DATE RUN#	01 Jun 06 0	21 Oct 05 0	21 Oct 05 0
TYPE OF LOG			
DEPTH DRILLER	0.00	0.00	0.00
DEPTH LOGGER	0.00	0.00	0.00
LOG DEEPEST	0.00	0.00	0.00
LOG SHALLOW	0.00	0.00	0.00
FLUID IN HOLE			
SALINITY			
DENSITY			
LEVEL			
MAX TEMP °C	0.00	0.00	0.00
RIG TIME			
RECORDED BY			
WITNESSED BY			

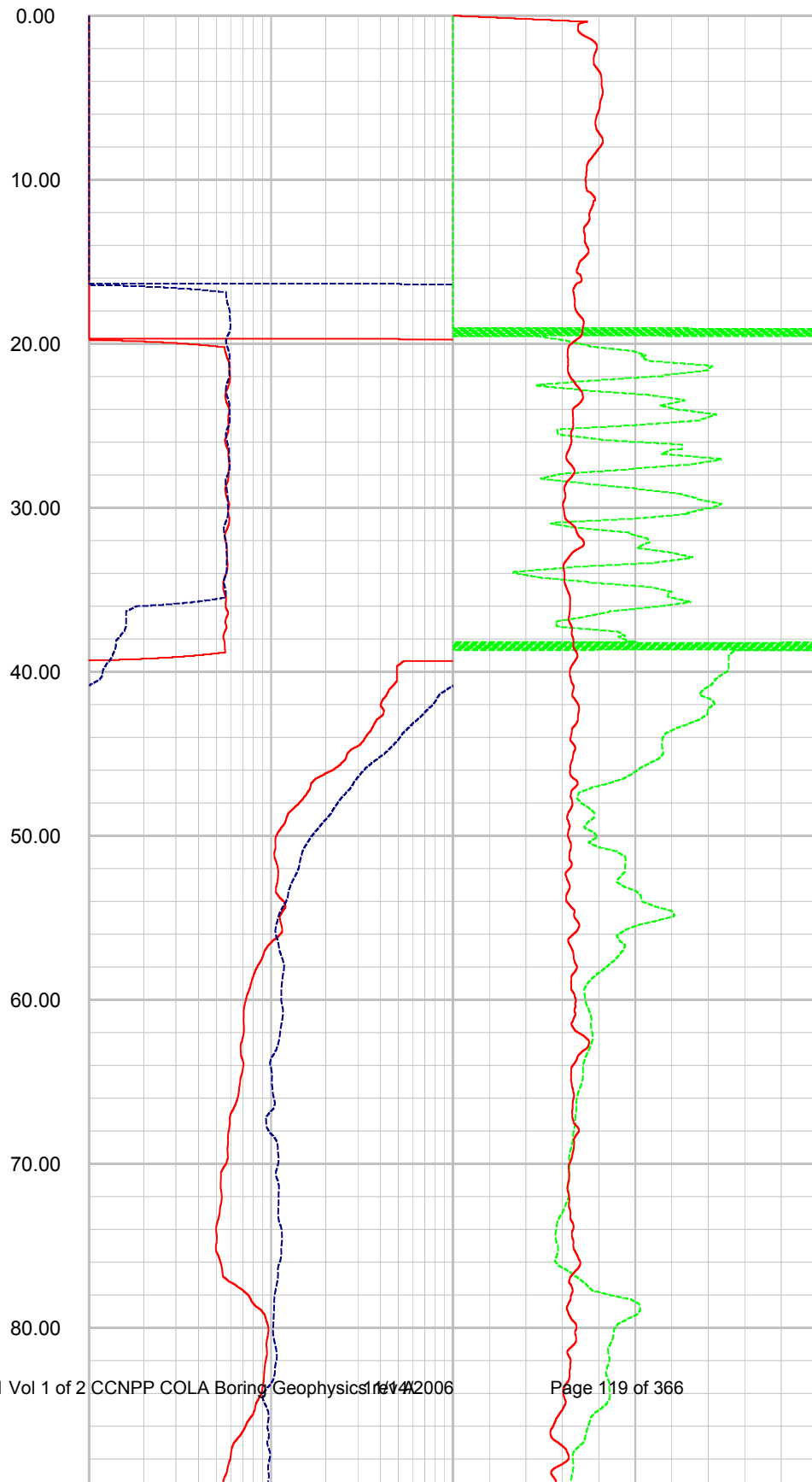
RUN#	BIT RECORD			CASING RECORD			
	SIZE	FROM	TO	SIZE	WEIGHT	FROM	TO
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

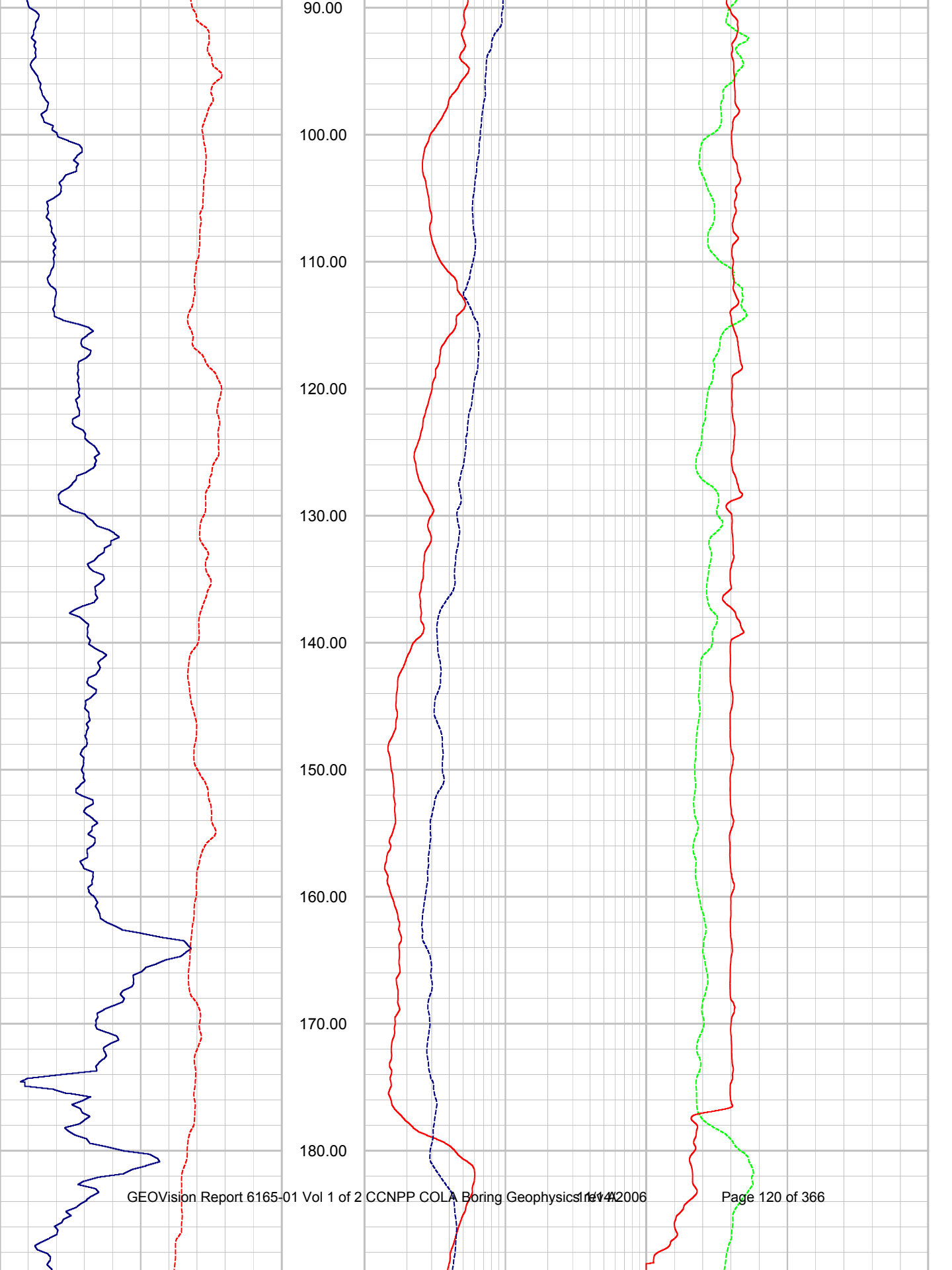
REMARKS (C:\Data\PS\CC\B-304 1-2 June 2006 boring geophysi..

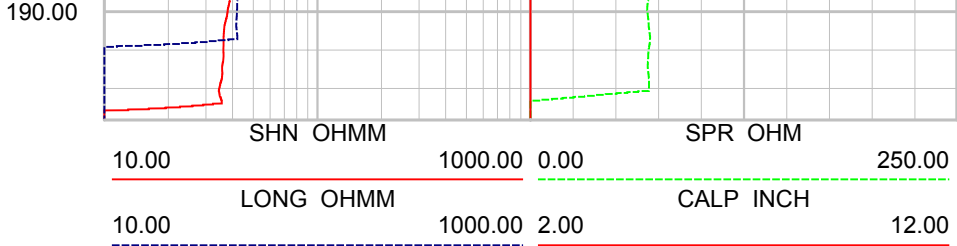
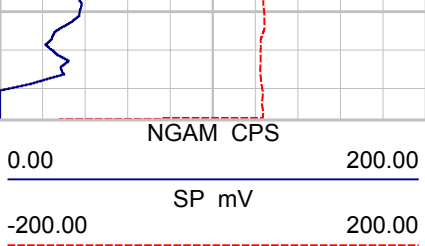
0.00 NGAM CPS 200.00
 -200.00 SP mV 200.00



10.00 SHN OHMM 1000.00 0.00 SPR OHM 250.00
 10.00 LONG OHMM 1000.00 2.00 CALP INCH 12.00









CCNPP COLA

B307ELOGUP01

COMPANY GEOVision
WELL B-307
FIELD
COUNTRY
STATE
COUNTY
LAT.:
LONG.:

OTHER SERVICES

Perm. Da.. Elev
Log. Datum
Drill Datum

KB 0.00
DF 0.00
GL 0.00

DATE	15 Jun 06	21 Oct 05	21 Oct 05
RUN#	5	0	0
TYPE OF LOG	ELOG		
DEPTH DRILLER	200.00	0.00	0.00
DEPTH LOGGER	200.00	0.00	0.00
LOG DEEPEST	200.00	0.00	0.00
LOG SHALLOW	0.00	0.00	0.00
FLUID IN HOLE	DRILLING MUD		
SALINITY			
DENSITY			
LEVEL			
MAX TEMP °C	0.00	0.00	0.00
RIG TIME			
RECORDED BY	R. STELLER		
WITNESSED BY			

RUN#	BIT RECORD			CASING RECORD			
	SIZE	FROM	TO	SIZE	WEIGHT	FROM	TO

5	4.25	0.00	200.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

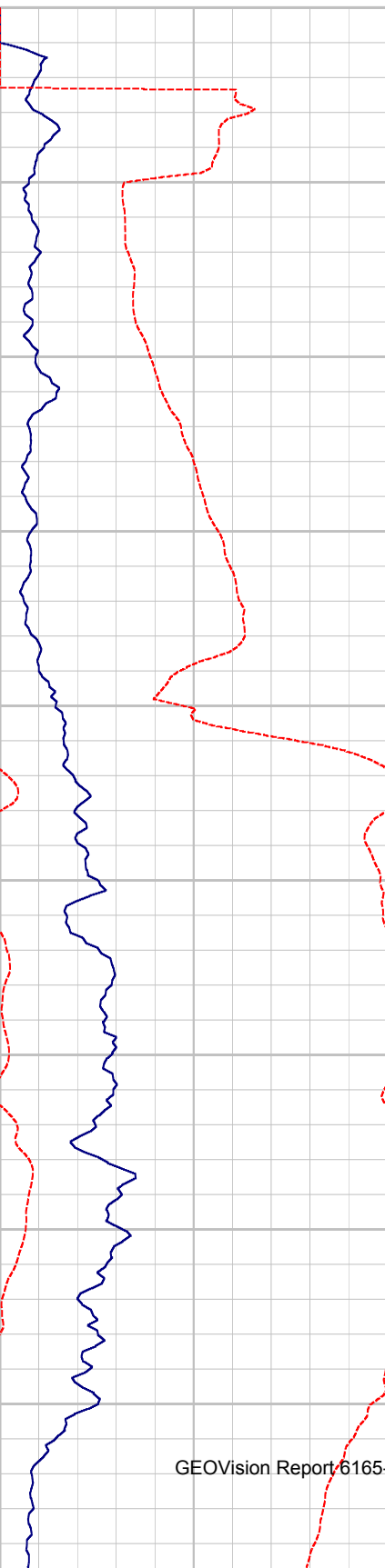
ROBERTSON GEOLOGGING TECHNOLOGY

REMARKS (C:\Data\PS\CC\B-307 15 June 2006 boring geophysic..

11/14/2006

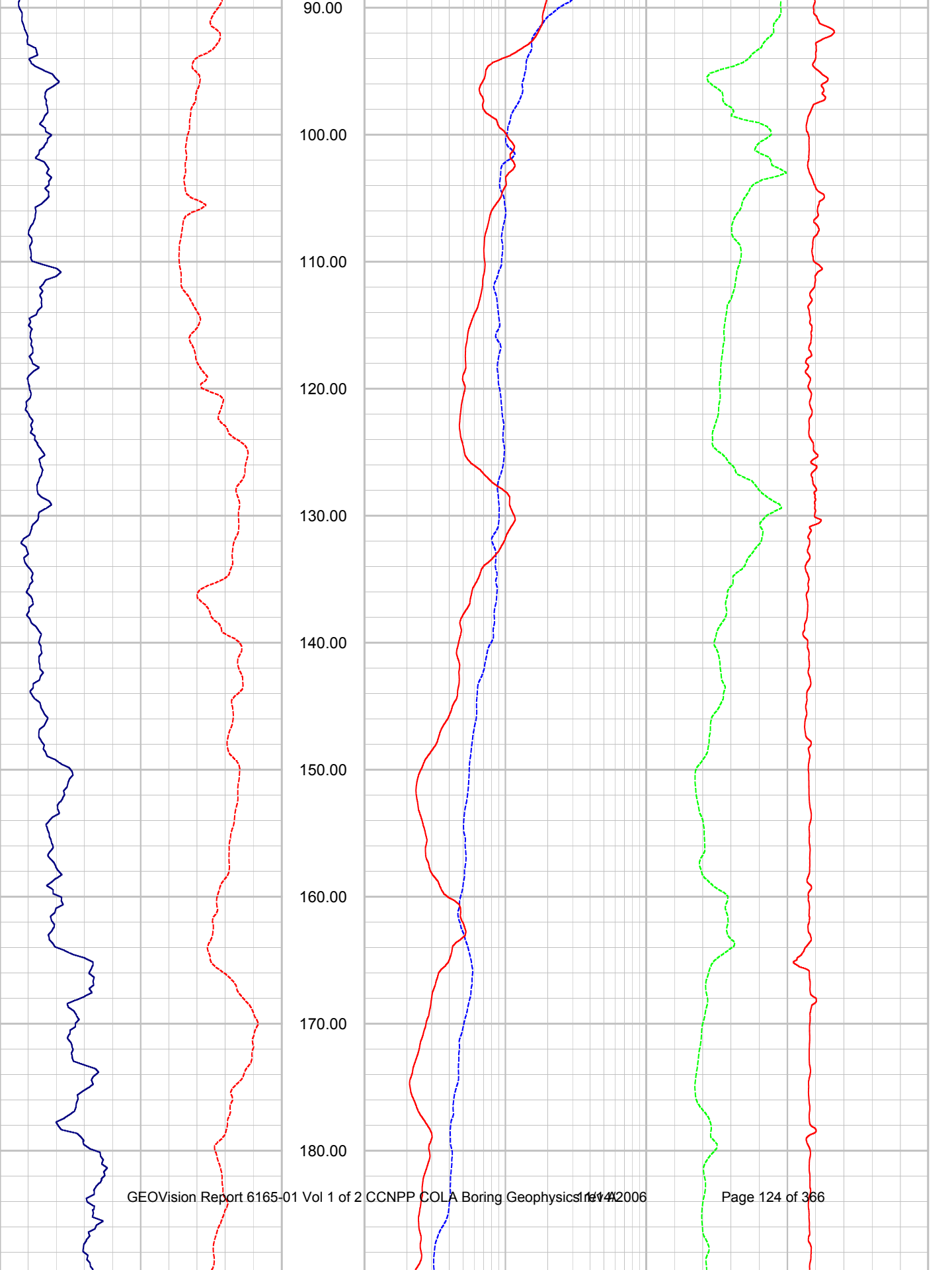
Page 122 of 366

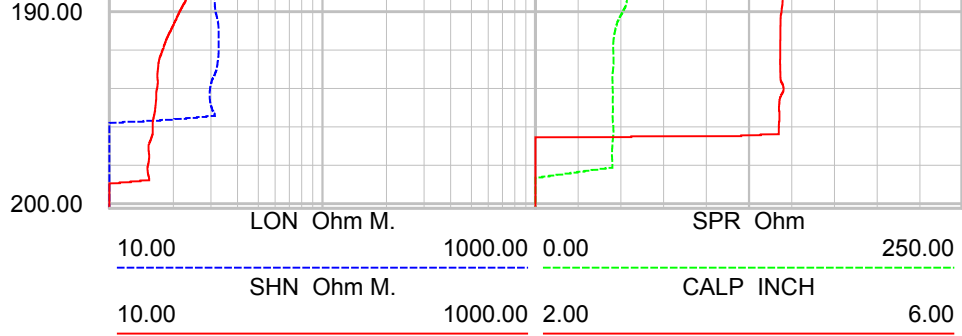
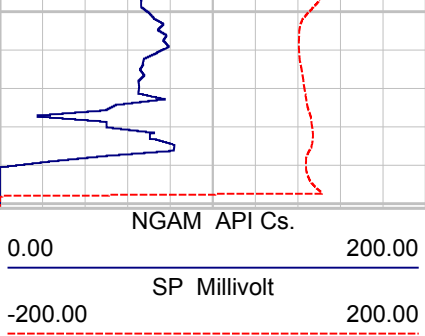
0.00	NGAM API Cs.	200.00
-200.00	SP Millivolt	200.00



10.00	LON Ohm M.	1000.00	0.00	SPR Ohm	250.00
10.00	SHN Ohm M.	1000.00	2.00	CALP INCH	6.00









CCNPP COLA

B318ELOGDOWN01

COMPANY GEOVision
WELL B-318
FIELD
COUNTRY
STATE
COUNTY
LAT.:
LONG.:

OTHER SERVICES

Perm. Da.. Elev
Log. Datum
Drill Datum

KB 0.00
DF 0.00
GL 0.00

DATE RUN#	04 Jun 06 4	21 Oct 05 0	21 Oct 05 0
TYPE OF LOG	CALIPER		
DEPTH DRILLER	201.00	0.00	0.00
DEPTH LOGGER	0.00	0.00	0.00
LOG DEEPEST	0.00	0.00	0.00
LOG SHALLOW	18.40	0.00	0.00
FLUID IN HOLE	WATER		
SALINITY			
DENSITY			
LEVEL			
MAX TEMP °C	0.00	0.00	0.00
RIG TIME			
RECORDED BY	R. STELLER		
WITNESSED BY			

RUN#

BIT RECORD
SIZE FROM TO

CASING RECORD
SIZE WEIGHT FROM TO

4	4.25	0.00	200.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

ROBERTSON GEOLOGGING TECHNOLOGY

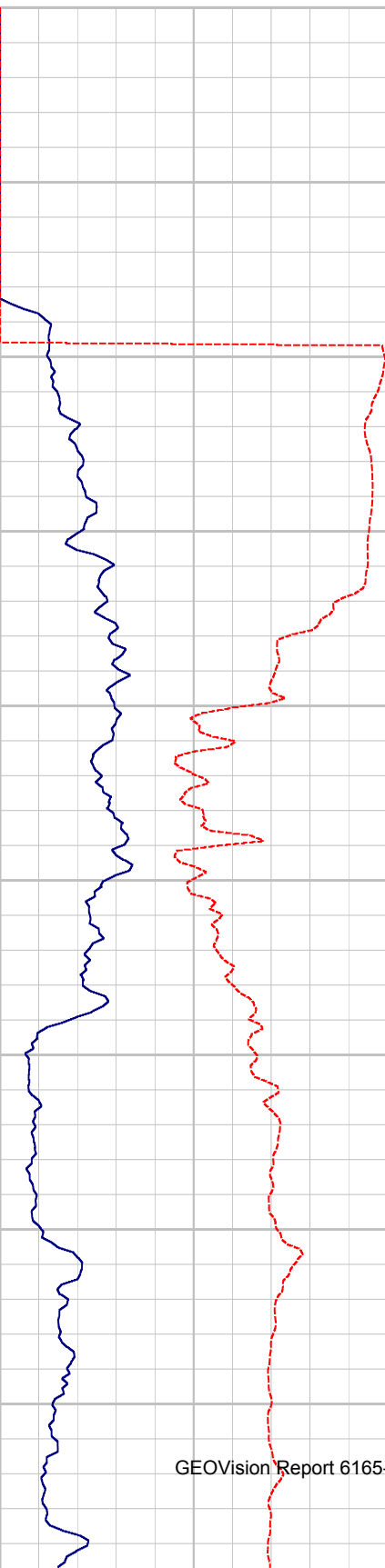
REMARKS (C:\Data\PS\CC\B-318 4 June 2006 boring geophysics..

11/14/2006

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0.00 NGAM CPS 200.00

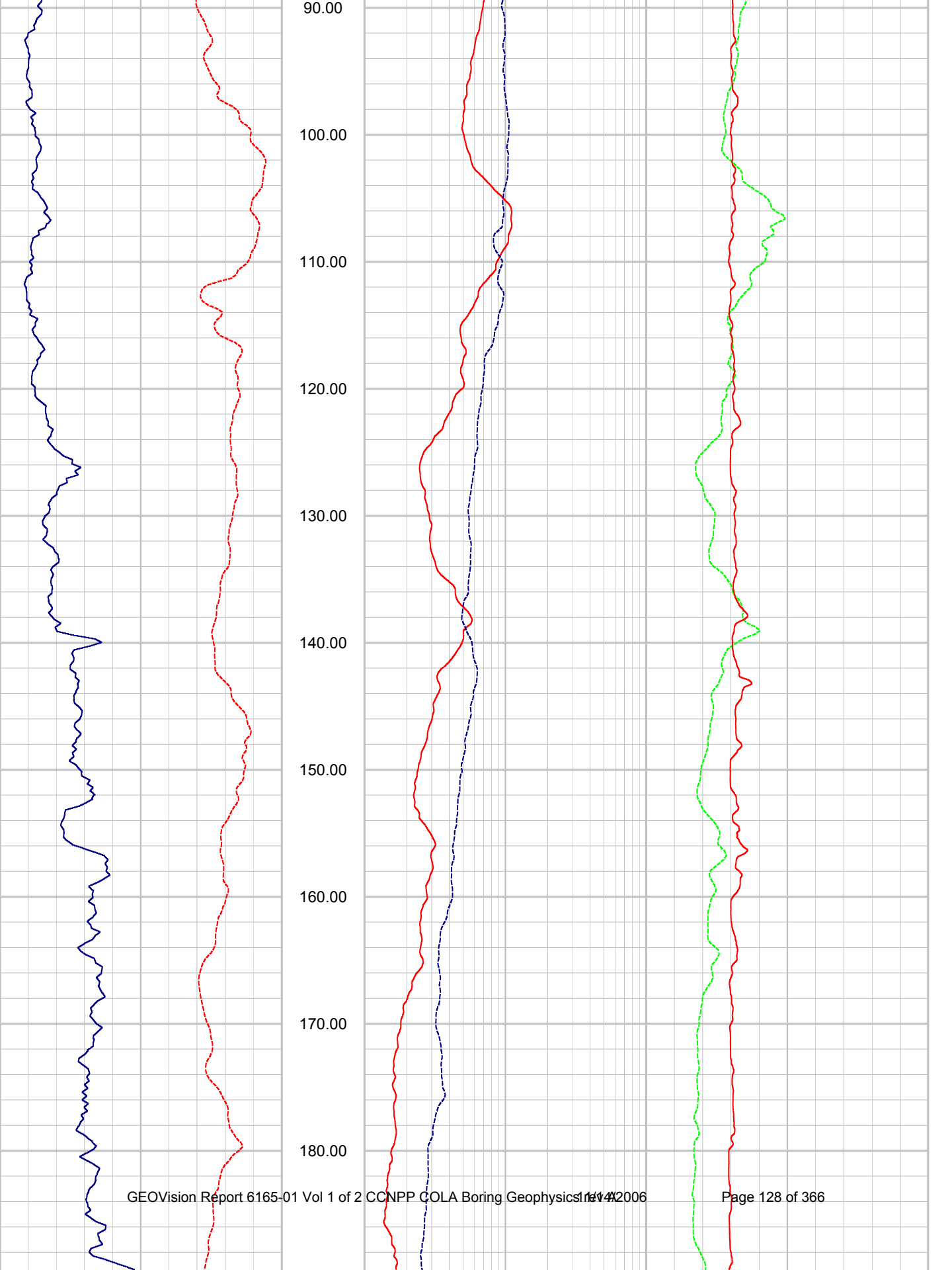
-200.00 SP mV 200.00

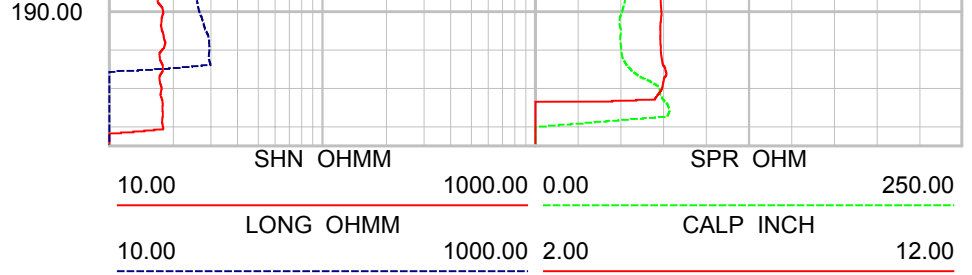
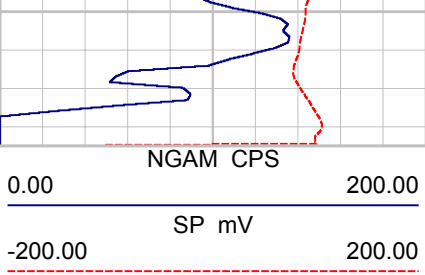


10.00 SHN OHMM 1000.00 0.00 SPR OHM 250.00

10.00 LONG OHMM 1000.00 2.00 CALP INCH 12.00









CCNPP COLA

B323ELOGUP01

COMPANY GEOVision
WELL B-323
FIELD
COUNTRY
STATE
COUNTY
LAT.:
LONG.:

OTHER SERVICES

Perm. Da.. Elev
Log. Datum
Drill Datum

KB 0.00
DF 0.00
GL 0.00

DATE	13 Jun 06	21 Oct 05	21 Oct 05
RUN#	6	0	0
TYPE OF LOG	ELOG		
DEPTH DRILLER	200.00	0.00	0.00
DEPTH LOGGER	203.00	0.00	0.00
LOG DEEPEST	0.00	0.00	0.00
LOG SHALLOW	0.00	0.00	0.00
FLUID IN HOLE	DRILLING MUD		
SALINITY			
DENSITY			
LEVEL			
MAX TEMP °C	0.00	0.00	0.00
RIG TIME			
RECORDED BY	R. STELLER		
WITNESSED BY			

RUN#

BIT RECORD
SIZE FROM TO

CASING RECORD
SIZE WEIGHT FROM TO

6	4.25	0.00	200.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

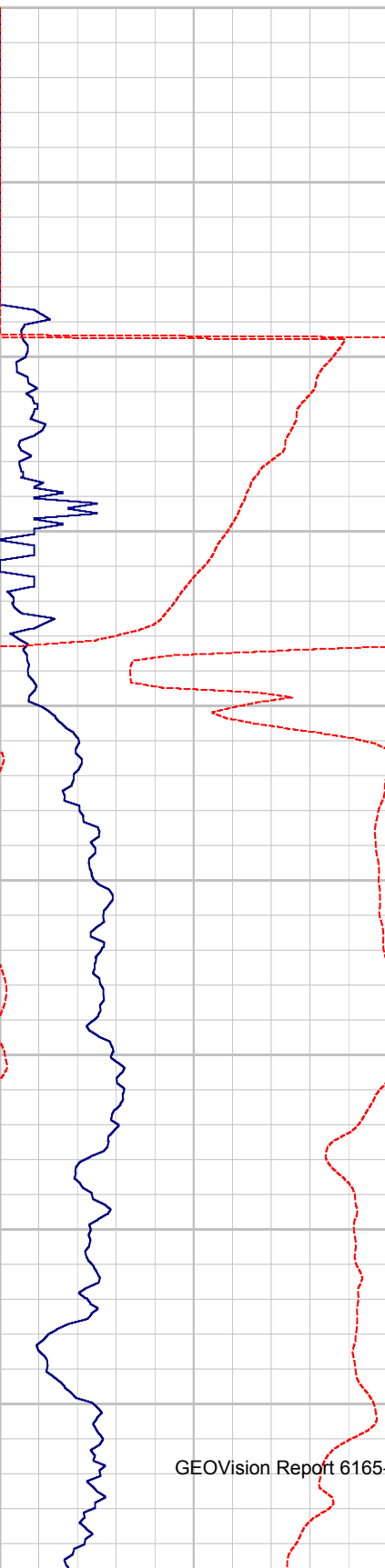
ROBERTSON GEOLOGGING TECHNOLOGY

REMARKS (C:\Data\PS\CC\B-323 13 June 2006 boring geophysic..

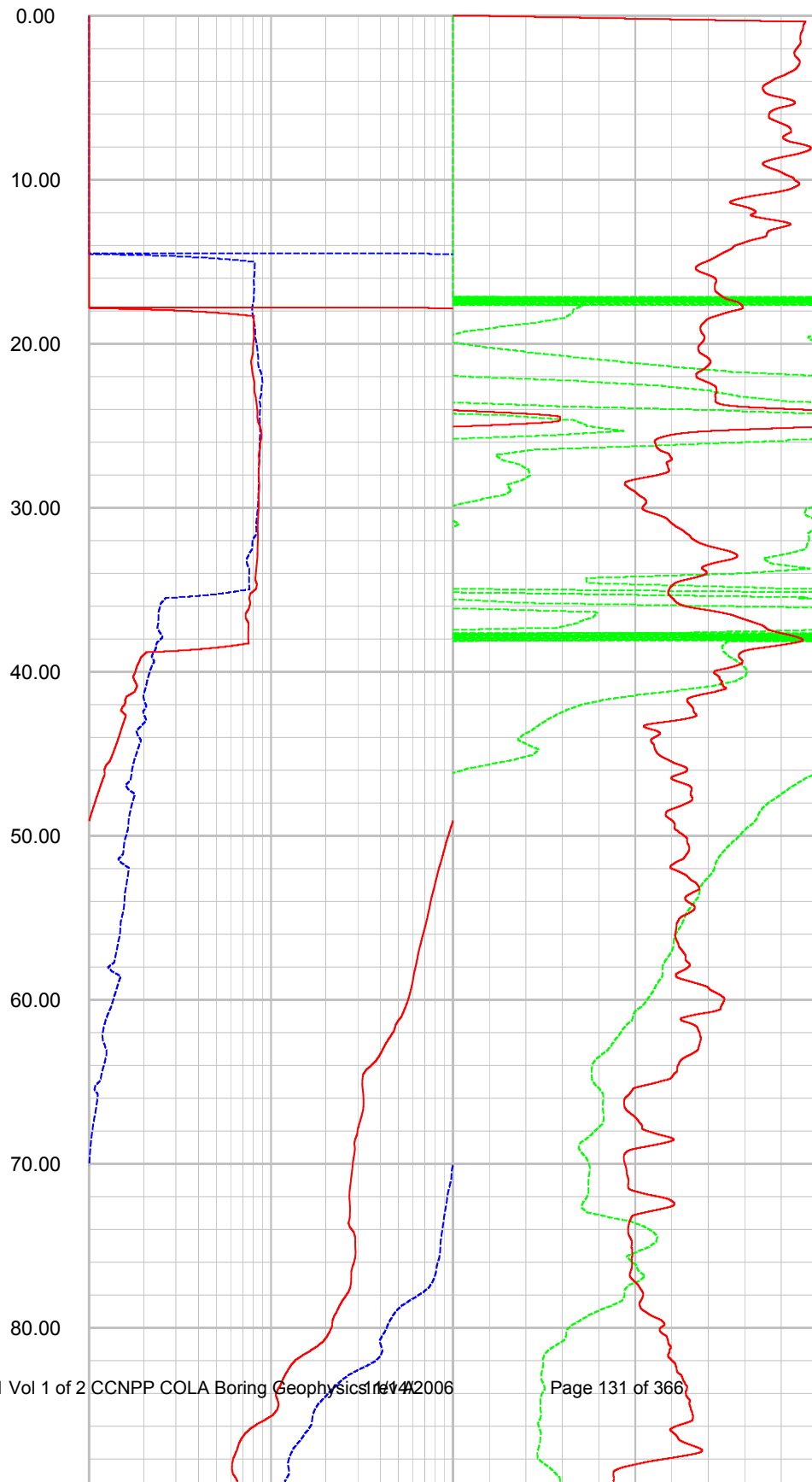
11/14/2006

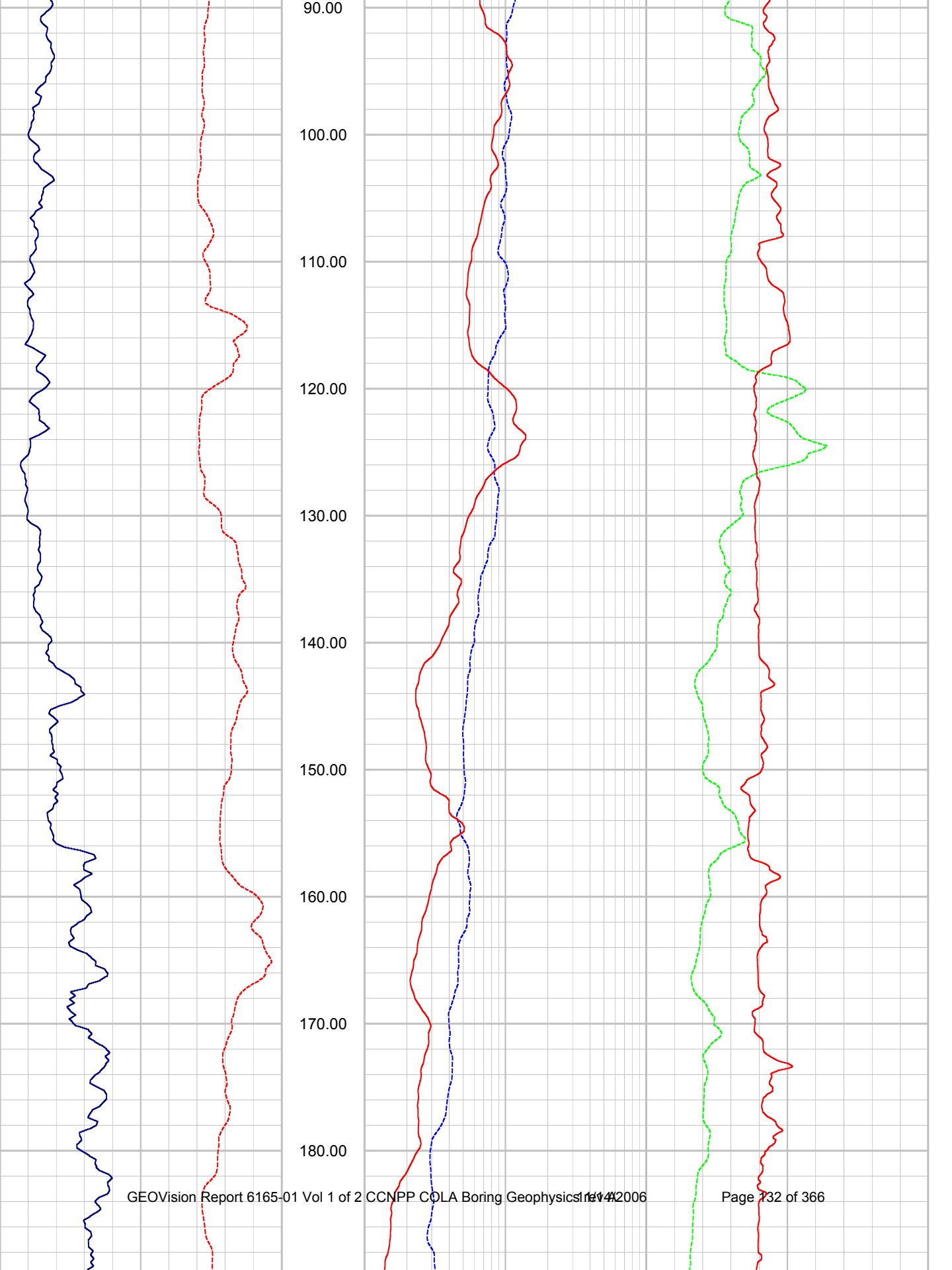
Page 130 of 366

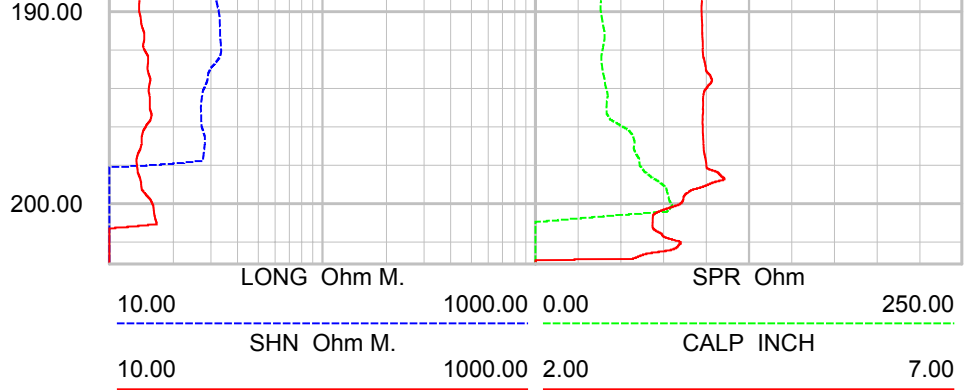
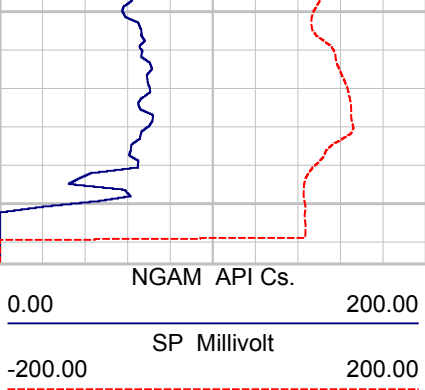
0.00	NGAM API Cs.	200.00
-200.00	SP Millivolt	200.00



10.00	LONG Ohm M.	1000.00	0.00	SPR Ohm	250.00
10.00	SHN Ohm M.	1000.00	2.00	CALP INCH	7.00









CCNPP COL

B401ELOGUP01

COMPANY GEOVision
WELL B-401
FIELD
COUNTRY
STATE
COUNTY
LAT.:
LONG.:

OTHER SERVICES

Perm. Da.. Elev
Log. Datum
Drill Datum

KB 0.00
DF 0.00
GL 0.00

DATE	28 Jun 06	21 Oct 05	21 Oct 05
RUN#	6	0	0
TYPE OF LOG	ELOG		
DEPTH DRILLER	400.00	0.00	0.00
DEPTH LOGGER	400.00	0.00	0.00
LOG DEEPEST	399.50	0.00	0.00
LOG SHALLOW	6.70	0.00	0.00
FLUID IN HOLE	DRILLING MUD		
SALINITY			
DENSITY			
LEVEL			
MAX TEMP °C	0.00	0.00	0.00
RIG TIME			
RECORDED BY	R. STELLER		
WITNESSED BY			

RUN#

BIT RECORD
SIZE FROM TO

CASING RECORD
SIZE WEIGHT FROM TO

6	4.25	0.00	200.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

ROBERTSON GEOLOGGING TECHNOLOGY

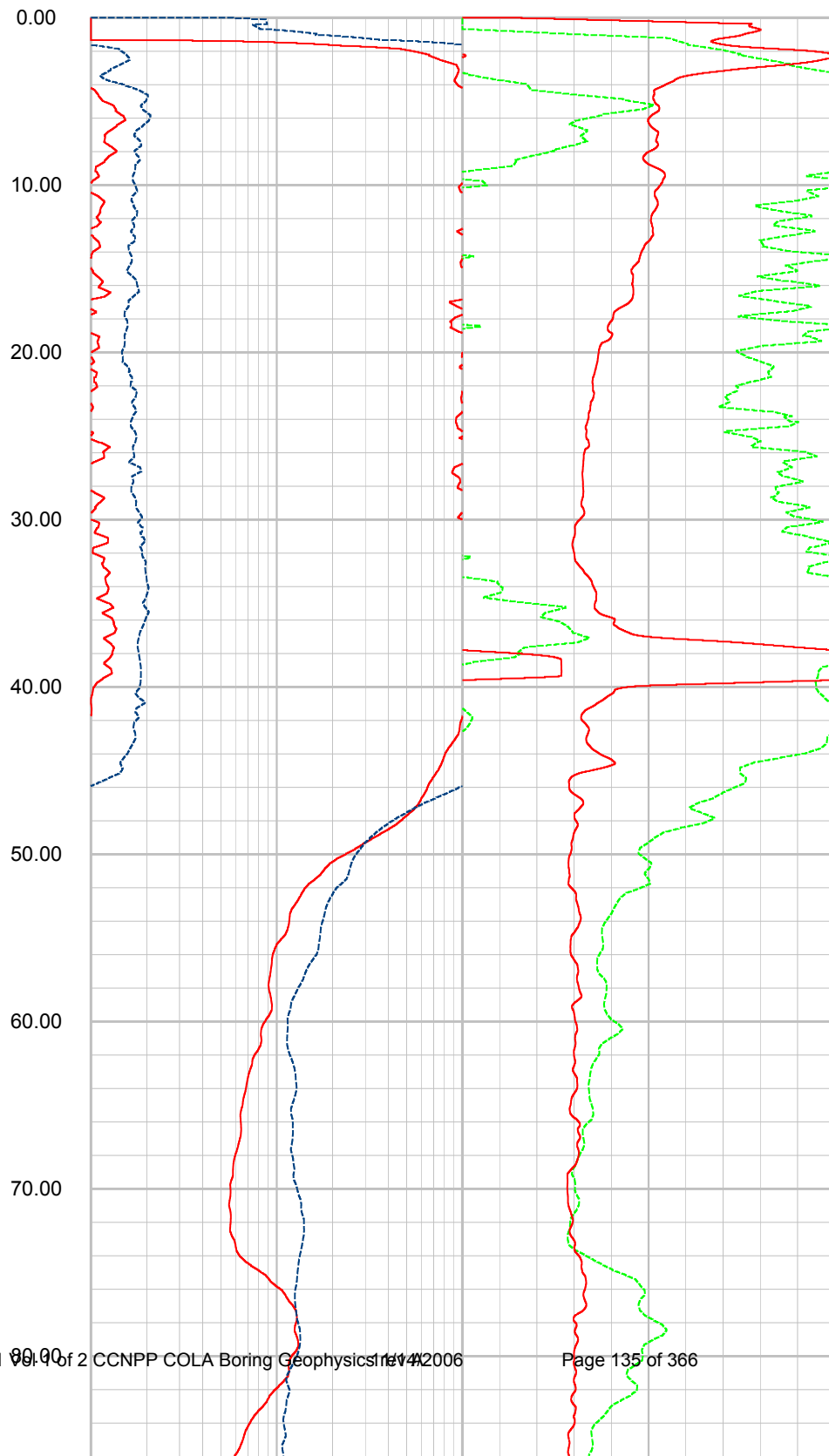
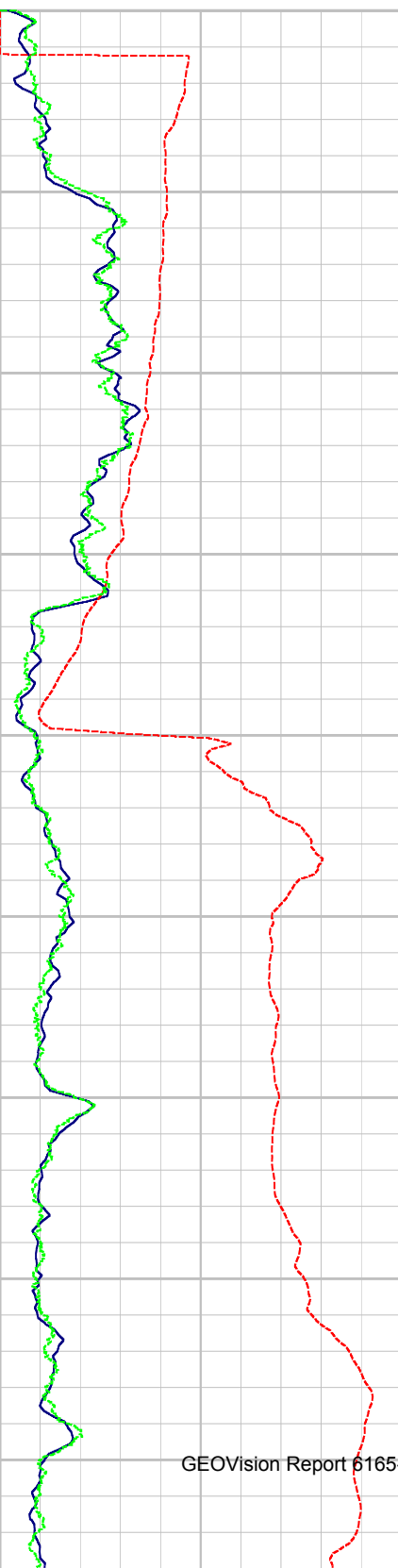
REMARKS (C:\Data\PS\CC\B-401 28 June boring geophysics\B40..

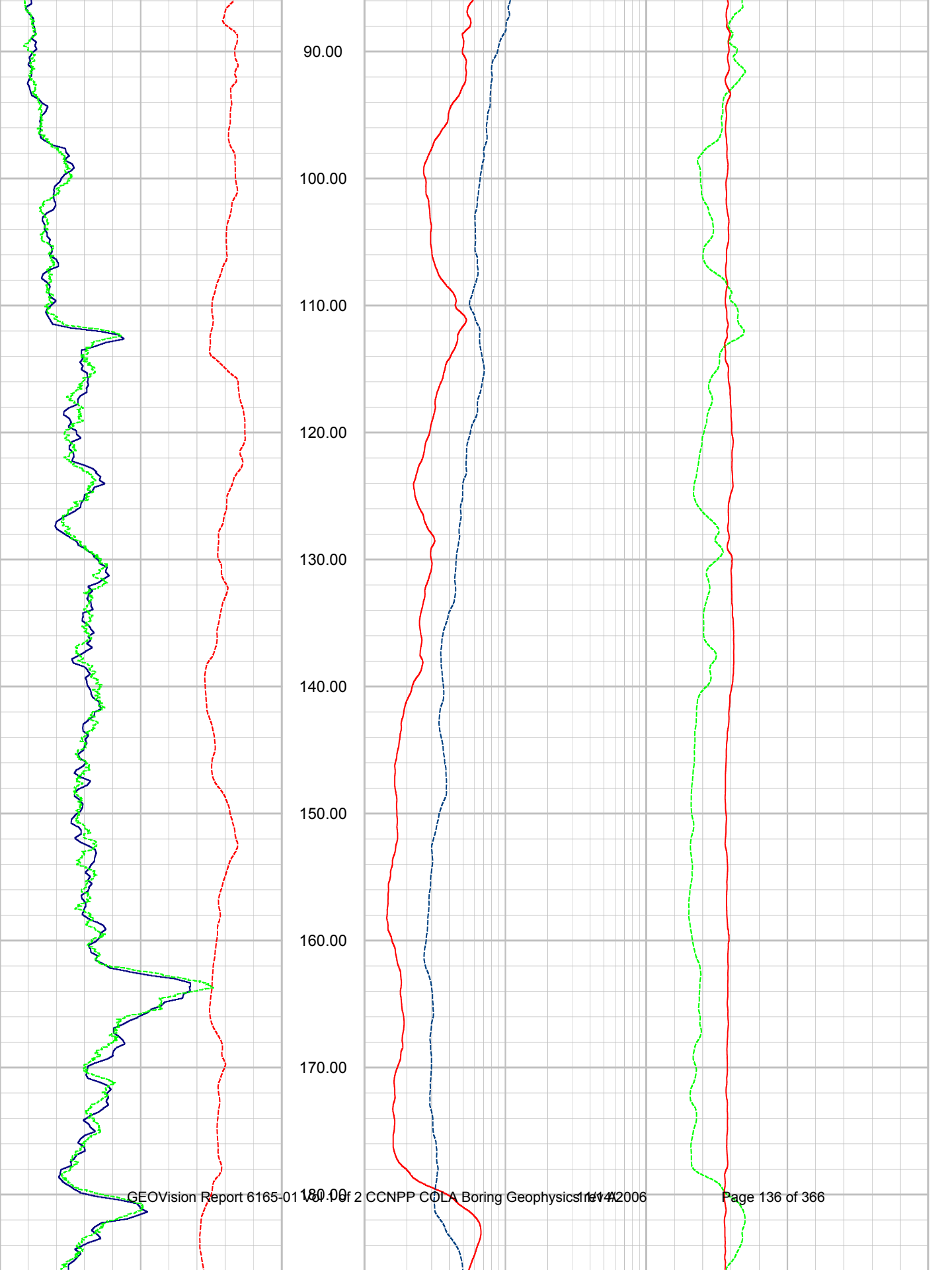
11/14/2006

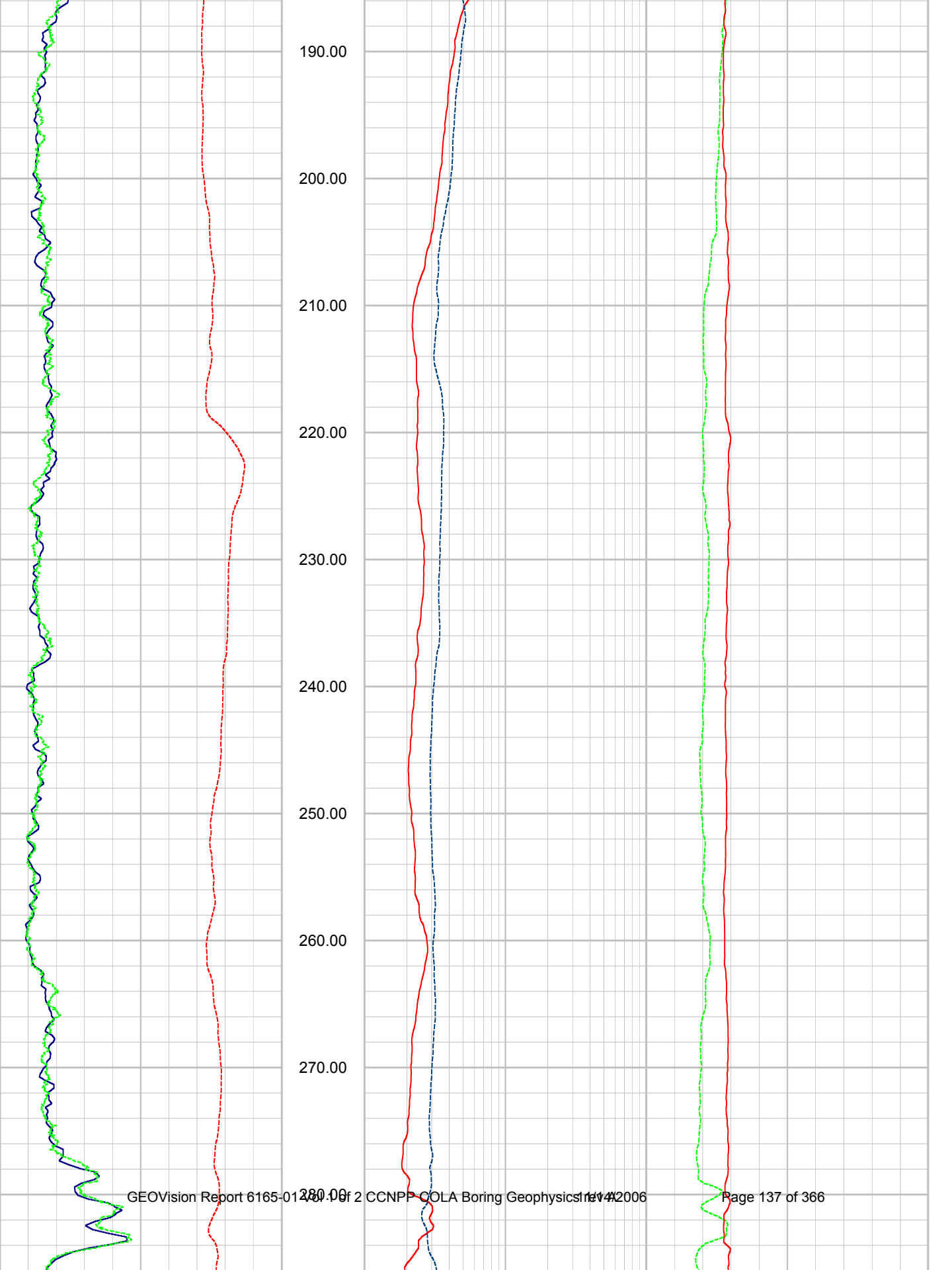
Page 134 of 366

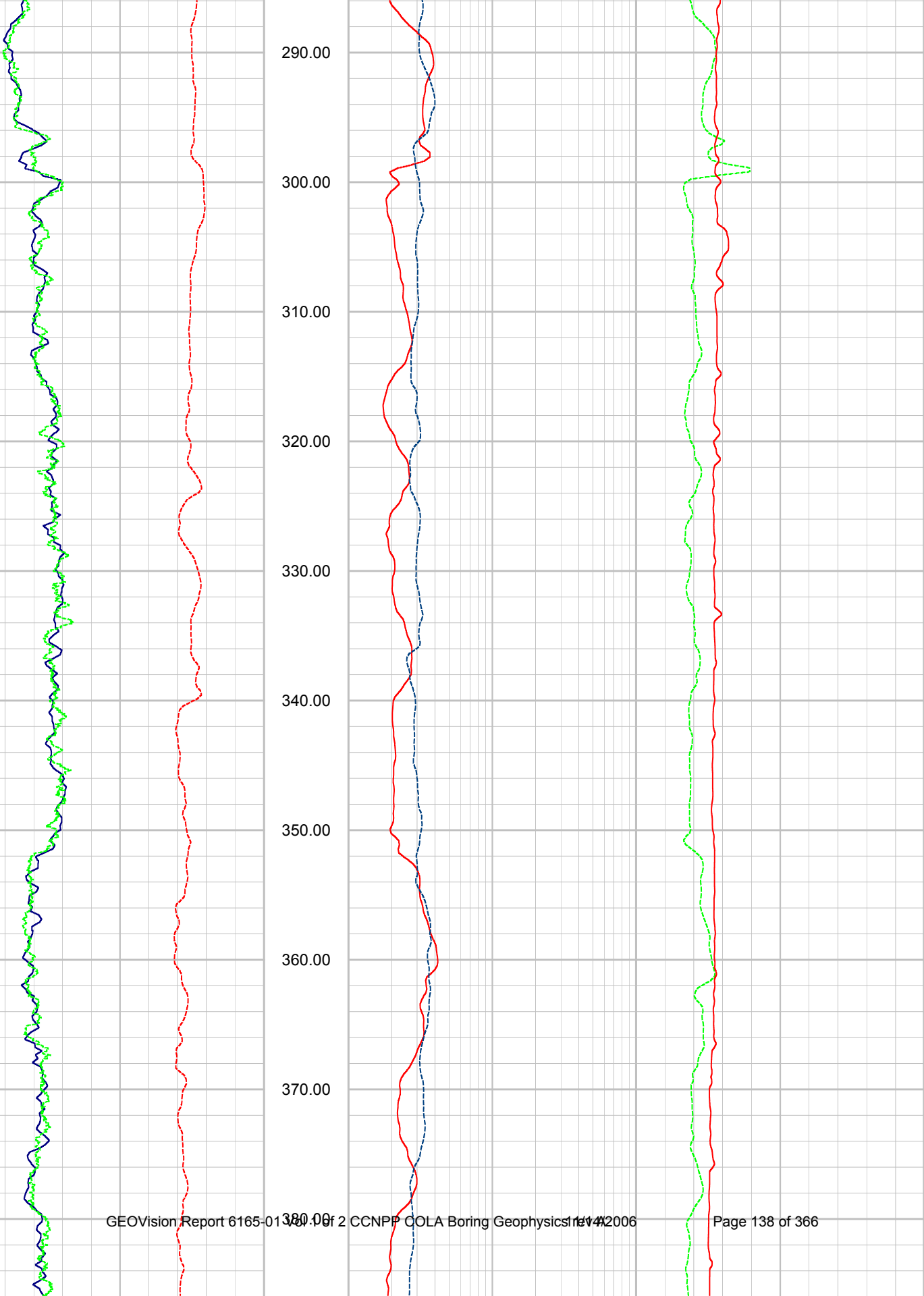
0.00	NGAM API Cs.	200.00
-200.00	SP Millivolt	200.00
0.00	CGAM API Cs.	200.00

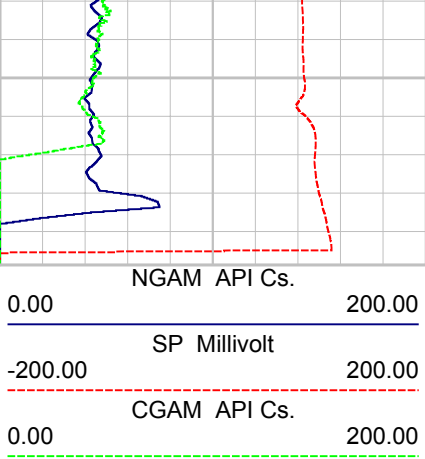
10.00	SHN Ohm M.	1000.00	0.00	SPR Ohm	250.00
10.00	LONG Ohm M.	1000.00	2.00	CALP Inch	12.00



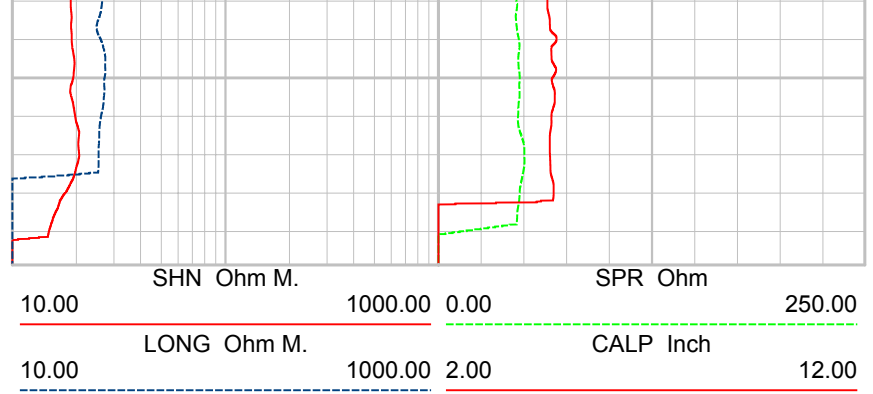








390.00





CCNPP COL

B404ELOGUP01

COMPANY GEOVision
WELL B-404
FIELD
COUNTRY
STATE
COUNTY
LAT.:
LONG.:

OTHER SERVICES

Perm. Da.. Elev
Log. Datum
Drill Datum

KB 0.00
DF 0.00
GL 0.00

DATE	27 Jun 06	21 Oct 05	21 Oct 05
RUN#	6	0	0
TYPE OF LOG	ELOG		
DEPTH DRILLER	200.00	0.00	0.00
DEPTH LOGGER	200.00	0.00	0.00
LOG DEEPEST	195.00	0.00	0.00
LOG SHALLOW	22.00	0.00	0.00
FLUID IN HOLE	DRILLING MUD		
SALINITY			
DENSITY			
LEVEL			
MAX TEMP °C	0.00	0.00	0.00
RIG TIME			
RECORDED BY	R. STELLER		
WITNESSED BY			

RUN#

BIT RECORD

SIZE FROM TO

CASING RECORD

SIZE WEIGHT FROM TO

6

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0

4.25

0.00

200.00

0.00

0.00

0.00

0.00

0.00

0

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

ROBERTSON GEOLOGGING TECHNOLOGY

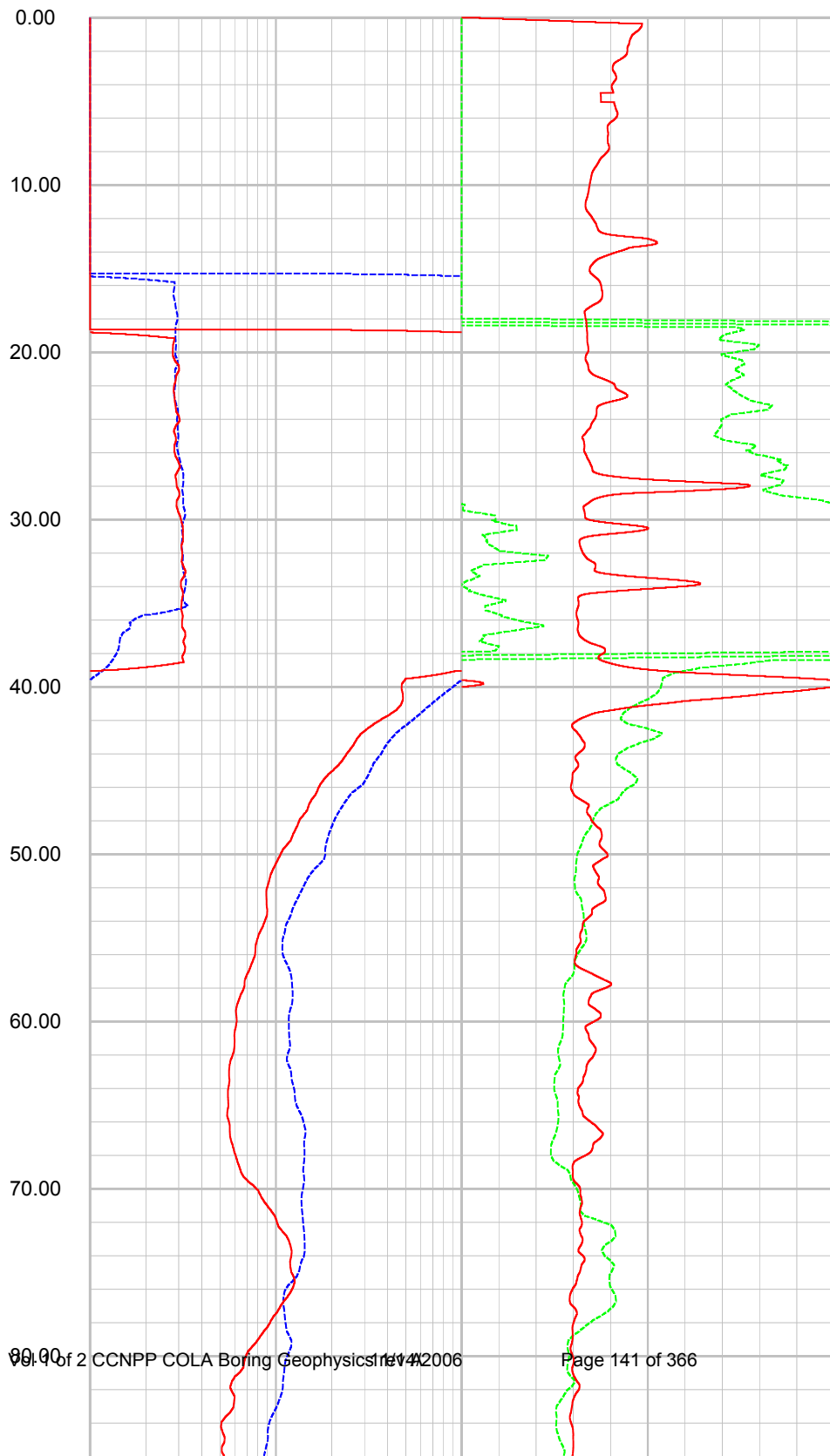
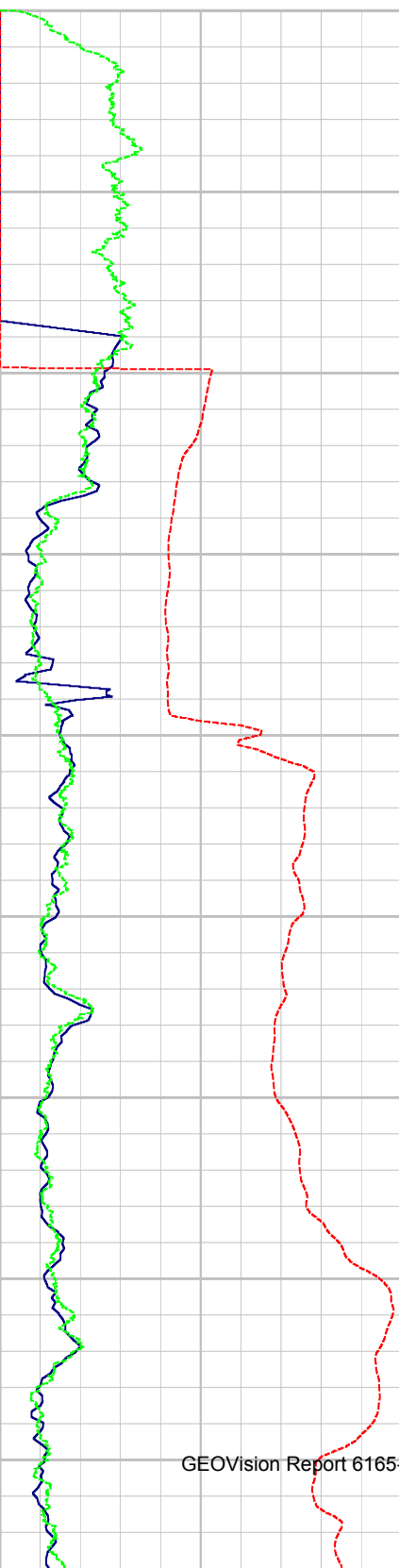
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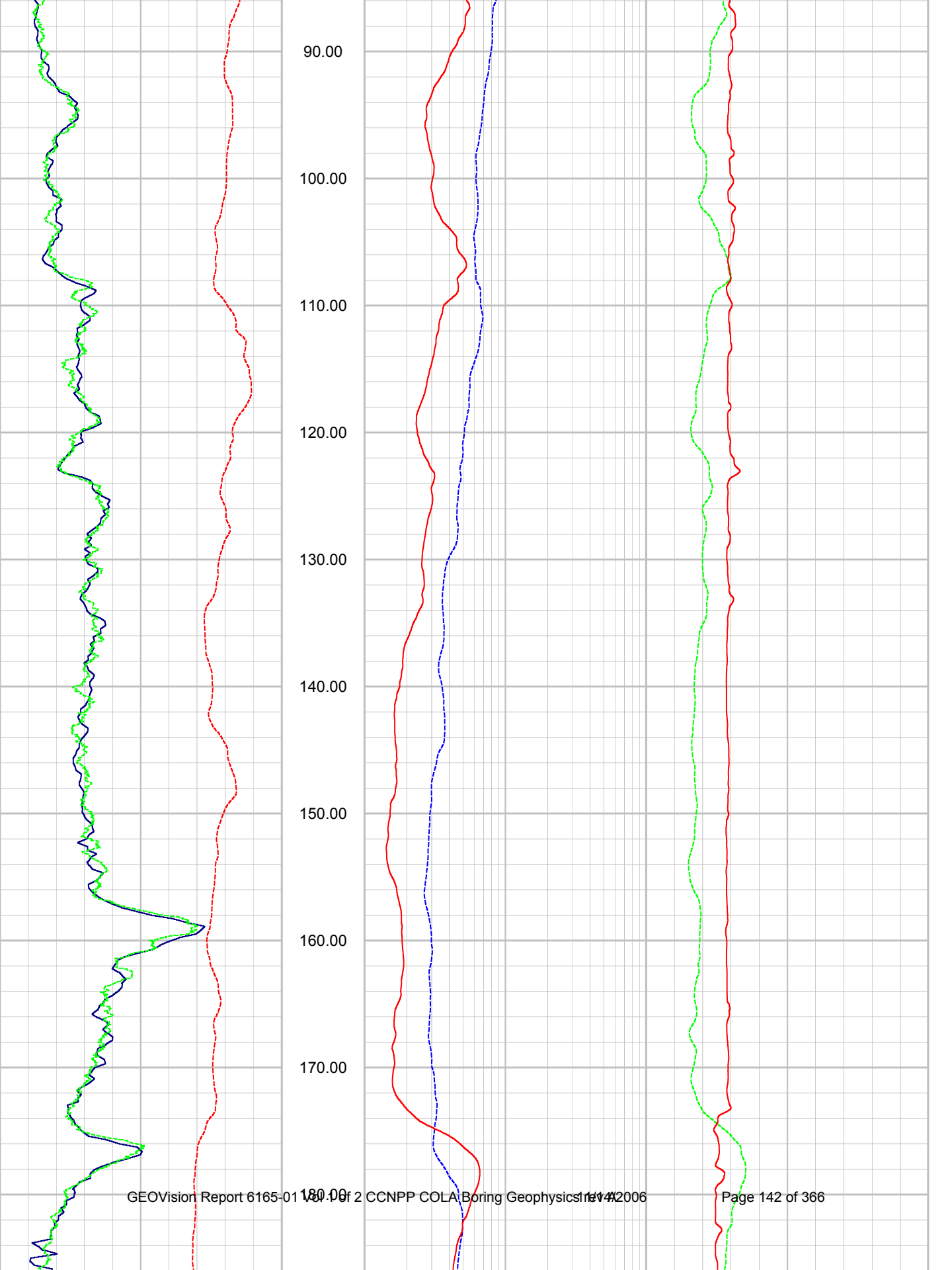
11/14/2006

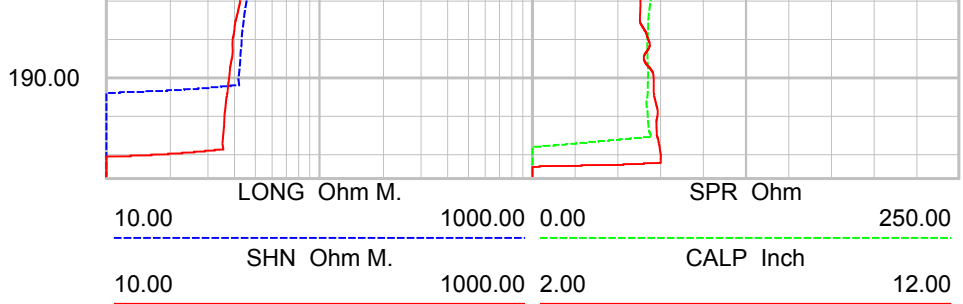
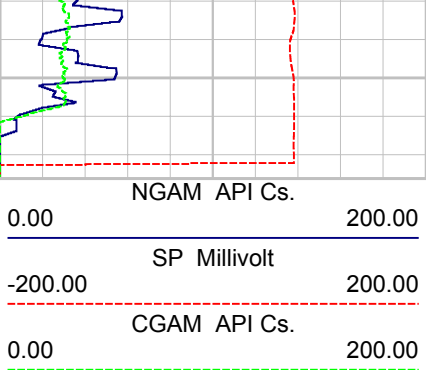
Page 140 of 366

0.00	NGAM API Cs.	200.00
-200.00	SP Millivolt	200.00
0.00	CGAM API Cs.	200.00

10.00	LONG Ohm M.	1000.00	0.00	SPR Ohm	250.00
10.00	SHN Ohm M.	1000.00	2.00	CALP Inch	12.00









CCNPP COLA

B407ELOGUP01

COMPANY GEOVision
WELL B-407
FIELD
COUNTRY
STATE
COUNTY
LAT.:
LONG.:

OTHER SERVICES

Perm. Da.. Elev
Log. Datum
Drill Datum

KB 0.00
DF 0.00
GL 0.00

DATE	16 Jun 06	21 Oct 05	21 Oct 05
RUN#	11	0	0
TYPE OF LOG	ELOG		
DEPTH DRILLER	200.00	0.00	0.00
DEPTH LOGGER	196.00	0.00	0.00
LOG DEEPEST	193.00	0.00	0.00
LOG SHALLOW	0.00	0.00	0.00
FLUID IN HOLE	DRILLING MUD		
SALINITY			
DENSITY			
LEVEL			
MAX TEMP °C	0.00	0.00	0.00
RIG TIME			
RECORDED BY	R. STELLER		
WITNESSED BY			

RUN#	BIT RECORD			CASING RECORD			
	SIZE	FROM	TO	SIZE	WEIGHT	FROM	TO

11	4.25	0.00	200.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

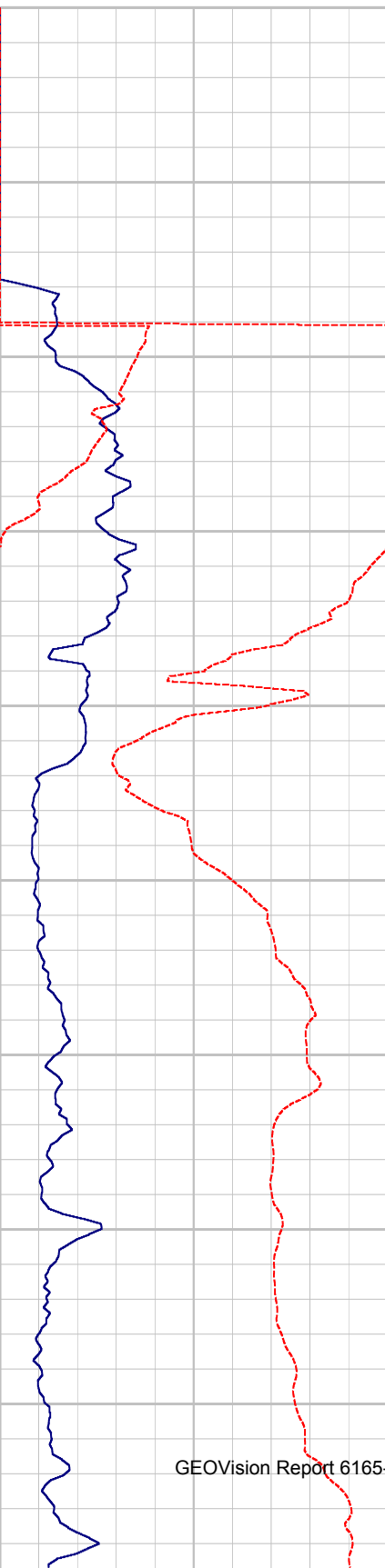
ROBERTSON GEOLOGGING TECHNOLOGY

REMARKS (C:\Data\PS\CC\B-407 16 June 2006 boring geoephysi..

11/14/2006

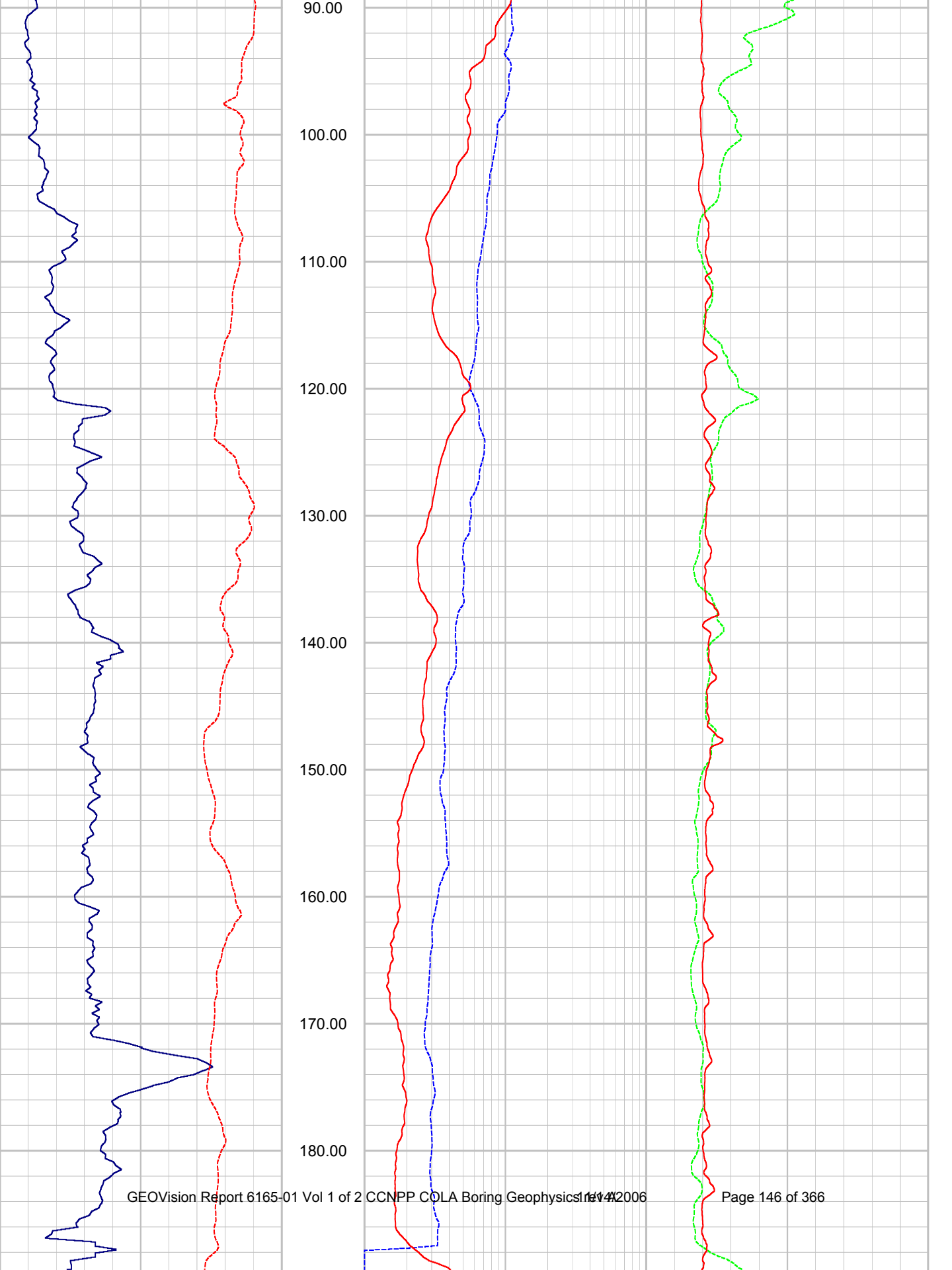
Page 144 of 366

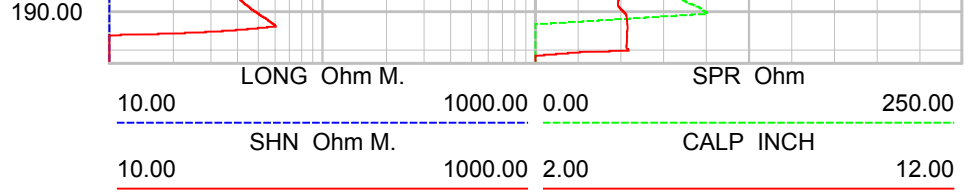
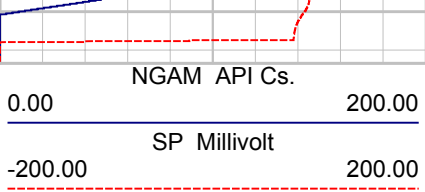
0.00	NGAM API Cs.	200.00
-200.00	SP Millivolt	200.00



10.00	LONG Ohm M.	1000.00	0.00	SPR Ohm	250.00
10.00	SHN Ohm M.	1000.00	2.00	CALP INCH	12.00









CCNPP COL

B418ELOGUP01

COMPANY GEOVision
WELL B-418
FIELD
COUNTRY
STATE
COUNTY
LAT.:
LONG.:

OTHER SERVICES

Perm. Da.. Elev
Log. Datum
Drill Datum

KB 0.00
DF 0.00
GL 0.00

DATE	30 Jun 06	21 Oct 05	21 Oct 05
RUN#	9	0	0
TYPE OF LOG	ELOG		
DEPTH DRILLER	200.00	0.00	0.00
DEPTH LOGGER	200.00	0.00	0.00
LOG DEEPEST	197.00	0.00	0.00
LOG SHALLOW	20.00	0.00	0.00
FLUID IN HOLE	DRILLING MUD		
SALINITY			
DENSITY			
LEVEL			
MAX TEMP °C	0.00	0.00	0.00
RIG TIME			
RECORDED BY	R. STELLER		
WITNESSED BY			

RUN#

BIT RECORD

SIZE FROM TO

CASING RECORD

SIZE WEIGHT FROM TO

9

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4.25

0.00

200.00

0.00

0.00

0.00

0.00

0

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0

0.00

0.00

0.00

0.00

0.00

0.00

0.00

ROBERTSON GEOLOGGING TECHNOLOGY

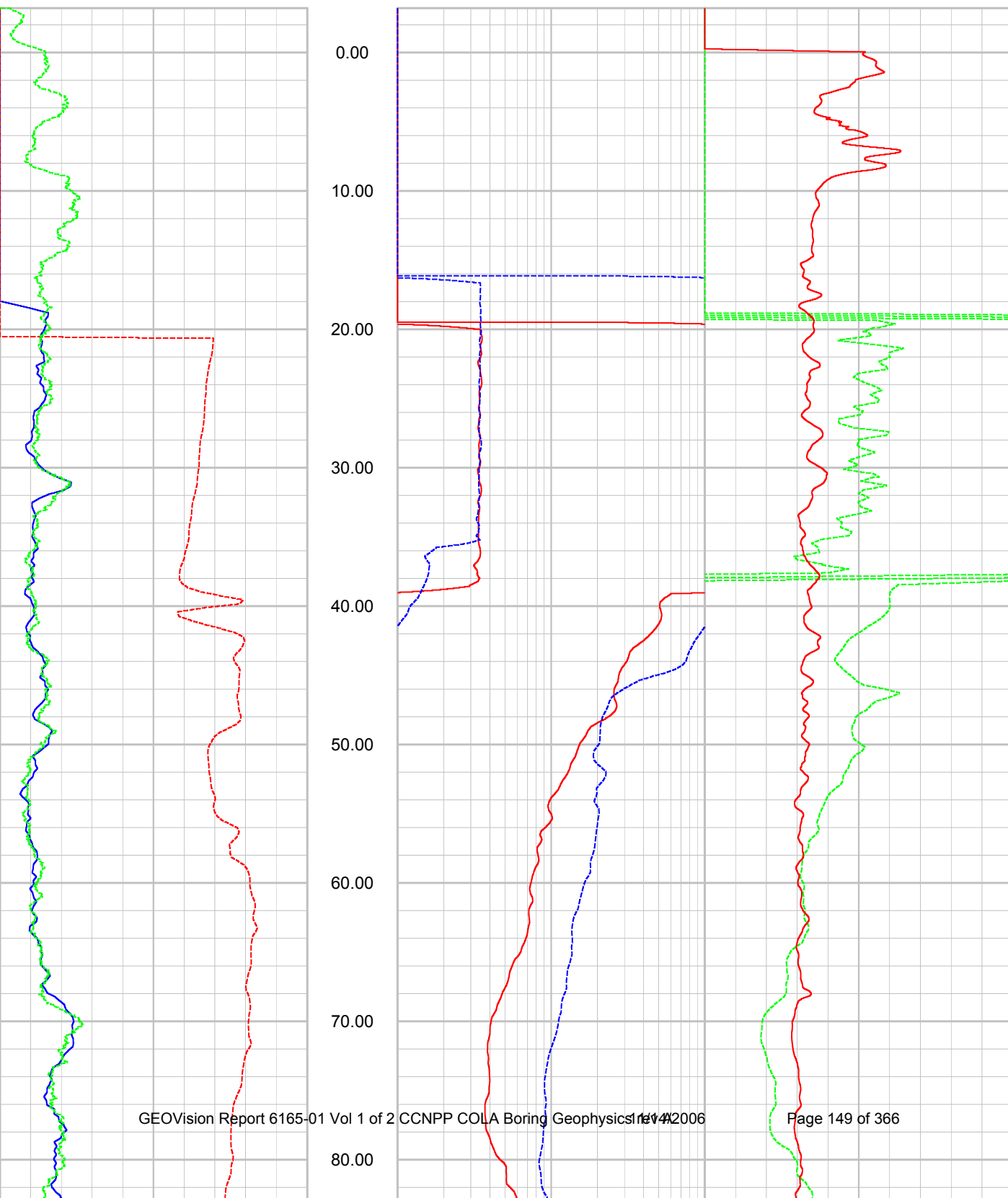
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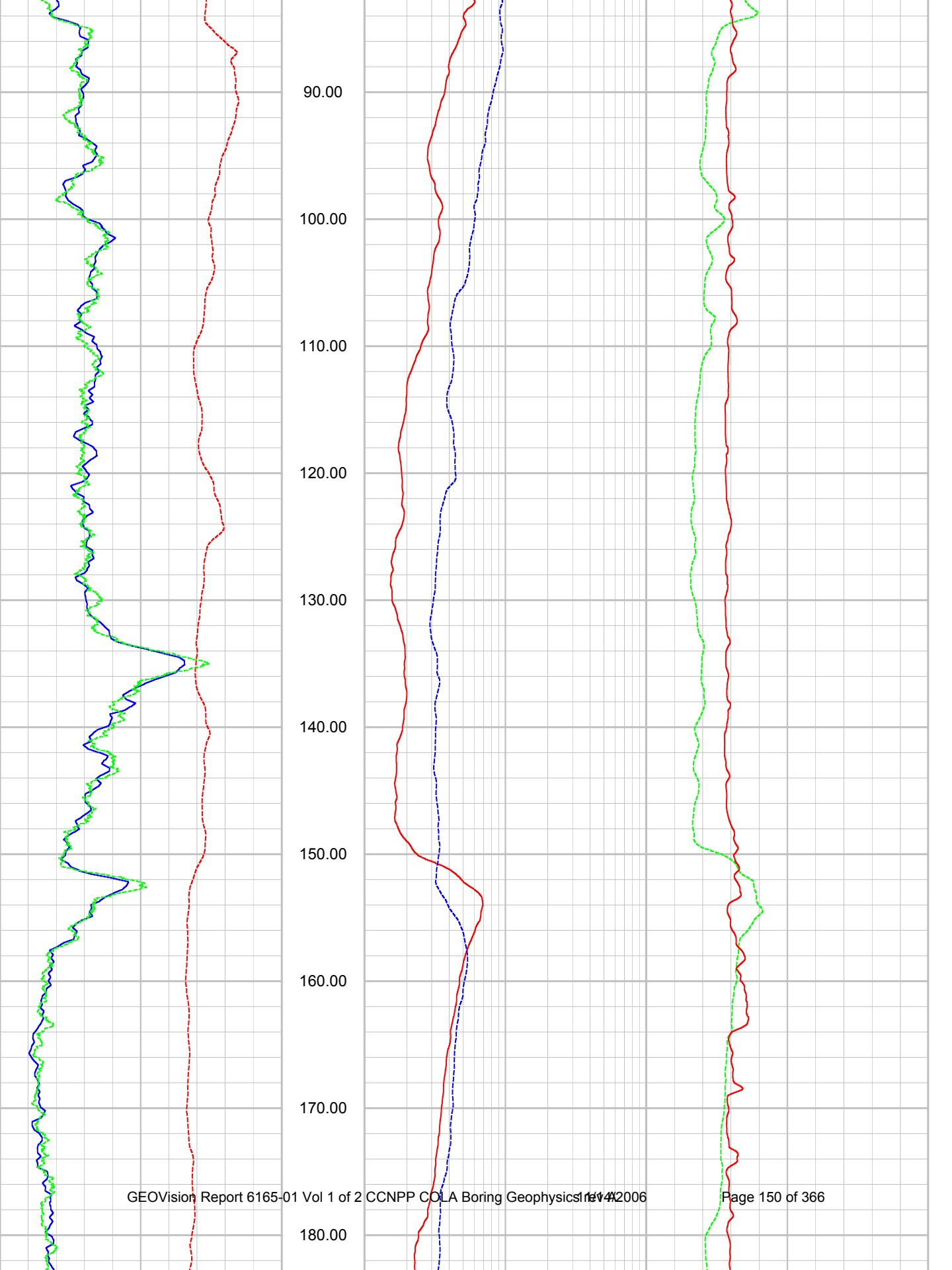
11/14/2006

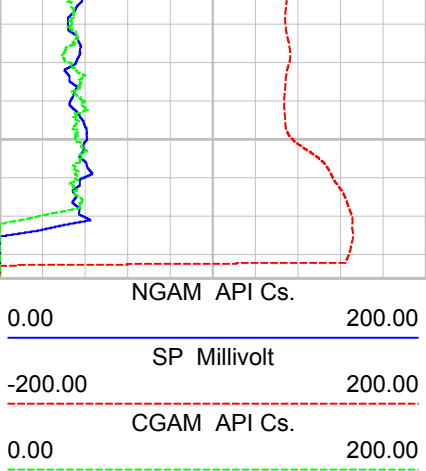
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0.00	NGAM API Cs.	200.00
-200.00	SP Millivolt	200.00
0.00	CGAM API Cs.	200.00

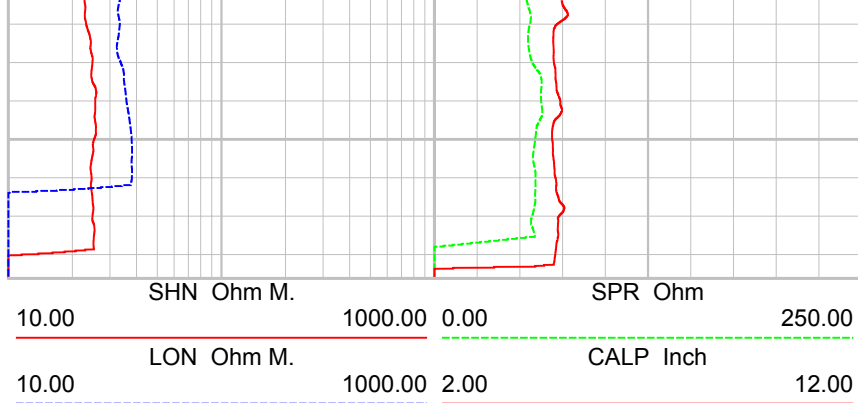
10.00	SHN Ohm M.	1000.00	0.00	SPR Ohm	250.00
10.00	LON Ohm M.	1000.00	2.00	CALP Inch	12.00







190.00





CCNPP COLA

B423ELOGUP01

COMPANY GEOVision
WELL B-423
FIELD
COUNTRY
STATE
COUNTY
LAT.:
LONG.:

OTHER SERVICES

Perm. Da.. Elev
Log. Datum
Drill Datum

KB 0.00
DF 0.00
GL 0.00

DATE RUN#	13 Jun 06 8	21 Oct 05 0	21 Oct 05 0
TYPE OF LOG	ELOG		
DEPTH DRILLER	200.00	0.00	0.00
DEPTH LOGGER	200.00	0.00	0.00
LOG DEEPEST	200.00	0.00	0.00
LOG SHALLOW	0.00	0.00	0.00
FLUID IN HOLE	DRILLING MUD		
SALINITY			
DENSITY			
LEVEL			
MAX TEMP °C	0.00	0.00	0.00
RIG TIME			
RECORDED BY	R. STELLER		
WITNESSED BY			

RUN#

BIT RECORD
SIZE FROM TO

CASING RECORD
SIZE WEIGHT FROM TO

8	4.25	0.00	200.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

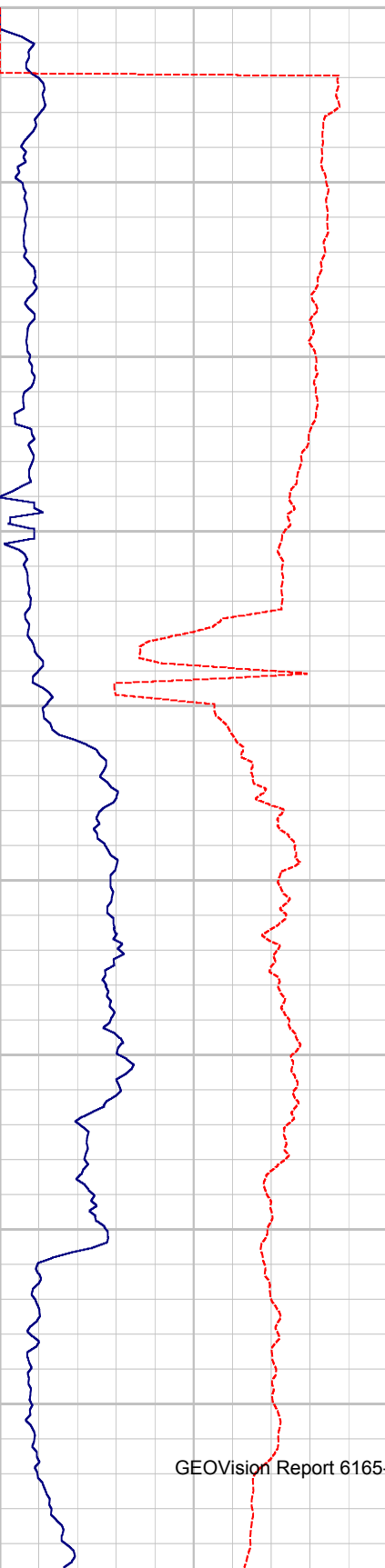
ROBERTSON GEOLOGGING TECHNOLOGY

REMARKS (C:\Data\PS\CC\B-423 13 June 2006 boring geophysic..

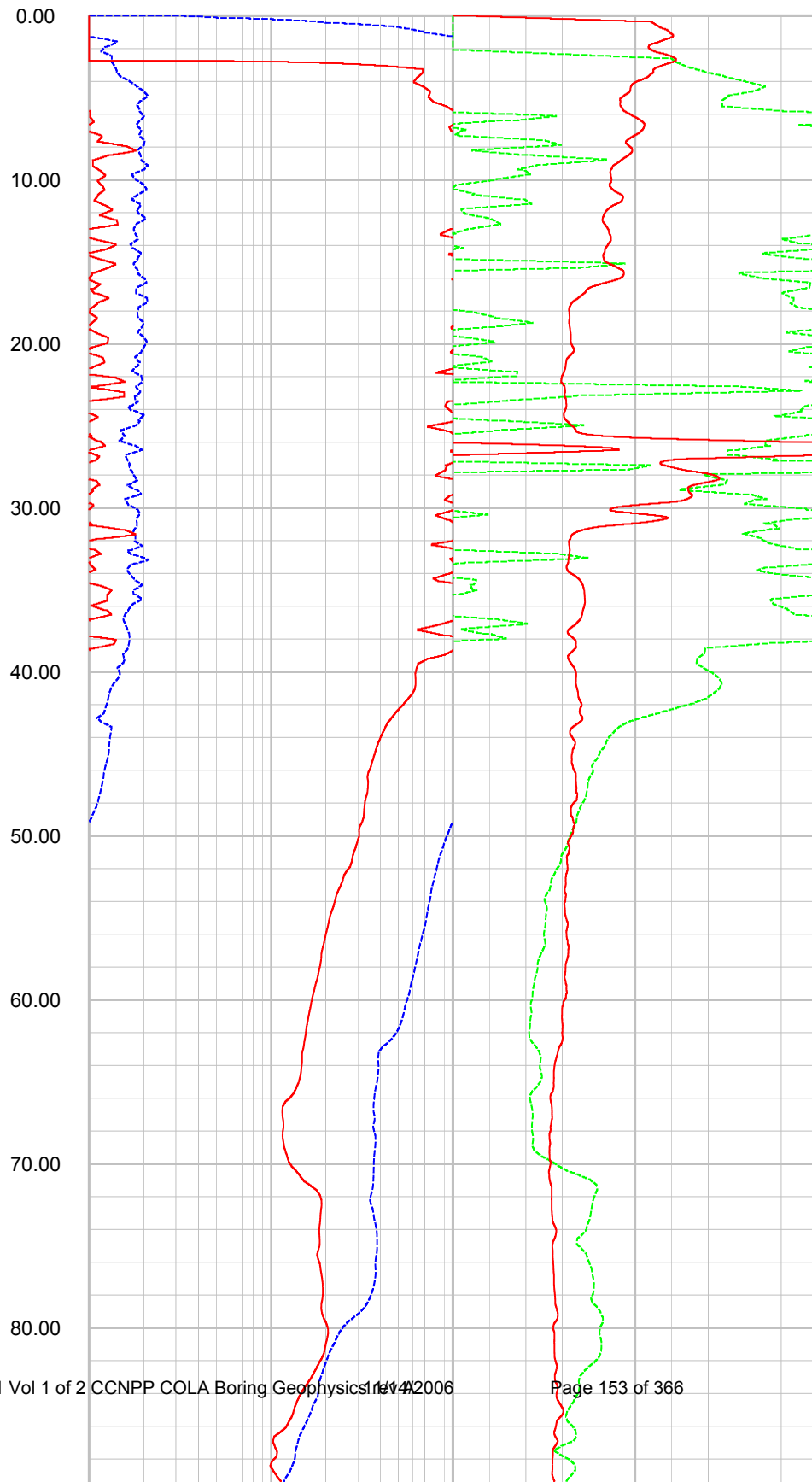
11/14/2006

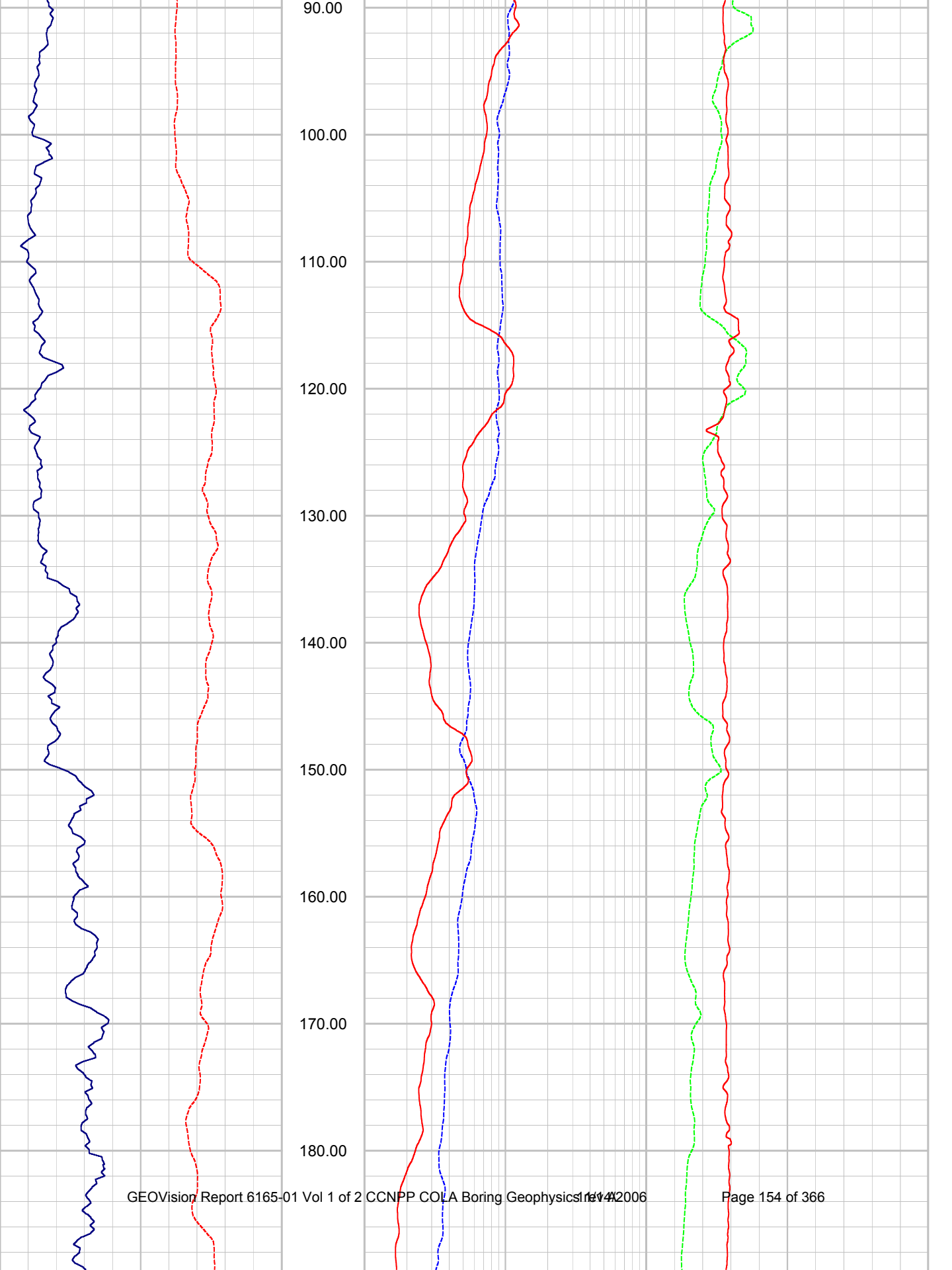
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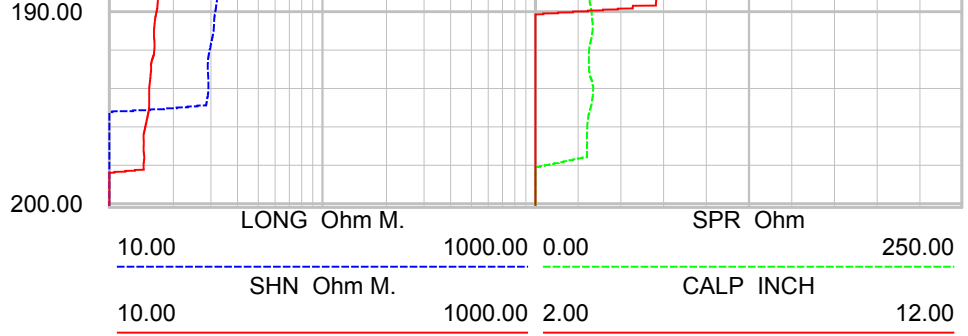
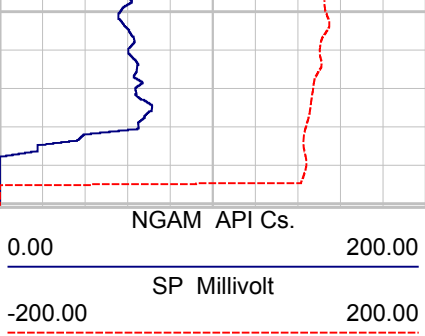
0.00	NGAM API Cs.	200.00
-200.00	SP Millivolt	200.00



10.00	LONG Ohm M.	1000.00	0.00	SPR Ohm	250.00
10.00	SHN Ohm M.	1000.00	2.00	CALP INCH	12.00







APPENDIX C

**BORING GEOPHYSICAL LOGGING
SYSTEMS - NIST TRACEABLE CALIBRATION
PROCEDURES AND CALIBRATION RECORDS**

CALIBRATION PROCEDURE FOR GEOVision SEISMIC RECORDER/LOGGER

Reviewed 4/6/06

Objective

The timing/sampling accuracy of seismic recorders or data loggers is required for several GEOVision field procedures including Seismic Refraction, Downhole Seismic Velocity Logging, and P-S Suspension Logging. This procedure describes the method for measuring the timing accuracy of a seismic data logger, such as the OYO Model 170, OYO/Robertson Model 3403, Geometrics Strataview or Geometrics Geode. The objective of this procedure is to verify that the timing accuracy of the recorder is accurate to within 1%.

Frequency of Calibration

The calibration of each GEOVision seismic data logger is twelve (12) months. In the case of rented seismic data loggers, calibration must be performed prior to use.

Test Equipment Required

The following equipment is required. Item #2 must have current NIST traceable calibration.

1. Function generator, Krohn Hite 5400B or equivalent
2. Frequency counter, HP 5315A or equivalent
3. Test cables, from item 1 to item 2, and from item 1 to subject data logger.

Procedure

This procedure is designed to be performed using the accompanying Seismograph Calibration Data Sheet with the same revision number. All data must be entered and the procedure signed by the technician performing the test.

1. Record all identification data on the form provided.
2. Connect function generator to data logger (such as OYO Model 170) using test cable
3. Connect the function generator to the frequency counter using test cable.

4. Set up generator to produce a 100.0 Hz, 0.25 volt (amplitude is approximate, modify as necessary to yield less than full scale waveforms on logger display) peak square wave or sine wave. Verify frequency using the counter and initial space on the data sheet.
5. Initialize data logger and record a data record of at least 0.1 second using a 100 microsecond or less sample period.
6. Measure the recorded square wave frequency by measuring the duration of 9 cycles of data. This measurement can be made using the data logger display device, or by printing out a paper tape. If a paper tape can be printed, the resulting printout must be attached to this procedure. Record the data in the space provided.
7. Repeat steps 5 and 6 three more times using separate files.

Criteria

The duration for 9 cycles in any file must be 90.0 milliseconds plus or minus 0.9 milliseconds, corresponding to an average frequency for the nine cycles of 100.0 Hz plus or minus 1 Hz (obtained by dividing 9 cycles by the duration in milliseconds).

If the results are outside this range, the data logger must be marked with a GEOVision REJECT tag until it can be repaired and retested.

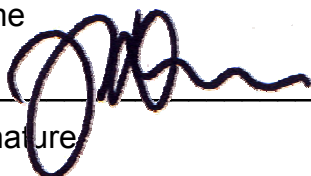
If results are acceptable affix label indicating the initials of the person performing the calibration, the date of calibration, and the due date for the next calibration (12 months).

Procedure Approval

Approved by:

John G. Diehl

Name


Signature

President

Title

April 6, 2006

Date

Client Approval (if required):

Name

Signature

Title

Date

Calibration Report

METROLOGY

7300 Fenwick Lane
Westminster, CA 92683
866-723-2257
edisonmetrology.com

GEOVision Geophysical Services

1151 Pomona Road, Unit P
Corona, CA 92882
P.O. No.: 6162-060414-01

Manufacturer: Oyo Corporation
Model Number: 3331-A
Description: Logger, Suspension,
Asset Number: 19029
Serial Number: 19029

Calibration Date: 04/21/2006
Calibration Due Date: 04/21/2007
Calibration Interval: 12 Months
Condition As Found: In Tolerance
Condition As Left: In Tolerance

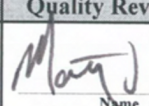
Remarks:

The UUT (unit under test) was calibrated using the customer's procedure. The UUT was operated by the customer's personnel and data collection was observed by SCE personnel. The UUT was found to be in tolerance to customer supplied specifications. The reference standards used are in compliance with ISO/IEC 17025:1999 and laboratory accreditation criteria established by NIST/NVLAP under the specific scope of accreditation for lab code 105014-0. Frequency is accredited.
Please see attached data.

Standards Utilized

I.D. No.	Mfg.	Model No.	Description	Cal. Date	Due Date
S1-01252	Hewlett Packard	5335A OPT 010,203040	Counter, Universal	12/09/2005	06/09/2006
S1-03355	Hewlett Packard	3325B OPT 001, 002	Generator, Function, Synthesizer	11/03/2005	11/03/2006
S1-03686	Fluke	910	Standard, Frequency, Controlled, Gps	01/16/2006	01/16/2007

Procedure: Customer
Temperature: 23° C
Humidity: 40% RH
Test No.: 501206

Calibration Performed By:			Quality Reviewer:	
Branson, Craig A	Metrologist	714-895-0714		04-21-06
Name	Title	Phone	Name	Date

This report may not be reproduced, except in full, without written permission of this laboratory. This report may not be used to claim product endorsement by NVLAP or any agency of the US Government. The results stated in this report relate only to the items tested or calibrated. Measurements reported herein are traceable to SI units via national standards maintained by NIST and were performed in compliance with MIL-STD-45662A, ANSI/NCSL Z540-1-1994, 10CFR50, Appendix B, and ISO 9002-94.