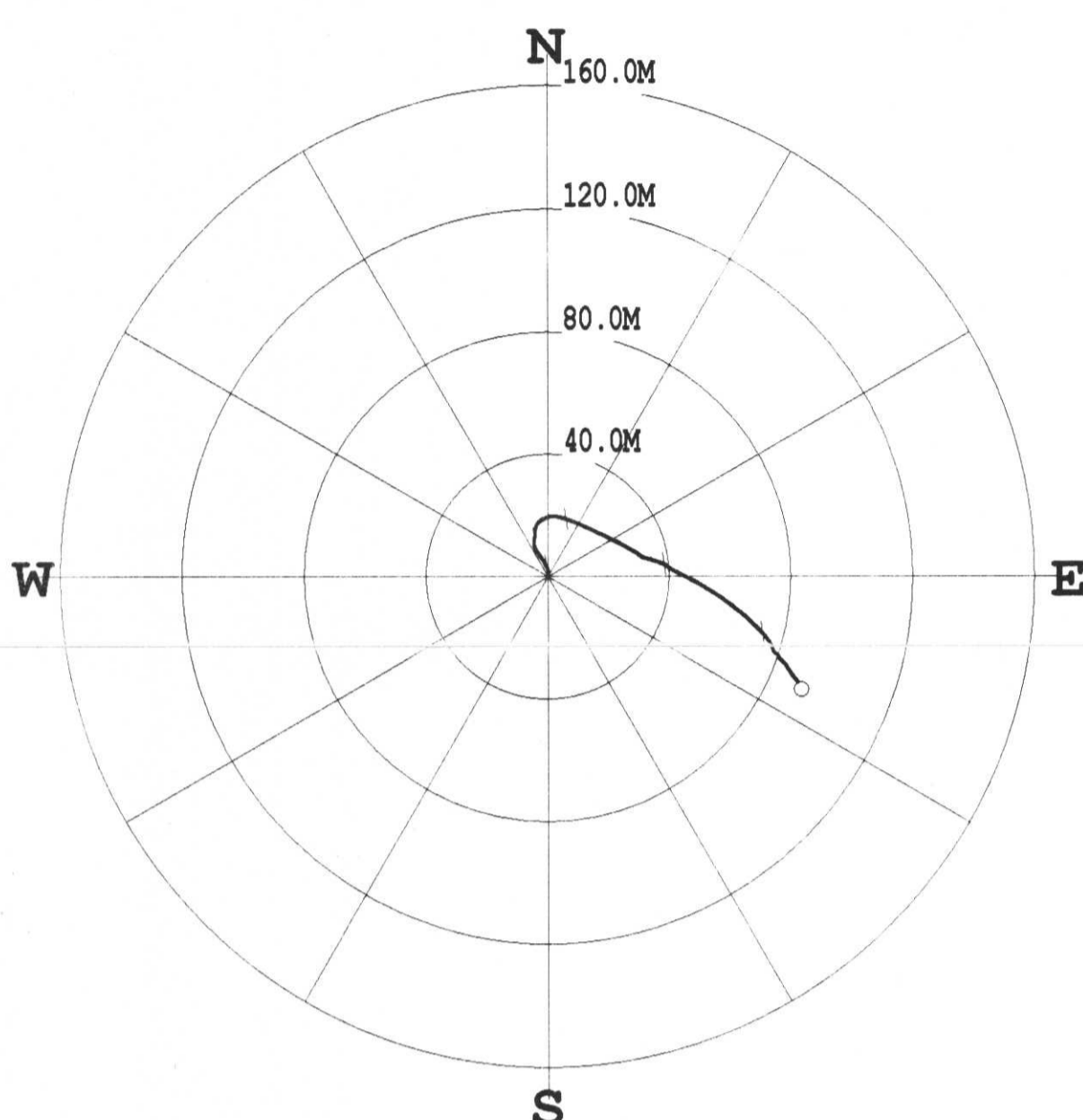


PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION: N/A
 HOLE ID: RH 2849
 DATE OF LOG: 09/24/06
 PROBE: 9057A 1067



SCALE: 20 M/CM
 TRUE DEPTH: 547.36 M
 AZIMUTH: 113.8
 DISTANCE: 91.0 M
 + = 100 M INCR
 ○ = BOTTOM OF HOLE



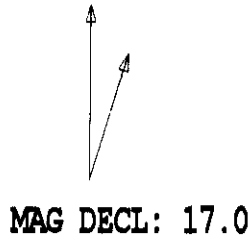
***** COMPU-LOG - VERTICAL DEVIATION *****

CLIENT : ELK VALLEY COAL HOLE ID. : RH 2849
 FIELD OFFICE : DATE OF LOG : 09/24/06
 DATA FROM : N/A PROBE : 9057A 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: RH2849_09-24-06_09-50_9057A_02_3.00_569.22_DEVI log

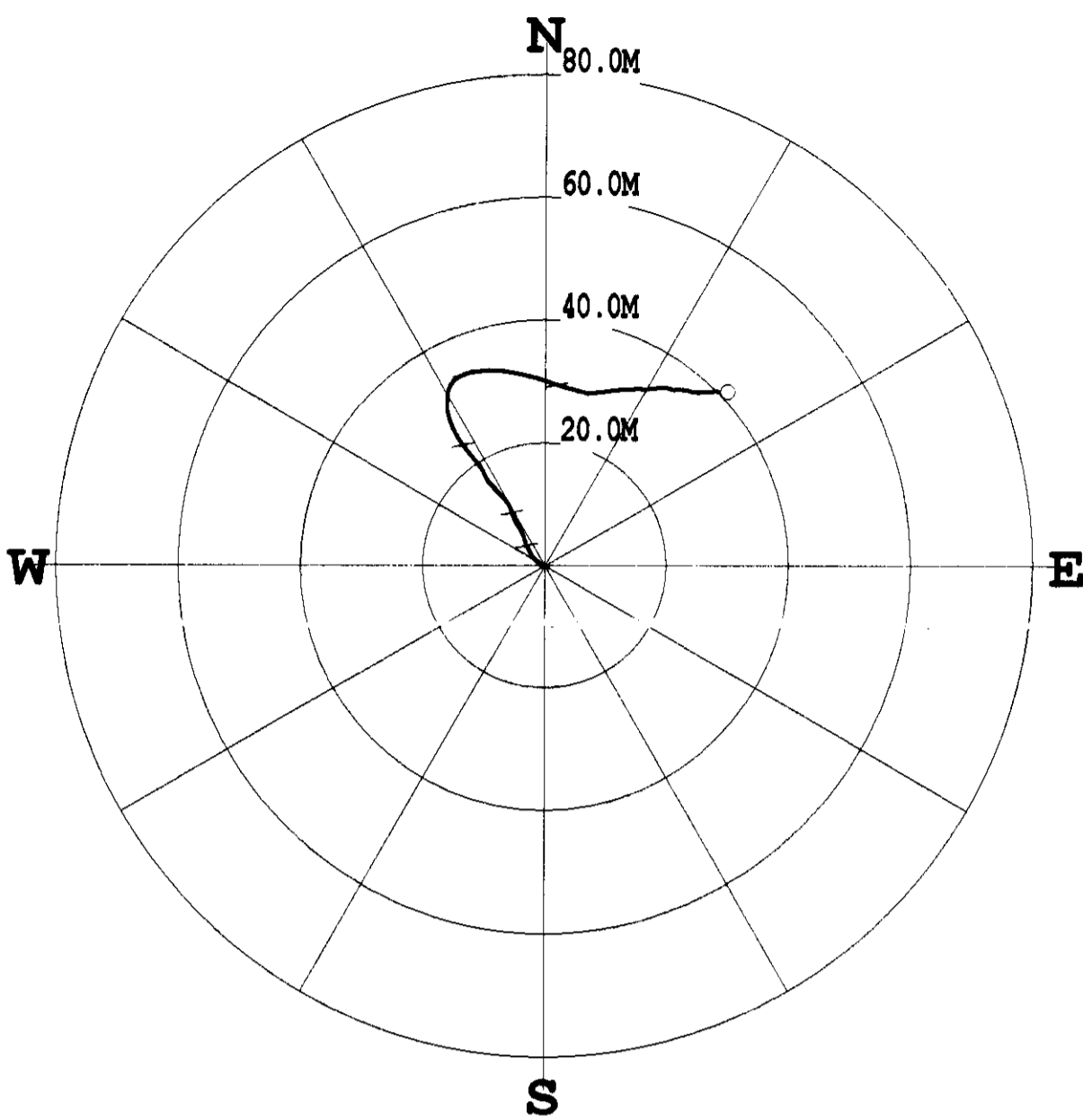
CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
3.00	3.00	-0.00	0.00	0.0	175.4	0.4	175.4
13.00	13.00	-0.07	0.01	0.1	171.0	0.5	132.8
23.00	23.00	-0.05	0.10	0.1	116.7	0.7	57.9
33.00	33.00	0.01	0.20	0.2	86.9	0.6	65.5
43.00	43.00	0.16	0.26	0.3	58.8	1.2	354.7
53.00	52.99	0.45	0.25	0.5	29.0	2.1	7.4
63.00	62.98	0.91	0.22	0.9	13.8	3.2	352.2
73.00	72.96	1.49	0.15	1.5	5.9	3.7	353.8
83.00	82.94	2.11	0.02	2.1	0.6	3.6	345.0
93.00	92.92	2.78	-0.22	2.8	355.4	4.3	343.1
103.00	102.88	3.52	-0.57	3.6	350.8	5.2	333.2
113.00	112.84	4.28	-1.04	4.4	346.3	4.7	327.9
123.00	122.81	5.06	-1.34	5.2	345.1	5.2	322.3
133.00	132.76	5.83	-1.88	6.1	342.1	6.4	325.4
143.00	142.71	6.64	-2.47	7.1	339.6	6.1	319.3
153.00	152.66	7.47	-3.11	8.1	337.4	6.0	324.8
163.00	162.60	8.29	-3.72	9.1	335.8	6.0	324.4
173.00	172.55	9.16	-4.16	10.1	335.5	5.7	342.2
183.00	182.50	10.13	-4.45	11.1	336.3	6.2	356.0
193.00	192.43	11.29	-4.52	12.2	338.2	7.3	4.1
203.00	202.35	12.57	-4.44	13.3	340.5	7.7	7.3
213.00	212.26	13.88	-4.30	14.5	342.8	7.4	3.0
223.00	222.18	15.15	-4.21	15.7	344.5	6.9	10.5
233.00	232.11	16.28	-3.98	16.8	346.3	6.2	11.3
243.00	242.06	17.19	-3.61	17.6	348.1	5.9	28.0
253.00	252.00	17.96	-2.87	18.2	350.9	6.5	50.5
263.00	261.92	18.67	-1.79	18.8	354.5	8.8	63.0
273.00	271.78	19.32	-0.25	19.3	359.2	10.1	68.0
283.00	281.59	19.67	1.58	19.7	4.6	12.2	83.5
293.00	291.34	19.37	3.79	19.7	11.1	13.9	104.6
303.00	301.03	18.67	6.12	19.6	18.1	15.0	105.6
313.00	310.66	17.78	8.67	19.8	26.0	16.1	142.7
323.00	320.22	16.66	11.32	20.1	34.2	17.4	122.8
333.00	329.71	15.37	14.16	20.9	42.6	19.3	119.4
343.00	339.11	13.88	17.20	22.1	51.1	24.1	105.9
353.00	348.43	12.38	20.41	23.9	58.8	21.6	119.2
363.00	357.73	10.73	23.71	26.0	65.5	22.3	120.7
373.00	367.01	8.99	26.94	28.2	71.5	22.0	120.7
383.00	376.43	7.09	30.01	30.7	76.7	21.5	107.8
393.00	385.89	5.00	32.94	33.5	81.1	20.8	104.8
403.00	395.46	2.74	35.74	36.5	84.8	19.6	103.1
413.00	405.12	0.25	38.41	39.7	87.8	17.8	103.1
423.00	413.81	-2.24	40.96	43.0	90.2	15.3	103.1
433.00	423.51	-4.72	43.39	46.5	92.0	12.2	103.1
443.00	433.21	-7.19	45.71	50.1	93.3	8.6	103.1
453.00	442.91	-9.64	47.92	53.9	94.1	4.5	103.1
463.00	452.61	-12.07	50.02	57.8	94.4	0.0	103.1
473.00	462.31	-14.48	52.01	61.9	94.2	-4.5	103.1
483.00	472.01	-16.87	53.89	66.1	93.5	-8.6	103.1
493.00	481.71	-19.24	55.66	70.6	92.3	-12.2	103.1
503.00	491.41	-21.58	57.32	75.3	90.6	-15.3	103.1
513.00	501.11	-23.89	58.87	80.2	88.4	-17.8	103.1
523.00	510.81	-26.17	60.31	85.3	85.7	-19.7	103.1
533.00	520.51	-28.42	61.64	90.5	82.5	-21.0	103.1
543.00	530.21	-30.64	62.86	95.9	78.8	-21.6	103.1
553.00	540.00	-32.83	63.97	101.4	74.6	-21.6	103.1

PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION: N/A
 HOLE ID: RH 2850
 DATE OF LOG: 09/11/06
 PROBE: 9057A 1067



SCALE: 10 M/CM
 TRUE DEPTH: 589.99 M
 AZIMUTH: 46.6
 DISTANCE: 41.1 M
 + = 100 M INCR
 ○ = BOTTOM OF HOLE



* * * * * COMPU-LOG - VERTICAL DEVIATION * * * * *

CLIENT : ELK VALLEY COAL HOLE ID. : RH 2850
 FIELD OFFICE : DATE OF LOG : 09/11/06
 DATA FROM : N/A PROBE : 9057A , 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: RH2850_09-11-06_08-28_9057A_.02_3.00_598.23_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
3.02	3.02	0.00	-0.00	0.0	287.4	0.4	287.4
13.00	13.00	0.09	-0.11	0.1	308.8	1.6	300.8
23.00	22.99	0.25	-0.41	0.5	301.1	2.1	296.4
33.00	32.98	0.44	-0.77	0.9	299.6	2.4	297.9
43.00	42.97	0.67	-1.14	1.3	300.4	2.6	304.8
53.00	52.96	0.95	-1.52	1.8	302.0	2.7	307.9
63.00	62.95	1.28	-1.89	2.3	304.2	3.3	317.2
73.00	72.93	1.77	-2.19	2.8	308.9	3.4	338.7
83.00	82.91	2.33	-2.48	3.4	313.2	3.7	331.6
93.00	92.89	2.92	-2.77	4.0	316.4	3.7	337.3
103.00	102.87	3.49	-3.04	4.6	319.0	3.7	332.3
113.00	112.85	4.07	-3.26	5.2	321.3	3.4	339.6
123.00	122.84	4.55	-3.40	5.7	323.3	2.5	347.1
133.00	132.83	5.00	-3.54	6.1	324.7	2.6	334.7
143.00	142.82	5.42	-3.77	6.6	325.2	3.0	323.3
153.00	152.80	5.89	-4.01	7.1	325.8	3.3	325.9
163.00	162.79	6.37	-4.28	7.7	326.1	3.2	329.6
173.00	172.77	6.89	-4.60	8.3	326.3	3.8	332.7
183.00	182.75	7.47	-4.91	8.9	326.7	4.0	332.6
193.00	192.72	8.13	-5.21	9.7	327.3	4.7	336.7
203.00	202.69	8.89	-5.47	10.4	328.4	4.7	347.4
213.00	212.66	9.62	-5.75	11.2	329.1	4.8	342.6
223.00	222.62	10.33	-6.17	12.0	329.2	5.5	321.9
233.00	232.57	11.08	-6.84	13.0	328.3	6.3	318.5
243.00	242.51	11.87	-7.57	14.1	327.5	6.6	324.9
253.00	252.42	12.85	-8.48	15.4	326.6	8.6	321.5
263.00	262.30	13.99	-9.48	16.9	325.9	8.6	337.7
273.00	272.18	15.37	-10.13	18.4	326.6	9.4	324.3
283.00	282.02	16.83	-11.19	20.2	326.4	11.3	317.8
293.00	291.81	18.37	-12.48	22.2	325.8	10.6	318.1
303.00	301.63	19.86	-13.62	24.1	325.6	10.3	324.0
313.00	311.49	21.29	-14.56	25.8	325.6	9.7	329.7
323.00	321.35	22.76	-15.28	27.4	326.1	9.3	338.3
333.00	331.23	24.22	-15.78	28.9	326.9	8.4	345.3
343.00	341.13	25.61	-16.04	30.2	327.9	7.9	355.3
353.00	351.05	26.90	-16.06	31.3	329.2	6.9	359.8
363.00	360.98	28.00	-15.96	32.2	330.3	6.1	3.6
373.00	370.93	29.00	-15.72	33.0	331.5	5.8	20.5
383.00	380.88	29.85	-15.19	33.5	333.0	6.1	40.6
393.00	390.82	30.60	-14.39	33.8	334.8	6.6	52.5
403.00	400.75	31.10	-13.39	33.9	336.7	6.3	66.4
413.00	410.69	31.46	-12.34	33.8	338.6	6.3	76.3
423.00	420.63	31.62	-11.27	33.6	340.4	6.5	82.5
433.00	430.57	31.73	-10.13	33.3	342.3	6.9	83.4
443.00	440.48	31.81	-8.82	33.0	344.5	8.4	89.9
453.00	450.37	31.75	-7.31	32.6	347.0	9.2	94.6
463.00	460.23	31.52	-5.67	32.0	349.8	9.3	109.8
473.00	470.08	31.21	-4.02	31.5	352.7	9.8	88.8
483.00	479.90	30.78	-2.20	30.9	355.9	11.7	101.0
493.00	489.68	30.20	-0.19	30.2	359.6	12.7	108.3
503.00	499.43	29.52	1.90	29.6	3.7	13.3	108.2

* * * * * COMPU-LOG - VERTICAL DEVIATION * * * * *

CLIENT : ELK VALLEY COAL HOLE ID. : RH 2850
 FIELD OFFICE : DATE OF LOG : 09/11/06
 DATA FROM : N/A PROBE : 9057A , 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: RH2850_09-11-06_08-28_9057A_.02_3.00_598.23_DEVI.log

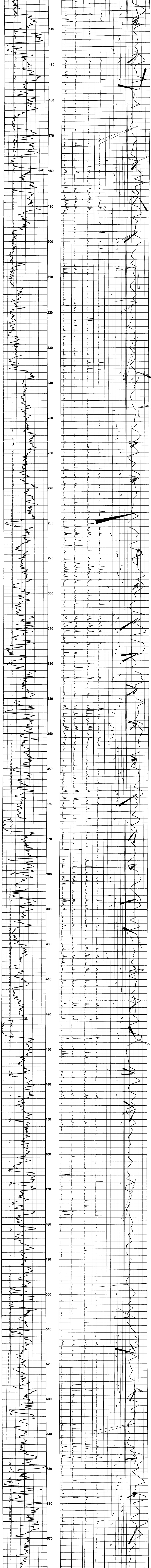
CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
513.00	509.15	28.83	4.14	29.1	8.2	13.8	99.2
523.00	518.83	28.18	6.55	28.9	13.1	15.3	106.6
533.00	528.45	28.31	9.24	29.8	18.1	16.3	82.8
543.00	538.01	28.66	12.14	31.1	23.0	17.7	85.9
553.00	547.53	28.80	15.18	32.6	27.8	17.4	88.6
563.00	557.03	28.93	18.25	34.2	32.3	18.8	84.6
573.00	566.49	28.67	21.42	35.8	36.8	19.2	86.3
583.00	575.89	28.32	24.73	37.6	41.1	21.1	95.4
593.00	585.25	28.36	28.22	40.0	44.9	17.8	128.1
598.06	589.99	28.27	29.90	41.1	46.6	20.8	88.1

COMPANY	ELK VALLEY COAL	OTHER SERVICES	3907
WELL	RH 2850	3907	3209
FIELD	VA	3907	3209
MUNICIPALITY	ELK FORD		
PRECINCT	ELK FORD		
LOCATION	ELK FORD		
SECTION	ELK FORD		
RANGE	VA		
APNO	VA		
UNIT/DEPT WELL ID	VA		
PERMANENT TOOL JOI	VA		
LOG MEASUREMENT FROM OI	ELEVATION OF N/A		
DATE	ELEVATION OF N/A		
DEPTH (METER)	ELEVATION OF N/A		
BIT SIZE	9999		
LOG TOP	8.53		
LOG BOTTOM	5.26		
CORRECTION	STEEL		
CONDUCTIVITY	WATERS		
ROBERTSON FLUID	WATERS		
IRON TEMPERATURE	N/A		
WILD RES	N/A		
WILD NEIGHT	N/A		
WITNESSED BY	R/HEK		
RECORDED BY	51Z 74B 02 27 M. 51M 810 51M 810 7D		
REMARKS 1	N/A		
REMARKS 2	N/A		

1:200 DIPMETER RH 2850 09/22/06

LOG PARAMETERS
 MATRIX DENSITY : 2.65
 NEUTRON MATRIX : SANDSTONE
 ELECT. CUTOFF : 999999
 MATRIX DELTA T : 177
 BIT SIZE : 13.018

PRESENTATION NAME/DATE = dipc1-200a.0 09/05/2006



1:200 DIPMETER RH 2850 09/22/06

LOG PARAMETERS
 MATRIX DENSITY : 2.65
 NEUTRON MATRIX : SANDSTONE
 ELECT. CUTOFF : 999999
 MATRIX DELTA T : 177
 BIT SIZE : 13.018

PRESENTATION NAME/DATE = dipc1-200a.0 09/05/2006

TOOL CALIBRATION RH 2850 09/22/06 08:56
 TOOL 840A TM VERSION 1
 SERIAL NUMBER 387

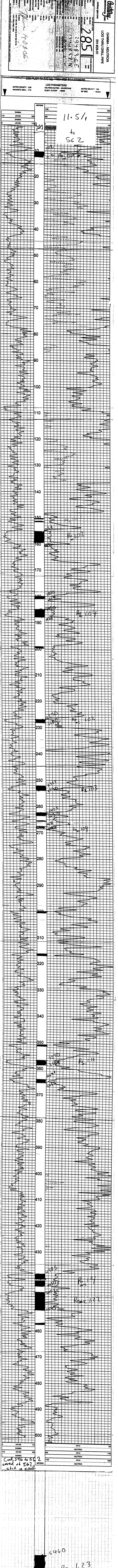
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Aug28,06 09:37:16	CUR4	1.000 [UA]	1.00 [CPS]
	Aug28,06 09:37:16	CUR4	283.000 [UA]	288.00 [CPS]
2	Mar23,06 09:28:46	CALIPER1	6.371 [INCH]	100.00 [CPS]
	Mar23,06 09:28:46	CALIPER1	384.900 [INCH]	5000.00 [CPS]
	Mar23,06 09:28:46	CALIPER1	400.000 [INCH]	737.00 [CPS]
3	Mar23,06 09:28:26	CALIPER2	7000.000 [INCH]	12935.00 [CPS]
4	Mar23,06 09:28:42	XINCL	400.000 [MV]	875.00 [CPS]
	Mar23,06 09:28:42	XINCL	7000.000 [MV]	15240.00 [CPS]
5	Mar23,06 09:28:57	YINCL	400.000 [MV]	855.00 [CPS]
	Mar23,06 09:28:57	YINCL	7000.000 [MV]	10290.00 [CPS]
6	Mar23,06 09:28:14	XFLUX	400.000 [MV]	690.00 [CPS]
	Mar23,06 09:28:14	XFLUX	7000.000 [MV]	12380.00 [CPS]
7	Aug24,06 12:37:11	YFLUX	16.240 [MV]	5248.00 [CPS]
	Aug24,06 12:37:11	YFLUX	26.400 [MV]	11681.00 [CPS]
8	Aug24,06 12:37:35	ZFLUX	16.240 [MV]	6118.00 [CPS]
	Aug24,06 12:37:35	ZFLUX	26.400 [MV]	12536.00 [CPS]
9	Dec19,02 12:52:27	CUR5	1200.000 [UA]	1635.00 [CPS]
	Dec19,02 12:52:27	CUR5	7000.000 [UA]	8900.00 [CPS]

COMPANY : CENTURY GEOLOGICAL
 WELL : 2851
 FIELD :
 LOCATION :
 DATE : 07/26/06
 LOG TYPE : LOG THRU DRILL PIPE
 LOG INTERVAL : 0.00 TO 500.00 METERS
 LOG START : 0.00 METERS
 LOG STOP : 500.00 METERS
 LOG TYPE : LOG THRU DRILL PIPE
 LOG INTERVAL : 0.00 TO 500.00 METERS
 LOG START : 0.00 METERS
 LOG STOP : 500.00 METERS

LOG PARAMETERS
 NEUTRON MATRIX : SANDSTONE
 ELCT. CUTOFF : 66666
 MATRIX DELTA T : 140
 BIT SIZE : 13.018

200 PLOT RATIO top
 29483.56
 134183.33 N

MATRIX DENSITY : 2.68
 MAGNETIC DECL. : 17.0

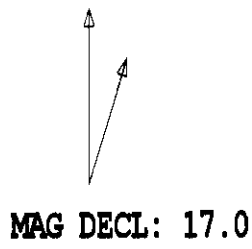


Coal 546 to 562 covered at 562 still in coal

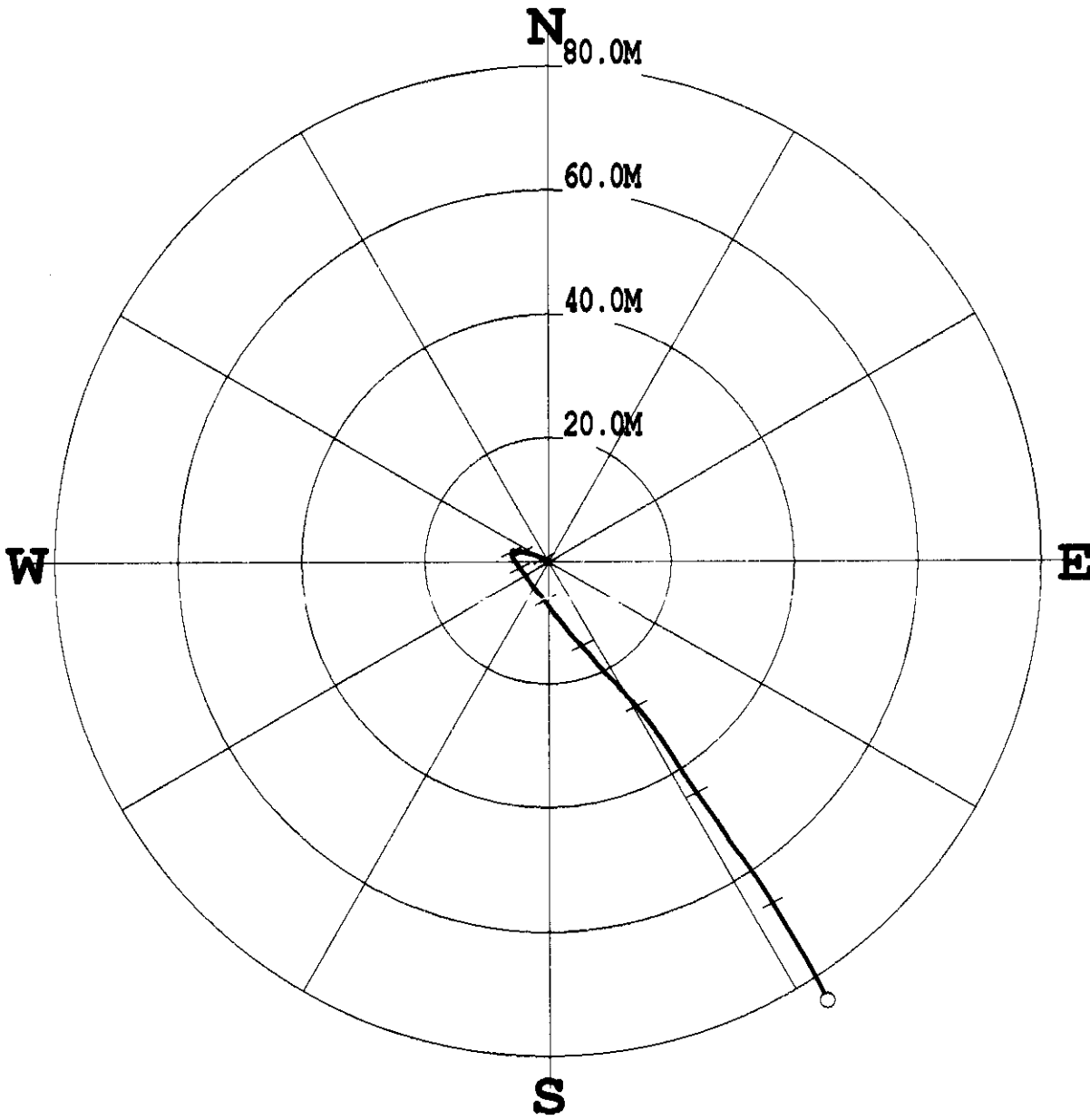
5460
 Romr 1.23
 562.0 end in coal

PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION:
 HOLE ID: RH #28-51
 DATE OF LOG: 07/29/06
 PROBE: 9096 1211



SCALE: 10 M/CM
 TRUE DEPTH: 486.47 M
 AZIMUTH: 147.6
 DISTANCE: 84.1 M
 + = 50 M INCR
 ○ = BOTTOM OF HOLE



* * * * * COMPU-LOG - VERTICAL DEVIATION * * * * *

CLIENT : ELK VALLEY COAL HOLE ID. : RH #28-51
 FIELD OFFICE : DATE OF LOG : 07/29/06
 DATA FROM : PROBE : 9096 , 1211
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: RH#28-51_07-29-06_17-32_9096_1_-1.30_501.50_GYRO.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
0.0	-0.00	0.00	0.00	0.0	0.0	0.5	58.6
10.0	10.00	0.05	0.10	0.1	63.2	0.7	76.7
20.0	20.00	0.13	0.19	0.2	55.2	0.6	36.0
30.0	30.00	0.24	0.17	0.3	34.7	1.0	310.1
40.0	39.99	0.39	-0.15	0.4	339.2	2.8	290.9
50.0	49.97	0.57	-0.69	0.9	309.9	3.6	287.5
60.0	59.95	0.80	-1.34	1.6	300.7	4.0	293.3
70.0	69.92	1.06	-2.01	2.3	297.9	4.4	291.0
80.0	79.89	1.33	-2.80	3.1	295.4	5.1	289.8
90.0	89.86	1.51	-3.54	3.9	293.2	4.2	281.6
100.0	99.83	1.65	-4.24	4.5	291.3	3.8	275.1
110.0	109.81	1.75	-4.87	5.2	289.7	3.4	277.0
120.0	119.80	1.81	-5.39	5.7	288.6	2.7	275.1
130.0	129.79	1.84	-5.75	6.0	287.7	1.2	274.7
140.0	139.79	1.80	-5.92	6.2	287.0	1.3	241.4
150.0	149.79	1.65	-6.01	6.2	285.3	1.3	193.6
160.0	159.79	1.37	-6.01	6.2	282.9	1.9	170.2
170.0	169.78	0.99	-5.88	6.0	279.5	2.7	159.3
180.0	179.76	0.49	-5.65	5.7	274.9	3.6	143.6
190.0	189.73	-0.14	-5.24	5.2	268.5	4.8	147.9
200.0	199.69	-0.92	-4.68	4.8	258.9	6.2	143.5
210.0	209.63	-1.81	-4.02	4.4	245.7	6.4	141.5
220.0	219.55	-2.60	-3.34	4.4	230.0	7.3	145.5
230.0	229.46	-3.89	-2.58	4.7	213.6	7.8	143.8
240.0	239.36	-4.96	-1.67	5.2	198.6	8.5	140.0
250.0	249.25	-6.15	-0.71	6.2	186.5	9.1	139.3
260.0	259.11	-7.47	0.27	7.5	177.9	9.8	144.2
270.0	268.95	-8.85	1.38	9.0	171.1	10.7	139.4
280.0	278.78	-10.31	2.52	10.6	166.3	10.7	143.5
290.0	288.60	-11.80	3.68	12.4	162.7	11.2	139.2
300.0	298.37	-13.34	5.09	14.3	159.1	12.8	136.5
310.0	308.11	-15.02	6.62	16.4	156.2	13.4	142.3
320.0	317.83	-16.86	8.11	18.7	154.3	14.0	140.7
330.0	327.51	-18.70	9.78	21.1	152.4	14.8	138.7
340.0	337.16	-20.63	11.59	23.7	150.7	15.9	139.3
350.0	346.74	-22.74	13.49	26.4	149.3	17.2	137.8
360.0	356.30	-24.99	15.38	29.3	148.4	17.4	141.4
370.0	365.81	-27.44	17.24	32.4	147.9	18.2	147.9
380.0	375.29	-30.06	19.07	35.6	147.6	19.0	145.5
390.0	384.72	-32.85	20.84	38.9	147.6	19.5	147.5
400.0	394.13	-35.69	22.68	42.3	147.6	20.0	144.9
410.0	403.52	-38.52	24.66	45.7	147.4	20.5	145.0
420.0	412.80	-41.55	26.81	49.4	147.2	22.5	144.5
430.0	422.02	-44.77	28.94	53.3	147.1	23.5	150.4
440.0	431.17	-48.02	31.33	57.3	146.9	24.2	141.4
450.0	440.28	-51.35	33.71	61.4	146.7	24.5	146.2
460.0	449.36	-54.90	35.98	65.6	146.8	25.2	145.2
470.0	458.40	-58.55	38.16	69.9	146.9	25.6	149.6
480.0	467.41	-62.28	40.41	74.2	147.0	26.1	147.9
490.0	476.35	-66.16	42.62	78.7	147.2	27.3	151.7
500.0	485.16	-70.36	44.80	83.4	147.5	29.2	152.9
501.5	486.47	-71.02	45.13	84.1	147.6	29.2	152.9

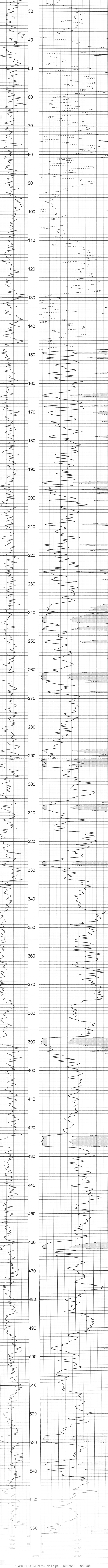
COMPANY	ELVALEY COAL	OTHER SERVICES	9029
WELL	RH 2849	LOG DATE	09/24
MUNICIPALITY	BRITISH COL. UMBRA	LOG TIME	15:30
PROVINCE	BRITISH COL. UMBRA	LOG DEPTH	110
LOCATION	BEAR MTN	LOG INTERVAL	1.00
SECTION	NA	LOG START	0
TOWNSHIP	NA	LOG STOP	110
RANGE	NA	LOG TOP	0
API NO.	NA	LOG BOTTOM	110
UNIQUE WELL ID	NA	CASING OD	15.240
PERMANENT DATA	NA	CASING TYPE	STEEL
LOG MEASURED FROM	GL	ROD TEMP. FLUID	WATER
ELEVATION GL	NA	RND TEMPERATURE	NA
ELEVATION NA	NA	WMD RESS	NA
LOG MEASURED FROM	GL	WMD WEIGHT	NA
DATE	09/24/06	WMD RESIST	NA
DRILLER	5014	WMD RESIST BY	NA
LOG NO.	09/24	RESISTED BY	NA
LOG FILE	09/24	REMARKS 1	512'-IN TO 215' M. SIZE 7/8" TO 3/8" M. SIF. RB TO 445' M. SIF. RB TO 1'
LOG TOP	0	REMARKS 2	NA
LOG BOTTOM	110	REMARKS 3	NA

LOG START : 0
LOG STOP : 110
LOG INTERVAL : 1.00
LOG TOP : 0
LOG BOTTOM : 110
CASING OD : 15.240
CASING TYPE : STEEL
ROD TEMP. FLUID : WATER
RND TEMPERATURE : NA
WMD RESS : NA
WMD WEIGHT : NA
WMD RESIST : NA
WMD RESIST BY : NA
RESISTED BY : NA
REMARKS 1 : 512'-IN TO 215' M. SIZE 7/8" TO 3/8" M. SIF. RB TO 445' M. SIF. RB TO 1'
REMARKS 2 : NA
REMARKS 3 : NA
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

1:200 NEUTRON thru drill pipe RH 2849 09/24/06

MATRIX DENSITY : 2.65
MAGNETIC DECL. : 17.0
PRESENTATION NAME/DATE : 9087A.0 09/24/2006

LOG PARAMETERS
NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 99999
MATRIX DELTA T : 177
BIT SIZE : 13.018



1:200 NEUTRON thru drill pipe RH 2849 09/24/06

MATRIX DENSITY : 2.65
MAGNETIC DECL. : 17.0
PRESENTATION NAME/DATE : 9087A.0 09/24/2006

LOG PARAMETERS
NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 99999
MATRIX DELTA T : 177
BIT SIZE : 13.018





COMPENSATED DENSITY
GAMMA - CALIPER - RES.
RH 2852

2852

30073.6 E.
13986.3 N.
2295.4

OTHER SERVICES
9079
9239
NA

Century-geo.com
SUNWAY : ELK VALLEY CO. PA 15232
WELL : NA
ALUMINUM PAULTY : ELK FORD
REGION : BRUSH COUNTS-A
LOCATION : BEAR MTH
COMPASS : NA
AZIMUTH : NA
WELL ID : NA
ELEVATION : NA
ELEVATION FC : NA
ELEVATION GL : NA
CORRECTION : NA
ELEVATION : NA
ELEVATION FC : NA
ELEVATION GL : NA
FILE MEASURED FROM : GL
DATE : 09/14/06

MARKING 1 :
MARKING 2 :
MARKING 3 :
ALL SERVICES PROVIDED TO STANDARD TERMS AND CONDITIONS

2295-06

1:200 BULK DENSITY RH 2852 09/14/06

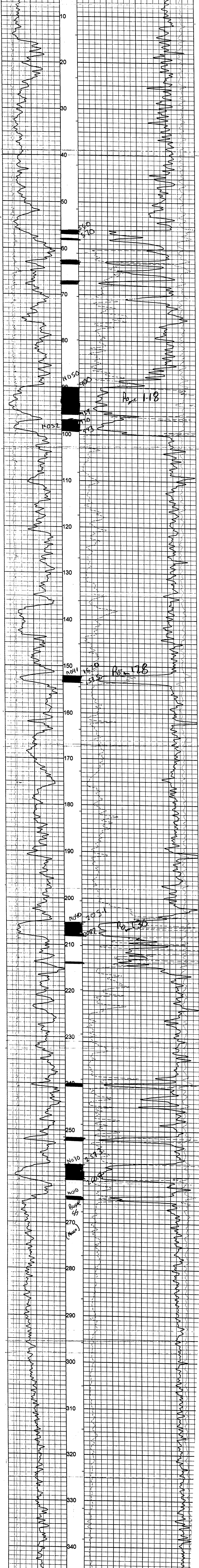
MATRIX DENSITY : 2.65
MAGNETIC DECL. : 17.0

LOG PARAMETERS
NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 99999

MATRIX DELTA T : 177
BIT SIZE : 13.335

PRESENTATION NAME/DATE = 9239C1.0 09/08/2006

14/1



CALIPERL
10 CM
30
GAMMA
225 API-GR
450
GAMMA
API-GR
0 225

METERS
SPEED-
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350

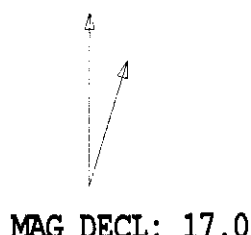
COMP
0.25 GICC 0.25

API-GR 0 225

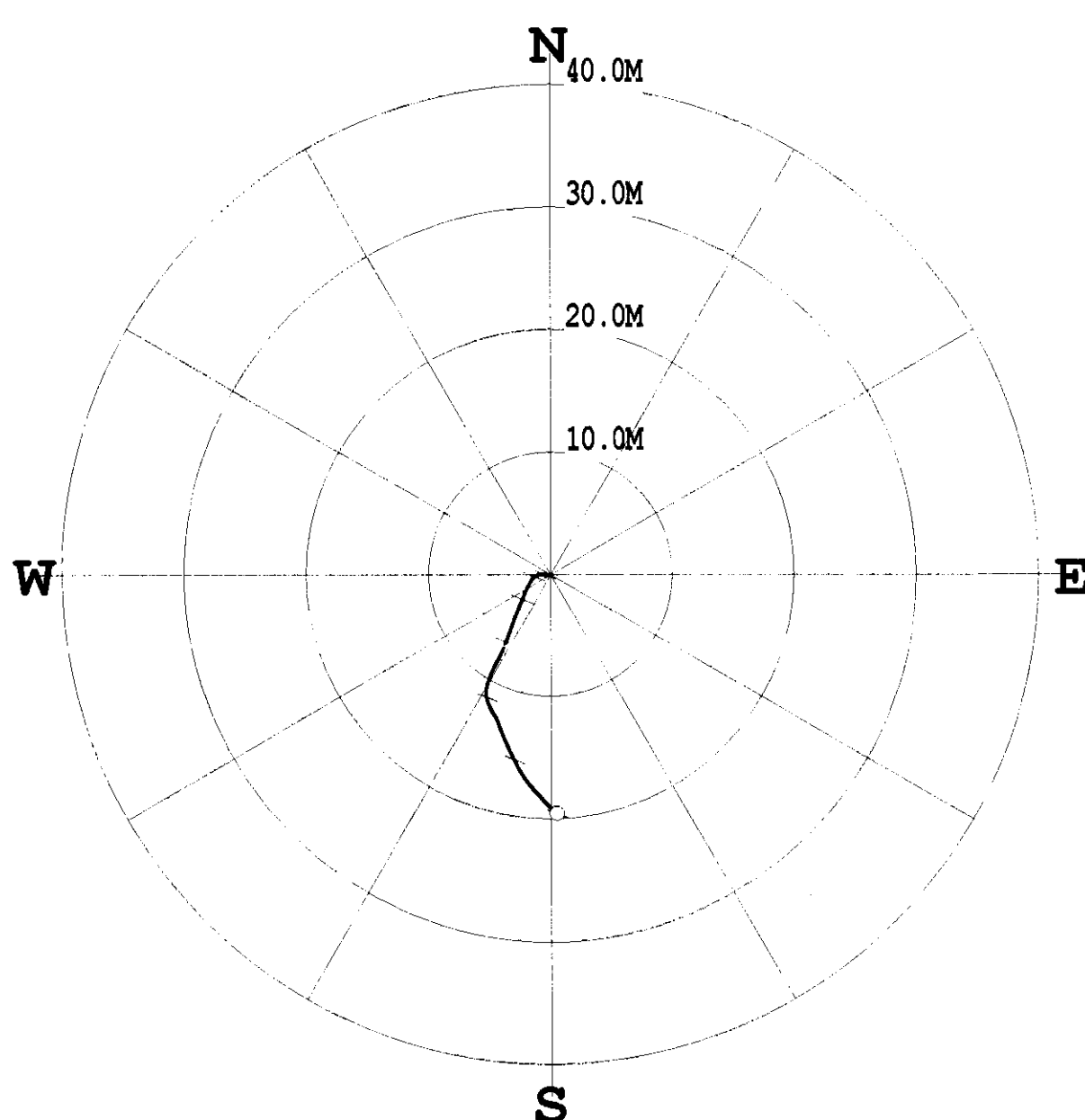
CHMM

PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION: N/A
 HOLE ID: RH 2852
 DATE OF LOG: 09/14/06
 PROBE: 9057A 1067



SCALE: 5 M/CM
 TRUE DEPTH: 348.93 M
 AZIMUTH: 178.5
 DISTANCE: 19.5 M
 + = 50 M INCR
 ○ = BOTTOM OF HOLE



* * * * * COMPU-LOG - VERTICAL DEVIATION * * * * *

CLIENT : ELK VALLEY COAL HOLE ID. : RH 2852
 FIELD OFFICE : DATE OF LOG : 09/14/06
 DATA FROM : N/A PROBE : 9057A , 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: RH2852_09-14-06_10-47_9057A_.02_3.00_350.20_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
3.00	3.00	-0.00	0.00	0.0	131.5	0.5	131.5
13.00	13.00	-0.01	-0.10	0.1	264.0	0.6	268.4
23.00	23.00	-0.01	-0.18	0.2	268.3	0.3	263.5
33.00	33.00	-0.01	-0.28	0.3	268.8	0.7	269.8
43.00	43.00	0.00	-0.38	0.4	270.2	0.7	284.3
53.00	53.00	0.01	-0.51	0.5	271.5	1.0	271.2
63.00	63.00	0.03	-0.64	0.6	273.0	0.7	290.9
73.00	72.99	0.04	-0.80	0.8	273.1	1.1	272.2
83.00	82.99	0.01	-1.00	1.0	270.7	1.4	255.9
93.00	92.99	-0.07	-1.21	1.2	266.5	1.3	252.5
103.00	102.99	-0.20	-1.40	1.4	261.7	1.5	228.3
113.00	112.98	-0.43	-1.59	1.6	254.7	1.9	213.2
123.00	122.98	-0.75	-1.76	1.9	247.1	2.3	206.8
133.00	132.97	-1.14	-1.97	2.3	239.9	2.6	203.1
143.00	142.95	-1.61	-2.17	2.7	233.4	3.2	200.8
153.00	152.93	-2.16	-2.39	3.2	227.8	3.6	203.5
163.00	162.91	-2.79	-2.65	3.8	223.5	4.2	209.0
173.00	172.88	-3.49	-2.94	4.6	220.1	4.6	206.0
183.00	182.85	-4.24	-3.21	5.3	217.1	4.8	205.1
193.00	192.82	-4.98	-3.47	6.1	214.9	4.2	207.9
203.00	202.79	-5.68	-3.75	6.8	213.4	4.5	195.6
213.00	212.76	-6.41	-4.07	7.6	212.4	4.7	208.9
223.00	222.72	-7.20	-4.48	8.5	211.9	5.9	202.2
233.00	232.66	-8.17	-4.93	9.5	211.1	6.1	203.9
243.00	242.60	-9.23	-5.26	10.6	209.7	6.3	190.7
253.00	252.54	-10.27	-5.22	11.5	206.9	6.3	184.7
263.00	262.48	-11.24	-4.79	12.2	203.1	6.2	144.9
273.00	272.42	-12.22	-4.30	12.9	199.4	6.4	154.5
283.00	282.35	-13.29	-3.88	13.8	196.3	6.6	159.1
293.00	292.29	-14.30	-3.42	14.7	193.5	6.5	155.3
303.00	302.23	-15.27	-2.95	15.5	190.9	6.2	156.1
313.00	312.17	-16.23	-2.41	16.4	188.4	6.6	147.7
323.00	322.10	-17.17	-1.72	17.3	185.7	6.9	139.4
333.00	332.03	-18.05	-0.96	18.1	183.0	6.6	127.5
343.00	341.96	-18.90	-0.14	18.9	180.4	7.1	137.6
350.02	348.93	-19.47	0.50	19.5	178.5	7.7	137.1

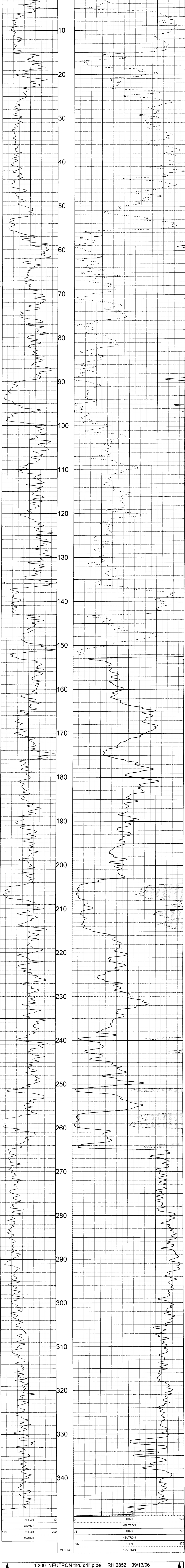
Century GEOPHYSICAL CORP. century-geo.com		GAMMA - NEUTRON LOG THRU DRILL PIPE RH 2852	
COMPANY	ELK VALLEY COAL	OTHER SERVICES	
WELL	RH 2852	9657	
FIELD	VA	9239	
MUNICIPALITY	ELK FORD	N/A	
COUNTY	BERNARD		
STATE	KY		
SECTION	VA		
TOWNSHIP	VA		
RANGE	VA		
API NO.	VA		
UNIQUE WELL ID	VA		
PERMANENT TATUM	GL	ELEVATION KB	VA
LOG MEASURED FROM	GL	ELEVATION DF	VA
DATE	9/13/06	ELEVATION GL	VA
DEPTH ORILLER	9239		
LOG TOP	0.38		
LOG BOTTOM	348.75		
CASING OD	15.24		
CASING ID	11.43		
CASING TYPE	STEEL		
BOREHOLE FLUID	WATER		
BM TEMPERATURE	N/A		
MUD RES	N/A		
MUD WEIGHT	N/A		
WITNESSED BY	SSS		
RECORDED BY	RJHCK		
REMARKS 1	512'-18" TO 310' M. SW - RB TO TD		
REMARKS 2	LOG THRU DRILL PIPE		
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS.			

1:200 NEUTRON thru drill pipe RH 2852 09/13/06

MATRIX DENSITY : 2.65
 MAGNETIC DECL : 17.0
 PRESENTATION NAME/DATE = 9067A.0 09/13/2006

LOG PARAMETERS
 NEUTRON MATRIX : SANDSTONE
 ELECT CUTOFF : 99999

MATRIX DELTA T : 177
 BIT SIZE : 13.335



1:200 NEUTRON thru drill pipe RH 2852 09/13/06

MATRIX DENSITY : 2.65
 MAGNETIC DECL : 17.0
 PRESENTATION NAME/DATE = 9067A.0 09/13/2006

LOG PARAMETERS
 NEUTRON MATRIX : SANDSTONE
 ELECT CUTOFF : 99999

MATRIX DELTA T : 177
 BIT SIZE : 13.335

TOOL CALIBRATION RH 2852 09/13/06 07:01
 TOOL 9067A TM VERSION 1
 SERIAL NUMBER 530

DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Sep03.06 10:46:48	GAMMA	1000 [API-GR]	1.00 [CPS]
	Sep03.06 10:46:48	GAMMA	250000 [API-GR]	80.00 [CPS]
2	Sep03.06 10:47:15	NEUTRON	1000 [API-N]	1.00 [CPS]
	Sep03.06 10:47:15	NEUTRON	500000 [API-N]	500.00 [CPS]

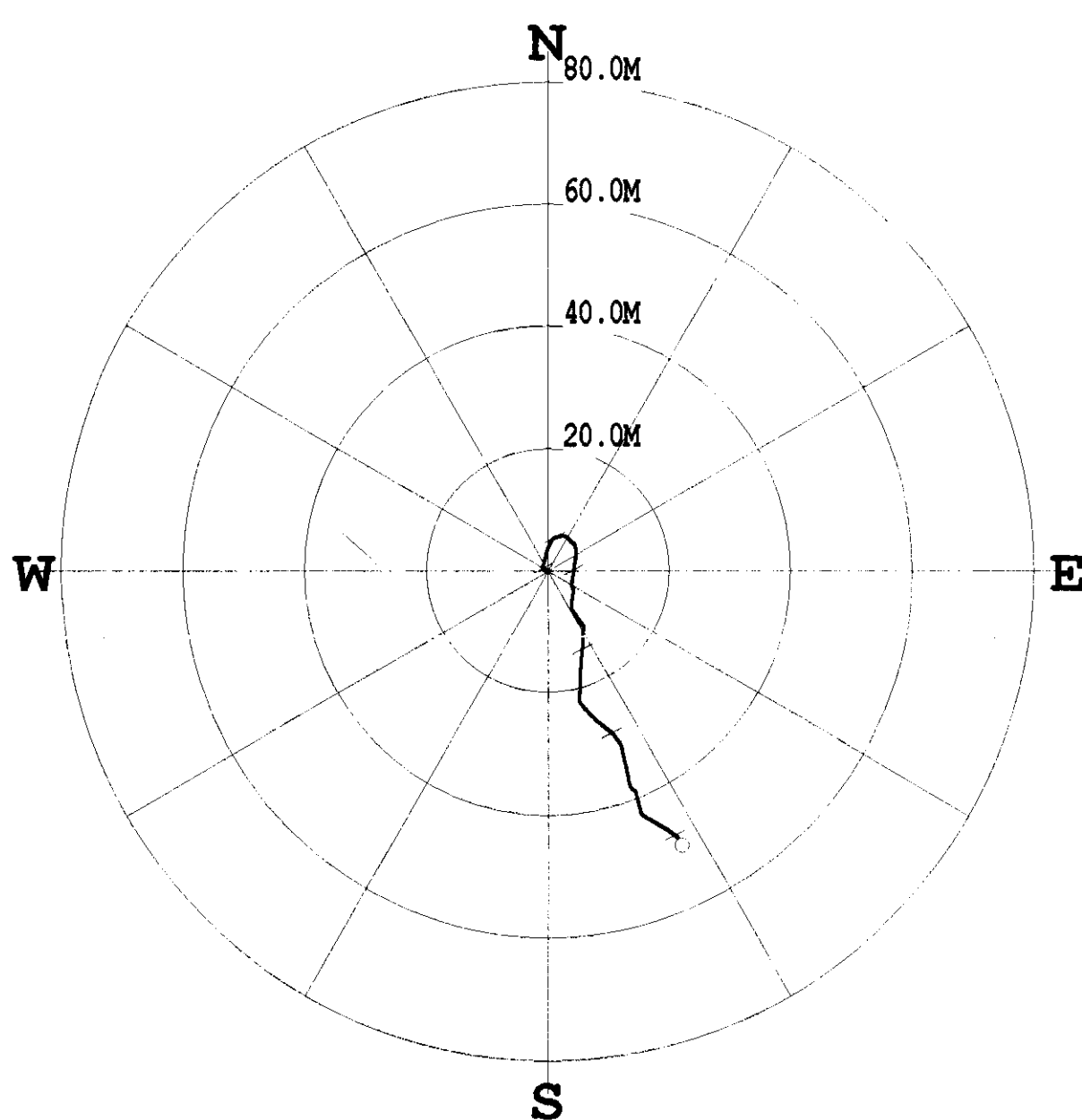
PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION: N/A
 HOLE ID: RH #28-53
 DATE OF LOG: 06/28/06
 PROBE: 9057A 1067



MAG DECL: 17.0

SCALE: 10 M/CM
 TRUE DEPTH: 608.67 M
 AZIMUTH: 153.8
 DISTANCE: 49.9 M
 + = 100 M INCR
 O = BOTTOM OF HOLE



***** COMPU-LOG - VERTICAL DEVIATION *****

CLIENT : ELK VALLEY COAL HOLE ID. : RH #28-53
 FIELD OFFICE : DATE OF LOG : 06/28/06
 DATA FROM : N/A PROBE : 9057A , 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: RH#28-53_06-28-06_09-00_9057A_02_3.00_614.23_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGE
3.0	3.02	0.00	-0.00	0.0	301.3	0.3	301.3
13.0	13.00	-0.02	0.01	0.0	159.8	0.3	215.1
23.0	23.00	-0.08	-0.02	0.1	193.4	0.4	232.0
33.0	33.00	-0.10	-0.07	0.1	215.9	0.5	288.1
43.0	43.00	-0.08	-0.15	0.2	242.7	0.6	287.9
53.0	53.00	-0.02	-0.23	0.2	264.7	0.5	317.0
63.0	63.00	0.07	-0.30	0.3	282.5	0.7	313.1
73.0	73.00	0.19	-0.39	0.4	295.7	0.8	310.5
83.0	83.00	0.30	-0.52	0.6	300.5	0.9	309.7
93.0	92.99	0.41	-0.64	0.8	303.0	1.2	317.8
103.0	102.99	0.59	-0.77	1.0	307.2	1.1	329.7
113.0	112.99	0.78	-0.83	1.1	313.2	1.3	355.6
123.0	122.98	1.07	-0.78	1.3	323.8	2.0	19.0
133.0	132.98	1.45	-0.64	1.6	336.3	2.6	22.8
143.0	142.96	1.94	-0.49	2.0	345.7	3.2	20.0
153.0	152.95	2.51	-0.34	2.5	352.2	3.4	12.9
163.0	162.93	3.13	-0.19	3.1	356.5	3.7	15.5
173.0	172.90	3.75	0.01	3.7	0.1	3.8	15.4
183.0	182.88	4.36	0.28	4.4	3.7	3.6	48.7
193.0	192.86	4.96	0.62	5.0	7.1	4.3	25.2
203.0	202.83	5.45	1.14	5.6	11.8	4.9	68.9
213.0	212.81	5.64	1.74	5.9	17.1	3.4	79.2
223.0	222.79	5.74	2.35	6.2	22.2	3.8	91.9
233.0	232.77	5.60	2.90	6.3	27.4	3.1	113.5
243.0	242.76	5.31	3.30	6.3	31.9	3.0	142.1
253.0	252.74	4.79	3.72	6.1	37.8	4.1	159.4
263.0	262.70	4.32	4.30	6.1	44.9	5.1	150.8
273.0	272.66	3.43	4.52	5.7	52.8	5.6	175.1
283.0	282.60	2.35	4.52	5.1	62.5	6.8	183.9
293.0	292.52	1.11	4.30	4.4	75.5	7.1	187.6
303.0	302.44	-0.08	4.15	4.2	91.2	7.1	194.5
313.0	312.37	-1.27	3.96	4.2	107.8	7.0	180.9
323.0	322.29	-2.50	3.93	4.7	122.4	7.6	175.2
333.0	332.20	-3.71	4.05	5.5	132.5	7.3	189.8
343.0	342.11	-5.01	3.92	6.3	142.6	7.9	192.7
353.0	352.02	-6.28	3.94	7.4	147.9	8.2	140.0
363.0	361.92	-7.49	4.75	8.9	147.6	8.8	143.8
373.0	371.79	-8.74	5.67	10.4	147.0	9.4	144.3
383.0	381.66	-10.25	5.66	11.7	151.1	9.0	174.7
393.0	391.56	-11.65	5.66	12.9	154.1	7.6	174.7
403.0	401.48	-12.94	5.54	14.1	156.8	7.5	180.4
413.0	411.39	-14.26	5.41	15.3	159.2	7.7	189.8
423.0	421.29	-15.67	5.33	16.6	161.2	8.3	178.5
433.0	431.17	-17.16	5.23	17.9	163.1	9.1	182.2
443.0	441.05	-18.66	5.21	19.4	164.4	8.8	182.6
453.0	450.93	-20.20	5.15	20.8	165.7	9.0	180.3
463.0	460.80	-21.72	5.27	22.4	166.4	9.8	130.7
473.0	470.64	-22.99	6.46	23.9	164.3	10.0	139.0
483.0	480.49	-24.22	7.64	25.4	162.5	9.8	141.6
493.0	490.33	-25.36	9.01	26.9	160.4	10.7	119.5
503.0	500.15	-26.55	10.47	28.5	158.5	10.4	138.6

***** COMPU-LOG - VERTICAL DEVIATION *****

CLIENT : ELK VALLEY COAL HOLE ID. : RH #28-53
 FIELD OFFICE : DATE OF LOG : 06/28/06
 DATA FROM : N/A PROBE : 9057A , 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: RH#28-53_06-28-06_09-00_9057A_02_3.00_614.23_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGE
513.0	509.96	-28.02	11.61	30.3	157.5	10.0	146.6
523.0	519.80	-29.58	12.21	32.0	157.6	10.4	167.9
533.0	529.63	-31.35	12.60	33.8	158.1	10.4	164.9
543.0	539.46	-33.12	13.03	35.6	158.5	10.9	163.9
553.0	549.28	-34.92	13.43	37.4	159.0	11.0	153.7
563.0	559.08	-36.49	14.46	39.3	158.4	11.5	166.0
573.0	568.86	-38.48	14.98	41.3	158.7	12.0	148.5
583.0	578.61	-40.20	16.16	43.3	156.1	13.3	115.5
593.0	588.31	-41.44	18.27	45.3	156.3	14.3	104.7
603.0	597.97	-42.76	20.41	47.4	154.5	15.0	129.3
613.0	607.65	-44.59	21.89	49.7	153.9	15.4	108.2
614.1	608.67	-44.79	22.06	49.9	153.8	14.8	155.3

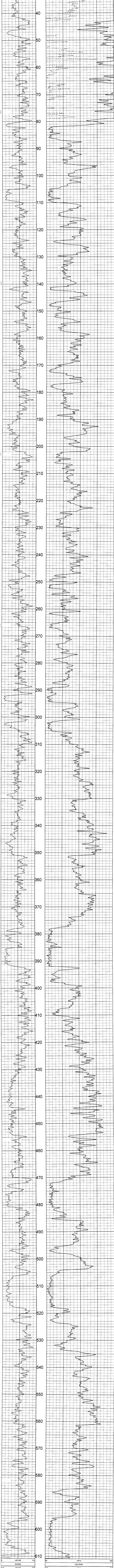
COMPANY	CENTURY GEO. CORP.	OTHER SERVICES	9299
PROJECT	ELKAPOND	LOG #	9299
FIELD	ELKAPOND	LOG #	9299
MUNICIPALITY	ELKAPOND	LOG #	9299
LOCALITY	ELKAPOND	LOG #	9299
STATE	BRITISH COLUMBIA	LOG #	9299
COUNTY	BRITISH COLUMBIA	LOG #	9299
TOWNSHIP	BRITISH COLUMBIA	LOG #	9299
SECTION	BRITISH COLUMBIA	LOG #	9299
WELL NO.	BRITISH COLUMBIA	LOG #	9299
WELL NAME	BRITISH COLUMBIA	LOG #	9299
LOG MEASURED FROM	ELKAPOND, BC	LOG #	9299
LOG MEASURED TO	ELKAPOND, BC	LOG #	9299
DATE	06/27/06	LOG #	9299
DRILLER	ELKAPOND, BC	LOG #	9299
BIT SIZE	ELKAPOND, BC	LOG #	9299
LOG LENGTH	ELKAPOND, BC	LOG #	9299
CASING CD	ELKAPOND, BC	LOG #	9299
CASING BOTTOM	ELKAPOND, BC	LOG #	9299
CASING TYPE	ELKAPOND, BC	LOG #	9299
ROCK/FLUID	ELKAPOND, BC	LOG #	9299
TEMPERATURE	ELKAPOND, BC	LOG #	9299
MUD WEIGHT	ELKAPOND, BC	LOG #	9299
MUD RESIST	ELKAPOND, BC	LOG #	9299
RECORDED BY	ELKAPOND, BC	LOG #	9299
REMARKS 1	ELKAPOND, BC	LOG #	9299
REMARKS 2	ELKAPOND, BC	LOG #	9299

GAMMA NEUTRON thru drill pipe RH #28-53 06/27/06

MATRIX DENSITY : 2.88
MAGNETIC DECL. : 17.0

LOG PARAMETERS
NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 99999

MATRIX DELTA T : 140
BIT SIZE : 13.97



GAMMA NEUTRON thru drill pipe RH #28-53 06/27/06

MATRIX DENSITY : 2.88
MAGNETIC DECL. : 17.0

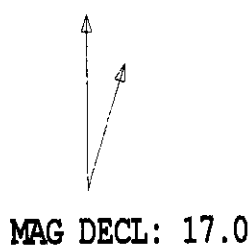
LOG PARAMETERS
NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 99999

MATRIX DELTA T : 140
BIT SIZE : 13.97

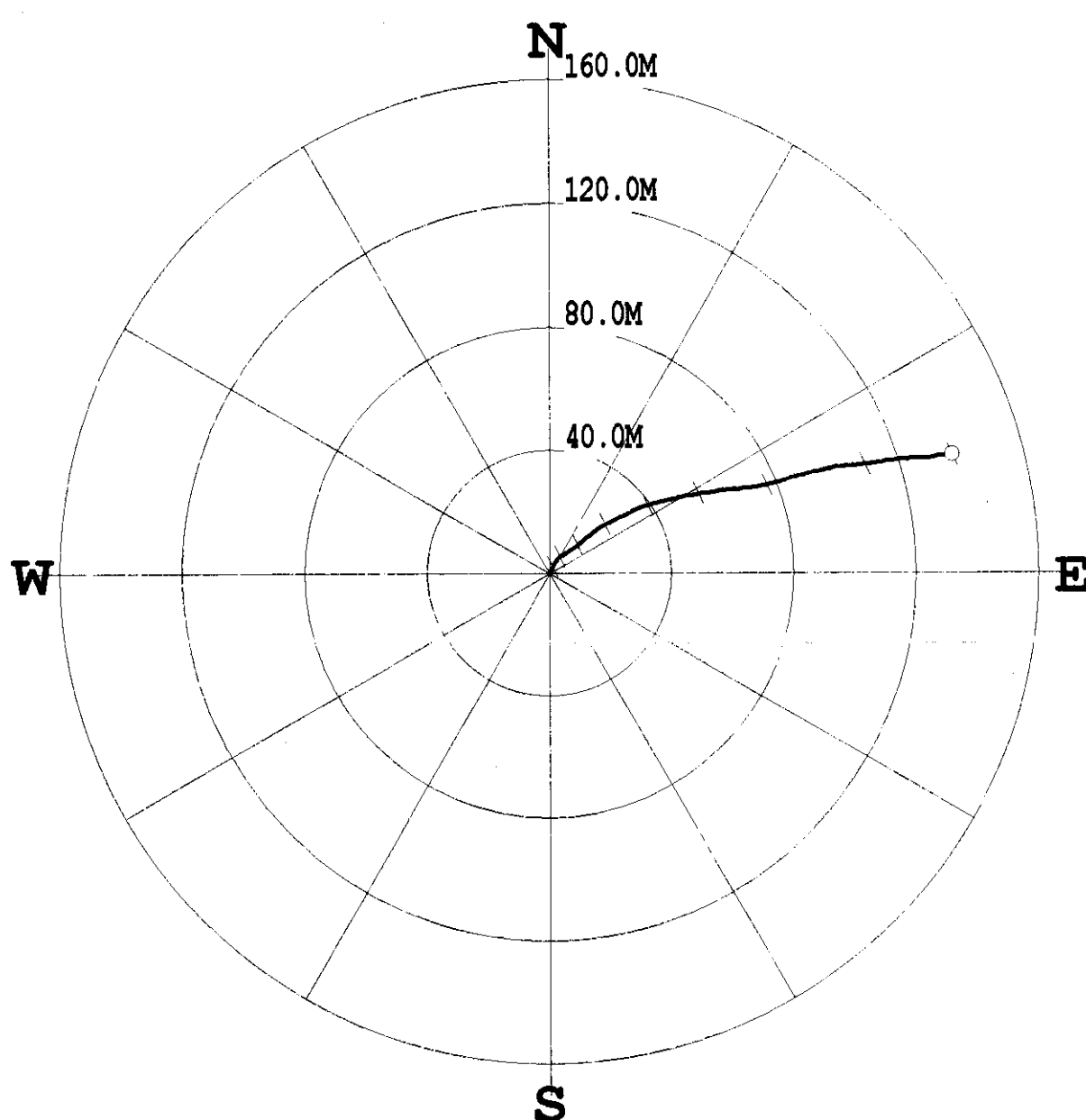
TOOL CALIBRATION	RH #28-53 06/27/06 13:10	SENSOR	STANDARD	RESPONSE
1	May/25/05 22:29:49	GAMMA	Default (CPS)	Default (CPS)
2	May/25/05 22:29:49	GAMMA	Default (CPS)	Default (CPS)
3	May/25/05 22:29:49	NEUTRON	Default (CPS)	Default (CPS)
4	May/25/05 22:29:49	NEUTRON	Default (CPS)	Default (CPS)
5	May/25/05 22:29:49	CCl	Default (CPS)	Default (CPS)
6	May/25/05 22:29:49	CCl	Default (CPS)	Default (CPS)
7	May/25/05 22:29:49	POROSITY	Default (CPS)	Default (CPS)

PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION: N/A
 HOLE ID: RH 2854
 DATE OF LOG: 08/15/06
 PROBE: 9057A 1067



SCALE: 20 M/CM
 TRUE DEPTH: 435.25 M
 AZIMUTH: 73.7
 DISTANCE: 137.1 M
 + = 50 M INCR
 O = BOTTOM OF HOLE



* * * * * COMPU-LOG - VERTICAL DEVIATION * * * * *

CLIENT : ELK VALLEY COAL HOLE ID. : RH 2854
 FIELD OFFICE : DATE OF LOG : 08/15/06
 DATA FROM : N/A PROBE : 9057A , 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: \RH2854_08-15-06_10-08_9057A_.02_3.00_468.61_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
3.0	3.02	-0.00	-0.00	0.0	182.6	1.3	182.6
13.0	13.00	0.26	-0.04	0.3	351.9	2.4	9.4
23.0	22.99	0.68	0.11	0.7	9.5	2.9	9.6
33.0	32.97	1.19	0.38	1.2	17.6	3.3	26.2
43.0	42.95	1.74	0.77	1.9	23.7	4.0	29.9
53.0	52.92	2.37	1.03	2.6	23.6	3.3	14.2
63.0	62.90	2.99	1.39	3.3	24.8	4.4	24.8
73.0	72.86	3.63	1.84	4.1	26.9	4.9	25.4
83.0	82.83	4.31	2.25	4.9	27.5	5.0	34.7
93.0	92.79	5.10	2.68	5.8	27.7	5.4	26.7
103.0	102.73	5.70	3.53	6.7	31.8	6.9	62.1
113.0	112.66	6.24	4.57	7.7	36.2	6.8	63.7
123.0	122.58	6.97	5.58	8.9	38.7	9.1	59.8
133.0	132.47	7.74	6.82	10.3	41.4	9.2	59.3
143.0	142.34	8.58	8.13	11.8	43.5	10.6	46.8
153.0	152.20	9.55	9.45	13.4	44.7	9.8	48.0
163.0	162.03	10.75	10.82	15.3	45.2	10.4	50.6
173.0	171.81	12.06	12.41	17.3	45.8	12.5	64.3
183.0	181.56	13.42	14.14	19.5	46.5	13.8	51.4
193.0	191.27	14.88	15.99	21.8	47.1	14.4	52.1
203.0	200.91	16.15	18.26	24.4	48.5	16.1	61.4
213.0	210.54	17.31	20.71	27.0	50.1	17.0	63.5
223.0	220.14	18.51	23.20	29.7	51.4	16.7	60.0
233.0	229.71	19.76	25.81	32.5	52.6	17.4	50.5
243.0	239.19	21.16	28.63	35.6	53.5	19.1	67.1
253.0	248.67	22.17	31.65	38.6	55.0	17.9	74.5
263.0	258.17	23.00	34.55	41.5	56.4	17.6	72.0
273.0	267.69	23.77	37.47	44.4	57.6	18.0	74.4
283.0	277.17	24.45	40.51	47.3	58.9	19.4	55.5
293.0	286.58	25.25	43.76	50.5	60.0	20.2	70.5
303.0	295.97	25.74	47.12	53.7	61.4	20.2	66.6
313.0	305.28	26.28	50.66	57.1	62.6	21.6	98.9
323.0	314.56	26.74	54.27	60.5	63.8	23.0	69.9
333.0	323.69	27.46	58.22	64.4	64.7	24.8	28.5
343.0	332.70	27.79	62.40	68.3	66.4	28.0	76.7
353.0	341.61	28.27	66.88	72.6	67.1	26.3	89.4
363.0	350.50	29.04	71.28	77.0	67.8	26.6	55.6
373.0	359.26	30.25	75.91	81.7	68.3	29.8	72.0
383.0	367.86	31.72	80.77	86.6	68.6	31.8	70.8
393.0	376.25	32.95	86.02	92.1	69.0	34.1	83.6
403.0	384.43	34.17	91.63	97.8	69.6	36.2	72.2
413.0	392.43	34.99	97.56	103.6	70.3	33.1	100.4
423.0	400.43	35.43	103.40	109.3	71.1	37.5	88.1
433.0	408.33	36.45	109.36	115.3	71.6	38.7	83.2
443.0	416.12	37.11	115.33	121.2	72.2	38.3	102.8
453.0	423.82	37.33	121.44	127.0	72.9	40.8	87.8
463.0	431.28	38.18	127.96	133.5	73.4	40.3	86.3
468.4	435.25	38.48	131.59	137.1	73.7	43.4	96.0

COMPANY	ELK VALLEY COAL	OTHER SERVICES	9067
WELL	RT 2854	9239	9411
FIELD	NA		
MUNICIPALITY	BLAIR		
COUNTY	BRADDOCK		
LOCALITY	BRADDOCK COLIARIA		
SECTION	BRADWIN		
TOWNSHIP	NA		
RANGE	NA		
APRNO	NA		
UNIQUE WELL ID	NA		
PERMANENT DATUM	NA	ELEVATION NG	NA
LOG MEASURED FROM	G.L.	ELEVATION DR	NA
DR. MEASURED FROM	G.L.	ELEVATION GL	NA

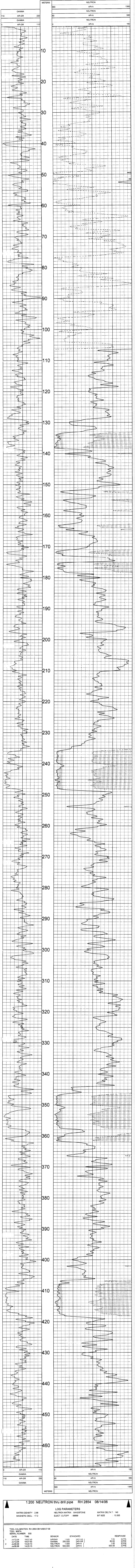
DATE	08/14/06
DEPTH (INCLER)	48
BIT SIZE	13.335
LOG TOP	2.20
LOG BOTTOM	467.99
CASING OD	15.340
CASING BOTTOM	3

CASING TYPE	: STEEL
BORING/CKE FLUID	: WATER
FORMER/REBAR	: N/A
RM TEMPERATURE	: N/A
MUD RES	: N/A
MUD WEIGHT	: N/A
RECORDED BY	: R.H.C.
REMARKS 1	: 81/2" HR TO 24 M 01/2" HR TO 33 M 01/4" HR TO
REMARKS 2	: LOG THRU DRILL PIPE

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS.

1:200 NEUTRON thru drill pipe RH 2854 08/14/06

MATRIX DENSITY : 2.68 LOG PARAMETERS MATRIX DELTA T : 140
MAGNETIC DECL : 17.0 NEUTRON MATRIX : SANDSTONE ELECT CUTOFF : 99999 BIT SIZE : 13.335



1:200 NEUTRON thru drill pipe RH 2854 08/14/06

MATRIX DENSITY : 2.68 LOG PARAMETERS MATRIX DELTA T : 140
MAGNETIC DECL : 17.0 NEUTRON MATRIX : SANDSTONE ELECT CUTOFF : 99999 BIT SIZE : 13.335

TOOL CALIBRATION RH 2854 08/14/06 07:58		SENSOR		STANDARD		RESPONSE	
TOOL	SERIAL NUMBER	GAMMA	NEUTRON	[API-GR]	[API-N]	[CPS]	[CPS]
1	530	1.000	250.000	1.00	1.00	1.00	80.00
2		1.000	500.000	1.00	1.00	1.00	500.00

Century
GEOPHYSICAL GROUP
GAMMA'S DENSITY

WELL : ST. VALENT COK
FIELD : RI 2855
COMPANY : CENTURY-958.COM
OTHER SERVICES : RI 2855

2855
295628 E
1400023 N
20594

LOCATION : BRITISH COLUMBIA
SECTION : BEAN MINT
TOWNSHIP : N/A
RANGE : N/A
APPROX. UTM NAD 83 : E 1400023 N
U 20594

LOG MEASUREMENT FROM O.I.L. : ELEVATION IN: N/A
DATE : 14000000
DEPT/ OPERATOR : 490
LOG TOP : 0.40
LOG BOTTOM : 48.30

LOG TOP : 0.40
LOG BOTTOM : 48.30
CASING ID : 14230
CASING BOTTOM : 3

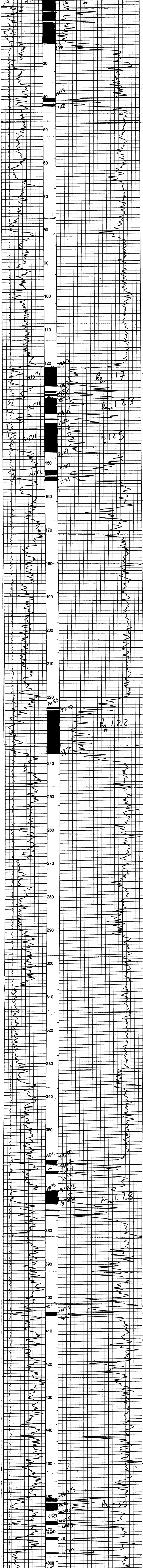
STRAIGHTENING :
BORING HOLE FLUID :
TEMPERATURE :
MUD RES :
MUD WEIGHT :
RECORDED BY : R.HECK
REMARKS 1 : 5127-BH TO 382 M, 5147-BH TO TD
REMARKS 2 : N/A

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

200-DUL-B-E1

DELTA T : 140
13.018

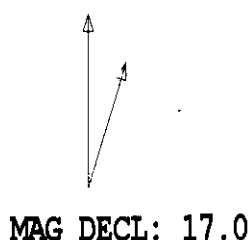
MATRIX DENSITY : 2.66
MAGNETIC DECL. : 17.0



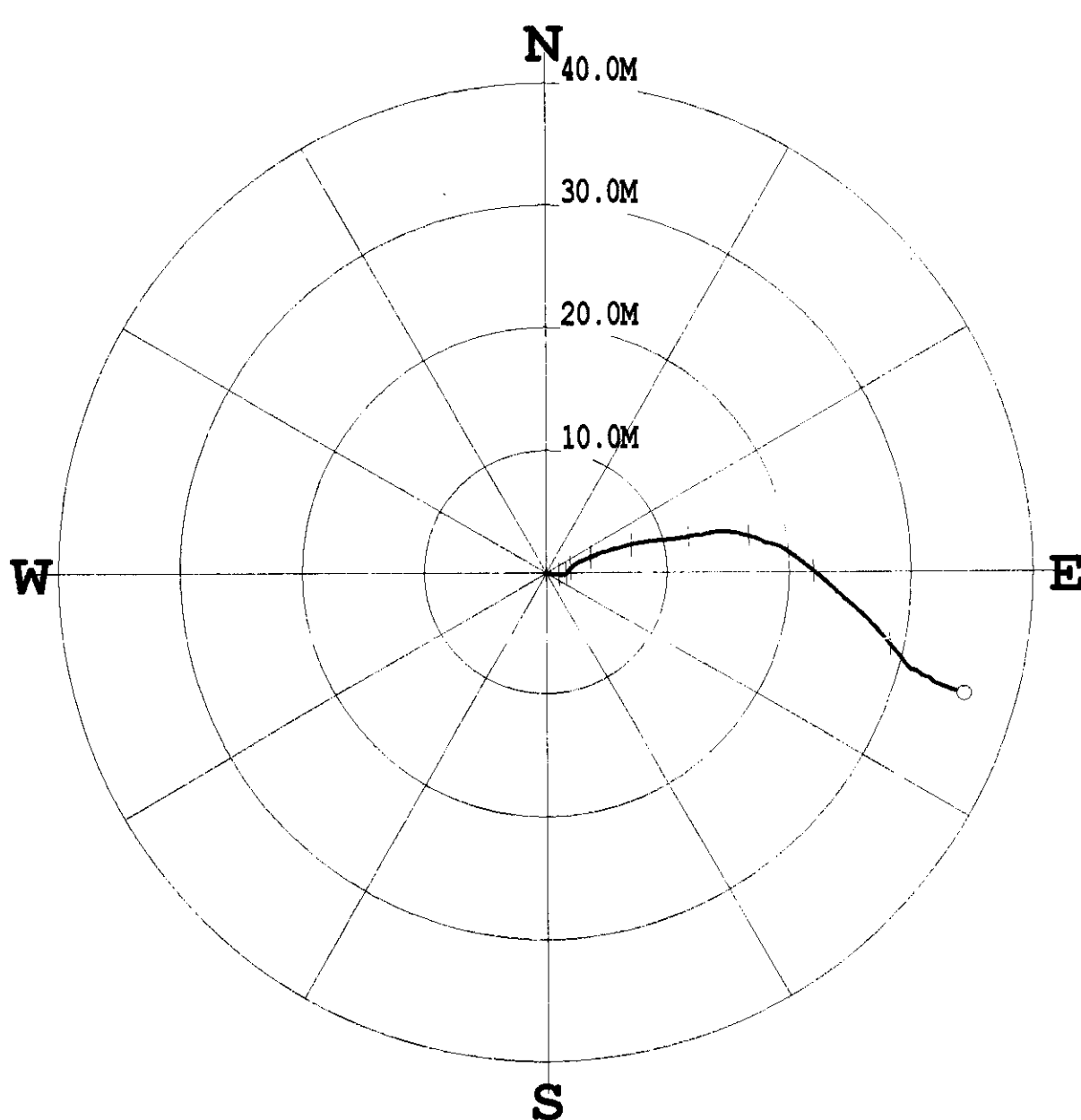
10 30 450
225
0 225
10 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 410 420 430 440 450 460 470 480

PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION: N/A
 HOLE ID: RH 2855
 DATE OF LOG: 08/08/06
 PROBE: 9057A 1067



SCALE: 5 M/CM
 TRUE DEPTH: 482.59 M
 AZIMUTH: 106.3
 DISTANCE: 35.7 M
 + = 50 M INCR
 ○ = BOTTOM OF HOLE



* * * * * COMPU-LOG - VERTICAL DEVIATION * * * * *

CLIENT : ELK VALLEY COAL HOLE ID. : RH 2855
 FIELD OFFICE : DATE OF LOG : 08/08/06
 DATA FROM : N/A PROBE : 9057A , 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: RH2855_08-08-06_09-08_9057A_.02_3.00_485.50_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
3.0	3.00	0.00	0.00	0.0	17.8	0.2	17.8
13.0	13.00	-0.02	0.13	0.1	100.3	1.2	95.0
23.0	23.00	-0.05	0.40	0.4	96.5	1.7	100.0
33.0	32.99	-0.06	0.68	0.7	95.4	1.4	96.4
43.0	42.99	-0.09	0.91	0.9	95.8	1.8	89.7
53.0	52.99	-0.13	1.13	1.1	96.3	1.1	98.1
63.0	62.98	-0.14	1.29	1.3	96.4	0.6	94.9
73.0	72.98	-0.15	1.43	1.4	95.8	0.6	70.7
83.0	82.98	-0.12	1.53	1.5	94.7	0.5	61.9
93.0	92.98	-0.09	1.61	1.6	93.2	0.5	41.4
103.0	102.98	-0.05	1.66	1.7	91.7	0.3	42.3
113.0	112.98	0.00	1.69	1.7	89.9	0.6	31.9
123.0	122.98	0.07	1.73	1.7	87.6	0.4	34.3
133.0	132.98	0.18	1.80	1.8	84.4	0.8	32.1
143.0	142.98	0.31	1.90	1.9	80.8	1.1	46.2
153.0	152.98	0.46	2.05	2.1	77.3	1.4	48.3
163.0	162.97	0.63	2.26	2.3	74.5	1.8	51.9
173.0	172.97	0.82	2.56	2.7	72.1	2.1	56.2
183.0	182.96	1.01	2.94	3.1	71.1	2.3	73.2
193.0	192.95	1.16	3.33	3.5	70.8	2.3	57.2
203.0	202.94	1.33	3.78	4.0	70.6	3.2	61.3
213.0	212.92	1.55	4.33	4.6	70.3	3.9	69.5
223.0	222.89	1.75	4.99	5.3	70.7	4.3	69.0
233.0	232.87	1.93	5.68	6.0	71.2	4.3	74.1
243.0	242.84	2.14	6.40	6.7	71.5	4.3	49.1
253.0	252.81	2.34	7.19	7.6	72.0	5.0	59.5
263.0	262.77	2.47	8.05	8.4	73.0	5.1	73.1
273.0	272.72	2.58	8.96	9.3	74.0	5.7	90.9
283.0	282.67	2.67	9.95	10.3	75.0	6.2	87.2
293.0	292.63	2.78	10.91	11.3	75.7	5.9	81.9
303.0	302.57	2.97	11.94	12.3	76.1	6.5	76.2
313.0	312.51	3.11	13.00	13.4	76.6	6.1	69.8
323.0	322.46	3.31	14.01	14.4	76.7	5.8	78.3
333.0	332.41	3.30	14.98	15.3	77.6	5.3	98.9
343.0	342.36	3.14	15.90	16.2	78.0	5.3	138.2
353.0	352.31	2.90	16.87	17.1	80.3	6.4	106.3
363.0	362.25	2.44	17.92	18.1	82.2	6.9	111.8
373.0	372.17	2.12	19.11	19.2	83.7	6.7	110.0
383.0	382.10	1.53	20.07	20.1	85.7	7.9	121.4
393.0	392.02	0.78	21.08	21.1	87.9	7.5	123.7
403.0	401.93	-0.07	22.15	22.1	90.2	8.3	123.6
413.0	411.82	-1.01	23.24	23.3	92.5	8.8	129.6
423.0	421.69	-2.04	24.42	24.5	94.8	9.5	135.4
433.0	431.54	-3.18	25.71	25.9	97.0	10.6	139.7
443.0	441.36	-4.54	27.02	27.4	99.5	11.6	141.0
453.0	451.15	-6.09	28.33	29.0	102.1	12.2	142.3
463.0	460.91	-7.79	29.66	30.7	104.7	12.4	133.8
473.0	470.64	-8.83	31.57	32.8	105.6	12.6	116.5
483.0	480.34	-9.83	33.73	35.1	106.2	14.2	127.6
485.3	482.59	-10.03	34.26	35.7	106.3	14.3	129.3

COMPANY: CENTURY-980.COM
WELL: RH 2855
FIELD: N/A
MUNICIPALITY: ELIZABETH
PROVINCE: BRITISH COLUMBIA
LOCATION: N/A
SECTION: N/A
TOWNSHIP: N/A
RANGE: N/A
APN NO: N/A
UNIQUE WELL ID: N/A
PERMIT/REGISTRATION: N/A
LOG MEASURED FROM: G.L.
DATE: 08/07/06
DEPT/DRILLER: 489706
BIT SIZE: 13.018
LOG TOP: 0.43
LOG BOTTOM: 485.00
CASING O.D.: 15.240

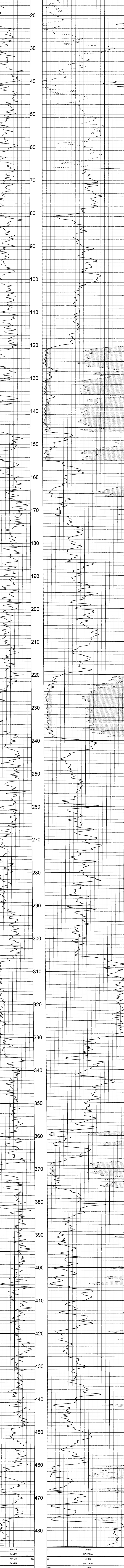
OTHER SERVICES:
360' 500'
500' N/A

CASING TYPE: 3
SHEEL: WATER
ROTOR/STABILIZER: N/A
MUD TEMP/DEPTH: N/A
MUD LOG: N/A
MUD HEIGHT: N/A
RECORDED BY: N/A
REMARKS: 1
REMARKS: 2

REMARKS: 1
REMARKS: 2
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

200 PLOT RATIO RH 2855 08/07/06

LOG PARAMETERS
NEUTRON MATRIX: SANDSTONE
ELECT CUTOFF: 99999
MATRIX DELTA T: 140
BIT SIZE: 13.018
MATRIX DENSITY: 2.88
MAGNETIC DECL: 17.0



200 PLOT RATIO RH 2855 08/07/06

LOG PARAMETERS
NEUTRON MATRIX: SANDSTONE
ELECT CUTOFF: 99999
MATRIX DELTA T: 140
BIT SIZE: 13.018
MATRIX DENSITY: 2.88
MAGNETIC DECL: 17.0

TOOL CALIBRATION RH 2855 08/07/06 13.38			
TOOL 9067A			
SERIAL NUMBER 530			
DATE	TIME	SENSOR	STANDARD
1	Jul12.06 18:07:53	GAMMA	1.000 [API-GR]
2	Jul08.06 14:23:13	GAMMA	250.000 [API-GR]
1	Jul08.06 14:23:13	NEUTRON	1.000 [API-N]
2	Jul08.06 14:23:13	NEUTRON	500.000 [API-N]
			1.00 [CPS]
			80.00 [CPS]
			1.00 [CPS]
			500.00 [CPS]

Century-geo.com
 OTHER SERVICES:
 9097
 9298
 9400

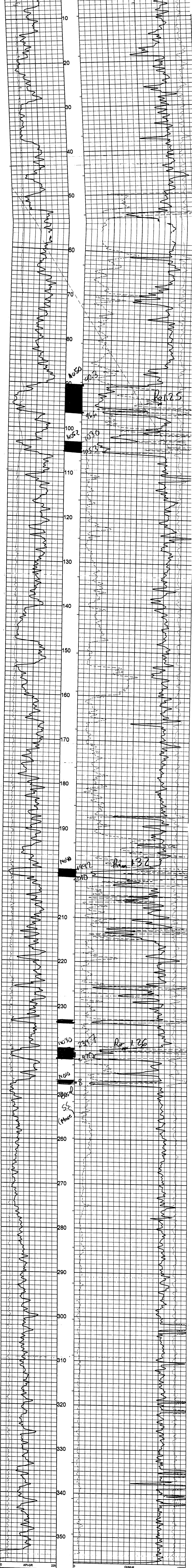
COMPANY : EIK WATER COIL
 WELL : RH 2856
 FIELD : NA
 MUNICIPALITY : BURFORD
 PROVINCE : BRITISH COLUMBIA
 LOCATION : BEAR WITH
 SECTION : NA
 TOWNSHIP : NA
 RANGE : NA
 UTM NO. : NA
 UTM ELL. ID. : NA
 PERMANENT DATUM : G.L.
 LOG MEASURED FROM : G.L.
 DATE MEASURED FROM : G.L.
 DATE : 09/11/06
 DEPTH DRILLER : 598
 BIT SIZE : 13.018
 LOG TOP : 0.29
 LOG BOTTOM : 353.77
 CASING OD : 15.24
 CASING BOTTOM : 3
 CASING TYPE : STEEL
 BOREHOLE FLUID : WATER
 R.M. TEMPERATURE : NA
 MUD RES : NA
 MUD WEIGHT : NA
 WITNESSED BY : R. H. HARRIS
 RECORDED BY : R. H. HARRIS
 REMARKS 1 : LOG THRU DRILL PIPE
 REMARKS 2 :
 ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

2856
 29971.3 ft
 140.005.4 N.
 2245.9.

1:200 BULK DENSITY RH 2856 09/11/06

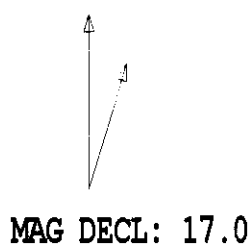
MATRIX DENSITY : 2.85
 MAGNETIC DECL. : 17.0
 LOG PARAMETERS
 NEUTRON MATRIX : SANDSTONE
 ELECT. CUTOFF : 99999
 MATRIX DELTA T : 177
 BIT SIZE : 13.018

PRESENTATION NAME/DATE = 9239C1.0 09/08/2006

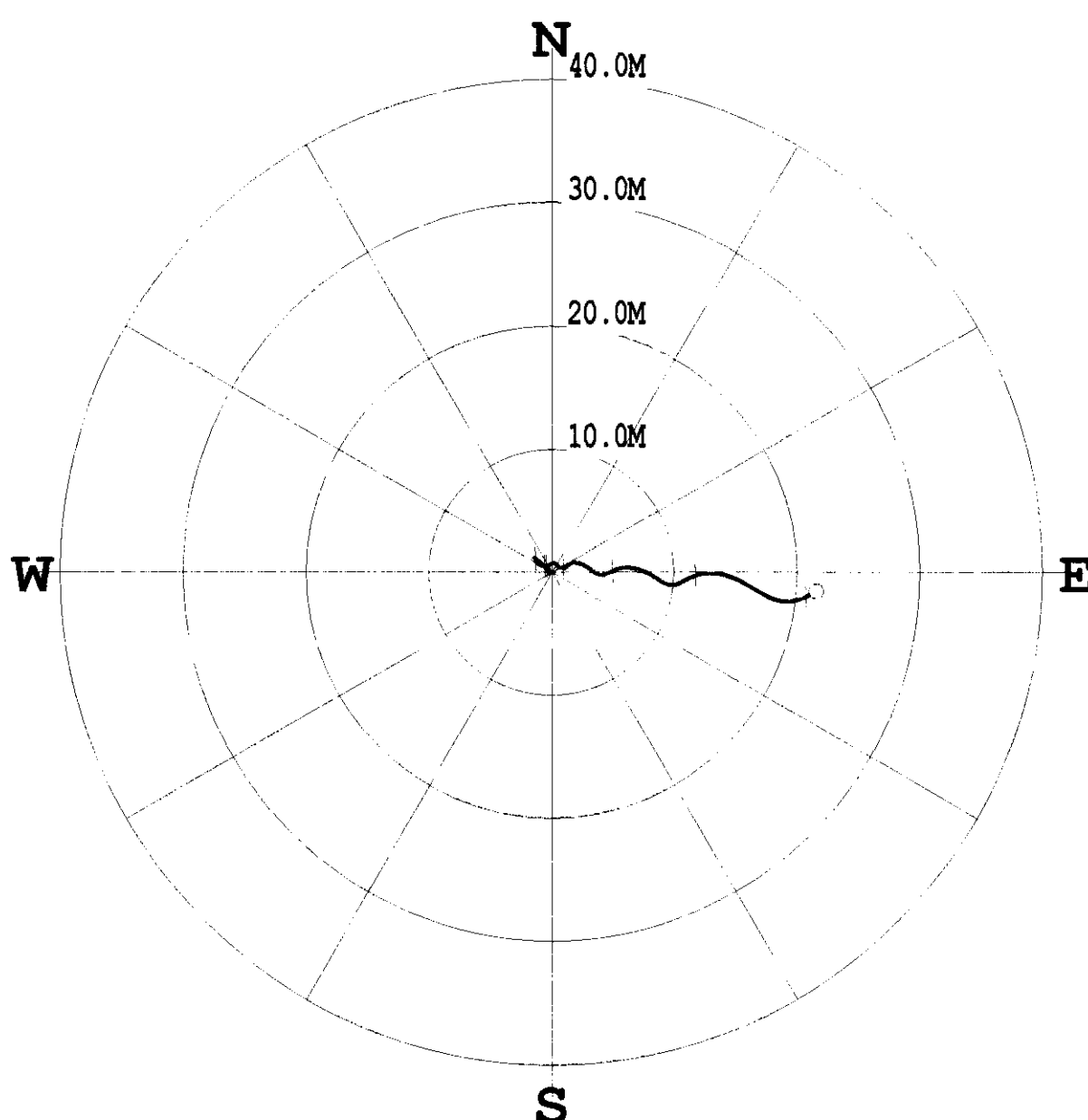


PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION: N/A
 HOLE ID: RH 2856
 DATE OF LOG: 09/13/06
 PROBE: 9400A 367



SCALE: 5 M/CM
 TRUE DEPTH: 353.82 M
 AZIMUTH: 94.1
 DISTANCE: 21.6 M
 + = 50 M INCR
 ○ = BOTTOM OF HOLE



* * * * * COMPU-LOG - VERTICAL DEVIATION * * * * *

CLIENT : ELK VALLEY COAL HOLE ID. : RH 2856
 FIELD OFFICE : DATE OF LOG : 09/13/06
 DATA FROM : N/A PROBE : 9400A , 367
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: RH2856_09-13-06_08-36_9400A_005_3.00_355.70_DEVI.log

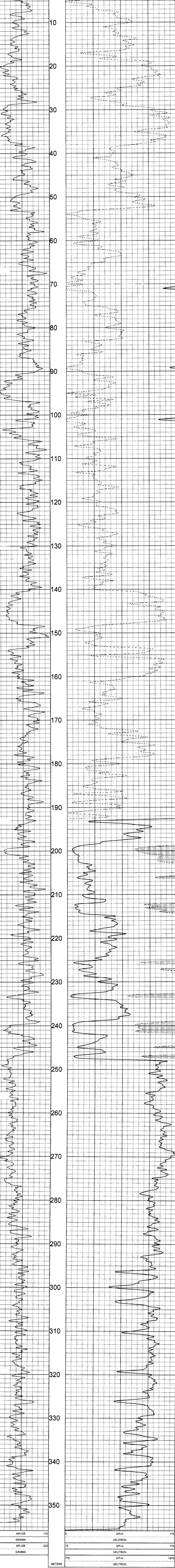
CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
3.36	3.36	0.00	0.00	0.0	74.7	2.3	74.7
13.00	13.00	-0.06	-0.18	0.2	249.9	1.7	289.4
23.00	22.99	-0.09	-0.31	0.3	254.6	1.5	286.7
33.00	32.99	0.03	-0.33	0.3	275.4	0.3	14.6
43.00	42.98	0.31	-0.30	0.4	315.9	1.2	348.9
53.00	52.98	0.48	-0.56	0.7	310.7	1.1	281.6
63.00	62.97	0.55	-0.87	1.0	302.4	1.8	285.2
73.00	72.97	0.67	-1.07	1.3	302.2	0.9	305.2
83.00	82.97	0.79	-1.20	1.4	303.4	1.1	311.3
93.00	92.97	0.95	-1.28	1.6	306.5	0.9	344.1
103.00	102.96	1.12	-1.34	1.7	310.0	0.9	334.7
113.00	112.96	1.16	-1.44	1.9	309.0	1.1	273.8
123.00	122.96	1.14	-1.44	1.8	308.3	0.8	118.6
133.00	132.96	1.00	-1.22	1.6	309.4	3.0	116.7
143.00	142.94	0.69	-0.82	1.1	310.0	2.4	140.5
153.00	152.93	0.49	-0.46	0.7	316.8	2.8	94.6
163.00	162.93	0.65	-0.11	0.7	350.4	1.8	70.6
173.00	172.92	0.73	0.12	0.7	9.1	1.4	98.6
183.00	182.92	0.62	0.34	0.7	28.2	1.2	137.3
193.00	192.91	0.42	0.59	0.7	54.1	2.1	100.8
203.00	202.90	0.38	1.07	1.1	70.4	2.2	70.9
213.00	212.88	0.72	1.53	1.7	64.8	2.3	58.9
223.00	222.86	0.74	2.17	2.3	71.2	4.9	103.0
233.00	232.81	0.29	3.07	3.1	84.6	6.8	122.1
243.00	242.74	-0.24	4.10	4.1	93.3	7.2	85.9
253.00	252.67	0.22	5.20	5.2	87.5	6.2	70.0
263.00	262.59	0.36	6.45	6.5	86.8	8.0	99.6
273.00	272.48	-0.08	7.82	7.8	90.6	8.3	119.8
283.00	282.37	-0.85	9.11	9.1	95.3	9.0	113.7
293.00	292.25	-0.77	10.57	10.6	94.2	8.8	63.2
303.00	302.13	-0.17	12.00	12.0	90.8	9.7	73.5
313.00	311.99	-0.13	13.65	13.7	90.5	10.6	98.8
323.00	321.82	-0.72	15.36	15.4	92.7	10.7	117.9
333.00	331.64	-1.66	17.02	17.1	95.6	11.2	120.8
343.00	341.44	-2.31	18.88	19.0	97.0	11.4	95.1
353.00	351.20	-1.82	20.96	21.0	95.0	13.4	66.0
355.70	353.81	-1.56	21.54	21.6	94.1	14.0	65.2

COMPANY	ELK VALLEY COAL	OTHER SERVICES	9057
WELL	RH 2856		9239
FIELD	N/A		N/A
MUNICIPALITY	ELKFIELD		
PROVINCE	BRITISH COLUMBIA		
LOCATION	BEAR MTN		
SECTION	N/A		
TOWNSHIP	N/A		
RANGE	N/A		
API NO	N/A		
UNIQUE WELL ID	N/A		
PERMANENT DATUM	G.L.	ELEVATION RB	N/A
LOG MEASURED FROM	G.L.	ELEVATION OF	N/A
DATE	06/10/06		
DEPTH DRILLER	366		
BIT SIZE	13.335		
LOG TOP	0.39		
LOG BOTTOM	352.79		
CASING OD	15.24		
CASING BOTTOM	3		
CASING TYPE	STEEL		
BORING FLUID	WATER		
RH TEMPERATURE	N/A		
MUD RES	N/A		
MUD WEIGHT	N/A		
WINDSPEED BY	SWS		
RECORDED BY	R.BECK		
REMARKS 1	5/27 RH TO 292 M 5M * RB TO TD		
REMARKS 2	LOG THRU DRILL PIPE		

1:200 NEUTRON thru drill pipe RH 2856 09/10/06

LOG PARAMETERS
 MATRIX DENSITY : 2.85 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
 MAGNETIC DECL : 17.0 ELECT CUTOFF : 99999 BIT SIZE : 13.335

PRESENTATION NAME/DATE = 9067A.0 09/10/2006



1:200 NEUTRON thru drill pipe RH 2856 09/10/06

LOG PARAMETERS
 MATRIX DENSITY : 2.85 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
 MAGNETIC DECL : 17.0 ELECT CUTOFF : 99999 BIT SIZE : 13.335

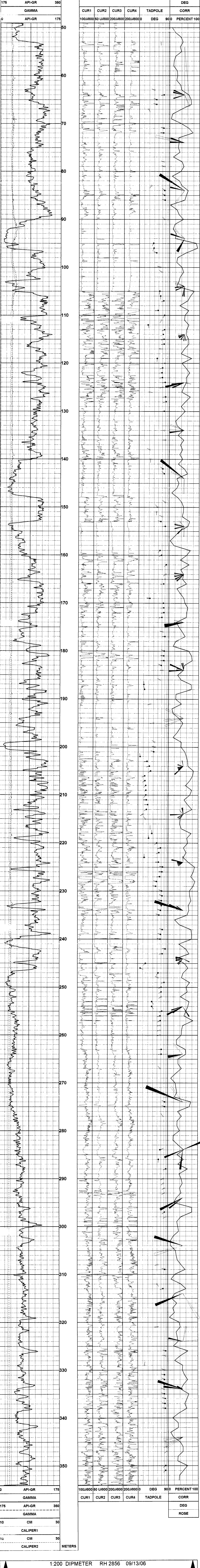
PRESENTATION NAME/DATE = 9067A.0 09/10/2006

TOOL CALIBRATION RH 2856 09/10/06 21:58			
TOOL 9067A TM VERSION 1			
SERIAL NUMBER 530			
DATE	TIME	SENSOR	STANDARD
1	Sep03.06	10.46.48	GAMMA 1.000 [API-GR]
2	Sep03.06	10.46.48	GAMMA 250.000 [API-GR]
2	Sep03.06	10.47.15	NEUTRON 1.000 [API-N]
2	Sep03.06	10.47.15	NEUTRON 500.000 [API-N]
			1.00 [CPS]
			80.00 [CPS]
			1.00 [CPS]
			500.00 [CPS]

1:200 DIPMETER RH 2856 09/13/06

MATRIX DENSITY : 2.65 LOG PARAMETERS SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 17.000 ELECT. CUTOFF 99999 BIT SIZE : 13.335

PRESENTATION NAME/DATE = dipc1-200a.0 09/05/2006



1:200 DIPMETER RH 2856 09/13/06

MATRIX DENSITY : 2.65 LOG PARAMETERS SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 17.000 ELECT. CUTOFF 99999 BIT SIZE : 13.335

PRESENTATION NAME/DATE = dipc1-200a.0 09/05/2006

TOOL CALIBRATION RH 2856 09/13/06 08:36
TOOL 9400A TM VERSION 1
SERIAL NUMBER 367

DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Aug28.06 09:37:16	CUR4	1.000 [UA]	1.00 [CPS]
	Aug28.06 09:37:16	CUR4	283.000 [UA]	268.00 [CPS]
2	Mar23.06 09:25:46	CALIPER1	5.371 [INCH]	100.00 [CPS]
	Mar23.06 09:25:46	CALIPER1	384.900 [INCH]	6000.00 [CPS]
3	Mar23.06 09:25:25	CALIPER	400.000 [INCH]	737.00 [CPS]
	Mar23.06 09:25:25	CALIPER	7000.000 [INCH]	12935.00 [CPS]
4	Mar23.06 09:28:42	XINCL	400.000 [MV]	875.00 [CPS]
	Mar23.06 09:28:42	XINCL	400.000 [MV]	15240.00 [CPS]
5	Mar23.06 09:28:57	YINCL	400.000 [MV]	585.00 [CPS]
	Mar23.06 09:28:57	YINCL	7000.000 [MV]	10290.00 [CPS]
6	Mar23.06 09:29:14	XFLUX	400.000 [MV]	690.00 [CPS]
	Mar23.06 09:29:14	XFLUX	7000.000 [MV]	12350.00 [CPS]
7	Aug24.06 12:37:11	YFLUX	15.240 [MV]	5249.00 [CPS]
	Aug24.06 12:37:11	YFLUX	25.400 [MV]	11591.00 [CPS]
8	Aug24.06 12:37:35	ZFLUX	15.240 [MV]	6118.00 [CPS]
	Aug24.06 12:37:35	ZFLUX	25.400 [MV]	12536.00 [CPS]
9	Dec19.02 12:52:27	CUR5	1200.000 [UA]	1535.00 [CPS]
	Dec19.02 12:52:27	CUR5	7000.000 [UA]	8900.00 [CPS]

CENTURY GEOLOGICAL CORP.
1401 WEST 29th AVENUE
DENVER, CO 80202
PH 2857
FAX 2857

COUNTY: EL PASO
FIELD: WA
WELL: 2857
WATER: 2857
WATER: 2857
WATER: 2857

PROPERTY: 29376.9 E
ADDRESS: 140187.0 N
CITY: EL PASO
STATE: TX
ZIP: 79901

SECTION: 1473.3 W
TOWNSHIP: 1473.3 W
RANGE: 1473.3 W

LOG DEPTH FROM: 0 L
LOG DEPTH FROM: 0 L
LOG DEPTH FROM: 0 L

DATE: 11/11
DEPT: 111
DEPT: 111
DEPT: 111

LOG TOP: 0.00
LOG BOTTOM: 0.00
LOG BOTTOM: 0.00

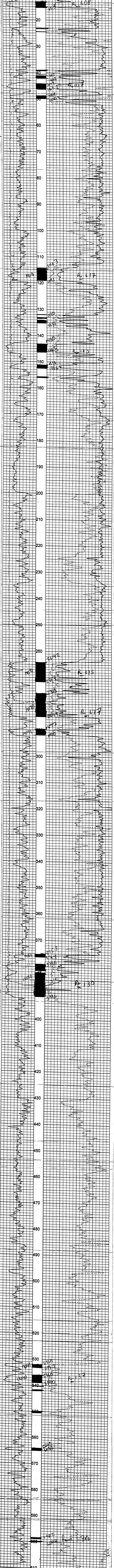
LOG TOP: 0.00
LOG BOTTOM: 0.00
LOG BOTTOM: 0.00

LOG TOP: 0.00
LOG BOTTOM: 0.00
LOG BOTTOM: 0.00

LOG TOP: 0.00
LOG BOTTOM: 0.00
LOG BOTTOM: 0.00

LOG TOP: 0.00
LOG BOTTOM: 0.00
LOG BOTTOM: 0.00

PLOT RATIO = 2:1
MATRIX DENSITY: 2.66
MAGNETIC DECL.: 17.0
LOC: NEUTR
ELECT
LTAT: 140
13.97

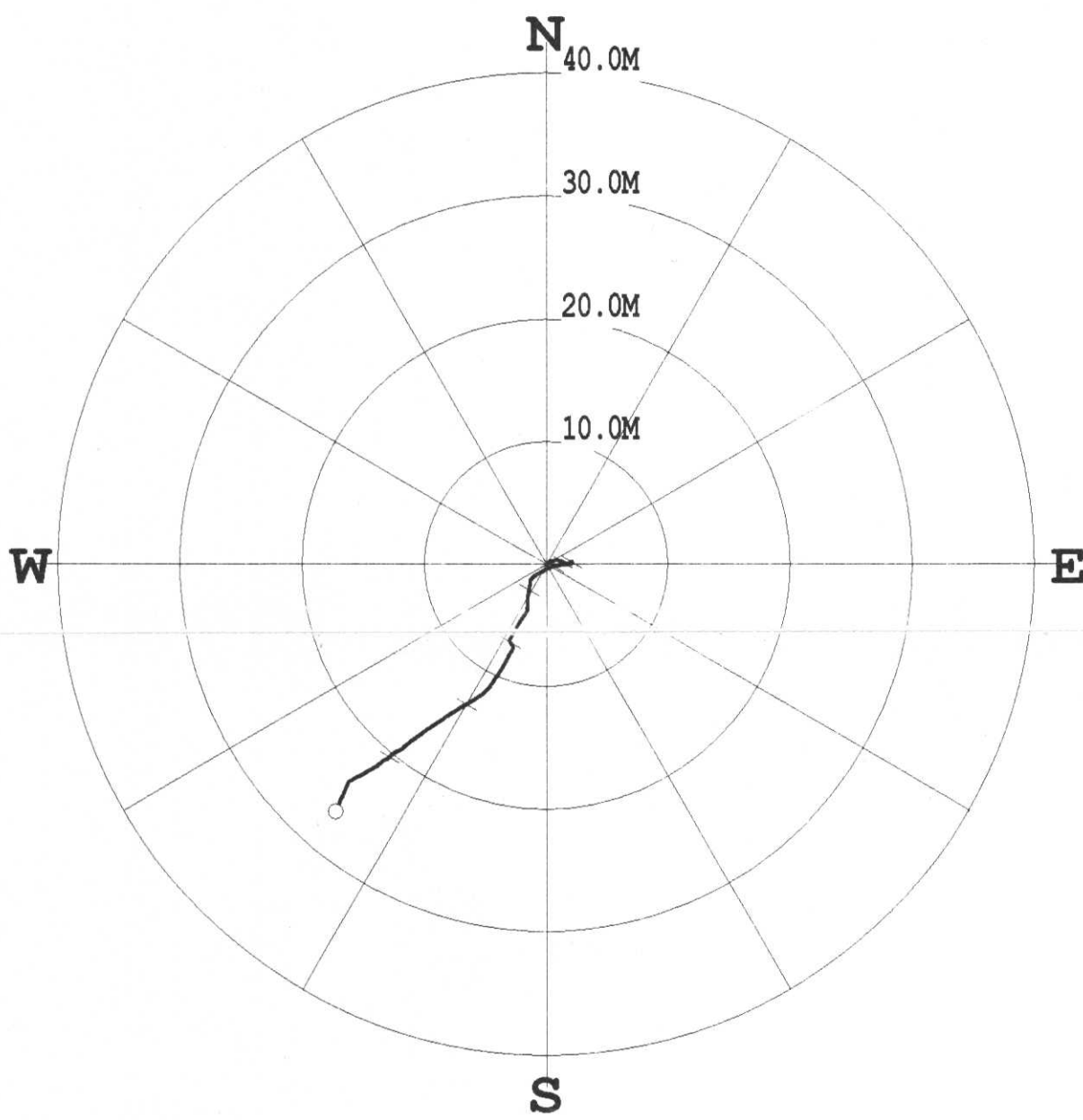


PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION: N/A
 HOLE ID: RH #28-57
 DATE OF LOG: 07/04/06
 PROBE: 9057A 1067



SCALE: 5 M/CM
 TRUE DEPTH: 386.71 M
 AZIMUTH: 220.6
 DISTANCE: 26.5 M
 + = 50 M INCR
 ○ = BOTTOM OF HOLE



***** COMPU-LOG - VERTICAL DEVIATION *****

CLIENT : ELK VALLEY COAL HOLE ID. : RH #28-57
 FIELD OFFICE : DATE OF LOG : 07/04/06
 DATA FROM : N/A PROBE : 9057A , 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: \RH#28-57_07-04-06_13-09_9057A_.02_3.00_388.95_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
3.0	3.02	0.00	-0.00	0.0	342.2	2.0	342.2
13.0	13.00	0.17	0.19	0.3	48.2	1.5	62.3
23.0	22.99	0.24	0.46	0.5	61.8	1.5	95.2
33.0	32.99	0.33	0.78	0.8	67.2	1.9	83.9
43.0	42.98	0.26	1.08	1.1	76.4	1.8	107.4
53.0	52.98	0.14	1.41	1.4	84.3	2.0	111.4
63.0	62.97	0.05	1.72	1.7	88.2	1.8	95.8
73.0	72.97	0.03	1.96	2.0	89.2	1.2	87.0
83.0	82.97	0.09	2.07	2.1	87.6	0.5	29.6
93.0	92.97	0.15	2.11	2.1	86.0	0.3	322.2
103.0	102.97	0.18	2.03	2.0	84.9	0.5	282.5
113.0	112.96	0.09	1.91	1.9	87.4	1.0	216.7
123.0	122.96	-0.02	1.68	1.7	90.6	1.5	230.1
133.0	132.95	-0.03	1.33	1.3	91.1	2.3	271.7
143.0	142.94	-0.09	0.89	0.9	95.5	3.1	261.7
153.0	152.93	-0.22	0.45	0.5	115.8	2.9	255.0
163.0	162.92	-0.42	-0.02	0.4	183.2	3.1	237.8
173.0	172.90	-0.70	-0.54	0.9	217.8	3.7	237.9
183.0	182.88	-1.08	-1.11	1.6	225.9	3.8	206.9
193.0	192.85	-1.66	-1.36	2.1	219.5	3.9	193.2
203.0	202.83	-2.31	-1.50	2.8	212.9	4.6	180.0
213.0	212.80	-3.04	-1.56	3.4	207.1	4.6	187.4
223.0	222.76	-3.85	-1.61	4.2	202.6	5.4	226.6
233.0	232.72	-4.64	-2.16	5.1	205.0	5.9	202.1
243.0	242.66	-5.56	-2.70	6.2	205.9	6.8	208.2
253.0	252.58	-6.65	-2.78	7.2	202.7	7.9	152.0
263.0	262.47	-7.92	-3.36	8.6	203.0	8.5	207.7
273.0	272.38	-9.08	-4.08	10.0	204.2	7.6	215.1
283.0	282.30	-10.06	-4.75	11.1	205.3	6.6	223.4
293.0	292.23	-10.82	-5.65	12.2	207.6	7.6	235.3
303.0	302.13	-11.53	-6.83	13.4	210.7	8.3	238.7
313.0	312.02	-12.30	-8.06	14.7	213.2	8.4	209.7
323.0	321.91	-13.11	-9.29	16.1	215.3	8.9	240.7
333.0	331.79	-13.99	-10.53	17.5	217.0	9.0	215.9
343.0	341.66	-14.96	-11.75	19.0	219.1	9.0	205.1
353.0	351.53	-15.85	-13.07	20.5	219.5	8.4	236.8
363.0	361.38	-16.75	-14.47	22.1	220.8	10.5	245.3
373.0	371.21	-17.62	-16.06	23.8	222.4	11.1	266.5
383.0	381.02	-19.21	-16.91	25.6	221.3	10.8	196.7
388.8	386.71	-20.10	-17.25	26.5	220.6	5.4	206.8

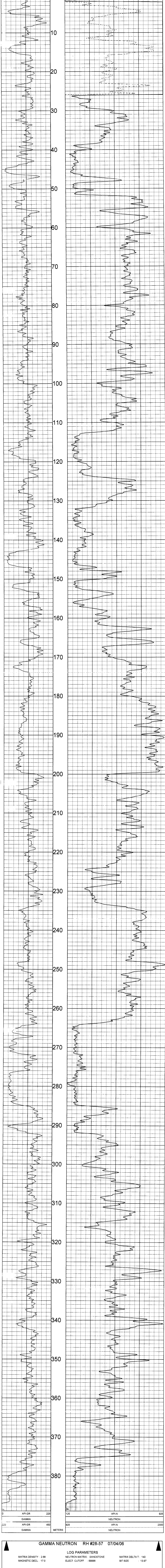
Century-geo.com	COMPANY : ELK WALLEY COAL	OTHER SERVICES:
WELL : RH#28-57	FIELD : VA	9051
MUNICIPALITY : ELK FORD	PROVINCE : BRITISH COLUMBIA	9057
LOCATION : BEAR MTN	SECTION : VA	9239
TOWNSHIP : VA	RANGE : VA	
ART NO : VA	UNION LABEL ID : VA	
PERMIT NO : VA	PERMIT EXPIRE DATE : VA	
LOG MEASURED FROM : G.L.	ELEVATION TO : VA	
DATE MEASURED FROM : 07/04/06	ELEVATION OF : VA	
DEPTH DRILLER : 611	ELEVATION DEL : VA	
BIT SIZE : 13.87		
LOG TOP : 0.36		
LOG BOTTOM : 388.95		
CASING DO : 17.78		
CASING BOTTOM : 3		
BORING TYPE : STEEL		
BORING FLUID : WATER		
RAI TEMPERATURE : NA		
MUD WEIGHT : NA		
RECORDED BY : R. JACK		
REMARKS 1 : 514 BIT TO 398 M. SHIF TO 424M. SHIF TO 73		
REMARKS 2 :		
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS.		

GAMMA NEUTRON RH #28-57 07/04/06

MATRIX DENSITY : 2.68
MAGNETIC DECL : 17.0

LOG PARAMETERS
NEUTRON MATRIX : SANDSTONE
ELECT CUTOFF : 99999

MATRIX DELTA T : 140
BIT SIZE : 13.97



GAMMA NEUTRON RH #28-57 07/04/06

MATRIX DENSITY : 2.68
MAGNETIC DECL : 17.0

LOG PARAMETERS
NEUTRON MATRIX : SANDSTONE
ELECT CUTOFF : 99999

MATRIX DELTA T : 140
BIT SIZE : 13.97

TOOL CALIBRATION RH #28-57 07/04/06 13:09					
DATE	TIME	SENSOR	STANDARD	RESPONSE	
1	May22.06 15:03:18	GAMMA	0.000 [API-GR]	1.00	[CPS]
1	May22.06 15:03:18	GAMMA	325.000 [API-GR]	325.00	[CPS]
2	Oct24.05 21:50:54	NEUTRON	Default [CPS]	Default	[CPS]
3	Dec01.05 21:50:54	NEUTRON	152.000 [API-N]	167.00	[CPS]
4	Dec01.05 21:21:19	SP	Default [CPS]	Default	[CPS]
4	Dec01.05 21:21:19	SP	Default [CPS]	Default	[CPS]
5	Dec01.05 21:54:52	RES(16N)	Default [CPS]	Default	[CPS]
5	Dec01.05 21:54:52	RES(16N)	Default [CPS]	Default	[CPS]
5	Dec01.05 21:55:00	RES(64N)	Default [CPS]	Default	[CPS]
5	Dec01.05 21:55:00	RES(64N)	Default [CPS]	Default	[CPS]
6	Dec01.05 21:55:07	TEMP	Default [CPS]	Default	[CPS]
7	Dec01.05 21:55:17	RES	Default [CPS]	Default	[CPS]
7	Dec01.05 21:55:17	RES	Default [CPS]	Default	[CPS]
8	Apr12.02 00:42:07	POR(NEU)	100.000 [PERCENT]	178.00	[CPS]

COMPANY : CALDWELL CORP.
WELL : RH 2858
DATE : 12/11/68
TIME : 1400

LOCATION : BRITISH COLUMBIA
SECTION : 29611.4E
TOWNSHIP : 1402130N
RANGE : 20824W

UNIQUE WELL ID :
ELEVATION OF SURFACE :
ELEVATION OF CASING :
ELEVATION OF LOG :
ELEVATION OF LOG :
ELEVATION OF LOG :

LOG MEASURED FROM : G.L.
DATE : 12/11/68
DEPTH DOLLER : 1338
BIT SIZE : 1338
LOG TOP : 15.21
LOG BOTTOM : 15.24

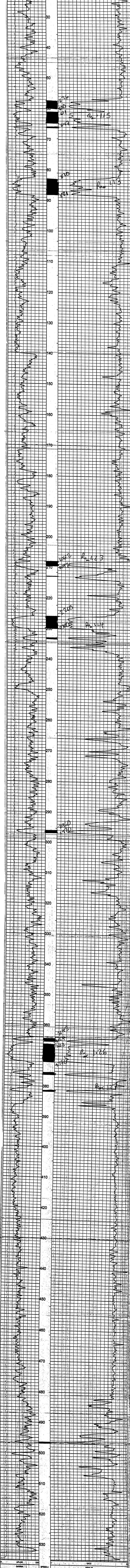
CASING BOTTOM : 3
CASING TYPE : STEEL
CASING JOINT : WATER
CASING JOINT : WATER
CASING JOINT : WATER

RECORDED BY :
REMARKS 1 :
REMARKS 2 :

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

RECORDED BY :
REMARKS 1 :
REMARKS 2 :

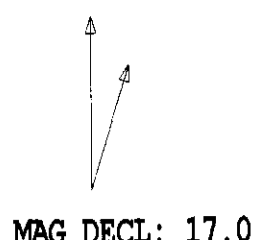
200 PLOT RATIO
MATRIX DENSITY : 2.68
MAGNETIC DECL. : 17.0
LOG P/F
NEUTRON
ELECT. CU
T : 140
1338



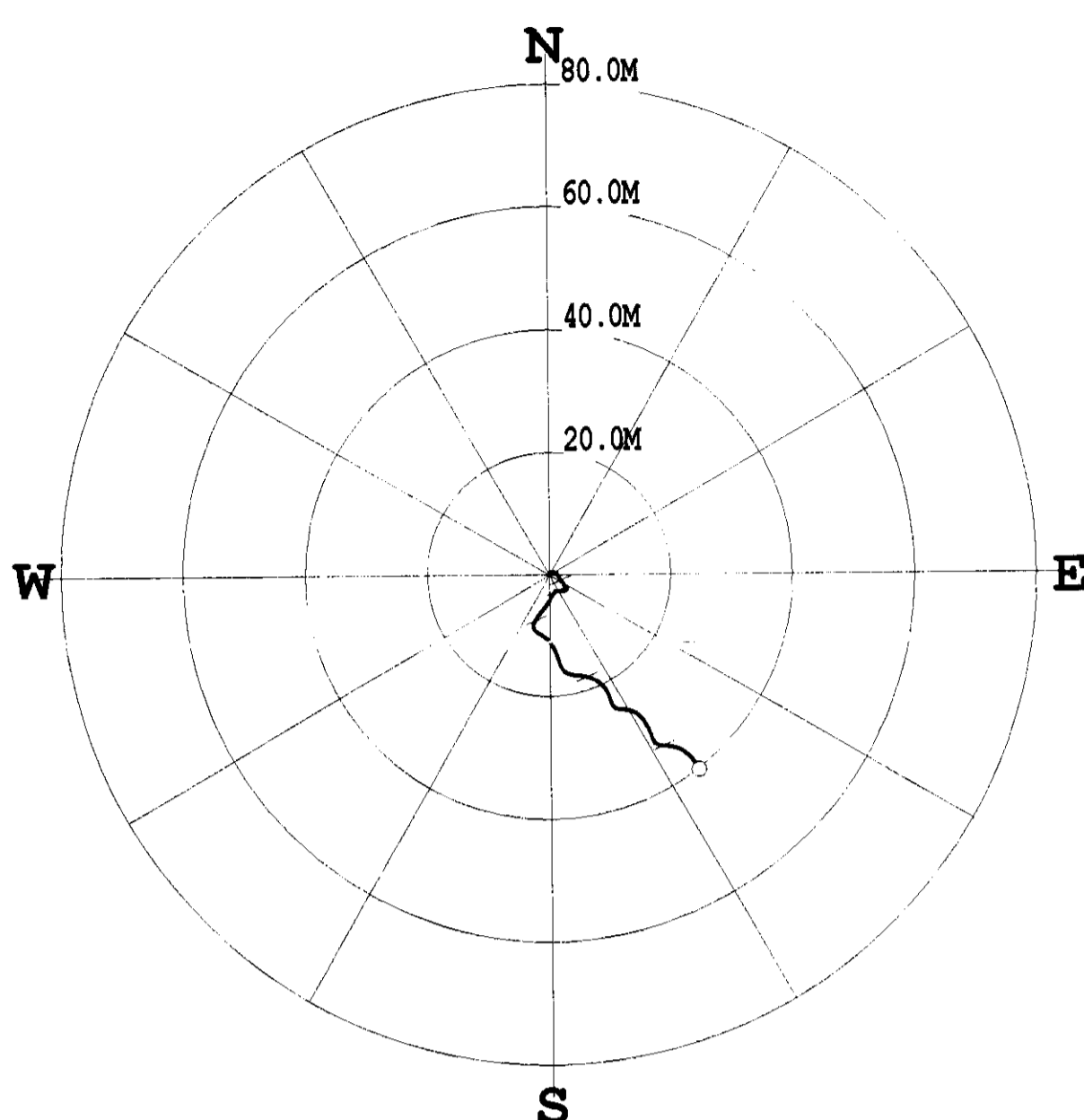
APL-OR : 228
GAMMA : 450
CALPERL : 10
METERS

PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION: N/A
 HOLE ID: RH 2858
 DATE OF LOG: 08/29/06
 PROBE: 9400A 367



SCALE: 10 M/CM
 TRUE DEPTH: 530.75 M
 AZIMUTH: 142.5
 DISTANCE: 40.1 M
 + = 100 M INCR
 ○ = BOTTOM OF HOLE



* * * * * COMPU-LOG - VERTICAL DEVIATION * * * * *

CLIENT : ELK VALLEY COAL HOLE ID. : RH 2858
 FIELD OFFICE : DATE OF LOG : 08/29/06
 DATA FROM : N/A PROBE : 9400A , 367
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: RH2858_08-29-06_10-33_9400A_005_6.40_534.69_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
6.7	6.69	0.00	0.00	0.0	7.0	0.6	7.0
16.4	16.40	0.13	-0.01	0.1	357.2	1.3	333.9
26.4	26.40	0.30	0.05	0.3	9.4	1.3	358.9
36.4	36.39	0.46	0.18	0.5	21.6	1.5	56.5
46.4	46.39	0.51	0.43	0.7	40.0	1.1	97.7
56.4	56.39	0.51	0.68	0.8	53.0	1.6	106.0
66.4	66.38	0.37	0.99	1.1	69.5	2.5	116.1
76.4	76.38	0.18	1.24	1.3	81.9	1.8	153.5
86.4	86.37	-0.17	1.45	1.5	96.7	2.6	155.6
96.4	96.35	-0.63	1.70	1.8	110.3	3.2	153.9
106.4	106.33	-1.12	2.05	2.3	118.7	3.1	143.9
116.4	116.32	-1.52	2.39	2.8	122.5	2.3	136.2
126.4	126.31	-1.85	2.64	3.2	125.1	2.4	150.1
136.4	136.31	-2.11	2.80	3.5	127.0	1.1	158.8
146.4	146.30	-2.25	2.79	3.6	128.8	1.1	166.7
156.4	156.30	-2.36	2.71	3.6	131.1	0.8	259.0
166.4	166.30	-2.45	2.50	3.5	134.5	1.5	288.5
176.4	176.29	-2.50	2.17	3.3	139.1	2.9	260.5
186.4	186.29	-2.52	1.80	3.1	144.4	2.2	264.5
196.4	196.28	-2.51	1.42	2.9	150.4	2.0	272.3
206.4	206.27	-2.55	1.04	2.8	157.8	2.7	244.5
216.4	216.26	-2.84	0.68	2.9	166.5	2.7	222.3
226.4	226.25	-3.26	0.44	3.3	172.4	2.9	211.1
236.4	236.23	-3.73	0.17	3.7	177.4	3.0	211.5
246.4	246.22	-4.22	-0.14	4.2	181.9	3.7	211.0
256.4	256.19	-4.76	-0.51	4.8	186.1	4.1	214.2
266.4	266.17	-5.31	-0.90	5.4	189.6	4.7	243.5
276.4	276.14	-5.87	-1.35	6.0	192.9	4.2	220.5
286.4	286.12	-6.46	-1.83	6.7	195.8	4.3	221.0
296.4	296.08	-7.14	-2.27	7.5	197.6	4.6	204.9
306.4	306.04	-7.92	-2.64	8.3	198.4	5.2	193.6
316.4	316.00	-8.82	-2.55	9.2	196.1	5.6	149.7
326.4	325.95	-9.48	-1.82	9.7	190.9	5.6	121.4
336.4	335.90	-10.05	-0.96	10.1	185.5	6.3	122.3
346.4	345.83	-10.91	-0.12	10.8	180.7	7.2	135.9
356.4	355.74	-11.95	0.64	12.0	177.0	8.7	152.4
366.4	365.61	-13.43	1.24	13.5	174.7	9.6	162.1
376.4	375.45	-15.07	1.85	15.2	173.0	10.4	153.5
386.4	385.27	-16.24	3.25	16.6	168.7	11.0	105.3
396.4	395.10	-16.51	5.08	17.3	162.9	10.0	100.3
406.4	404.93	-16.94	6.84	18.3	158.0	10.4	109.2
416.4	414.78	-17.87	8.32	19.7	155.0	10.1	131.7
426.4	424.63	-19.20	9.37	21.4	154.0	9.9	152.3
436.4	434.48	-20.90	9.94	23.1	154.5	9.6	166.4
446.4	444.35	-21.92	11.00	24.5	153.4	9.4	97.4
456.4	454.22	-22.11	12.58	25.4	150.4	9.0	99.9
466.4	464.08	-22.70	14.10	26.7	148.2	10.0	120.9
476.4	473.92	-24.00	15.36	28.5	147.4	11.1	148.0
486.4	483.71	-25.76	16.27	30.5	147.7	11.3	162.9
496.4	493.51	-27.53	17.13	32.4	148.1	11.8	127.6
506.4	503.29	-28.02	19.15	33.9	145.7	12.9	95.3

* * * * * COMPU-LOG - VERTICAL DEVIATION * * * * *

CLIENT : ELK VALLEY COAL HOLE ID. : RH 2858
 FIELD OFFICE : DATE OF LOG : 08/29/06
 DATA FROM : N/A PROBE : 9400A , 367
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: RH2858_08-29-06_10-33_9400A_005_6.40_534.69_DEVI.log

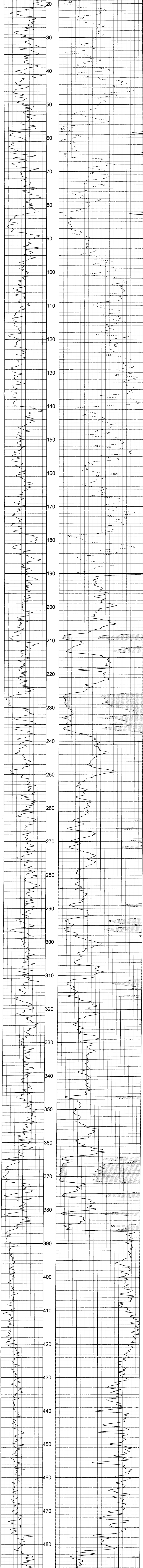
CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
516.4	513.04	-28.53	21.28	35.6	143.3	14.0	113.0
526.4	522.75	-30.03	23.16	37.9	142.4	14.5	139.3
534.7	530.74	-31.81	24.38	40.1	142.5	15.5	151.5

century-geo.com
 COMPANY : ELK WALLEY COAL
 WELL : RH 2858
 MUNICIPALITY : N/A
 COUNTY : WEST VIRGINIA
 LOCATION : BEAM MOUNTAIN
 SECTION : N/A
 TOWNSHIP : N/A
 RANGE : N/A
 API NO. : N/A
 PERMITS WELL ID. : N/A
 PERMITS DATA : N/A
 LOG MEASURED FROM : G.L.
 DATE : 08/02/06
 DEPTH (METER) : 515
 BIT SIZE : 13.335
 LOG TOP : 0.57
 LOG BOTTOM : 533.10
 CASING CO. TOP : 17.240
 CASING CO. BOTTOM : 17.240
 CEMENT : STEEL
 CEMENT TYPE : WATER
 CEMENT FLUID : N/A
 CEMENT TEMPERATURE : N/A
 MUD WEIGHT : N/A
 MUD VISCOSITY : N/A
 RECORD BY : R. HECK
 REMARKS 1 : 5 1/2" RH / RB TO 371' M. 5 1/4" RB TO TTD
 REMARKS 2 : LOG THRU DRILL PIPE
 ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS.

OTHER SERVICES : 9027
 NA : 8239
 NA

200 PLOT RATIO RH 2858 08/02/06

LOG PARAMETERS
 NEUTRON MATRIX : SANDSTONE
 ELECT. CUTOFF : 99999
 MATRIX DELTA T : 140
 BIT SIZE : 13.335
 MATRIX DENSITY : 2.68
 MAGNETIC DECL. : 17.0



200 PLOT RATIO RH 2858 08/02/06

LOG PARAMETERS
 NEUTRON MATRIX : SANDSTONE
 ELECT. CUTOFF : 99999
 MATRIX DELTA T : 140
 BIT SIZE : 13.335
 MATRIX DENSITY : 2.68
 MAGNETIC DECL. : 17.0

TOOL CALIBRATION RH 2858 08/02/06 09:31				
DATE	TIME	SENSOR	STAND4PLU	RESPONSE
Jul12.06	18:07:53	GAMMA	1.000 [API-GR]	1.00 [CPS]
Jul12.06	18:07:53	GAMMA	250.000 [API-GR]	80.00 [CPS]
Jul08.06	14:23:13	NEUTRON	1.000 [API-N]	1.00 [CPS]
Jul08.06	14:23:13	NEUTRON	500.000 [API-N]	500.00 [CPS]

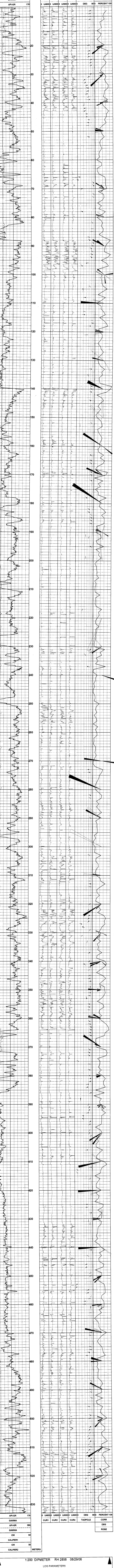
COMPANY : CENTURY-990.COM
 WELL : RH 2858
 FIELD : ELKVALET COAL
 LOCATION : ELKVALET
 MINE/PALTY : ELKVALET
 LOG NUMBER : 9239

LOG MEASURED FROM G.L. : ELEVATION OF N/A
 LOG MEASURED FROM G.L. : ELEVATION OF N/A
 LOG MEASURED FROM G.L. : ELEVATION OF N/A
 LOG MEASURED FROM G.L. : ELEVATION OF N/A
 LOG MEASURED FROM G.L. : ELEVATION OF N/A

LOG TOP : 6.40
 LOG BOTTOM : 53.80
 LOG LENGTH : 47.40
 LOG MEASURED FROM G.L. : ELEVATION OF N/A
 LOG MEASURED FROM G.L. : ELEVATION OF N/A
 LOG MEASURED FROM G.L. : ELEVATION OF N/A

RECORDED BY : R.HECK
 CHECKED BY : R.HECK
 REMARKS 1 :
 REMARKS 2 :
 REMARKS 3 :
 ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

1:200 DIPMETER RH 2858 08/29/06
 LOG PARAMETERS
 NEUTRON MATRIX : SANDSTONE
 ELECT. CUTOFF : 99999
 MATRIX DENSITY : 2.68
 MAGNETIC DECL. : 17.000
 MATRIX DELTA T : 140
 BIT SIZE : 13.335



1:200 DIPMETER RH 2858 08/29/06
 LOG PARAMETERS
 NEUTRON MATRIX : SANDSTONE
 ELECT. CUTOFF : 99999
 MATRIX DENSITY : 2.68
 MAGNETIC DECL. : 17.000
 MATRIX DELTA T : 140
 BIT SIZE : 13.335

TOOL CALIBRATION RH 2858 08/29/06 10:33
 TOOL 9400A
 SERIAL NUMBER 367

DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Aug28,06 16:37:16	CUR4	1.000 [UA]	1.00 [CPS]
	Aug28,06 16:37:16	CALPER1	283.000 [INCH]	283.00 [CPS]
	Aug28,06 16:37:16	CALPER1	5.374 [INCH]	100.00 [CPS]
2	Mar23,06 16:28:46	CALPER1	384.900 [INCH]	6000.00 [CPS]
3	Mar23,06 16:28:26	CALPER1	400.000 [INCH]	737.00 [CPS]
4	Mar23,06 16:28:25	CALPER1	7000.000 [INCH]	12936.00 [CPS]
	Mar23,06 16:28:42	XINCL	400.000 [MV]	375.00 [CPS]
	Mar23,06 16:28:42	XINCL	7000.000 [MV]	15240.00 [CPS]
5	Mar23,06 16:28:57	YINCL	400.000 [MV]	585.00 [CPS]
	Mar23,06 16:28:57	YINCL	7000.000 [MV]	10290.00 [CPS]
6	Mar23,06 16:28:14	XFLUX	400.000 [MV]	590.00 [CPS]
	Mar23,06 16:28:14	XFLUX	7000.000 [MV]	12350.00 [CPS]
7	Aug24,06 19:37:11	YFLUX	15.240 [MV]	6249.00 [CPS]
8	Aug24,06 19:37:11	ZFLUX	15.240 [MV]	11691.00 [CPS]
9	Aug24,06 19:37:35	ZFLUX	25.400 [MV]	6118.00 [CPS]
	Aug24,06 19:37:35	ZFLUX	25.400 [MV]	12536.00 [CPS]
	Dec19,02 19:52:27	CUR5	1200.000 [UA]	15358.00 [CPS]
	Dec19,02 19:52:27	CUR5	7000.000 [UA]	8900.00 [CPS]

CENTURY-990.COM

COMPANY : ELK VALLEY COAL
 WELL : RH 2859
 FIELD : N/A
 MUNICIPALITY : ELK FORD
 LOCATION : BEAR MTL
 PROVINCE : BRITISH COLUMBIA
 SECTION : N/A
 TOWNSHIP : N/A
 RANGE : N/A
 API NO. : N/A
 UNIQUE WELL ID : N/A

OTHER SERVICES
 9907
 9907
 N/A

2859
 2919.3E
 140.194.3N
 2228.2m

PERMANENT DATUM : G.L.
 LOG MEASURED FROM : G.L.
 DRL MEASURED FROM : G.L.
 ELEVATION I.R. : N/A
 ELEVATION G.L. : N/A

DATE : 09/08/05
 DEPTH DRILLER : 300
 BIT SIZE : 13.018
 LOG TOP : 0.12
 LOG BOTTOM : 298.44
 CASING OD : 13.21
 CASING BOTTOM : 3

CASING TYPE : STEEL
 BOREHOLE FLUID : WATER
 RMI TEMPERATURE : N/A
 MUD RES : N/A
 MUD WEIGHT : N/A
 WITNESSED BY : R. HECK
 RECORDED BY : 514 * 18 TO 100 M. 518 * 18 TO 10
 REMARKS 1 : N/A
 REMARKS 2 : N/A

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

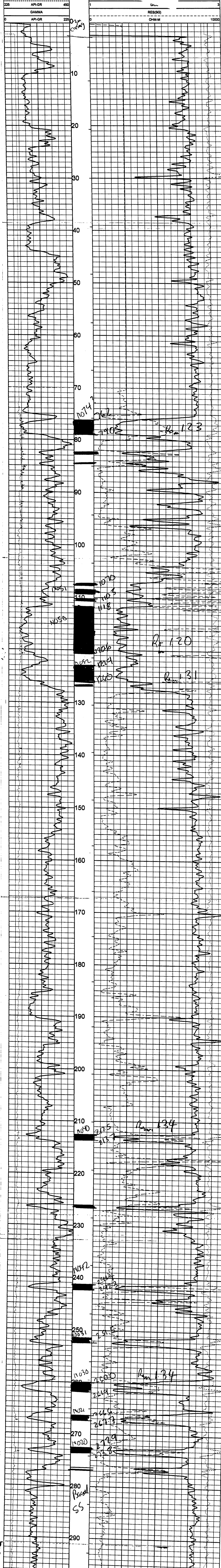
220908
 220908

1:200 BULK DENSITY

MATRIX DENSITY : 2.65
 MAGNETIC DECL : 17.0
 LOG PARA
 NEUTRON MAT
 ELECT. CUTO'

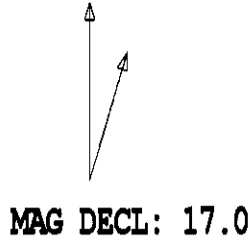
PRESENTATION NAME/DATE = 9239C1.0 09/08/05

5.911
 126

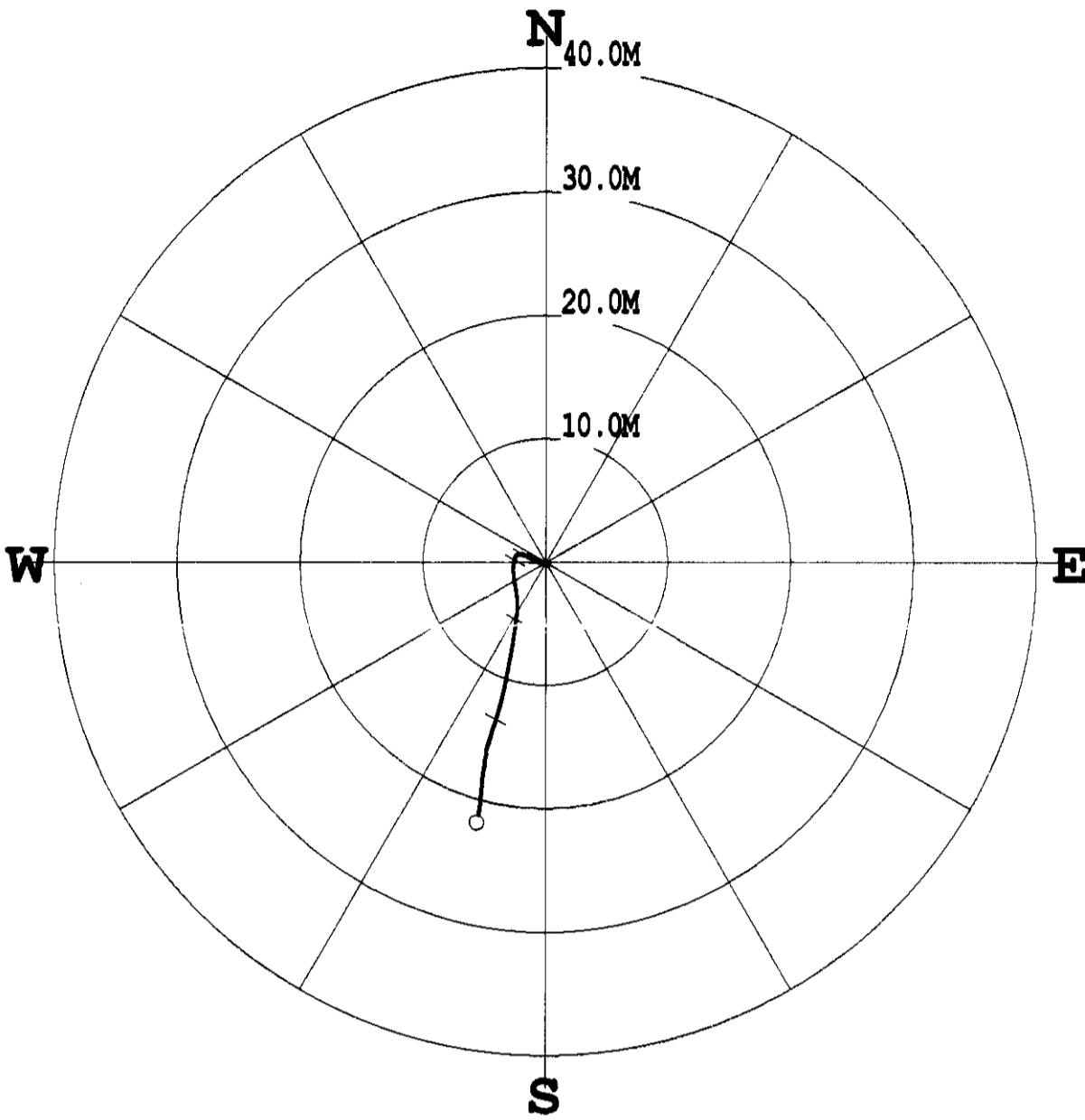


PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION: N/A
 HOLE ID: RH 2859
 DATE OF LOG: 09/08/06
 PROBE: 9057A 1067



SCALE: 5 M/CM
 TRUE DEPTH: 297.49 M
 AZIMUTH: 194.8
 DISTANCE: 21.8 M
 + = 50 M INCR
 ○ = BOTTOM OF HOLE



***** COMPU-LOG - VERTICAL DEVIATION *****

CLIENT : ELK VALLEY COAL HOLE ID. : RH 2859
 FIELD OFFICE : DATE OF LOG : 09/08/06
 DATA FROM : N/A PROBE : 9057A 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: RH2859_09-08-06_13-31_9057A_.02_3.00_299.44_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
3.02	3.02	-0.00	0.00	0.0	114.3	0.4	114.3
13.00	13.00	-0.03	-0.06	0.1	247.5	0.5	265.2
23.00	23.00	-0.03	-0.15	0.2	260.1	0.6	277.4
33.00	33.00	-0.01	-0.27	0.3	267.3	0.6	280.0
43.00	43.00	0.01	-0.42	0.4	271.8	1.2	284.3
53.00	53.00	0.06	-0.61	0.6	275.5	1.0	299.8
63.00	62.99	0.15	-0.79	0.8	280.5	1.4	294.8
73.00	72.99	0.28	-1.04	1.1	284.8	2.0	298.4
83.00	82.98	0.43	-1.34	1.4	287.8	2.0	295.6
93.00	92.98	0.56	-1.63	1.7	289.0	1.7	293.2
103.00	102.97	0.65	-1.89	2.0	289.0	1.4	286.6
113.00	112.97	0.68	-2.10	2.2	288.0	1.0	272.4
123.00	122.97	0.67	-2.26	2.4	286.4	0.7	250.6
133.00	132.97	0.62	-2.36	2.4	284.6	0.6	234.2
143.00	142.97	0.45	-2.47	2.5	280.4	1.8	205.9
153.00	152.96	0.06	-2.58	2.6	271.3	3.1	191.8
163.00	162.94	-0.57	-2.64	2.7	257.8	4.5	184.3
173.00	172.90	-1.44	-2.55	2.9	240.5	5.8	175.5
183.00	182.83	-2.58	-2.37	3.5	222.6	7.4	173.3
193.00	192.76	-3.79	-2.30	4.4	211.2	6.9	175.3
203.00	202.68	-5.01	-2.44	5.6	206.0	7.3	185.7
213.00	212.58	-6.37	-2.65	6.9	202.6	8.3	191.0
223.00	222.46	-7.91	-2.95	8.4	200.5	10.0	190.6
233.00	232.31	-9.61	-3.25	10.1	198.7	10.3	192.9
243.00	242.15	-11.34	-3.64	11.9	197.8	10.5	202.4
253.00	251.98	-13.06	-4.15	13.7	197.6	10.6	209.2
263.00	261.81	-14.82	-4.69	15.5	197.6	10.3	191.8
273.00	271.64	-16.58	-4.99	17.3	196.7	10.3	184.4
283.00	281.47	-18.39	-5.22	19.1	195.8	10.2	183.9
293.00	291.32	-20.09	-5.39	20.8	195.0	9.8	197.1
299.26	297.49	-21.08	-5.57	21.8	194.8	9.4	192.7



**COMPENSATED DENSITY
GAMMA - CALIPER - RES.**
RH 2859

century-geo.com

COMPANY : EL VALLEY COAL
WELL : RH 2859
FIELD : N/A
MUNICIPALITY : EL FORDO
PROVINCE : BRITISH COLUMBIA
LOCATION : BEAR MTN
SECTION : N/A
TOWNSHIP : N/A
RANGE : N/A
APN NO : N/A
UNIQUE WELL ID : N/A

PERMANENT DATUM : G.L.
LOG MEASURED FROM : G.L.
DRL MEASURED FROM : G.L.
ELEVATION NB : N/A
ELEVATION DF : N/A
ELEVATION GL : N/A

DATE : 09/08/06
DEPTH (METER) : 300
BIT SIZE : 13.0/8
LOG TOP : 0.32
LOG BOTTOM : 289.44
CASING OD : 15.24
CASING BOTTOM : 3

CASING TYPE : STEEL
ROBICORP FLUID : WATER
RM TEMPERATURE : N/A
MUD RES : N/A
MUD WEIGHT : N/A
WITNESSED BY : R HECK
RECORDED BY : N/A
REMARKS 1 : 514 * 118 TO 100 M. 518 * 118 TO 170
REMARKS 2 : N/A

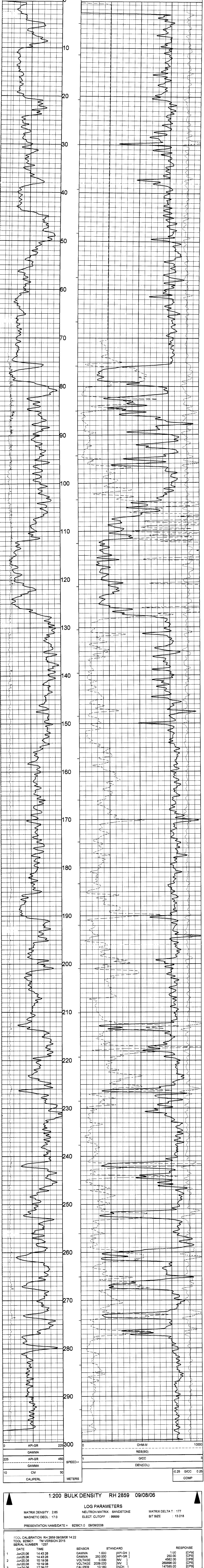
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

1:200 BULK DENSITY RH 2859 09/08/06

MATRIX DENSITY : 2.65
MAGNETIC DECL. : 17.0
PRESENTATION NAME/DATE = 9239C1.0 09/08/2006

LOG PARAMETERS
NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 99999

MATRIX DELTA T : 177
BIT SIZE : 13.0/8



1:200 BULK DENSITY RH 2859 09/08/06

MATRIX DENSITY : 2.65
MAGNETIC DECL. : 17.0
PRESENTATION NAME/DATE = 9239C1.0 09/08/2006

LOG PARAMETERS
NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 99999

MATRIX DELTA T : 177
BIT SIZE : 13.0/8

TOOL CALIBRATION RH 2859 09/08/06 14:22
TOOL 9239C1 TM VERSION 2015
SERIAL NUMBER 1237

DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Jun25 06 14:43:28	GAMMA	1.000 [API-GR]	1.00 [CPS]
2	Jun25 06 14:43:28	GAMMA	250.000 [API-GR]	250.00 [CPS]
3	Jun20 08 10:19:08	VOLTAGE	0.000 [MV]	4582.00 [CPS]
4	Jun24 06 17:39:07	CALIPER	10.160 [INCH]	269896.00 [CPS]
5	Jun31 08 20:23:58	DEN(LS)	Default [CPS]	147585.00 [CPS]
6	Jul31 08 20:24:17	DEN(LS)	2.420 [G/CC]	585.00 [CPS]
7	Jun24 06 17:58:46	DEN(SS)	1.000 [G/CC]	10585.00 [CPS]
8	Jun20 08 10:19:45	DEN(SS)	2.420 [G/CC]	4395.00 [CPS]
9	Jun24 06 17:58:46	CALIPERL	10.160 [INCH]	147585.00 [CPS]
10	Jun20 08 10:19:45	CALIPERL	25.400 [INCH]	323495.00 [CPS]
11	Jun20 08 10:19:45	CURRENT	0.000 [UA]	5308.00 [CPS]
12	Jun20 08 10:14:53	CURRENT	287.000 [UA]	28479.00 [CPS]
13	Jun20 08 10:14:53	F	Default [CPS]	

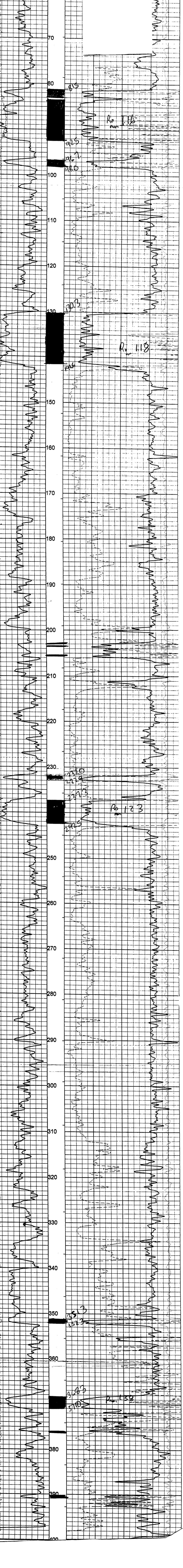
2860
29708.1E
140399.11N
2193.4m

LOG MEASURED FROM: G.L.
ELEVATION: N/A
ELEVATION G.L.: N/A

LOG TOP: 493.05
LOG BOTTOM: 15.24
CASINGS OD: 3
CASINGS ID: 1.524

LOG PARAMETERS
NEUTRON MATRIX SANDSTONE
ELECT CUTOFF 99999
MATRIX DELTA T 140
BIT SIZE 13 018

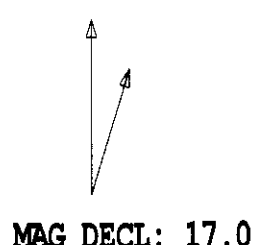
MATRIX DENSITY: 2.88
MAGNETIC DECL: 17.0
PRESENTATION NAME/DATE: 9229cdlla.0 08/27/2006



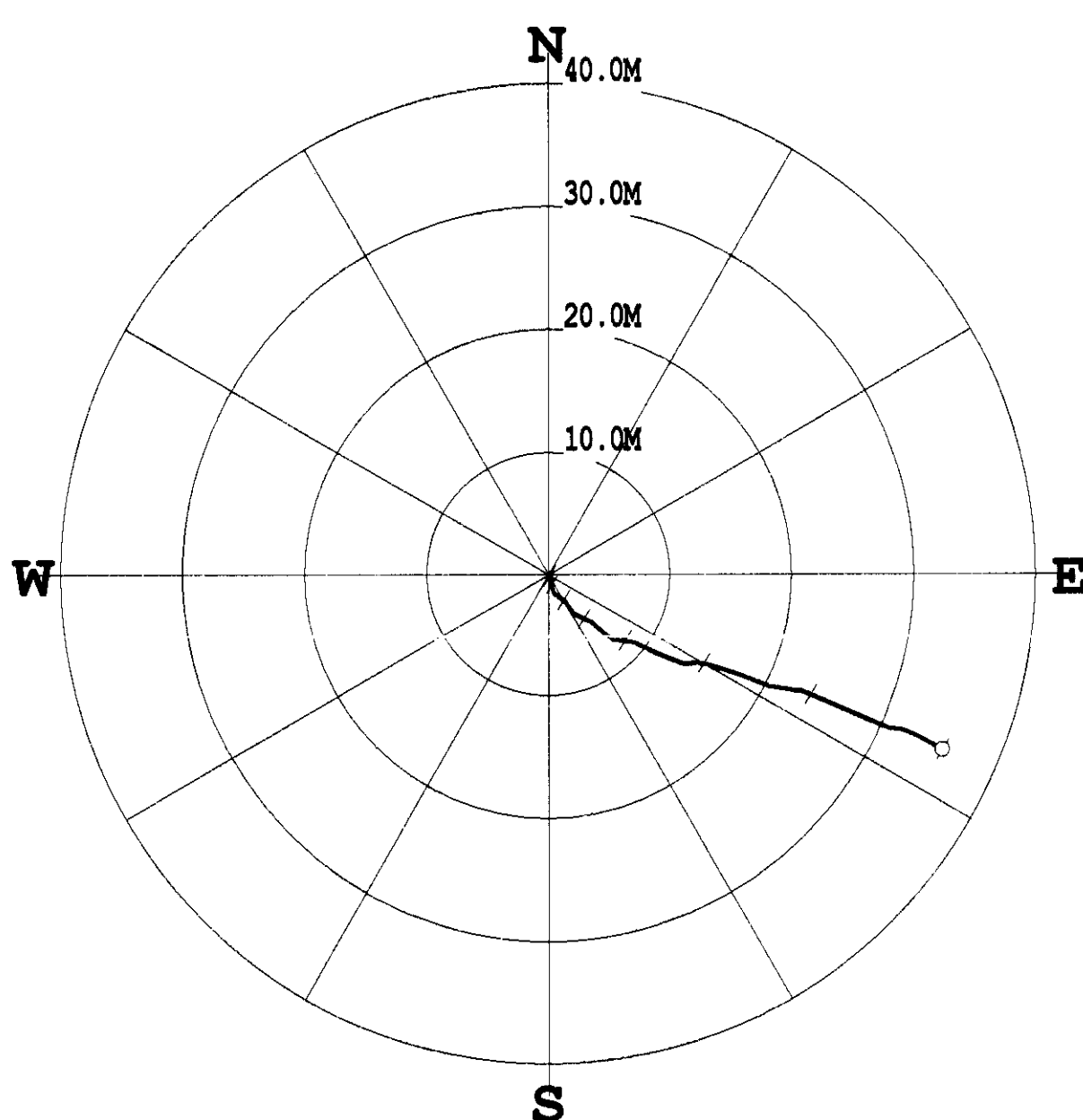
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION: N/A
 HOLE ID: RH 2860
 DATE OF LOG: 09/04/06
 PROBE: 9057A 1067



SCALE: 5 M/CM
 TRUE DEPTH: 396.79 M
 AZIMUTH: 114.0
 DISTANCE: 35.3 M
 + = 50 M INCR
 ○ = BOTTOM OF HOLE



* * * * * COMPU-LOG - VERTICAL DEVIATION * * * * *

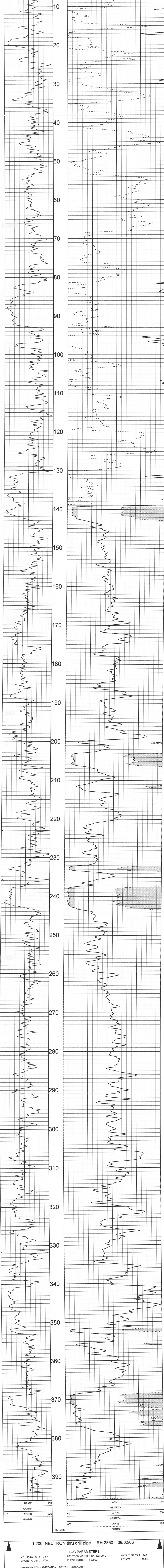
CLIENT : ELK VALLEY COAL HOLE ID. : RH 2860
 FIELD OFFICE : DATE OF LOG : 09/04/06
 DATA FROM : N/A PROBE : 9057A , 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: RH2860_09-04-06_12-19_9057A_02_4.00_400.05_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
4.02	4.02	-0.00	0.00	0.0	112.9	0.3	112.9
14.00	14.00	0.01	0.05	0.0	78.7	0.2	97.9
24.00	24.00	0.03	0.07	0.1	70.5	0.1	48.1
34.00	34.00	0.01	0.08	0.1	79.8	0.2	178.2
44.00	44.00	-0.05	0.07	0.1	127.0	0.5	183.7
54.00	54.00	-0.14	0.08	0.2	150.1	0.7	152.7
64.00	64.00	-0.22	0.15	0.3	144.9	0.6	128.3
74.00	74.00	-0.28	0.22	0.4	141.6	0.6	147.2
84.00	84.00	-0.39	0.26	0.5	145.8	0.9	175.3
94.00	93.99	-0.61	0.26	0.7	156.6	1.5	177.9
104.00	103.99	-0.88	0.28	0.9	162.2	1.6	172.5
114.00	113.99	-1.20	0.34	1.3	164.0	1.9	164.9
124.00	123.98	-1.53	0.48	1.6	162.5	2.0	149.0
134.00	133.97	-1.73	0.75	1.9	156.6	2.0	122.4
144.00	143.97	-1.93	1.06	2.2	151.2	2.1	122.6
154.00	153.96	-2.16	1.34	2.5	148.2	2.4	143.9
164.00	163.95	-2.50	1.57	3.0	147.8	2.6	148.4
174.00	173.94	-2.89	1.83	3.4	147.6	2.7	148.6
184.00	183.93	-3.23	2.15	3.9	146.3	2.6	115.9
194.00	193.92	-3.45	2.60	4.3	143.0	3.0	109.9
204.00	203.90	-3.70	3.10	4.8	140.0	3.5	113.3
214.00	213.88	-4.02	3.66	5.4	137.7	4.1	130.4
224.00	223.85	-4.52	4.20	6.2	137.1	4.5	138.5
234.00	233.82	-5.02	4.83	7.0	136.1	4.8	126.8
244.00	243.78	-5.39	5.64	7.8	133.7	5.1	95.4
254.00	253.72	-5.53	6.64	8.6	129.8	5.8	92.9
264.00	263.66	-5.90	7.69	9.7	127.5	6.9	123.1
274.00	273.57	-6.48	8.87	11.0	126.1	8.1	122.2
284.00	283.46	-7.01	10.21	12.4	124.5	8.7	111.6
294.00	293.35	-7.28	11.67	13.8	122.0	8.9	85.5
304.00	303.22	-7.47	13.24	15.2	119.4	9.5	109.4
314.00	313.06	-7.98	14.89	16.9	118.2	10.6	99.4
324.00	322.90	-8.58	16.55	18.6	117.4	10.7	125.1
334.00	332.73	-9.17	18.28	20.5	116.6	10.4	101.0
344.00	342.55	-9.49	20.13	22.3	115.2	10.7	105.4
354.00	352.37	-10.03	21.92	24.1	114.6	11.1	113.8
364.00	362.14	-10.87	23.86	26.2	114.5	13.4	114.6
374.00	371.84	-11.81	26.07	28.6	114.4	14.2	96.6
384.00	381.51	-12.63	28.44	31.1	113.9	15.1	103.8
394.00	391.15	-13.56	30.86	33.7	113.7	16.2	120.1
399.88	396.79	-14.36	32.29	35.3	114.0	17.0	121.9

1:200 NEUTRON thru drill pipe RH 2860 09/02/06

MATRIX DENSITY : 2.68
 MAGNETIC DECL : 17.0
 PRESENTATION NAME/DATE = 9067A 0 08/09/2006

LOG PARAMETERS
 NEUTRON MATRIX : SANDSTONE
 ELECT. CUTOFF : 966999
 MATRIX DELTA T : 140
 BIT SIZE : 13.018



1:200 NEUTRON thru drill pipe RH 2860 09/02/06

MATRIX DENSITY : 2.68
 MAGNETIC DECL : 17.0
 PRESENTATION NAME/DATE = 9067A 0 08/09/2006

LOG PARAMETERS
 NEUTRON MATRIX : SANDSTONE
 ELECT. CUTOFF : 966999
 MATRIX DELTA T : 140
 BIT SIZE : 13.018

DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Jul12.06 11:07:53	GAMMA	1.000 [API-GR]	1.00 [CPS]
	Jul12.06 11:07:53	GAMMA	250.000 [API-GR]	80.00 [CPS]
2	Jul08.06 07:23:13	NEUTRON	1.000 [API-N]	1.00 [CPS]
	Jul08.06 07:23:13	NEUTRON	500.000 [API-N]	500.00 [CPS]

Century
GEOMETRICAL CORP.
Century-990.com

DIPMETER
RH 2860

COMPANY: ELK VALLEY COAL
WELL: RH 2860
FIELD: N/A
COUNTY: ELK FORD
STATE: BRITISH COLUMBIA

OTHER SERVICES:
9807
9807
9239

LOCATION: BEAR Mtn
SECTION: N/A
TOWNSHIP: N/A
RANGE: N/A
API NO: N/A
UNIQUE WELL ID: N/A
PERMANENT DATUM: GL
LOGS MEASURED FROM: GL
DRI MEASURED FROM: GL
ELEVATION OF: N/A
ELEVATION OF: N/A

LOGS MEASURED FROM: GL
DATE: 09/04/06
DEPTH (METER): 400.3
BIT SIZE: 13.018
LOG TOP: 5.13
LOG BOTTOM: 389.00

CASING: 3
CASING TYPE: STEEL
CASING BOTTOM: 15.24

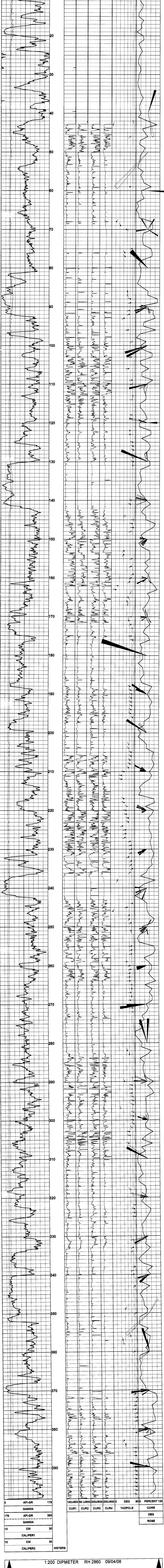
ROBBERIC LUBRICATION: WATER
ANNULAR TEMPERATURE: N/A
MUD RESIST: N/A
MUD WEIGHT: N/A
WITNESSED BY: N/A
RECORDED BY: R.HECK
REMARKS 1: 514' HB TO 398' M. 318' RB TO TD
REMARKS 2: N/A

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS.

1:200 DIPMETER RH 2860 09/04/06

MATRIX DENSITY : 2.68
MAGNETIC DECL. : 17.000
PRESENTATION NAME/DATE = dipc1-200a.0 09/05/2008

LOG PARAMETERS
NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 99999
MATRIX DELTA T : 140
BIT SIZE : 13.018



1:200 DIPMETER RH 2860 09/04/06

MATRIX DENSITY : 2.68
MAGNETIC DECL. : 17.000
PRESENTATION NAME/DATE = dipc1-200a.0 09/05/2008

LOG PARAMETERS
NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 99999
MATRIX DELTA T : 140
BIT SIZE : 13.018

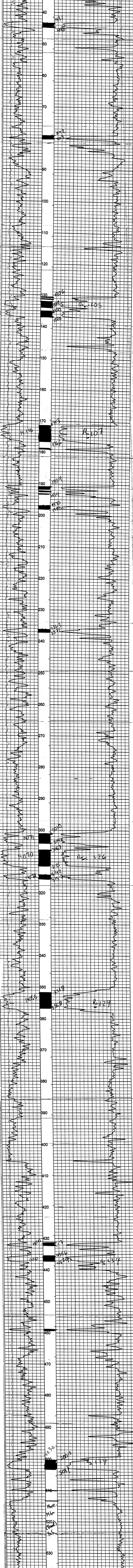
TOOL CALIBRATION RH 2860 09/04/06 15:04
TOOL 9400A TM VERSION 1
SERIAL NUMBER 367

DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Aug28,06 09:37:16	CUR4	1.000 [UA]	1.00 [CPS]
1	Aug28,06 09:37:16	CUR4	293.000 [UA]	268.00 [CPS]
2	Mar23,06 09:28:46	CALIPER1	6.371 [INCH]	100.00 [CPS]
2	Mar23,06 09:28:26	CALIPER	384.900 [INCH]	5000.00 [CPS]
2	Mar23,06 09:28:26	CALIPER	400.000 [INCH]	737.00 [CPS]
2	Mar23,06 09:28:26	CALIPER	7000.000 [INCH]	12935.00 [CPS]
4	Mar23,06 09:28:42	XINCL	400.000 [MV]	875.00 [CPS]
4	Mar23,06 09:28:42	XINCL	7000.000 [MV]	16240.00 [CPS]
5	Mar23,06 09:28:47	YINCL	400.000 [MV]	885.00 [CPS]
5	Mar23,06 09:28:47	YINCL	7000.000 [MV]	10280.00 [CPS]
6	Mar23,06 09:29:14	XFLUX	400.000 [MV]	690.00 [CPS]
6	Mar23,06 09:29:14	XFLUX	7000.000 [MV]	12350.00 [CPS]
7	Aug24,06 12:37:11	YFLUX	15.240 [MV]	5249.00 [CPS]
7	Aug24,06 12:37:11	YFLUX	25.400 [MV]	11691.00 [CPS]
8	Aug24,06 12:37:36	ZFLUX	15.240 [MV]	6118.00 [CPS]
8	Aug24,06 12:37:36	ZFLUX	25.400 [MV]	12638.00 [CPS]
9	Dec19,02 12:52:27	CUR5	1200.000 [UA]	1635.00 [CPS]
9	Dec19,02 12:52:27	CUR5	7000.000 [UA]	8900.00 [CPS]

CENTAUR LOGGING CO. INC.
2927 17th St. SW, Denver, CO 80202
PH #28-61
OTHER SERVICES
FIELD : NA
WELL : 140.5746 N
DATE : 07/11/06
JOB NO : 2861
COUNTY : SALT VALLEY COAL
STATE : UT
ZONES :
WARRANTY :
PROPERTY :
LAND :
LAND OWNERS :
LAND WEIGHT :
RECORDED BY :
DATE RECORDED : 10/13/06
REMARKS :
ALL SERVICES PROVIDED SUBJECT TO STANDARD SERVICE CONTRACT.

PLOT RATIO = 200 RH #28-61 07/11/06

LOG PARAMETERS
NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 99999
MATRIX DENSITY : 2.68
MAGNETIC DECL. : 17.0
MATRIX DELTA T : 140
BIT SIZE : 13.335



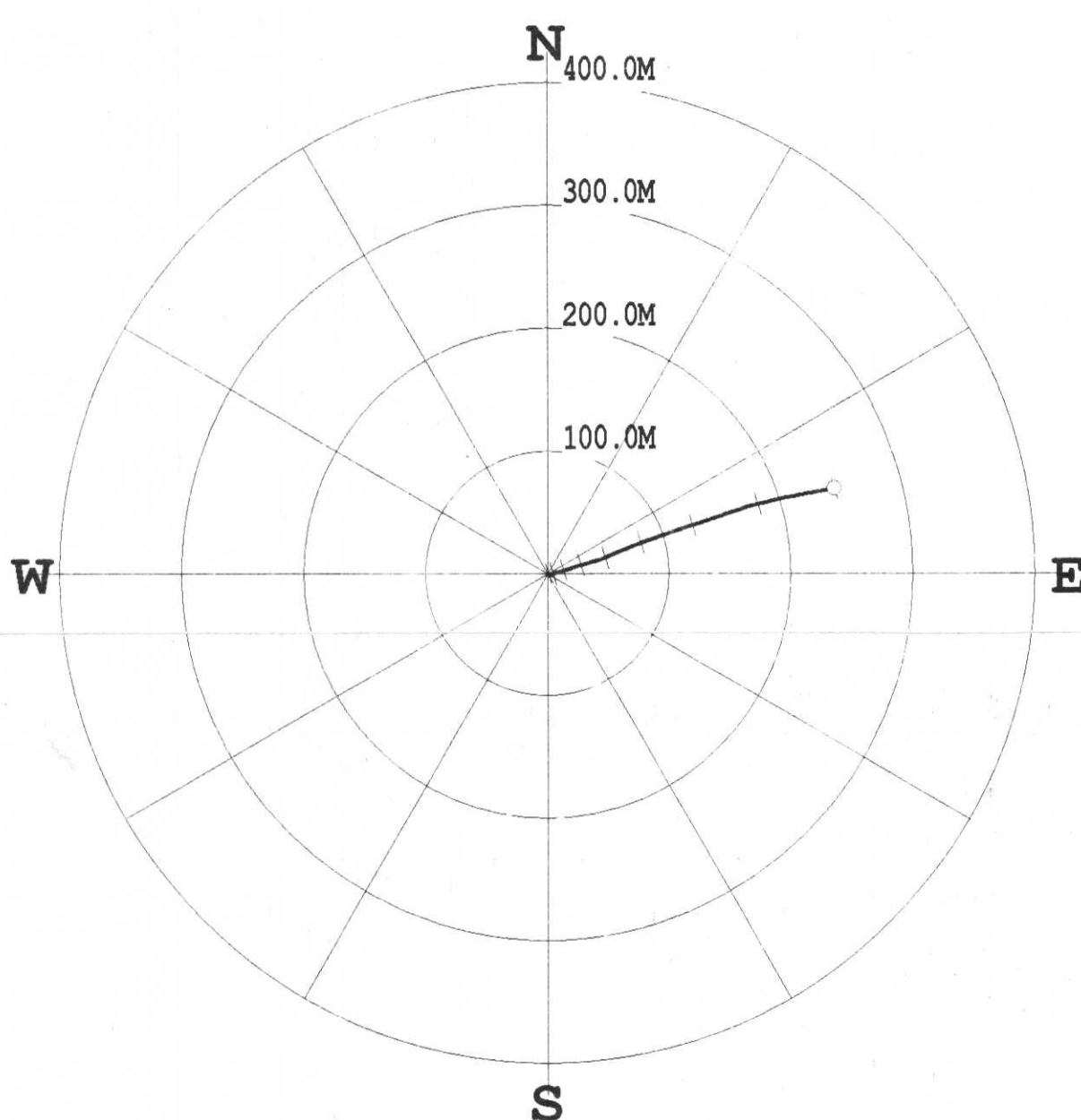
PLOT RATIO = 200 RH #28-61 07/11/06

PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION: N/A
 HOLE ID: RH #28-61
 DATE OF LOG: 07/11/06
 PROBE: 9057A 1067



SCALE: 50 M/CM
 TRUE DEPTH: 448.26 M
 AZIMUTH: 73.5
 DISTANCE: 245.1 M
 + = 50 M INCR
 ○ = BOTTOM OF HOLE



***** COMPU-LOG - VERTICAL DEVIATION *****

CLIENT : ELK VALLEY COAL HOLE ID. : RH #28-61
 FIELD OFFICE : DATE OF LOG : 07/11/06
 DATA FROM : N/A PROBE : 9057A , 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: \RH#28-61_07-11-06_15-40_9057A_.02_9.00_541.70_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
9.0	9.00	0.00	-0.00	0.0	336.7	2.0	336.7
19.0	19.00	-0.17	0.17	0.2	135.1	1.7	133.5
29.0	28.99	-0.39	0.37	0.5	135.9	1.4	142.1
39.0	38.99	-0.60	0.61	0.9	134.5	2.0	120.5
49.0	48.98	-0.75	0.95	1.2	128.3	2.4	94.9
59.0	58.97	-0.70	1.39	1.6	116.7	2.6	82.6
69.0	68.96	-0.63	1.85	2.0	108.8	3.3	72.7
79.0	78.93	-0.42	2.50	2.5	99.6	4.6	68.0
89.0	88.89	-0.23	3.37	3.4	94.0	5.1	65.0
99.0	98.84	0.03	4.36	4.4	89.6	6.6	76.5
109.0	108.75	0.46	5.58	5.6	85.3	7.9	55.5
119.0	118.62	0.97	7.11	7.2	82.3	9.5	77.0
129.0	128.48	1.37	8.72	8.8	81.1	10.7	71.6
139.0	138.30	1.99	10.49	10.7	79.3	11.5	67.3
149.0	148.07	2.67	12.51	12.8	78.0	13.2	67.7
159.0	157.79	3.10	14.79	15.1	78.2	13.7	81.6
169.0	167.46	3.93	17.18	17.6	77.1	15.5	70.1
179.0	177.04	4.87	19.86	20.4	76.2	17.8	71.3
189.0	186.58	5.78	22.70	23.4	75.7	18.5	75.0
199.0	196.03	6.79	25.80	26.7	75.3	19.8	72.8
209.0	205.44	7.71	29.06	30.1	75.1	19.8	85.1
219.0	214.81	8.62	32.41	33.5	75.1	21.0	77.4
229.0	224.11	9.68	35.90	37.2	74.9	22.6	71.4
239.0	233.31	10.61	39.67	41.1	75.0	24.4	78.1
249.0	242.40	11.81	43.60	45.2	74.8	25.7	76.4
259.0	251.35	13.43	47.74	49.6	74.3	27.0	66.5
269.0	260.13	15.40	52.06	54.3	73.5	30.4	68.6
279.0	268.73	17.22	56.75	59.3	73.1	31.6	53.6
289.0	277.17	19.30	61.61	64.6	72.6	33.3	71.7
299.0	285.45	21.42	66.74	70.1	72.2	34.4	65.8
309.0	293.61	23.49	72.07	75.8	72.0	35.3	75.3
319.0	301.67	25.57	77.59	81.7	71.8	37.9	67.3
329.0	309.58	27.54	83.34	87.8	71.7	38.7	67.0
339.0	317.33	29.64	89.23	94.0	71.6	44.2	56.0
349.0	324.86	31.65	95.44	100.6	71.7	41.4	73.6
359.0	332.12	34.13	101.79	107.4	71.5	44.5	84.7
369.0	339.26	36.20	108.34	114.2	71.5	45.0	75.5
379.0	346.24	38.44	115.07	121.3	71.5	46.2	74.7
389.0	353.21	40.45	121.82	128.4	71.6	46.4	70.3
399.0	360.10	42.69	128.63	135.5	71.6	46.0	77.6
409.0	366.94	44.93	135.38	142.6	71.6	47.9	70.0
419.0	373.63	47.24	142.38	150.0	71.6	48.3	77.9
429.0	380.17	49.77	149.45	157.5	71.6	46.2	84.8
439.0	386.64	52.11	156.62	165.1	71.6	50.2	70.2
449.0	393.00	54.61	163.83	172.7	71.6	49.8	78.9
459.0	399.23	56.52	171.30	180.4	71.7	50.2	85.2
469.0	405.31	58.31	178.95	188.2	72.0	52.2	77.7
479.0	411.35	60.16	186.62	196.1	72.1	54.1	70.3
489.0	417.30	62.03	194.29	203.9	72.3	54.0	83.0
499.0	423.22	63.24	202.14	211.8	72.6	53.4	85.9
509.0	429.17	64.76	209.79	219.6	72.8	54.7	73.4

***** COMPU-LOG - VERTICAL DEVIATION *****

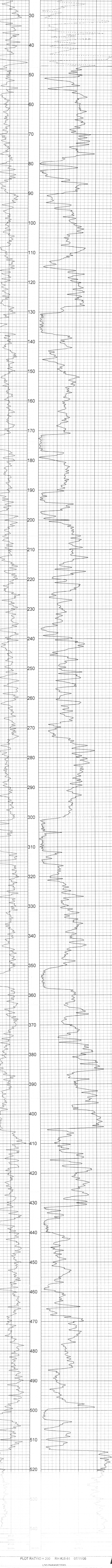
CLIENT : ELK VALLEY COAL HOLE ID. : RH #28-61
 FIELD OFFICE : DATE OF LOG : 07/11/06
 DATA FROM : N/A PROBE : 9057A , 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: \RH#28-61_07-11-06_15-40_9057A_.02_9.00_541.70_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
519.0	435.04	66.27	217.55	227.4	73.1	49.4	91.6
529.0	440.89	67.73	225.32	235.3	73.3	54.3	72.3
539.0	446.76	69.16	233.09	243.1	73.5	54.7	78.7
541.5	448.26	69.45	235.07	245.1	73.5	53.8	76.3

COMPANY	ELK WALKER COAL	WELL	RH #28-61
MUNICIPALITY	N/A	LOCATION	BRITISH COLUMBIA
PROVINCE	BRITISH COLUMBIA	SECTION	BEAR Mtn
SECTION	N/A	STAKE	N/A
APPLIC	N/A	UNIQUE WELL ID.	N/A
LOG MESSAGED FROM	GL	PERMANENT EDITOR	N/A
ELEVATION CL. WA		ELEVATION ME. WA	
DATE	07/11/06	LOG MESSAGED FROM	GL
DEPTH ORIENTER	540.5	ELEVATION CL. WA	
BIT SIZE	13.335		
LOG TOP	0.43		
LOG BOTTOM	541.70		
CASING CO.	17.78		
CASING BOTTOM			
SPURRING FLUID	WATER		
SRM TEMPERATURE	N/A		
MUD WEIGHT	N/A		
MUD RES			
RECORDED BY	R.HECK		
REMARKS 1	5127-18-RH TO 401 M 5146-RH TO 529.5 M 5148-RH TO 710		
REMARKS 2			

PLOT RATIO = 200 RH #28-61 07/11/06

MATRIX DENSITY: 2.68 LOG PARAMETERS MATRIX DELTA T: 140
MAGNETIC DECL: 17.0 NEUTRON MATRIX: SANDSTONE ELECT. CUTOFF: 99999 BIT SIZE: 13.335



PLOT RATIO = 200 RH #28-61 07/11/06

MATRIX DENSITY: 2.68 LOG PARAMETERS MATRIX DELTA T: 140
MAGNETIC DECL: 17.0 NEUTRON MATRIX: SANDSTONE ELECT. CUTOFF: 99999 BIT SIZE: 13.335

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8

COMPANY: Century-9800.COM
WELL: RH 2861
MUNICIPALITY: ELIZABETH COAL
ELIZABETH COAL

LOCATION: BEAR MTN
SECTION: N/A
TOWNSHIP: N/A
FRANCE: N/A
APPLICABLE WELLS: N/A
PERMANENT IDENT. NO.: N/A
LOG MEASUREMENT FROM: C/L
LOG MEASUREMENT FROM: O/L
WELL NUMBER: 8812308
DEPTH (M/FTH): 545.5
BIT SIZE: 13.018
LOG TOP: 14.21
LOG BOTTOM: 526.00

LOG MEASUREMENT FROM: N/A
LOG MEASUREMENT FROM: N/A
ELIMINATION: N/A

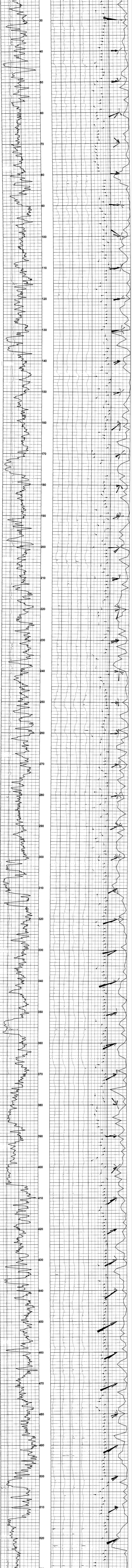
CASING TYPE: STEEL
ROD/BOP/TRE: WATER
FLUID TEMP: N/A
MUD WEIGHT: N/A
MUD VISCOSITY: N/A
LOGGED BY: P. WICK
RECORDED BY: TO: 481 M 514' RB TO: 525.5 M 514' RB TO: 526.00
REMARKS: 2
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

1:200 DIPMETER RH 2861 08/13/06

MATRIX DENSITY: 2.88
MAGNETIC DECL.: 17.000

LOG PARAMETERS
NEUTRON MATRIX: SANDSTONE
ELECT. CUTOFF: 99999

MATRIX DELTA T: 140
BIT SIZE: 13.018



1:200 DIPMETER RH 2861 08/13/06

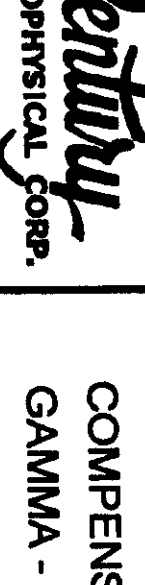
MATRIX DENSITY: 2.88
MAGNETIC DECL.: 17.000

LOG PARAMETERS
NEUTRON MATRIX: SANDSTONE
ELECT. CUTOFF: 99999

MATRIX DELTA T: 140
BIT SIZE: 13.018

TOOL CALIBRATION RH 2861 08/13/06 12:13
TOOL 9411A
SERIAL NUMBER 389

DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Jul28.06 14:31:21	GAMMA	0.000 [API-GR]	2.00 [CPS]
1	Jul28.06 14:31:21	GAMMA	283.000 [API-GR]	265.00 [CPS]
2	Aug10.06 16:36:45	VOLTAG	37.500 [MV]	939.00 [CPS]
2	Aug10.06 16:36:45	VOLTAG	181.800 [MV]	3566.00 [CPS]
3	Aug10.06 16:46:41	CUR1	0.000 [UA]	233.00 [CPS]
3	Aug10.06 16:46:41	CUR1	1.500 [UA]	9600.00 [CPS]
4	Aug10.06 16:47:01	CUR2	0.000 [UA]	230.00 [CPS]
4	Aug10.06 16:47:01	CUR2	1.500 [UA]	9737.00 [CPS]
5	Aug10.06 16:47:29	CUR3	0.000 [UA]	295.00 [CPS]
5	Aug10.06 16:47:29	CUR3	1.500 [UA]	9721.00 [CPS]
6	Aug10.06 16:47:47	CUR4	0.000 [UA]	280.00 [CPS]
6	Aug10.06 16:47:47	CUR4	1.500 [UA]	9420.00 [CPS]
7	Aug12.06 18:06:00	CALIPER	15.240 [INCH]	10248.00 [CPS]
7	Aug12.06 18:06:00	CALIPER	25.400 [INCH]	5925.00 [CPS]
8	Aug12.06 18:06:23	CALIPER	15.240 [INCH]	9079.00 [CPS]
8	Aug12.06 18:06:23	CALIPER	25.400 [INCH]	4608.00 [CPS]



COMPENSATED DENSITY
GAMMA-CALIPER - RES.
RH 2862

Century-geo.com

COMPANY	ELK VALLEY COAL	OTHER SERVICES	9687
WELL	RH 2862	9628	NA
FIELD	NA		
MUNICIPALITY	ELK FORD		
PROVINCE	BRITISH COLUMBIA		
LOCATION	BEAR Mtn		
SECTION	NA		
TOWNSHIP	NA		
RANGE	NA		
APR NO.	NA		
UNIQUE WELL ID	NA		
PERMANENT DEPTH	29583.1 E	ELEVATION: NA	
LOG MEASURED FROM	2133.5 M	ELEVATION: NA	
DATE	08/19/08		

DEPTH DRILLER	449
BIT SIZE	133/32
LOG TOP	0.39
LOG BOTTOM	448.90
CASING OD	15.24
CASING ID	12
BORHOLES TYPE	STEEL
BORHOLES FLUID	WATER
RH TEMPERATURE	NA
RH PRESS	NA
MUD WEIGHT	NA
WITNESSED BY	NA
RECORDED BY	NA
RECHECKED BY	NA
REMARKS 1	51/2" RH TO 30M, 51/4" RH TO TD
REMARKS 2	
REMARKS 3	

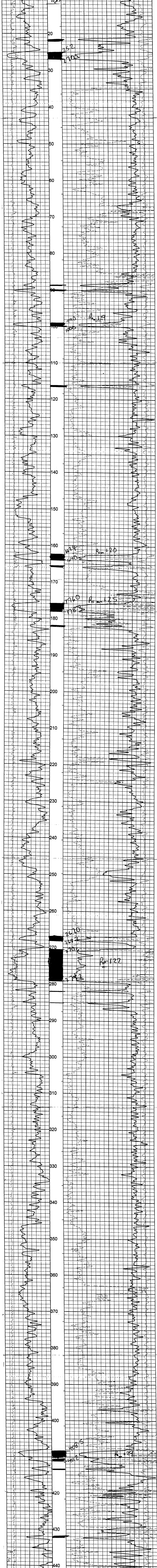
2-2-09-05

1:200 BULK DENSITY 06

MATRIX DENSITY: 2.65
MAGNETIC DECL: 17.0
PRESENTATION NAME/DATE = 9239C

MATRIX DELTA T: 177
SIZE: 13335

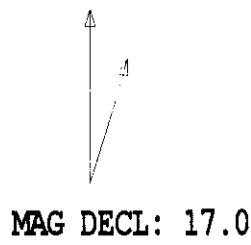
2 BLV
1/101



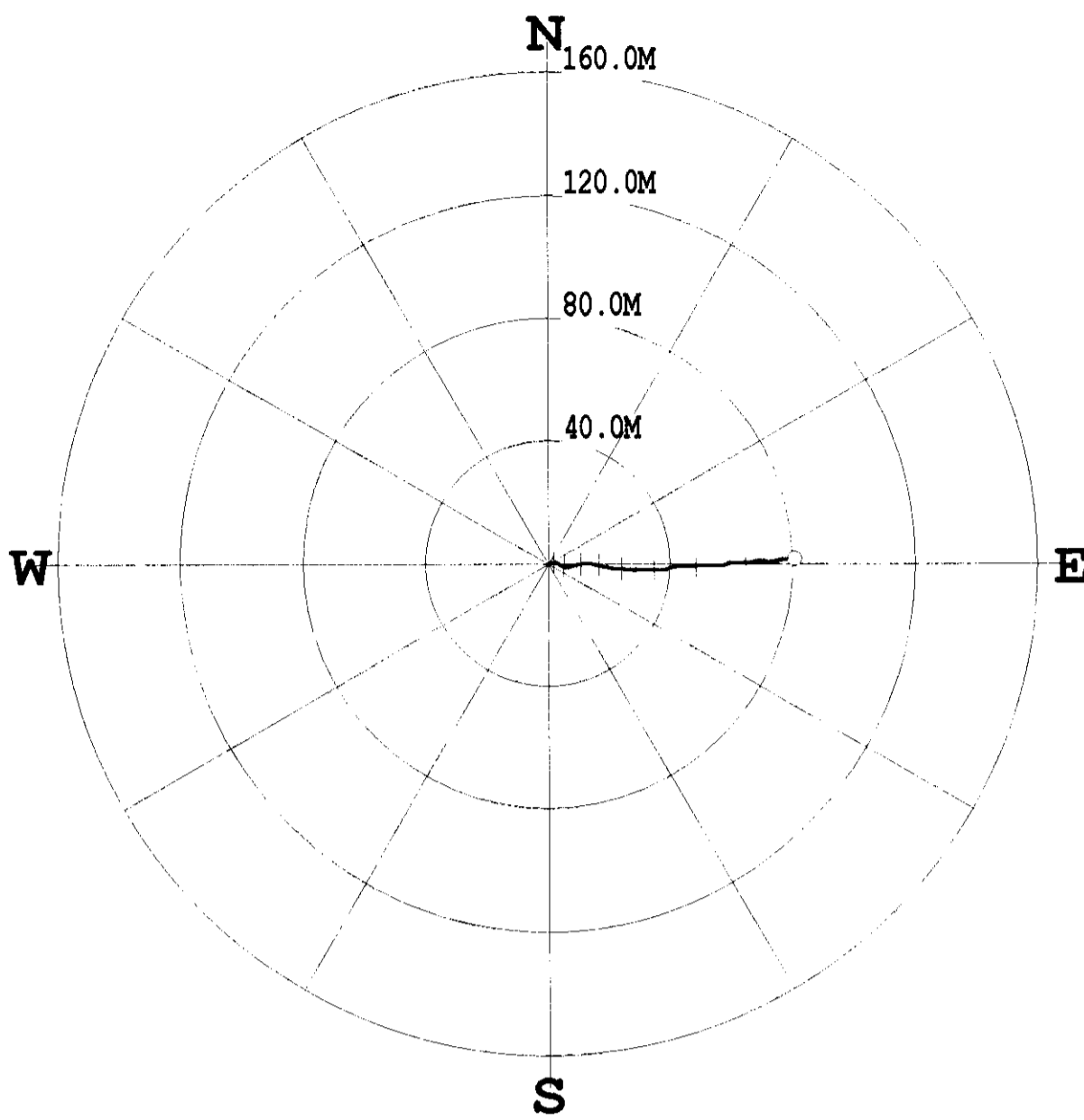
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION: N/A
 HOLE ID: RH 2862
 DATE OF LOG: 09/13/06
 PROBE: 9057A 1067



SCALE: 20 M/CM
 TRUE DEPTH: 438.35 M
 AZIMUTH: 88.8
 DISTANCE: 80.5 M
 + = 50 M INCR
 ○ = BOTTOM OF HOLE



* * * * * COMPU-LOG - VERTICAL DEVIATION * * * * *

CLIENT : ELK VALLEY COAL HOLE ID. : RH 2862
 FIELD OFFICE : DATE OF LOG : 09/13/06
 DATA FROM : N/A PROBE : 9057A 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: RH2862_09-13-06_12-59_9057A_.02_12.00_449.00_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
12.00	12.00	-0.00	-0.00	0.0	248.7	2.8	248.7
22.00	21.99	0.14	0.34	0.4	67.2	2.3	61.1
32.00	31.98	0.36	0.77	0.9	65.0	3.0	64.3
42.00	41.96	0.55	1.28	1.4	66.8	2.7	77.9
52.00	51.95	0.58	1.80	1.9	72.0	3.4	93.5
62.00	61.93	0.49	2.37	2.4	78.3	3.5	99.3
72.00	71.91	0.25	3.02	3.0	85.2	4.3	109.7
82.00	81.88	-0.09	3.71	3.7	91.3	4.9	116.8
92.00	91.84	-0.46	4.45	4.5	95.9	4.9	114.4
102.00	101.80	-0.75	5.35	5.4	98.0	6.0	107.0
112.00	111.73	-0.90	6.46	6.5	98.0	6.3	79.1
122.00	121.68	-0.60	7.49	7.5	94.5	6.1	75.6
132.00	131.62	-0.34	8.53	8.5	92.3	6.2	75.4
142.00	141.56	-0.13	9.60	9.6	90.8	7.0	77.1
152.00	151.49	0.07	10.76	10.8	89.6	6.1	76.8
162.00	161.42	0.21	11.88	11.9	89.0	6.2	72.1
172.00	171.37	0.33	12.94	12.9	88.5	6.3	82.9
182.00	181.30	0.10	14.07	14.1	89.6	7.1	102.9
192.00	191.22	-0.16	15.26	15.3	90.6	7.1	103.5
202.00	201.15	-0.42	16.45	16.5	91.5	7.1	110.0
212.00	211.06	-0.71	17.69	17.7	92.3	7.5	104.1
222.00	220.97	-1.01	19.04	19.1	93.0	8.7	106.7
232.00	230.85	-1.29	20.52	20.6	93.6	8.8	102.3
242.00	240.71	-1.54	22.15	22.2	94.0	10.2	107.5
252.00	250.54	-1.53	23.97	24.0	93.7	11.2	97.3
262.00	260.35	-1.77	25.91	26.0	93.9	11.8	102.6
272.00	270.15	-1.92	27.87	27.9	93.9	11.2	80.0
282.00	279.95	-1.64	29.83	29.9	93.1	12.6	100.7
292.00	289.68	-1.71	32.11	32.2	93.1	13.5	82.6
302.00	299.41	-1.75	34.39	34.4	92.9	12.8	88.9
312.00	309.15	-1.81	36.67	36.7	92.8	13.5	88.9
322.00	318.84	-1.51	39.06	39.1	92.2	15.1	69.4
332.00	328.46	-0.76	41.65	41.7	91.0	18.5	88.8
342.00	338.04	-0.65	44.50	44.5	90.8	16.1	81.0
352.00	347.61	-0.55	47.39	47.4	90.7	15.9	77.3
362.00	357.17	-0.46	50.31	50.3	90.5	16.8	89.9
372.00	366.71	-0.37	53.29	53.3	90.4	17.9	86.6
382.00	376.22	-0.27	56.39	56.4	90.3	18.5	98.3
392.00	385.70	0.38	59.46	59.5	89.6	18.6	85.4
402.00	395.12	0.54	62.78	62.8	89.5	20.3	86.1
412.00	404.47	0.63	66.32	66.3	89.5	20.4	68.4
422.00	413.75	0.89	69.97	70.0	89.3	22.9	90.1
432.00	422.98	0.88	73.79	73.8	89.3	23.2	75.3
442.00	432.16	1.61	77.66	77.7	88.8	20.2	86.4
448.82	438.35	1.68	80.49	80.5	88.8	25.8	79.4

Century-geo.com

COMPANY	ELK VALLEY COAL	OTHER SERVICES	3001
WELL	RH 2862		5029
MUNICIPALITY	BRITISH COLUMBIA		N/A
PROVINCE			
LOCATION	BEAR WTR		
SECTION	N/A		
TOWNSHIP	N/A		
RANGE	N/A		
APRNO	N/A		
LAND ACRES	N/A		
PERMANENT DATA	GL	ELEVATION IN	N/A
LOG MARKERS FROM	GL	ELEVATION OF	N/A
DATE	9/13/06	ELEVATION TO	N/A

LOGS TOP	449.02
LOGS BOTTOM	15.24
CASING TOP	12
CASING BOTTOM	15.24
FORMER F.L.L.D.	WATER
PAV TEMPERATURE	N/A
MUD WEIGHT	N/A
MUD VOLUME	N/A
RECORDED BY	SSS
REVISIONS	1
REVISIONS	2

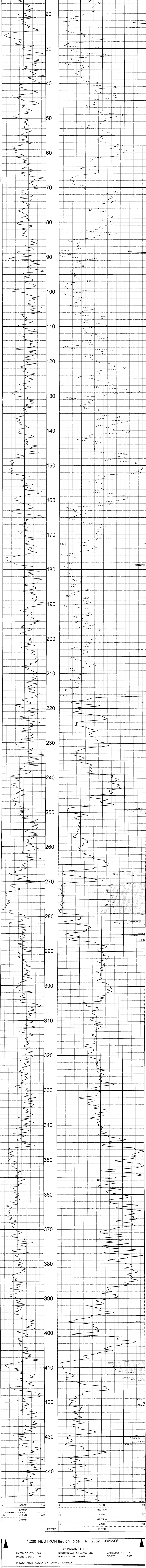
LOG THRU DRILL PIPE

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

1:200 NEUTRON thru drill pipe RH 2862 09/13/06

LOG PARAMETERS
 NEUTRON MATRIX: SANDSTONE
 ELECT. CUTOFF: 99999
 MATRIX DELTA T: 177
 BIT SIZE: 13.335

MATRIX DENSITY: 2.65
 MAGNETIC DECL: 17.0
 PRESENTATION NAME/DATE = 9067A.0 09/13/2006



1:200 NEUTRON thru drill pipe RH 2862 09/13/06

LOG PARAMETERS
 NEUTRON MATRIX: SANDSTONE
 ELECT. CUTOFF: 99999
 MATRIX DELTA T: 177
 BIT SIZE: 13.335

MATRIX DENSITY: 2.65
 MAGNETIC DECL: 17.0
 PRESENTATION NAME/DATE = 9067A.0 09/13/2006

TOOL CALIBRATION	RH 2862 09/13/06 05:14			
TOOL	9067A TM VERSION 1			
SERIAL NUMBER	530			
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Sep03.06 10:49:48	GAMMA	1.000 [API-GR]	1.00 [CPS]
2	Sep03.06 10:46:48	GAMMA	250.000 [API-GR]	80.00 [CPS]
	Sep03.06 10:47:15	NEUTRON	1.000 [API-N]	1.00 [CPS]
	Sep03.06 10:47:15	NEUTRON	500.000 [API-N]	500.00 [CPS]

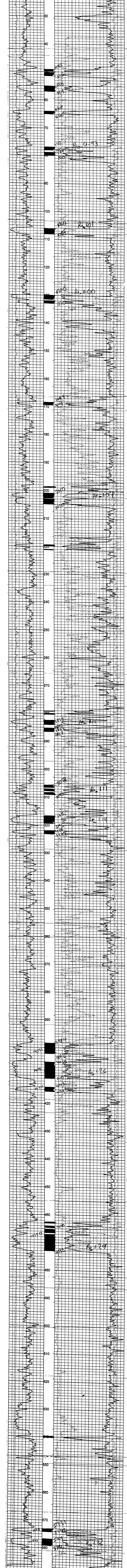
Centru geophysical tools CENTURY-geo.com		COMPENSATED DENSITY GAMMA - CALIPER - RES RH 2863	
COMPANY : FIELD : MINING/PATRY : PROVINCE : LOCATION : SECTION : TOWNSHIP : RANGE : ART# NO. : UNCL# WEL# ID : PERMITMENT/CAT# : LOG# MEASURED FROM : LOG# MEASURED TO : LOG# MEASURED AT SIZE :	ESTIMATED COR. : RH 2863 : ELMPCORD : BRITISH COLUMBIA : 290178 E : 1407247 N : 19424 : ELEVATION MIN. : ELEVATION OF : ELEVATION OF : LOG# MEASURED FROM : LOG# MEASURED TO : LOG# MEASURED AT SIZE :	OTHER SERVICES : 2863 : 807 : 811 :	LOGS TOP : 88.00 LOGS BOTTOM : 58.00 CASING OD : 6 CASING TYPE : STEEL BOREHOLE FLUID : WATER BOREHOLE TEMPERATURE : WIND DIRECTION : WIND SPEED : WIND WEIGHT : RECORDING BY : RECORDING DATE : TEMPERATURE : TEMPERATURE :

1:200 BULK DENSITY RH 2863 08/21/06

MATRIX DENSITY : 2.68
MAGNETIC DECL. : 17.0

LOG PARAMETERS
NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 99999

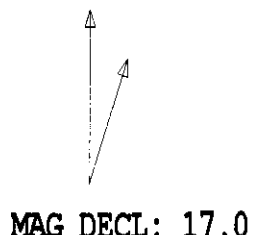
MATRIX DELTA T : 140
BIT SIZE : 13.335



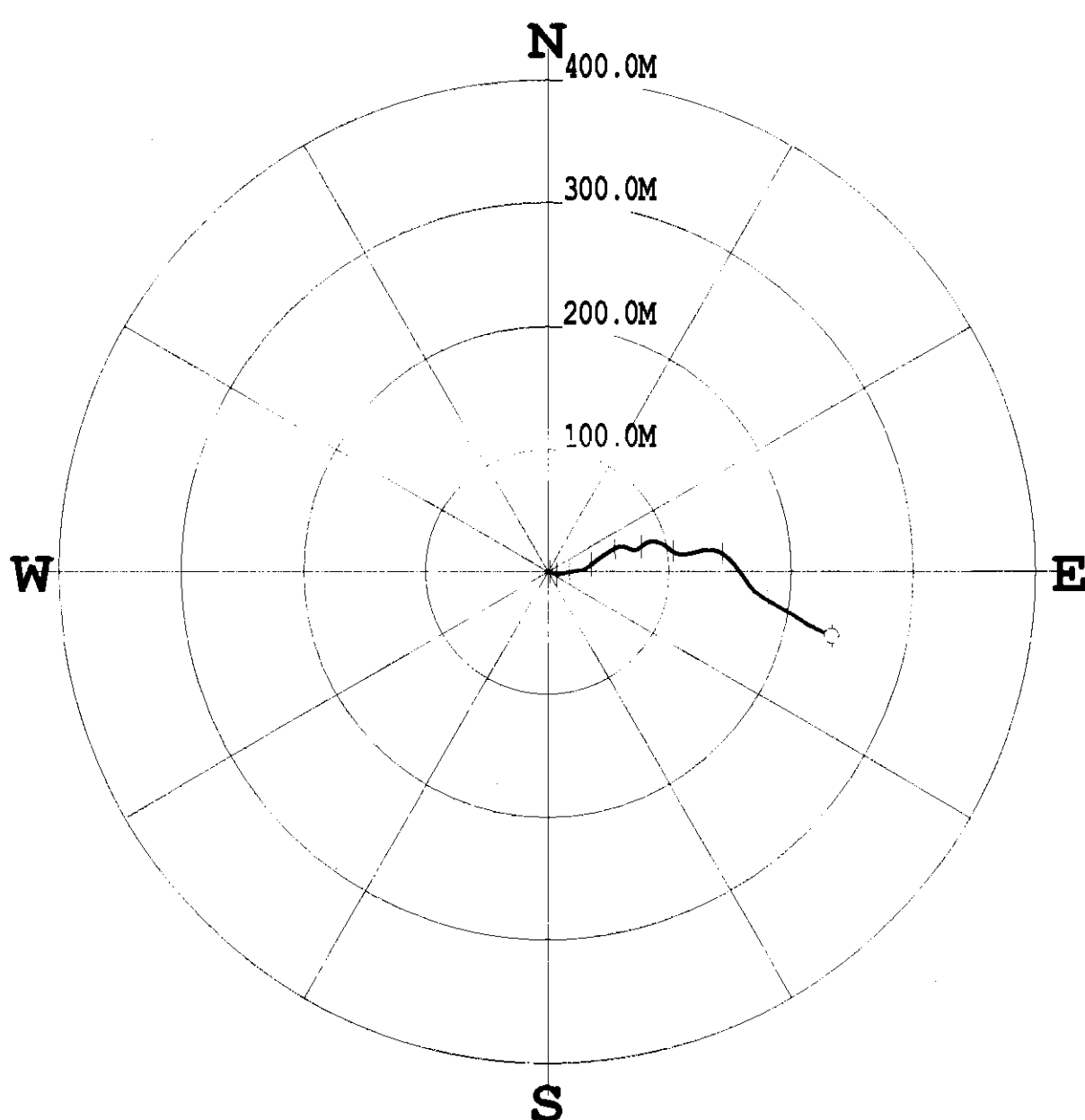
AP-GR 225
GAMMA 225
CALPERL 10
OHM-M 400
RES(SG) 2000

PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION: N/A
 HOLE ID: RH 2863
 DATE OF LOG: 08/28/06
 PROBE: 9400A 367



SCALE: 50 M/CM
 TRUE DEPTH: 496.94 M
 AZIMUTH: 102.6
 DISTANCE: 238.3 M
 + = 50 M INCR
 ○ = BOTTOM OF HOLE



***** COMPU-LOG - VERTICAL DEVIATION *****

CLIENT : ELK VALLEY COAL HOLE ID. : RH 2863
 FIELD OFFICE : DATE OF LOG : 08/28/06
 DATA FROM : N/A PROBE : 9400A , 367
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: RH2863_08-28-06_13-38_9400A_005_9.29_588.70_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
9.5	9.48	-0.00	0.00	0.0		0.7	97.8
19.3	19.29	-0.03	0.14	0.1	100.2	1.1	88.2
29.3	29.28	0.01	0.46	0.5	88.9	1.3	115.9
39.3	39.27	-0.01	0.89	0.9	90.9	3.0	104.2
49.3	49.26	-0.13	1.38	1.4	95.2	3.3	100.7
59.3	59.23	-0.22	2.11	2.1	95.9	5.4	90.4
69.3	69.17	-0.49	3.14	3.2	98.9	6.9	107.3
79.3	79.09	-1.06	4.31	4.4	103.8	8.1	117.4
89.3	88.98	-1.71	5.60	5.9	106.9	8.8	126.9
99.3	98.87	-2.08	6.97	7.3	106.6	8.3	91.5
109.3	108.74	-2.03	8.58	8.8	103.3	10.1	81.2
119.3	118.59	-1.81	10.30	10.5	100.0	10.1	81.9
129.3	128.39	-1.40	12.23	12.3	96.5	12.6	74.8
139.3	138.13	-0.78	14.44	14.5	93.1	12.3	71.9
149.3	147.78	-0.22	16.99	17.0	90.7	16.7	82.4
159.3	157.30	0.05	20.02	20.0	89.9	19.1	80.2
169.3	166.72	0.74	23.28	23.3	88.2	20.2	85.0
179.3	176.06	1.12	26.81	26.8	87.6	21.0	84.1
189.3	185.35	2.32	30.30	30.4	85.6	21.5	68.1
199.3	194.54	4.39	33.65	33.9	82.6	24.2	53.7
209.3	203.65	6.82	36.97	37.6	79.5	23.1	57.1
219.3	212.74	9.26	40.35	41.4	77.1	25.4	53.3
229.3	221.81	11.70	43.79	45.3	75.0	24.6	55.4
239.3	230.90	14.07	47.22	49.3	73.4	24.0	57.8
249.3	240.01	16.28	50.68	53.2	72.2	25.0	55.2
259.3	249.13	18.33	54.23	57.2	71.3	23.3	67.4
269.3	258.26	19.82	58.02	61.3	71.1	25.0	76.2
279.3	267.29	19.82	62.28	65.4	72.3	25.5	102.3
289.3	276.28	18.44	66.40	68.9	74.5	25.0	113.4
299.3	285.36	17.27	70.41	72.5	76.2	24.7	90.9
309.3	294.45	18.39	74.37	76.6	76.1	24.7	58.1
319.3	303.49	20.99	77.75	80.5	74.9	25.8	51.8
329.3	312.46	23.29	81.50	84.8	74.1	26.8	69.9
339.3	321.26	24.00	86.16	89.4	74.4	30.5	89.7
349.3	329.84	23.13	91.11	94.1	75.8	30.2	108.7
359.3	338.18	20.74	96.15	98.4	77.6	34.1	127.1
369.3	346.42	17.38	100.68	102.2	80.2	34.3	128.0
379.3	354.60	14.41	105.56	106.5	82.2	36.0	107.6
389.3	362.54	13.75	111.54	112.4	83.0	37.2	96.5
399.3	370.28	14.63	117.76	118.7	82.9	39.1	82.0
409.3	377.93	16.27	123.98	125.0	82.5	39.9	75.6
419.3	385.54	17.35	130.35	131.5	82.4	41.7	96.2
429.3	393.03	16.83	136.94	138.0	83.0	42.4	101.2
439.3	400.35	14.26	143.19	143.9	84.3	43.9	122.1
449.3	407.46	9.87	148.67	149.0	86.2	45.3	133.1
459.3	414.40	4.53	153.44	153.5	88.3	46.1	144.6
469.3	421.30	-1.20	157.81	157.8	90.4	46.3	143.2
479.3	428.23	-7.06	161.95	162.1	92.5	46.3	146.1
489.3	434.99	-13.01	166.23	166.7	94.5	48.2	141.0
499.3	441.54	-17.85	171.95	172.9	95.9	49.2	127.3
509.3	448.01	-21.96	178.30	179.6	97.0	50.3	118.1

***** COMPU-LOG - VERTICAL DEVIATION *****

CLIENT : ELK VALLEY COAL HOLE ID. : RH 2863
 FIELD OFFICE : DATE OF LOG : 08/28/06
 DATA FROM : N/A PROBE : 9400A , 367
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: RH2863_08-28-06_13-38_9400A_005_9.29_588.70_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
519.3	454.38	-25.81	184.93	186.7	97.9	51.7	116.8
529.3	460.67	-29.65	191.63	193.9	98.8	48.8	130.7
539.3	466.91	-33.40	198.34	201.1	99.6	51.6	114.9
549.3	473.09	-37.45	204.96	208.4	100.4	53.2	117.9
559.3	479.18	-41.70	211.57	215.6	101.2	52.7	120.4
569.3	485.23	-45.35	218.60	223.3	101.7	52.3	119.9
579.3	491.28	-48.68	225.80	231.0	102.2	52.0	114.7
588.7	496.93	-51.84	232.58	238.3	102.6	53.4	116.7

COMPANY: ELK VALLEY COAL
WELL: RH 2863
FIELD: N/A
PRODUCTION: BRITISH COL UMLA
OTHER SERVICES: 9697
9698
9699

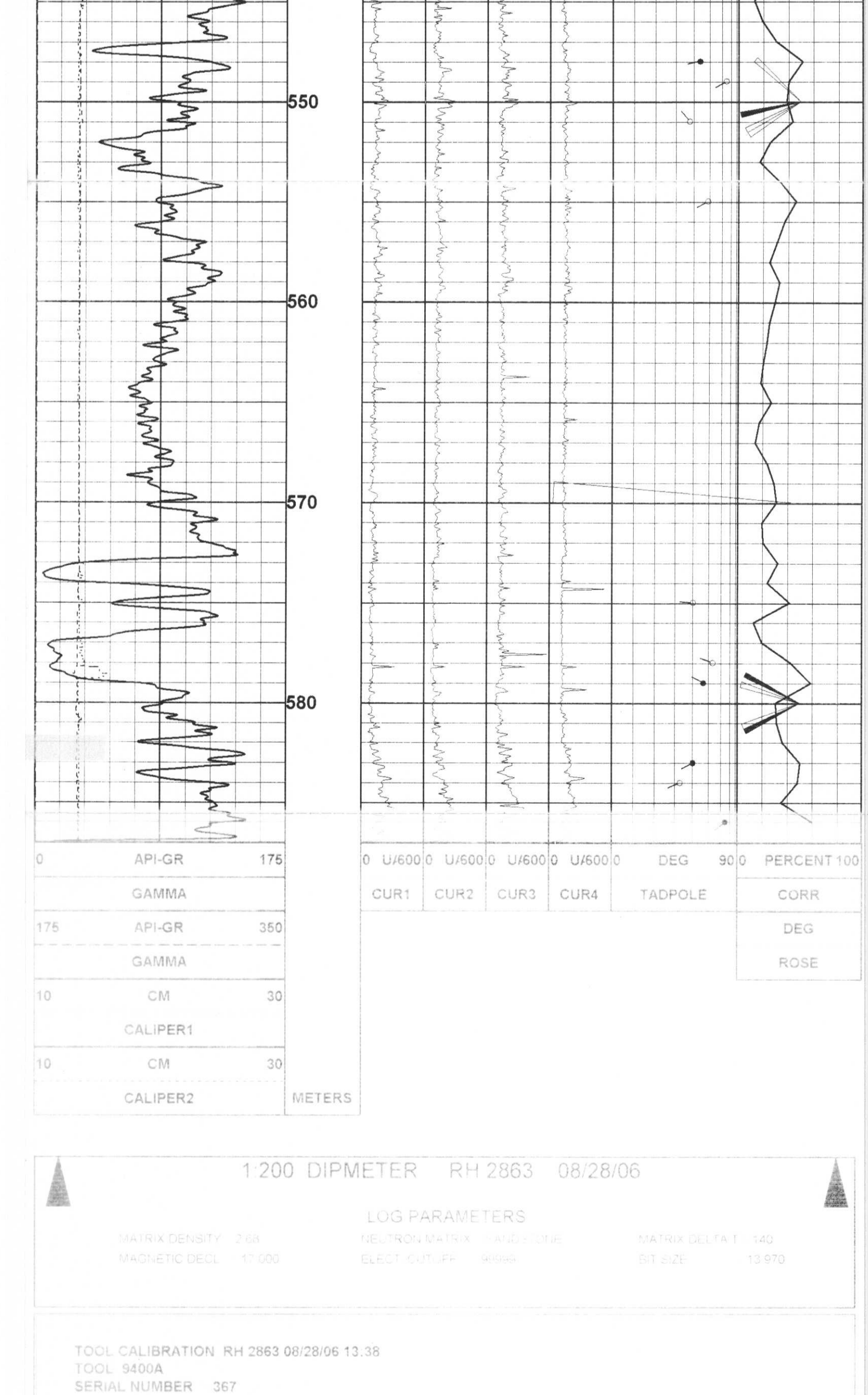
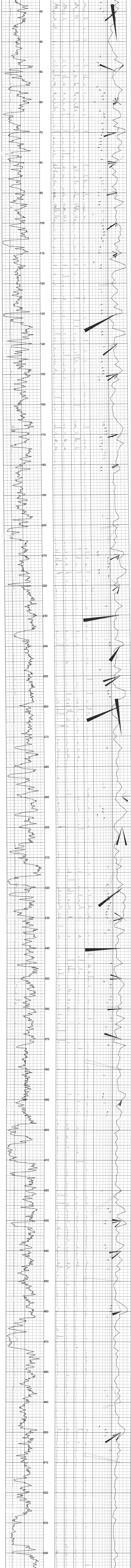
LOCATION: BEAR Mtn
SECTION: N/A
TOWNSHIP: N/A
RANGE: N/A
AYM NO: N/A
UNIQUE WELL ID: N/A
FORMER WELL ID: N/A
DATE MEASURED FROM: 01
DATE: 08/28/06
ELEVATION: N/A
DEPT/INCH: 589
BIT SIZE: 13.870

LOG BOTTOM: 5.29
Casing ID: 25.240
Casing Type: STEEL
Borehole Fluid: WATER
Borehole Fluid Weight: N/A
Mud Weight: N/A
Mud Weight: N/A
R-HECK: N/A
R-HECK TO 328 M: 517# RM TO 484 M: 514# RM TO TD: N/A
REMARKS: 2
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

LOG TOP: 5.29

1:200 DIPMETER RH 2863 08/28/06

LOG PARAMETERS
NEUTRON MATRIX: SANDSTONE
ELECT CUTOFF: 99999
MATRIX DENSITY: 2.68
MAGNETIC DECL: 17.000
MATRIX DELTA: 140
BIT SIZE: 13.870



1:200 DIPMETER RH 2863 08/28/06

LOG PARAMETERS
NEUTRON MATRIX: SANDSTONE
ELECT CUTOFF: 99999
MATRIX DENSITY: 2.68
MAGNETIC DECL: 17.000
MATRIX DELTA: 140
BIT SIZE: 13.870

TOTAL CALIBRATION RH 2863 08/28/06 13.38
LOGOL 9400A
SERIAL NUMBER 367
DATE 16 07 16
Aug 28, 06
SENSOR CUR4
STANDARD 1.000
RESPONSE 1.00
[UA]
[CPS]

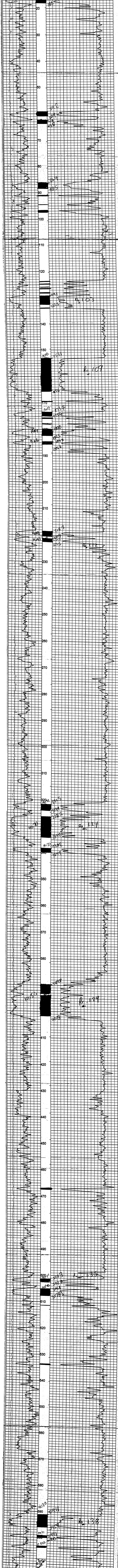
COMPANY : EXPLORER CO. OF TEXAS
 FIELD :
 WELL :
 OPERATOR :
 PRODUCTION :
 LOCATION :
 SECTION :
 TOWNSHIP :
 RANGE :
 MERIDIAN :
 ESTIMATION OF :
 DATE RECORDED FROM :
 ELEVATION OF :
 DEPTH METER :
 BIT SIZE :
 LOGS TOP :
 LOGS BOTTOM :
 CASING OD :
 CASING TYPE :
 CASING THICKNESS :
 RECORDING METHOD :
 RECORDED BY :
 REMARKS :
 ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

200 PLOT RATIO RH #28-64 07/17/06

MATRIX DENSITY : 2.66
MAGNETIC DECL. : 17.0

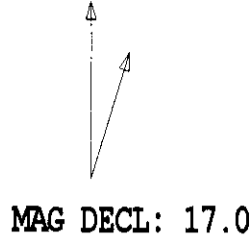
MATRIX DELTA T : 140
BIT SIZE : 13.018

6511
1

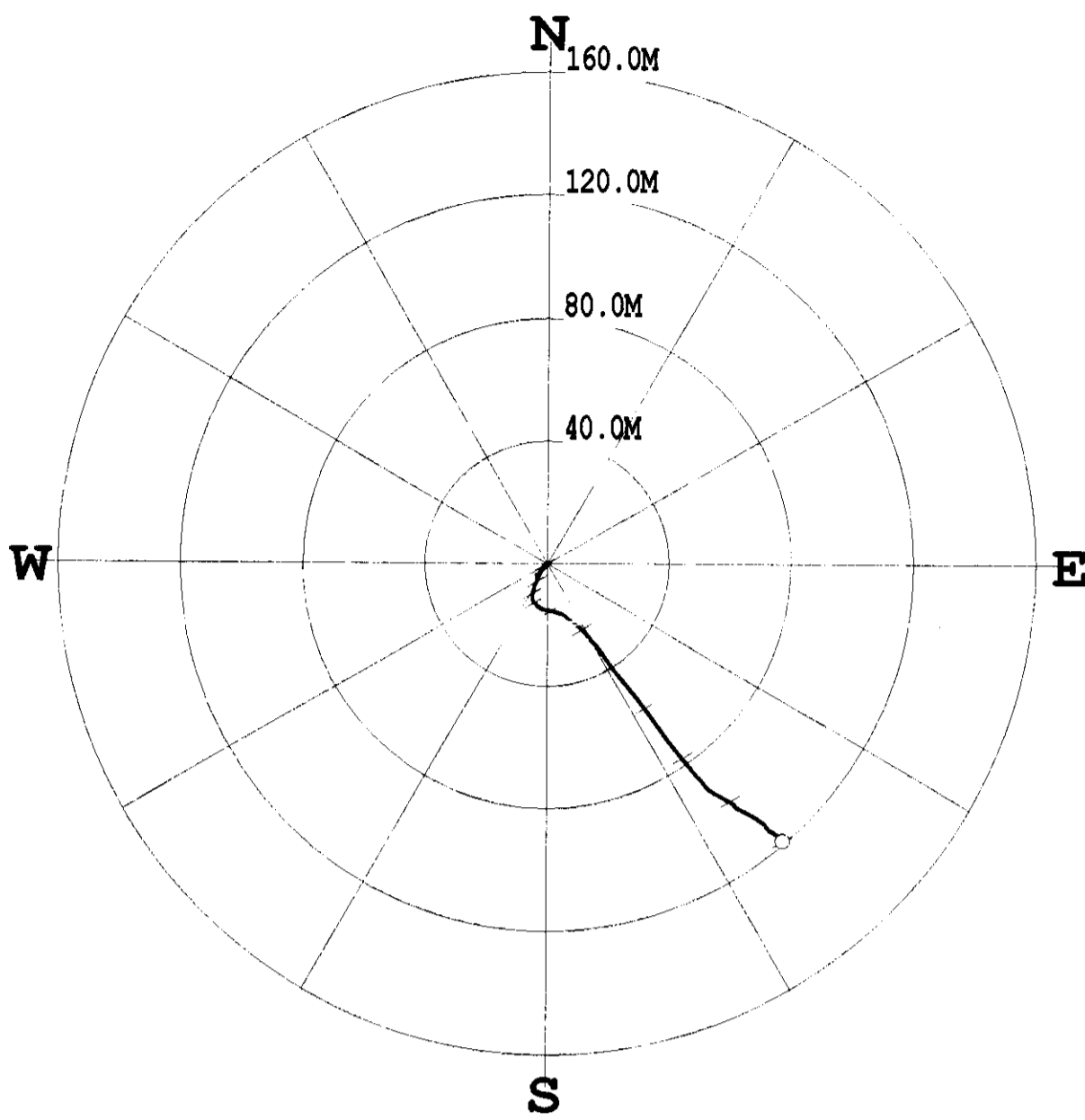


PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION: N/A
 HOLE ID: RH #28-64
 DATE OF LOG: 07/17/06
 PROBE: 9057A 1067



SCALE: 20 M/CM
 TRUE DEPTH: 595.40 M
 AZIMUTH: 139.3
 DISTANCE: 118.7 M
 + = 50 M INCR
 ○ = BOTTOM OF HOLE



* * * * * COMPU-LOG - VERTICAL DEVIATION * * * * *

CLIENT : ELK VALLEY COAL HOLE ID. : RH #28-64
 FIELD OFFICE : DATE OF LOG : 07/17/06
 DATA FROM : N/A PROBE : 9057A , 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: \RH#28-64_07-17-06_16-16_9057A_02_3.00_617.20_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
3.0	3.00	-0.00	-0.00	0.0	262.9	0.3	262.9
13.0	13.00	-0.03	-0.06	0.1	248.3	0.7	258.9
23.0	23.00	-0.07	-0.19	0.2	250.2	1.1	248.6
33.0	33.00	-0.14	-0.37	0.4	249.1	1.3	254.1
43.0	42.99	-0.23	-0.65	0.7	250.7	2.3	255.6
53.0	52.99	-0.31	-1.01	1.1	253.0	1.8	260.6
63.0	62.98	-0.48	-1.24	1.3	249.0	1.8	213.1
73.0	72.97	-0.81	-1.40	1.6	240.0	2.6	200.6
83.0	82.96	-1.37	-1.60	2.1	229.4	3.6	185.4
93.0	92.93	-1.96	-1.99	2.8	225.4	4.3	220.1
103.0	102.90	-2.58	-2.34	3.5	222.2	4.1	206.3
113.0	112.88	-3.22	-2.72	4.2	220.1	3.9	211.6
123.0	122.84	-3.85	-3.19	5.0	219.6	4.2	205.7
133.0	132.81	-4.55	-3.49	5.7	217.5	4.7	186.3
143.0	142.78	-5.29	-3.54	6.4	213.8	4.6	166.3
153.0	152.75	-6.03	-3.64	7.0	211.1	4.7	219.4
163.0	162.72	-6.78	-3.97	7.9	210.3	4.8	199.5
173.0	172.69	-7.55	-4.23	8.7	209.3	5.3	202.2
183.0	182.65	-8.32	-4.45	9.4	208.1	4.7	200.5
193.0	192.62	-9.08	-4.61	10.2	206.9	3.8	184.0
203.0	202.60	-9.74	-4.70	10.8	205.8	3.7	184.9
213.0	212.58	-10.38	-4.78	11.4	204.7	3.6	191.0
223.0	222.56	-10.97	-4.87	12.0	203.9	3.6	175.4
233.0	232.54	-11.62	-4.86	12.6	202.7	4.3	148.2
243.0	242.51	-12.28	-4.54	13.1	200.3	4.1	158.4
253.0	252.48	-12.84	-4.11	13.5	197.8	4.3	136.7
263.0	262.45	-13.40	-3.54	13.9	194.8	5.1	137.1
273.0	272.40	-14.00	-2.82	14.3	191.4	6.8	121.4
283.0	282.32	-14.68	-1.71	14.8	186.6	8.1	130.8
293.0	292.20	-15.12	-0.29	15.1	181.1	9.9	94.7
303.0	302.02	-15.40	1.55	15.5	174.3	12.0	91.5
313.0	311.79	-16.00	3.54	16.4	167.5	12.8	95.3
323.0	321.51	-16.85	5.66	17.8	161.4	14.0	122.7
333.0	331.22	-18.30	7.55	19.8	157.6	13.7	136.3
343.0	340.92	-19.70	9.43	21.9	154.4	14.8	132.8
353.0	350.57	-21.43	11.49	24.3	151.8	15.1	136.2
363.0	360.19	-23.39	13.36	26.9	150.3	16.0	144.9
373.0	369.79	-25.50	15.10	29.6	149.4	16.7	137.9
383.0	379.30	-27.80	17.11	32.6	148.4	18.9	142.2
393.0	388.75	-30.46	18.97	35.9	148.1	18.7	147.8
403.0	398.25	-32.94	20.79	39.0	147.7	18.0	137.9
413.0	407.76	-35.37	22.62	42.0	147.4	18.2	136.8
423.0	417.23	-37.81	24.59	45.1	147.0	19.0	149.0
433.0	426.67	-40.34	26.67	48.4	146.5	19.2	143.3
443.0	436.09	-42.93	28.77	51.7	146.2	20.1	142.9
453.0	445.46	-45.62	30.92	55.1	145.9	21.0	140.4
463.0	454.79	-48.45	33.05	58.6	145.7	21.8	135.7
473.0	464.07	-51.45	35.20	62.3	145.6	22.3	144.2
483.0	473.31	-54.53	37.40	66.1	145.6	22.5	138.7
493.0	482.52	-57.64	39.63	69.9	145.5	23.9	150.5
503.0	491.68	-60.69	42.07	73.8	145.3	23.7	147.1

* * * * * COMPU-LOG - VERTICAL DEVIATION * * * * *

CLIENT : ELK VALLEY COAL HOLE ID. : RH #28-64
 FIELD OFFICE : DATE OF LOG : 07/17/06
 DATA FROM : N/A PROBE : 9057A , 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: \RH#28-64_07-17-06_16-16_9057A_02_3.00_617.20_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
513.0	500.89	-63.65	44.52	77.7	145.0	22.9	137.7
523.0	510.13	-66.55	46.96	81.4	144.8	22.2	145.4
533.0	519.34	-69.44	49.46	85.3	144.5	23.2	138.5
543.0	528.52	-72.34	52.07	89.1	144.3	23.5	137.7
553.0	537.69	-74.71	55.17	92.9	143.6	24.0	117.0
563.0	546.81	-76.62	58.75	96.5	142.5	24.4	118.8
573.0	555.89	-79.00	62.07	100.5	141.8	24.7	138.7
583.0	564.91	-81.00	65.81	104.4	140.9	25.6	111.4
593.0	573.89	-83.18	69.60	108.5	140.1	26.0	132.4
603.0	582.88	-86.17	72.64	112.7	139.9	26.4	139.4
613.0	591.80	-88.67	76.25	116.9	139.3	27.5	128.4
617.0	595.40	-90.06	77.35	118.7	139.3	26.9	136.9



COMPENSATED DENSITY
GAMMA - CALIPER - RES.
RH 2865

Century-geo.com

COMPANY: ELK VALLEY COAL
WELL: RH 2865
FIELD: N/A
MUNICIPALITY: ELK FORD
LOCALITY: BRITISH COLUMBIA

2865

OTHER SERVICES
9067
9067
N/A

LOCATION: N/A
SECTION: N/A
TOWNSHIP: N/A
RANGE: N/A
API NO.: N/A
UNIQUE WELL ID: N/A
PERMITS: N/A
ELEVATION NE: N/A
ELEVATION DE: N/A
ELEVATION GL: N/A

DATE: 08/2006
DT PTH DRILLER: 284.5
BIT SIZE: 13.335
LOG TOP: 0.32
LOG BOTTOM: 286.28
CASING OD: 15.240
CASING BOTTOM: 3
CASING TYPE: STEEL

WIRELINE FLUID: WATER
MUD RES: N/A
MUD WEIGHT: N/A
CORDED BY: R.HECK
REMARKS 1: 5/14 - HB TO 185 M. 519P RB TO TD
REMARKS 2: N/A
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

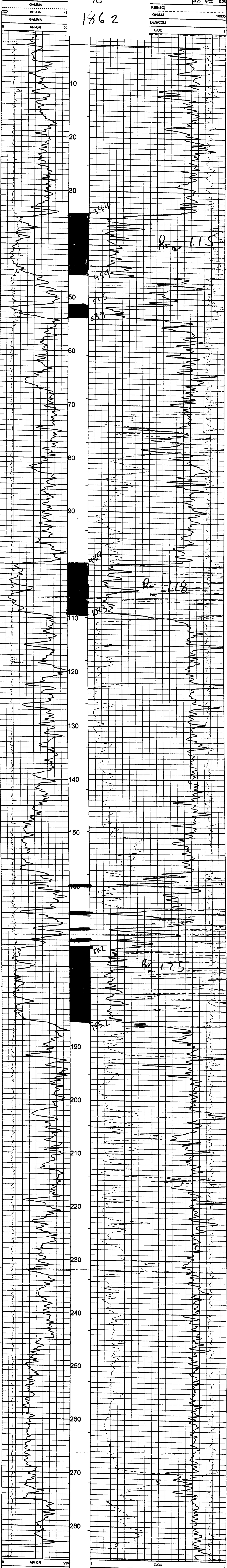
1:200 BULK DENSITY RH 2865 08/31/06

LOG PARAMETERS
NEUTRON MATRIX: SANDSTONE

MATRIX DELTA T: 140
BIT SIZE: 13.335

MATRIX DENSITY: 2.68
MAGNETIC DECL: 17.0

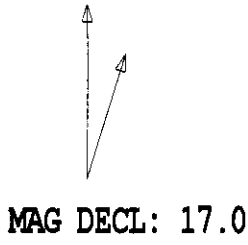
4.11/1
to
186.2



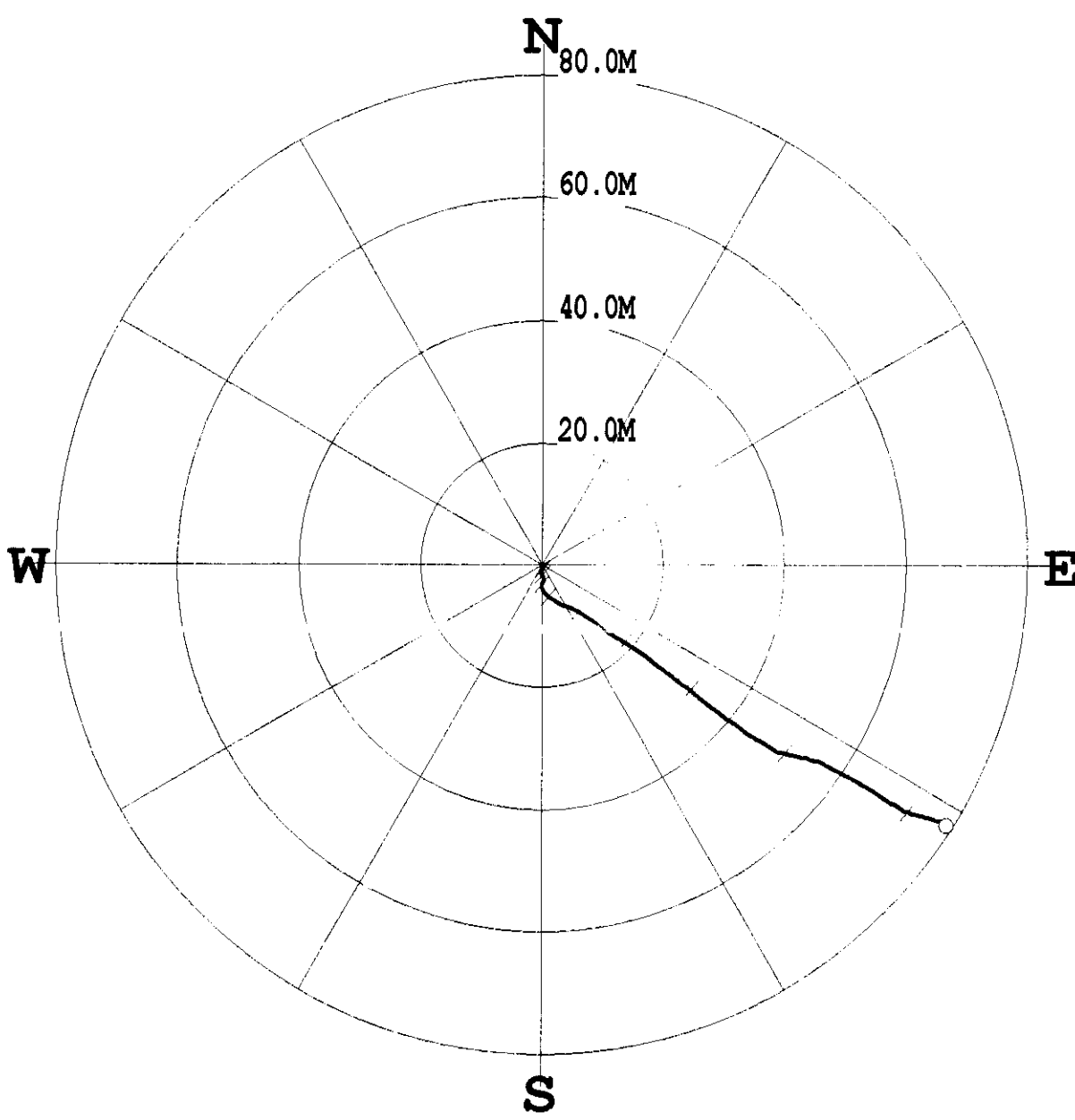
API-GR 225, GAMMA 450, CM 10, G/CC 0, DEN(CDL) 10000, RES(SG) 3, SPEED, VOLUME

PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION: N/A
 HOLE ID: RH #28-66
 DATE OF LOG: 07/23/06
 PROBE: 9057A 1067



SCALE: 10 M/CM
 TRUE DEPTH: 464.11 M
 AZIMUTH: 122.3
 DISTANCE: 78.9 M
 + = 50 M INCR
 ○ = BOTTOM OF HOLE



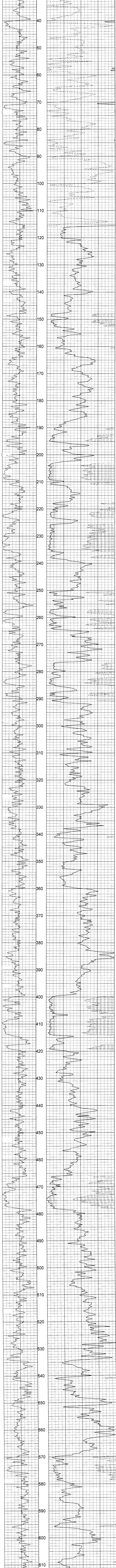
* * * * * COMPU-LOG - VERTICAL DEVIATION * * * * *

CLIENT : ELK VALLEY COAL HOLE ID. : RH #28-66
 FIELD OFFICE : DATE OF LOG : 07/23/06
 DATA FROM : N/A PROBE : 9057A , 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: RH#28-66_07-23-06_16-36_9057A_02_9.00_477.70_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGE
9.0	9.00	0.00	-0.00	0.0	290.4	0.7	290.4
19.0	19.00	-0.12	-0.07	0.1	210.6	1.0	206.3
29.0	29.00	-0.29	-0.10	0.3	198.2	1.1	165.6
39.0	39.00	-0.50	-0.07	0.5	187.9	1.3	175.2
49.0	48.99	-0.69	-0.04	0.7	183.4	1.0	172.0
59.0	58.99	-0.88	-0.04	0.9	182.9	1.1	179.5
69.0	68.99	-1.06	-0.09	1.1	185.1	1.2	200.8
79.0	78.99	-1.21	-0.18	1.2	188.6	1.0	207.2
89.0	88.99	-1.40	-0.17	1.4	187.0	1.5	151.7
99.0	98.98	-1.61	0.01	1.6	179.7	1.4	135.3
109.0	108.98	-1.89	0.16	1.9	175.1	2.1	166.4
119.0	118.97	-2.24	0.16	2.2	175.9	2.2	172.9
129.0	128.96	-2.60	0.17	2.6	176.3	2.1	197.1
139.0	138.96	-2.92	0.03	2.9	179.4	1.9	196.8
149.0	148.95	-3.17	-0.10	3.2	181.8	1.6	197.7
159.0	158.95	-3.50	-0.11	3.5	181.7	1.8	158.7
169.0	168.94	-3.85	0.01	3.8	179.8	2.3	140.2
179.0	178.93	-4.22	0.21	4.2	177.2	2.6	142.4
189.0	188.92	-4.63	0.52	4.7	173.6	3.6	134.3
199.0	198.89	-5.08	1.02	5.2	168.7	4.2	117.5
209.0	208.87	-5.49	1.63	5.7	163.5	4.8	136.8
219.0	218.82	-5.99	2.47	6.5	157.6	5.2	121.4
229.0	228.76	-6.54	3.38	7.4	152.7	6.6	122.5
239.0	238.68	-6.87	4.56	8.2	146.4	7.6	109.0
249.0	248.59	-7.41	5.78	9.4	142.0	9.3	113.8
259.0	258.47	-8.22	7.04	10.8	139.4	9.2	133.8
269.0	268.34	-9.12	8.38	12.4	137.4	9.4	126.6
279.0	278.17	-10.12	9.88	14.1	135.7	11.0	121.1
289.0	287.99	-11.23	11.40	16.0	134.6	11.0	124.4
299.0	297.77	-12.23	13.15	18.0	132.9	12.8	132.3
309.0	307.51	-13.41	15.06	20.2	131.7	13.5	136.5
319.0	317.21	-14.72	17.02	22.5	130.9	14.2	127.9
329.0	326.88	-16.30	18.96	25.0	130.7	15.7	138.0
339.0	336.50	-17.86	21.11	27.6	130.2	16.0	163.5
349.0	346.07	-19.56	23.37	30.5	129.9	17.7	98.7
359.0	355.57	-21.50	25.75	33.6	129.8	18.8	129.8
369.0	365.00	-23.49	28.39	36.8	129.6	20.7	112.6
379.0	374.34	-25.49	31.14	40.2	129.3	21.0	128.4
389.0	383.64	-27.56	34.02	43.8	129.0	21.3	127.6
399.0	392.88	-29.43	37.25	47.5	128.3	23.6	124.3
409.0	402.05	-30.84	40.85	51.2	127.0	24.0	104.0
419.0	411.19	-31.77	44.72	54.9	125.4	23.6	115.0
429.0	420.34	-33.29	48.30	58.7	124.6	23.9	111.8
439.0	429.45	-35.15	51.95	62.7	124.1	25.0	109.5
449.0	438.49	-37.29	55.56	66.9	123.9	25.5	118.4
459.0	447.49	-39.47	59.13	71.1	123.7	26.2	113.4
469.0	456.43	-40.85	63.24	75.3	122.9	26.3	105.9
477.5	464.11	-42.19	66.62	78.9	122.3	24.4	124.2

200 PLOT RATIO RH #28-66 07/23/06

LOG PARAMETERS
NEUTRON MATRIX: SANDSTONE
ELECT. CUTOFF: 99999
MATRIX DELTA T: 140
BIT SIZE: 130/8
MAGNETIC DECL: 17.0
MATRIX DENSITY: 2.68



200 PLOT RATIO RH #28-66 07/23/06

LOG PARAMETERS
NEUTRON MATRIX: SANDSTONE
ELECT. CUTOFF: 99999
MATRIX DELTA T: 140
BIT SIZE: 130/8
MAGNETIC DECL: 17.0
MATRIX DENSITY: 2.68

TOOL CALIBRATION RH #28-66 07/23/06 09:52			
DATE	TIME	SENSOR	STANDARD
07/12/06	16:07:53	GAMMA	1.000 [API-GR]
07/12/06	16:07:53	GAMMA	250.000 [API-GR]
07/08/06	14:23:13	NEUTRON	1.000 [API-N]
07/08/06	14:23:13	NEUTRON	500.000 [API-N]

SENSOR	STANDARD	RESPONSE	CONVERSION
GAMMA	1.000 [API-GR]	1.00	(CPS)
GAMMA	250.000 [API-GR]	80.00	(CPS)
NEUTRON	1.000 [API-N]	1.00	(CPS)
NEUTRON	500.000 [API-N]	500.00	(CPS)

2867
 293376E
 141686N
 189222m

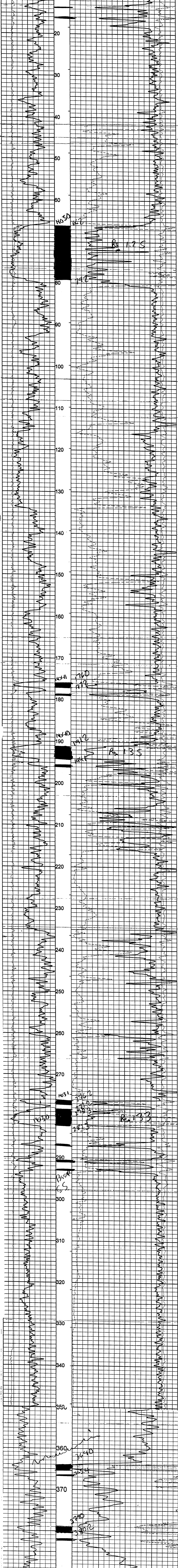
COMPANY : EK VALLEY COAL
 WELL : RH 2867
 FIELD : N/A
 MUNICIPALITY : ELSTON
 PROVINCE : BRITISH COLUMBIA
 LOCATION : BEAR MTN.
 SECTION : N/A
 TOWNSHIP : N/A
 RANGE : N/A
 APN NO : N/A
 LAND USE ID : N/A
 PERMIT/DATA : N/A
 LOG MEASURED FROM : G.L.
 DATE : 08/24/06
 DEPTH DRILLER : 413
 BIT SIZE : 13.018
 LOG TOP : 0.286
 LOG BOTTOM : 382.77
 CASING OD : 15.240
 CASING BOTTOM : 3
 BOREHOLE TYPE : STEER
 BOREHOLE FLUID : WATER
 RM TEMPERATURE : N/A
 MWD RES : N/A
 MWD WEIGHT : N/A
 RECORDED BY : JMK
 REMARKS 1 : 512-788 TO 528 M. 518' TO 710'
 REMARKS 2 : CONSTRUCTION AT 286 METERS

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

1:200 BULK DENSITY RH 2867 08/24/06

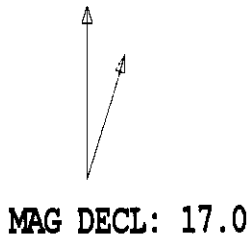
MATRIX DENSITY : 2.68
 MAGNETIC DECL. : 17.0
 LOG PARAMETERS
 NEUTRON MATRIX : SANDSTONE
 ELECT. CUTOFF : 99999
 MATRIX DELTA T : 140
 SIZE : 13.018

80/1
 2825

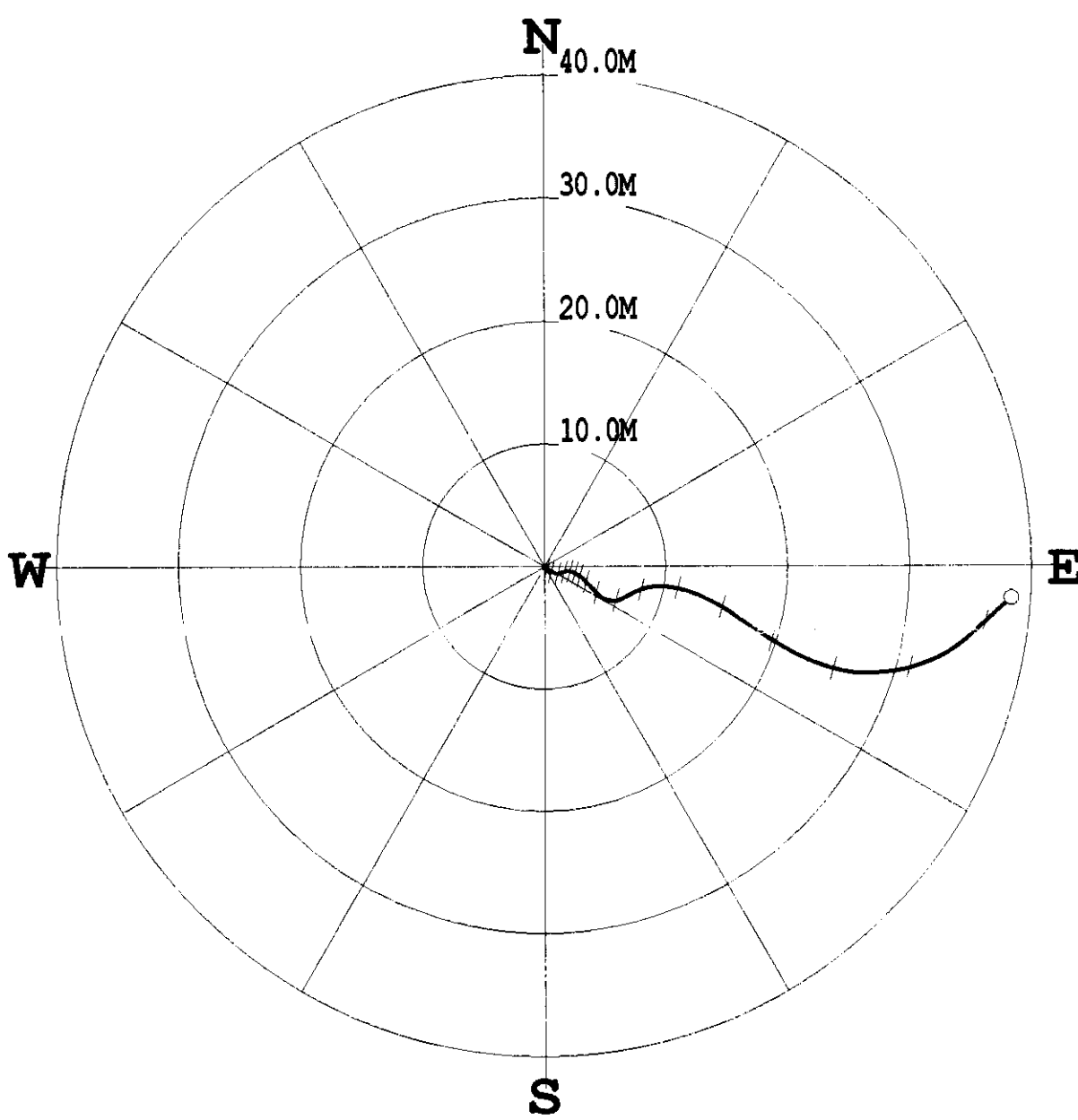


PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION: N/A
 HOLE ID: RH 2867
 DATE OF LOG: 08/24/06
 PROBE: 9400A 367



SCALE: 5 M/CM
 TRUE DEPTH: 347.61 M
 AZIMUTH: 94.0
 DISTANCE: 38.4 M
 + = 20 M INCR
 ○ = BOTTOM OF HOLE



* * * * * COMPU-LOG - VERTICAL DEVIATION * * * * *

CLIENT : ELK VALLEY COAL HOLE ID. : RH 2867
 FIELD OFFICE : DATE OF LOG : 08/24/06
 DATA FROM : N/A PROBE : 9400A , 367
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: RH2867_08-24-06_11-59_9400A_005_5.03_352.69_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
5.7	5.69	-0.00	0.00	0.0	154.3	1.0	154.3
15.0	15.03	-0.11	0.13	0.2	130.3	1.2	178.4
25.0	25.02	-0.26	0.29	0.4	132.1	1.3	96.6
35.0	35.02	-0.37	0.46	0.6	128.6	1.4	114.2
45.0	45.02	-0.46	0.68	0.8	124.0	1.5	131.0
55.0	55.01	-0.57	0.95	1.1	120.9	1.3	102.1
65.0	65.01	-0.58	1.21	1.3	115.6	1.1	83.2
75.0	75.00	-0.49	1.48	1.6	108.4	1.7	59.0
85.0	85.00	-0.41	1.74	1.8	103.1	1.3	83.5
95.0	95.00	-0.38	1.98	2.0	101.0	0.7	106.5
105.0	104.99	-0.42	2.18	2.2	100.8	1.5	106.8
115.0	114.99	-0.50	2.37	2.4	101.8	1.3	100.9
125.0	124.99	-0.59	2.57	2.6	103.0	1.4	143.8
135.0	134.99	-0.70	2.76	2.8	104.3	1.5	116.5
145.0	144.98	-0.86	2.99	3.1	106.1	1.7	127.3
155.0	154.97	-1.09	3.25	3.4	108.5	2.7	128.7
165.0	164.96	-1.41	3.54	3.8	111.7	2.7	133.8
175.0	174.94	-1.87	3.98	4.4	115.2	4.6	136.6
185.0	184.91	-2.41	4.53	5.1	118.0	4.9	131.0
195.0	194.87	-2.75	5.34	6.0	117.3	6.3	97.7
205.0	204.82	-2.63	6.30	6.8	112.7	5.2	68.1
215.0	214.76	-2.12	7.30	7.6	106.2	7.1	63.8
225.0	224.67	-1.70	8.51	8.7	101.3	7.6	80.7
235.0	234.56	-1.64	9.99	10.1	99.3	8.9	97.3
245.0	244.41	-2.00	11.67	11.8	99.7	10.2	109.3
255.0	254.23	-2.73	13.45	13.7	101.5	12.2	117.1
265.0	263.99	-3.83	15.32	15.8	104.0	12.9	125.5
275.0	273.71	-5.12	17.28	18.0	106.5	14.0	123.0
285.0	283.39	-6.43	19.39	20.4	108.4	14.9	120.4
295.0	293.03	-7.62	21.78	23.1	109.3	15.9	114.0
305.0	302.63	-8.45	24.42	25.8	109.1	17.0	99.3
315.0	312.18	-8.61	27.37	28.7	107.5	18.1	84.8
325.0	321.67	-8.05	30.47	31.5	104.8	19.0	71.1
335.0	331.08	-6.65	33.52	34.2	101.2	20.4	56.7
345.0	340.45	-4.12	36.22	37.5	97.0	21.3	17.1
352.7	347.60	-2.65	38.29	38.4	94.0	21.0	51.2

**GAMMA - NEUTRON
LOG THRU DRILL PIPE
RH 2867**

century-geo.com

COMPANY : ELK VALLEY COAL
WELL : RH 2867
FIELD : N/A
MUNICIPALITY : ELK FORD
COUNTY : BRITISH COLUMBIA
OTHER SERVICES : 9057 9239 9411

LOCATION : BEAR Mtn
SECTION : N/A
TOWNSHIP : N/A
RANGE : N/A
APNO : N/A
APNO : N/A
APNO : N/A

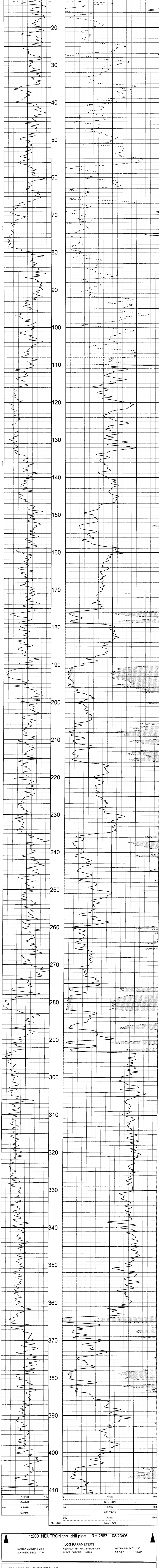
SEGMENT FACTORY : N/A
ELEVATION KE : N/A
LOG MEASURED FROM : G.L.
ELEVATION OF : N/A
DATE : 08/23/06
DEPT. DRILLER : 413
BIT SIZE : 13.08
LOG TOP : 0.38
LOG BOTTOM : 411.01

CASING O.D. : 15.240
CASING BOTTOM : 3
CASING TYPE : STEEL
BOREHOLE FLUID : WATER
RM TEMPERATURE : N/A
MUD RES : N/A
MUD WEIGHT : N/A

RECORDED BY : R.HECK
REMARKS 1 : 512' - 18" TO 336' M 516" RB TO TD
REMARKS 2 : LOG THRU DRILL PIPE
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

1:200 NEUTRON thru drill pipe RH 2867 08/23/06

LOG PARAMETERS
MATRIX DENSITY : 2.68
MAGNETIC DECL : 17.0
NEUTRON MATRIX : SANDSTONE
ELECT CUTOFF : 99999
MATRIX DELTA T : 140
BIT SIZE : 13.018



1:200 NEUTRON thru drill pipe RH 2867 08/23/06

LOG PARAMETERS
MATRIX DENSITY : 2.68
MAGNETIC DECL : 17.0
NEUTRON MATRIX : SANDSTONE
ELECT CUTOFF : 99999
MATRIX DELTA T : 140
BIT SIZE : 13.018

TOOL CALIBRATION RH 2867 08/23/06 12:21			
TOOL 9087A			
SERIAL NUMBER 530			
DATE	TIME	SENSOR	STANDARD
Jul12,06	18:07:53	GAMMA	1.000 [API-GR 1]
Jul12,06	18:07:53	GAMMA	250.000 [API-GR]
Jul08,06	14:23:13	NEUTRON	1.000 [API-N]
Jul08,06	14:23:13	NEUTRON	500.000 [API-N]
			RESPONSE
			1.00 [CPS]
			80.00 [CPS]
			1.00 [CPS]
			500.00 [CPS]

COMPANY	ELK VALLEY COAL	OTHER SERVICES	9097
WELL	RH 2867		9239
FIELD	N/A		
MUNICIPALITY	ELK CROSD		
PROVINCE	BRITISH COLUMBIA		

LOCATION	BEAR MTN
SECTION	N/A
TOWNSHIP	N/A
RANGE	N/A
API NO.	N/A
API/UC WELL ID	N/A
PERMANENT DATUM	N/A
LOG MEASURED FROM	G.L.
ELEVATION OF N/A	
ELEVATION OF G.L.	

DATE	08/23/06
DEPTH DRILLER	413
BIT SIZE	13.018
LOG TOP	5.03
LOG BOTTOM	351.00
CASINGS O.D.	15.240
CASINGS BOTTOM	3

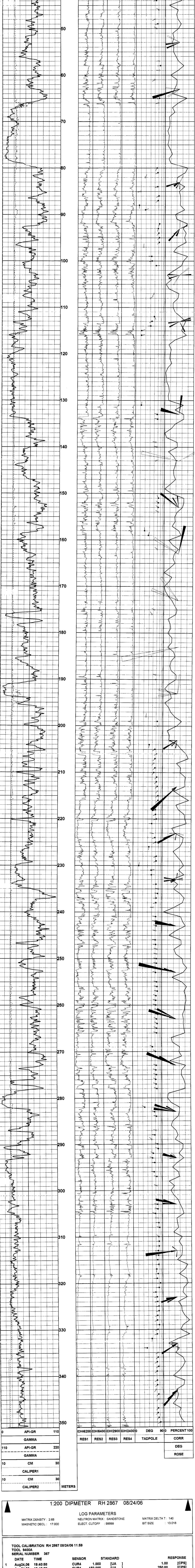
BORINGHOLE FLUID	WATER
CASING TYPE	STEEL
FM TEMPERATURE	N/A
MUD RES	N/A
MUD WEIGHT	N/A
RECORDED BY	R.HECK
REMARKS 1	51/2" HB TO 338 M, 51/8" RS TO TD
REMARKS 2	OBSTRUCTION AT 355 METERS

1:200 DIPMETER RH 2867 08/24/06

MATRIX DENSITY : 2.68
MAGNETIC DECL : 17.000

LOG PARAMETERS
NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 999996

MATRIX DELTA T : 140
BIT SIZE : 13.018



DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Aug24,06 19:40:58	CUR4	1.000 [UA]	1.00 [CPS]
	Aug24,06 19:40:58	CUR4	150.000 [UA]	250.00 [CPS]
2	Mar23,06 16:28:46	CALIPER1	5.371 [INCH]	100.00 [CPS]
	Mar23,06 16:28:46	CALIPER1	384.900 [INCH]	6000.00 [CPS]
3	Mar23,06 16:28:25	CALIPER	400.000 [INCH]	737.00 [CPS]
	Mar23,06 16:28:25	CALIPER	7000.000 [INCH]	12935.00 [CPS]
4	Mar23,06 16:28:42	XINCL	400.000 [MV]	875.00 [CPS]
	Mar23,06 16:28:42	XINCL	7000.000 [MV]	15240.00 [CPS]
5	Mar23,06 16:28:57	YINCL	400.000 [MV]	885.00 [CPS]
	Mar23,06 16:28:57	YINCL	7000.000 [MV]	10290.00 [CPS]
6	Aug24,06 19:37:11	XFLUX	400.000 [MV]	690.00 [CPS]
	Aug24,06 19:37:11	XFLUX	7000.000 [MV]	12350.00 [CPS]
7	Aug24,06 19:37:11	YFLUX	15.240 [MV]	5249.00 [CPS]
	Aug24,06 19:37:11	YFLUX	25.400 [MV]	11691.00 [CPS]
8	Aug24,06 19:37:35	ZFLUX	15.240 [MV]	6118.00 [CPS]
	Aug24,06 19:37:35	ZFLUX	25.400 [MV]	12535.00 [CPS]
9	Dec19,02 19:52:27	CUR5	1200.000 [UA]	1535.00 [CPS]
	Dec19,02 19:52:27	CUR5	7000.000 [UA]	8900.00 [CPS]

1:200 DIPMETER RH 2867 08/24/06

MATRIX DENSITY : 2.68
MAGNETIC DECL : 17.000

LOG PARAMETERS
NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 99999

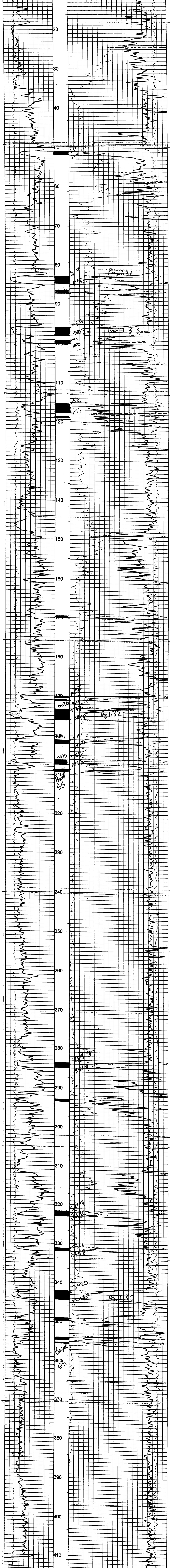
MATRIX DELTA T : 140
BIT SIZE : 13.018

COMPANY : CENTURY-900.COM
 WELL : ELK VALLEY COAL
 FIELD : RH 2868
 MUNICIPALITY : BRITISH COLUMBIA
 PROVINCE : BC
 LOCATION : BEAN Mtn
 SECTION : N/A
 TOWNSHIP : N/A
 RANGE : N/A
 49° NO. : N/A
 UTM ZONE : N/A
 PERMANENT DATUM : N/A
 LOG MEASURED FROM : G.L.
 DATE : 08/27/06
 DEPTH DITTLER : 413
 BR SIZE : 3.970
 LOG TOP : 5.35
 LOG BOTTOM : 413.40
 CASING OD : 5.540
 CASING BOTTOM : 0.00
 CHASING TYPE : STEEL
 ROPEHOIST FLUID : WATER
 ROPEHOIST TEMPERATURE : N/A
 MUD RES : N/A
 MUD WEIGHT : N/A
 RECORD BY : *WJE*
 REVISIONS :
 1 : CHECK TO 345 M. 8/27 RH TO TD
 2 : N/A

OTHER SERVICES :
 2868
 29343.2E
 141330.1N
 18303-

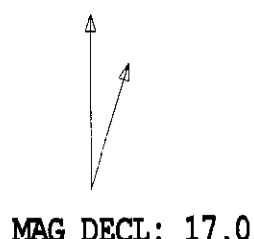
REMARKS 1 :
 REMARKS 2 :
 ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

1:200 BULK DEN
 MATRIX DENSITY : 2.66
 MAGNETIC DECL. : 17.0
 LO NEUT
 ELEC
 ELTA T : 140
 13.970

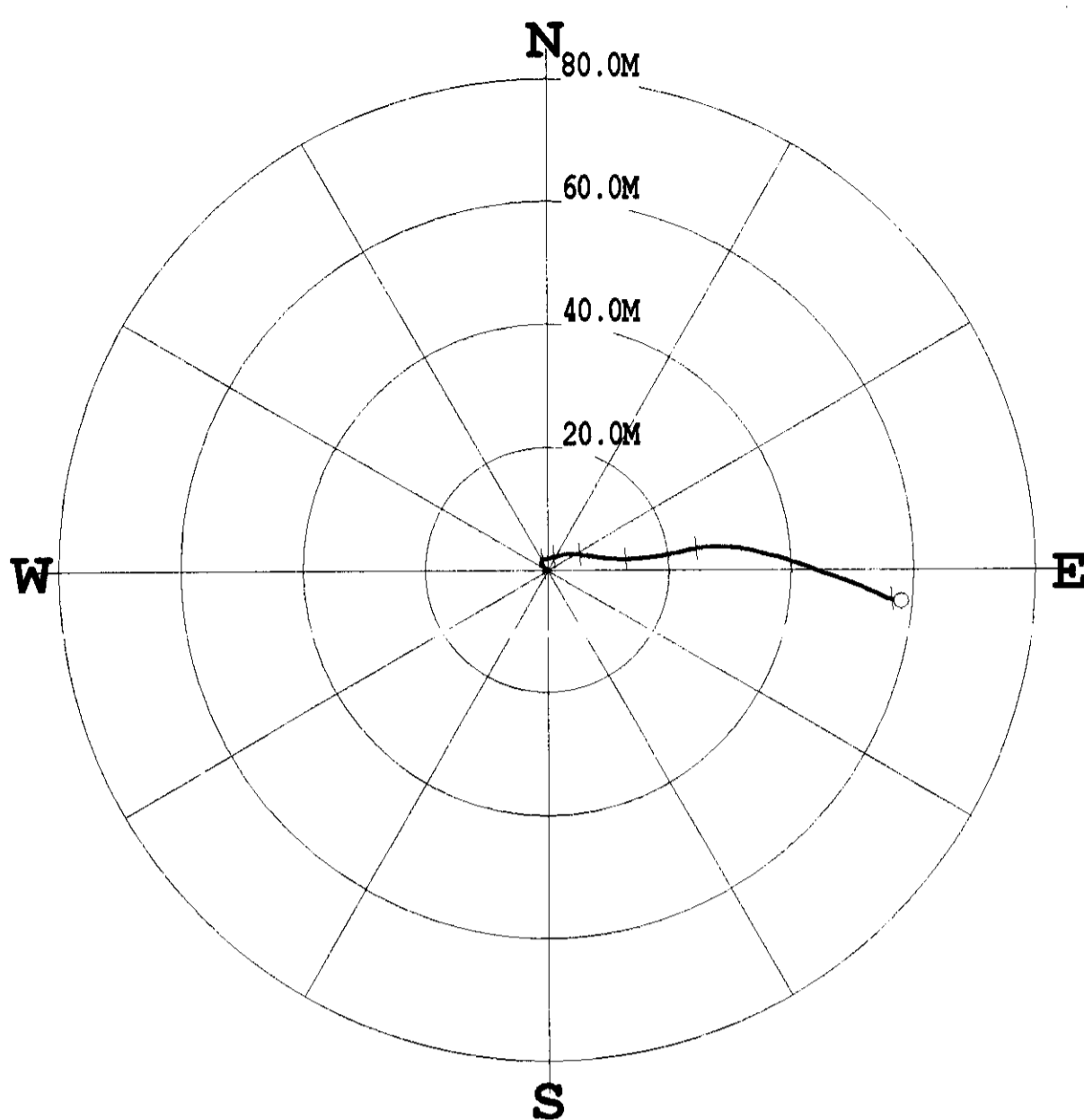


PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION: N/A
 HOLE ID: RH 2868
 DATE OF LOG: 08/27/06
 PROBE: 9057A 1067



SCALE: 10 M/CM
 TRUE DEPTH: 405.01 M
 AZIMUTH: 95.0
 DISTANCE: 58.1 M
 + = 50 M INCR
 ○ = BOTTOM OF HOLE



* * * * * COMPU-LOG - VERTICAL DEVIATION * * * * *

CLIENT : ELK VALLEY COAL HOLE ID. : RH 2868
 FIELD OFFICE : DATE OF LOG : 08/27/06
 DATA FROM : N/A PROBE : 9057A , 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: \RH2868_08-27-06_13-49_9057A_.02_10.00_413.40_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
10.0	10.00	0.00	-0.00	0.0	299.0	0.7	299.0
20.0	20.00	0.08	-0.10	0.1	307.6	0.7	314.6
30.0	30.00	0.20	-0.22	0.3	311.9	1.2	308.4
40.0	39.99	0.39	-0.39	0.6	314.7	1.5	313.1
50.0	49.99	0.58	-0.58	0.8	314.8	1.8	319.9
60.0	59.99	0.81	-0.77	1.1	316.5	1.9	322.5
70.0	69.98	1.07	-0.98	1.5	317.6	1.8	320.8
80.0	79.98	1.27	-1.09	1.7	319.4	1.3	356.2
90.0	89.98	1.47	-1.02	1.8	325.2	1.2	23.1
100.0	99.97	1.64	-0.92	1.9	330.6	1.1	46.7
110.0	109.97	1.78	-0.73	1.9	337.6	1.4	43.6
120.0	119.97	1.90	-0.45	2.0	346.8	2.2	76.6
130.0	129.96	2.01	-0.03	2.0	359.2	3.0	74.6
140.0	139.94	2.06	0.46	2.1	12.6	3.0	63.4
150.0	149.93	2.18	0.97	2.4	24.0	2.9	74.7
160.0	159.91	2.35	1.55	2.8	33.3	3.8	79.3
170.0	169.88	2.53	2.30	3.4	42.2	5.1	73.6
180.0	179.84	2.70	3.20	4.2	49.8	5.7	89.7
190.0	189.79	2.62	4.15	4.9	57.7	5.9	104.7
200.0	199.73	2.56	5.21	5.8	63.8	6.8	103.2
210.0	209.66	2.40	6.38	6.8	69.4	7.1	100.4
220.0	219.58	2.24	7.59	7.9	73.5	7.7	104.5
230.0	229.48	2.00	8.98	9.2	77.5	9.1	92.2
240.0	239.32	1.91	10.69	10.9	79.9	10.9	78.8
250.0	249.13	1.78	12.62	12.7	82.0	12.2	77.9
260.0	258.91	1.94	14.66	14.8	82.5	12.3	83.2
270.0	268.66	2.12	16.80	16.9	82.8	13.1	94.1
280.0	278.41	2.50	18.99	19.2	82.5	13.3	106.0
290.0	288.13	2.84	21.25	21.4	82.4	14.4	72.5
300.0	297.81	3.41	23.70	23.9	81.8	14.7	77.3
310.0	307.44	3.69	26.32	26.6	82.0	15.6	85.6
320.0	317.03	3.74	29.11	29.3	82.7	16.8	81.9
330.0	326.59	3.43	32.03	32.2	83.9	18.0	103.9
340.0	336.08	2.74	35.06	35.2	85.5	18.7	106.9
350.0	345.50	1.90	38.29	38.5	87.1	20.0	81.0
360.0	354.85	0.86	41.54	41.5	88.8	20.7	91.4
370.0	364.21	-0.31	44.79	44.8	90.4	21.0	118.4
380.0	373.58	-1.44	48.04	48.1	91.7	20.1	100.8
390.0	382.99	-2.58	51.18	51.2	92.9	19.3	111.9
400.0	392.45	-3.86	54.11	54.2	94.1	18.8	118.2
410.0	401.95	-4.85	56.94	57.1	94.9	17.9	88.5
413.2	405.01	-5.03	57.89	58.1	95.0	17.9	104.9

COMPANY : CENTURY GEO.COM
WELL : ELK VALLEY COAL
FIELD : RH 2868
OTHER SERVICES : 9067 9239 9410

MUNICIPALITY : BRITISH COLUMBIA

PROVINCE : BEAUFORT

LOCATION : BEAUFORT

SECTION : N/A

TOWNSHIP : N/A

RANGE : N/A

APF NO. : N/A

UNIQUE WELL ID : N/A

PERMANENT DATA : N/A

LOG MEASURED FROM : G.L.

LOG MEASURED FROM : G.L.

DATE : 08/27/06

DEPTH DRIILLER : 413

BIT SIZE : 113.970

LOG TOP : 10.000

LOG BOTTOM : 413.900

CASING OD : 152.400

CASING BOTTOM : 3

BOREHOLE TYPE : STEEL

BOREHOLE FLUID : WATER

RAI TEMPERATURE : N/A

MUD RES : N/A

RECORDED BY : R.HECK

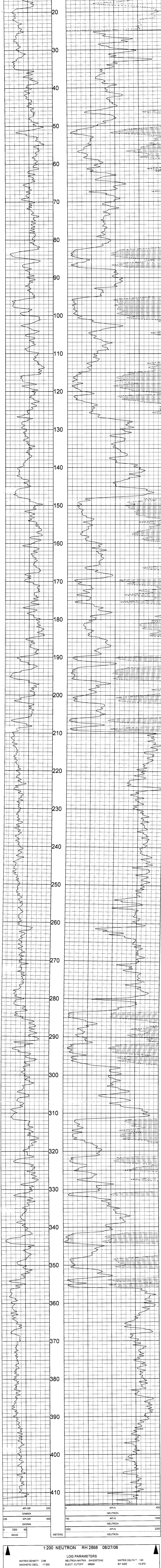
REMARKS 1 : 51Z - HI - TO 245 M. 81Z/ RH TO TD

REMARKS 2 : N/A

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

1:200 NEUTRON RH 2868 08/27/06

MATRIX DENSITY : 2.88 LOG PARAMETERS MATRIX DELTA T : 140
MAGNETIC DECL : 17.000 NEUTRON MATRIX : SANDSTONE BIT SIZE : 13.970
ELECT. CUTOFF : 99999



1:200 NEUTRON RH 2868 08/27/06

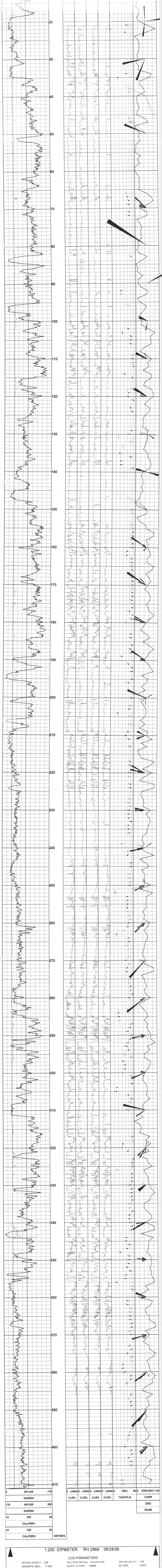
MATRIX DENSITY : 2.88 LOG PARAMETERS MATRIX DELTA T : 140
MAGNETIC DECL : 17.000 NEUTRON MATRIX : SANDSTONE BIT SIZE : 13.970
ELECT. CUTOFF : 99999

TOOL CALIBRATION F 2000-002700-10-10	SERIAL NUMBER	DATE	TIME	SENSOR	STANDARD	RESPONSE
1	1067	May 22 06	15:03:18	GAMMA	0.000 [API-GR]	1.00 [CPS]
		May 22 06	15:03:18	GAMMA	325.000 [API-GR]	325.00 [CPS]
2		Oct 24 05	21:50:54	NEUTRON	152.000 [API-N]	Default [CPS]
3		Dec 01 05	21:21:19	SP	Default [CPS]	187.00 [CPS]
4		Dec 01 05	21:21:19	SP	Default [CPS]	Default [CPS]
5		Dec 01 05	21:54:52	RES(18N)	Default [CPS]	Default [CPS]
6		Dec 01 05	21:54:52	RES(16N)	Default [CPS]	Default [CPS]
7		Dec 01 05	21:55:00	RES(64N)	Default [CPS]	Default [CPS]
8		Dec 01 05	21:55:07	TEMP	Default [CPS]	Default [CPS]
9		Dec 01 05	21:55:07	TEMP	Default [CPS]	Default [CPS]
10		Dec 01 05	21:55:17	RES	Default [CPS]	Default [CPS]
11		Dec 01 05	21:55:17	RES	Default [CPS]	Default [CPS]
12		Apr 12 02	00:42:07	POR(NEU)	100.000 [PERCENT]	176.00 [CPS]

1:200 DIPMETER RH 2868 08/28/06

LOG PARAMETERS

MATRIX DENSITY : 2.68 NEUTRON MATRIX SANDSTONE MATRIX DELTA T : 140
MAGNETIC DECL : 17.000 ELECT CUTOFF 99999 BIT SIZE : 13.970



1:200 DIPMETER RH 2868 08/28/06

LOG PARAMETERS

MATRIX DENSITY : 2.68 NEUTRON MATRIX SANDSTONE MATRIX DELTA T : 140
MAGNETIC DECL : 17.000 ELECT CUTOFF 99999 BIT SIZE : 13.970

TOOL CALIBRATION RH 2868 08/28/06 10:07

TOOL 9400A
SERIAL NUMBER 367

DATE	TIME	SENSOR	STANDARD	RESPONSE
Aug28,06	16:37:16	CUR4	1.000 [UA]	1.00 [CPS]
Aug28,06	16:37:16	CUR4	283.000 [UA]	268.00 [CPS]
Aug28,06	16:37:16	CALIPER1	5.371 [INCH]	100.00 [CPS]
Mar23,06	16:26:46	CALIPER1	384.900 [INCH]	6000.00 [CPS]
Mar23,06	16:28:46	CALIPER1	400.000 [INCH]	737.00 [CPS]
Mar23,06	16:28:25	CALIPER1	7000.000 [INCH]	12935.00 [CPS]
Mar23,06	16:28:42	XINCL	400.000 [MV]	875.00 [CPS]
Mar23,06	16:28:42	YINCL	7000.000 [MV]	15240.00 [CPS]
Mar23,06	16:28:57	YINCL	400.000 [MV]	585.00 [CPS]
Mar23,06	16:28:14	XFLUX	7000.000 [MV]	10290.00 [CPS]
Mar23,06	16:29:14	XFLUX	400.000 [MV]	690.00 [CPS]
Aug24,06	19:37:11	YFLUX	15.240 [MV]	12350.00 [CPS]
Aug24,06	19:37:11	ZFLUX	15.240 [MV]	6249.00 [CPS]
Aug24,06	19:37:35	ZFLUX	15.240 [MV]	11591.00 [CPS]
Aug24,06	19:37:35	ZFLUX	25.400 [MV]	6118.00 [CPS]
Dec19,02	19:52:27	CUR5	1200.000 [UA]	12536.00 [CPS]
Dec19,02	19:52:27	CUR5	7000.000 [UA]	1535.00 [CPS]

CUR1	CUR2	CUR3	CUR4	TADPOLE	ROSE
0 U/6000	0 U/6000	0 U/6000	0 U/6000	DEG	PERCENT 100
				DEG	DEG
					ROSE

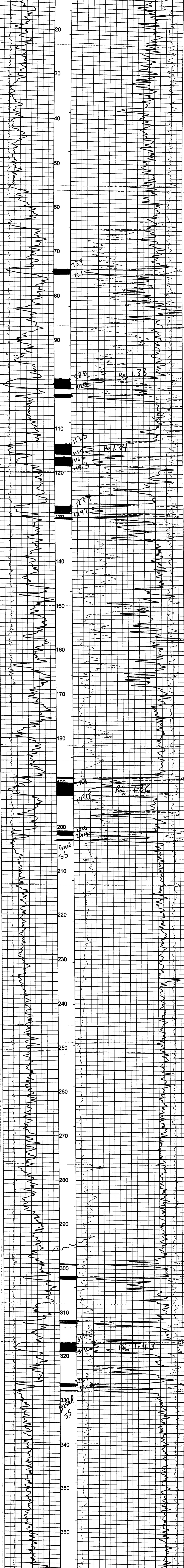
Century-geo.com

COMPANY	EX WALTER COAL	OTHER SERVICES	
WELL	RH 2869	967	
FIELD	NA	967	
MUNICIPALITY	ELCOORD	NA	
PROVINCE	BRITISH COLUMBIA	NA	
LOCATION	BEAR MTR		
SECTION	NA		
TOWNSHIP	NA		
RANGE	NA		
API NO.	NA		
UNIQUE WELL ID.	NA		
PERMANENT DATUM	NA	ELEVATION VB	NA
LOG MEASURED FROM	GL	ELEVATION OF	NA
DATE	08/30/06		
DEPTH COLLER	371		
BIT SIZE	13.33		
LOG TOP	10.33		
LOG BOTTOM	371.71		
CASING OD	15.240		
CASING TYPE	STEEL		
BOREHOLE FLUID	WATER		
RAJ TEMPERATURE	NA		
MUD RES	NA		
MUD WEIGHT	NA		
RECORDED BY	WJ / J. Hume 2809-06		
REMARKS 1	R 157 - RB TO 203 M, 517 - RB TO 267 M, 514 - RB TO TD		
REMARKS 2	NA		

1:200 BULK DENSITY RH 2869 08/30/06

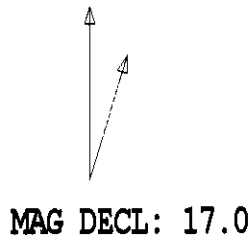
MATRIX DENSITY : 2.68
 MAGNETIC DECL : 17.0
 LOG PARAMETERS
 NEUTRON MATR :
 ITRIX DELTA T : 140
 SIZE : 13.335

14.4 / 1
 20.9

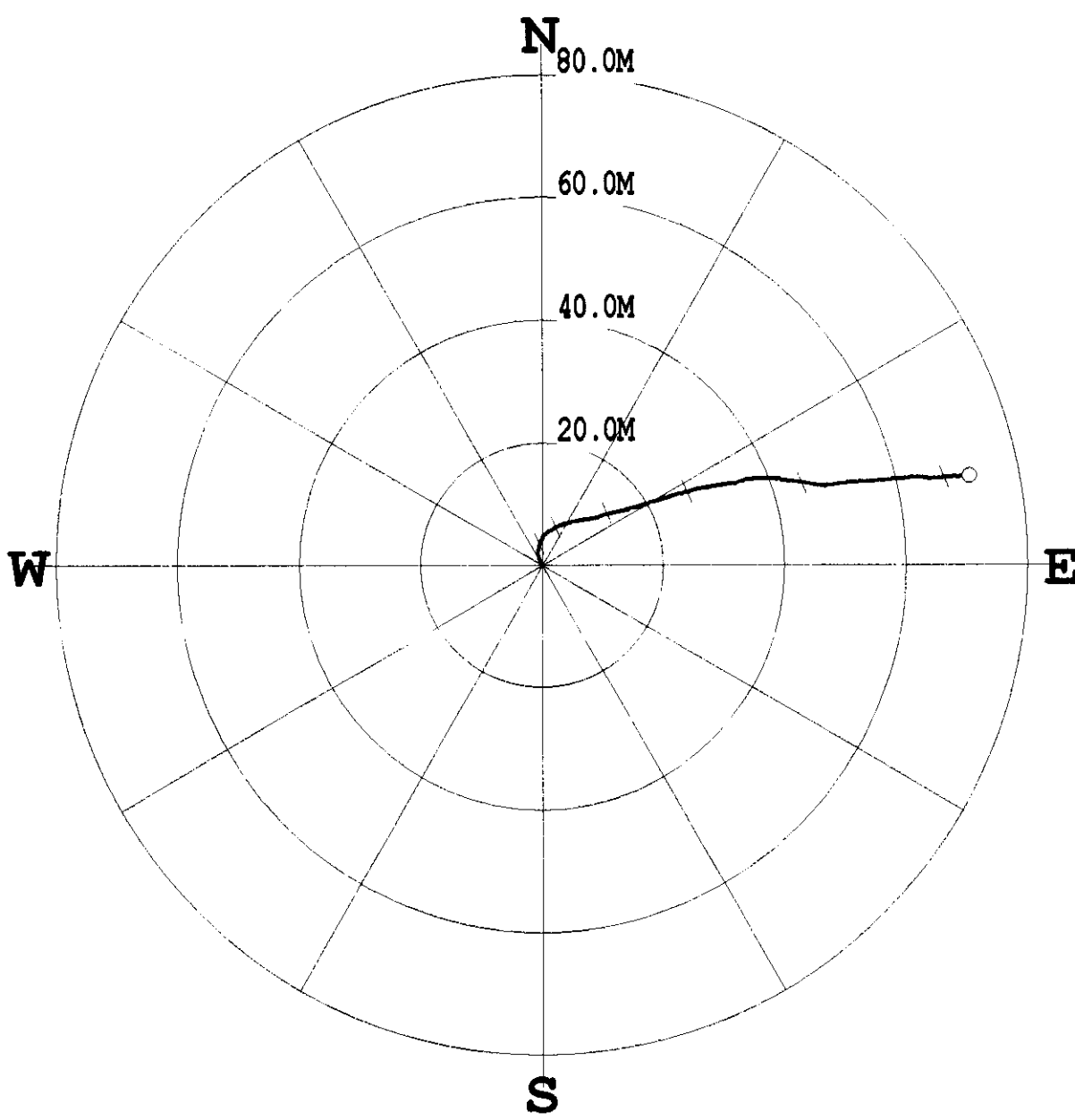


PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION: N/A
 HOLE ID: RH 2869
 DATE OF LOG: 08/30/06
 PROBE: 9057A 1067



SCALE: 10 M/CM
 TRUE DEPTH: 358.66 M
 AZIMUTH: 78.3
 DISTANCE: 71.8 M
 + = 50 M INCR
 ○ = BOTTOM OF HOLE



* * * * * COMPU-LOG - VERTICAL DEVIATION * * * * *

CLIENT : ELK VALLEY COAL HOLE ID. : RH 2869
 FIELD OFFICE : DATE OF LOG : 08/30/06
 DATA FROM : N/A PROBE : 9057A , 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: RH2869_08-30-06_14-42_9057A_.02_15.00_371.85_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
15.0	15.02	0.00	-0.00	0.0	340.4	0.5	340.4
25.0	25.00	0.09	0.03	0.1	18.8	0.6	15.0
35.0	35.00	0.24	-0.01	0.2	358.0	1.3	334.6
45.0	44.99	0.46	-0.16	0.5	341.2	1.9	323.3
55.0	54.98	0.86	-0.40	1.0	335.2	3.3	331.7
65.0	64.97	1.39	-0.67	1.5	334.4	3.8	346.9
75.0	74.95	1.99	-0.71	2.1	340.3	3.3	352.9
85.0	84.93	2.56	-0.67	2.6	345.3	3.2	8.1
95.0	94.92	3.10	-0.58	3.2	349.5	3.6	20.4
105.0	104.90	3.66	-0.37	3.7	354.3	3.5	23.4
115.0	114.88	4.18	-0.17	4.2	357.6	3.4	19.5
125.0	124.86	4.78	0.15	4.8	1.8	4.3	28.6
135.0	134.82	5.39	0.75	5.4	7.9	5.5	51.1
145.0	144.77	5.93	1.62	6.1	15.3	6.2	68.7
155.0	154.69	6.51	2.69	7.0	22.5	7.9	65.3
165.0	164.58	6.93	4.07	8.0	30.4	8.8	72.4
175.0	174.45	7.32	5.64	9.2	37.6	10.0	72.5
185.0	184.29	7.60	7.39	10.6	44.2	10.7	88.5
195.0	194.09	8.00	9.32	12.3	49.4	13.5	59.3
205.0	203.81	8.64	11.55	14.4	53.2	13.7	73.1
215.0	213.52	9.20	13.82	16.6	56.4	13.8	89.3
225.0	223.20	9.85	16.20	19.0	58.7	15.1	78.9
235.0	232.84	10.58	18.76	21.5	60.6	15.9	82.1
245.0	242.42	11.49	21.46	24.3	61.8	17.6	72.9
255.0	251.95	12.23	24.37	27.3	63.4	18.1	69.2
265.0	261.43	12.81	27.46	30.3	65.0	19.2	80.2
275.0	270.82	13.37	30.77	33.5	66.5	20.5	92.3
285.0	280.11	14.19	34.29	37.1	67.5	21.1	97.9
295.0	289.31	14.21	38.16	40.7	69.6	23.2	93.5
305.0	298.50	13.65	42.03	44.2	72.0	23.1	103.7
315.0	307.64	13.05	45.99	47.8	74.2	24.1	97.2
325.0	316.69	13.53	50.13	51.9	74.9	25.8	73.0
335.0	325.69	13.78	54.45	56.2	75.8	25.3	95.9
345.0	334.68	14.14	58.78	60.5	76.5	27.2	81.8
355.0	343.67	14.27	63.10	64.7	77.3	26.0	94.2
365.0	352.66	14.48	67.43	69.0	77.9	26.1	83.9
371.7	358.66	14.56	70.31	71.8	78.3	26.6	91.1

Century
GEOLOGICAL CORP.

GAMMA - NEUTRON
LOG THRU DRILL PIPE
RH 2869

century-geo.com

COMPANY	EAT VALLEY COAL	OTHER SERVICES	
WELL	RH 2869	9671	9239
MUNICIPALITY	NA		NA
COUNTY	ELFORD		
STATE	INDIANA		
LOCATION	BEVAN MINE		
SECTION	NA		
TOWNSHIP	NA		
RANGE	NA		
API NO.	NA		
PERMITS WELL ID	NA		
PERMITS DATE	NA		
LOG MEASURED FROM	G.L.	ELEVATION KB	NA
DRY MEASURED FROM	G.L.	ELEVATION OF	NA
DATE	08/30/06	ELEVATION GL	NA
DEPTH DRILLER	371		
BIT SIZE	13.335		
LOG TOP	0.39		
LOG BOTTOM	369.66		
CASING OD	15.240		
CASING BOTTOM	15		
CASING TYPE	STEEL		
CEMENT TYPE	WATER		
CEMENT FLUID	NA		
RM TEMPERATURE	NA		
MUD WEIGHT	NA		
RECORDED BY	R.HECK		
REMARKS 1	51Z-HB TO 203 M 51Z-RB TO 281 M 51Z-RB TO TD		
REMARKS 2	NA		

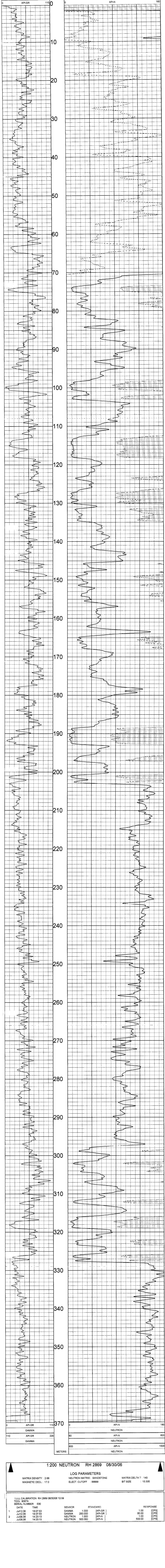
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS.

1:200 NEUTRON RH 2869 08/30/06

LOG PARAMETERS
NEUTRON MATRIX: SANDSTONE
ELECT. CUTOFF: 99999

MATRIX DENSITY: 2.68
MAGNETIC DECL.: 17.0

MATRIX DELTA T: 140
BIT SIZE: 13.335



1:200 NEUTRON RH 2869 08/30/06

LOG PARAMETERS
NEUTRON MATRIX: SANDSTONE
ELECT. CUTOFF: 99999

MATRIX DENSITY: 2.68
MAGNETIC DECL.: 17.0

MATRIX DELTA T: 140
BIT SIZE: 13.335

TOOL CALIBRATION RH 2869 08/30/06 10:59
TOOL 9097A
SERIAL NUMBER 530

NO.	DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Jul12.06	18:07:53	GAMMA	1.000 [API-GR]	1.00 [CPS]
1	Jul12.06	18:07:53	GAMMA	250.000 [API-GR]	80.00 [CPS]
2	Jul08.06	14:23:13	NEUTRON	1.000 [API-N]	1.00 [CPS]
2	Jul08.06	14:23:13	NEUTRON	500.000 [API-N]	500.00 [CPS]

2870

28797.3E
141.6619 N
1632.4 3.

century-geo.com
11 XVALET COAL
WELL NO. 2870
FIELD NO. 1416619
COUNTY: WEST VIRGINIA
STATE: WV
LOCATION: 28797.3E
SECTION: 141.6619 N
TOWNSHIP: 1632.4 3.
RANGE: 3.
UNIQUE WELL ID: ELEVATION: 9410
PERMIT NUMBER: ELEVATION DE: 9410
LOG MEASURED FROM: ELEVATION DE: 9410
DATE: 09/04/06
DEPTH DIALER: 100
BIT SIZE: 13/16
LOG TOP: 0
LOG BOTTOM: 400
CASING OD: 3.5
CASING TYPE: 5
BENCH MARK: 2870
RAI TEMPERATURE: 4
RAI WINDS: 4
WIND DIRECTION: 4
WIND WEIGHT: 4
RECORDED BY: 25 DPC/BS
REMARKS 1: 25 DPC/BS
REMARKS 2: ALL SP. 3.5 SUBJECT TO STANDARD TERMS AND CONDITIONS

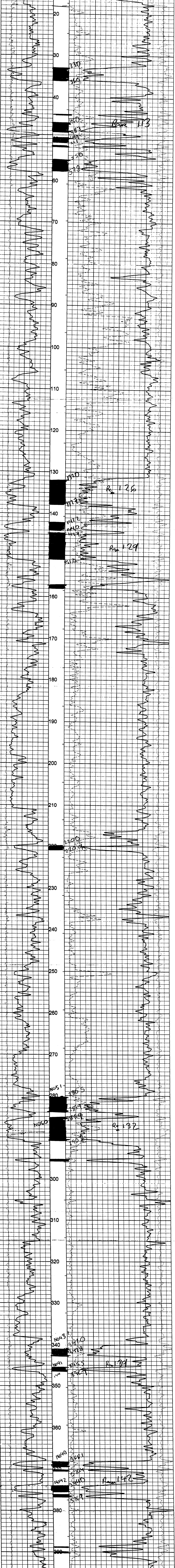
1:200 BULK DENSITY RH 2870 09/04/06

MATRIX DENSITY: 2.68
MAGNETIC DECL.: 17.0

MATRIX DELTA T: 140
BIT SIZE: 13/16

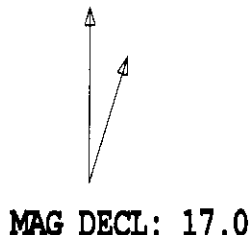
PRESENTATION NAME/DATE = 9

7.61
6
290.7

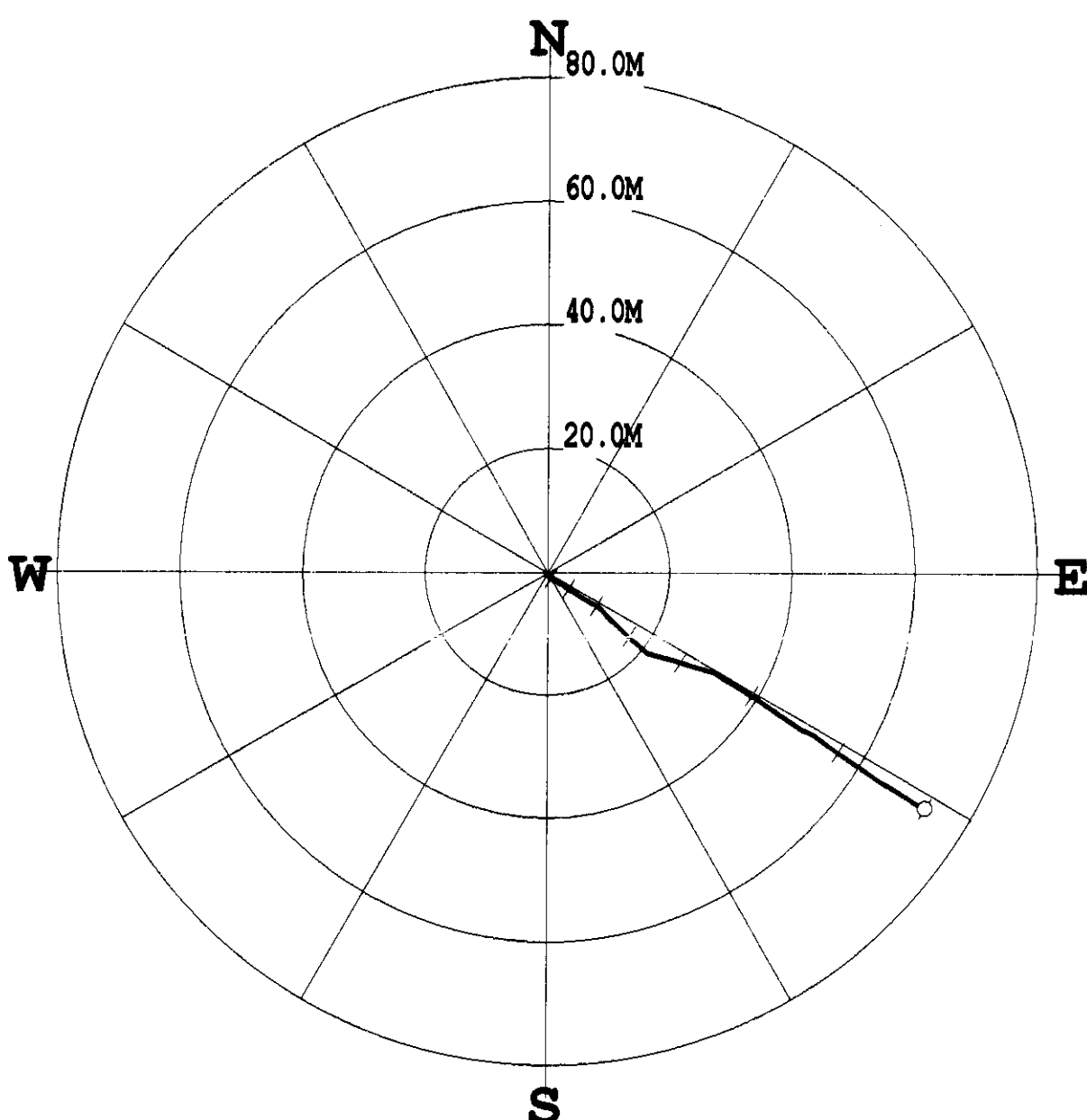


PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION: N/A
 HOLE ID: RH 2870
 DATE OF LOG: 09/04/06
 PROBE: 9057A 1067



SCALE: 10 M/CM
 TRUE DEPTH: 392.20 M
 AZIMUTH: 121.8
 DISTANCE: 72.6 M
 + = 50 M INCR
 ○ = BOTTOM OF HOLE



* * * * * COMPU-LOG - VERTICAL DEVIATION * * * * *

CLIENT : ELK VALLEY COAL HOLE ID. : RH 2870
 FIELD OFFICE : DATE OF LOG : 09/04/06
 DATA FROM : N/A PROBE : 9057A , 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: RH2870_09-04-06_09-23_9057A_.02_18.00_402.32_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
18.00	18.00	-0.00	-0.00	0.0	238.0	1.2	238.0
28.00	28.00	-0.19	0.04	0.2	168.6	1.3	162.8
38.00	37.99	-0.44	0.14	0.5	161.9	1.9	150.1
48.00	47.98	-0.79	0.41	0.9	152.6	3.1	143.6
58.00	57.97	-1.12	0.89	1.4	141.6	3.7	116.9
68.00	67.94	-1.42	1.49	2.1	133.6	3.6	115.7
78.00	77.92	-1.74	2.07	2.7	130.1	4.0	121.0
88.00	87.90	-2.11	2.65	3.4	128.5	3.9	129.6
98.00	97.87	-2.53	3.23	4.1	128.1	4.0	119.1
108.00	107.84	-2.93	3.88	4.9	127.1	4.6	122.9
118.00	117.80	-3.41	4.67	5.8	126.2	6.0	133.0
128.00	127.74	-3.99	5.52	6.8	125.9	6.6	127.3
138.00	137.67	-4.59	6.56	8.0	125.0	6.9	116.3
148.00	147.59	-5.21	7.67	9.3	124.2	7.3	123.6
158.00	157.49	-6.00	8.73	10.6	124.5	7.8	137.1
168.00	167.39	-7.03	9.69	12.0	126.0	8.4	126.7
178.00	177.28	-8.05	10.76	13.4	126.8	8.4	135.8
188.00	187.16	-9.11	11.81	14.9	127.7	9.2	122.0
198.00	197.04	-10.13	12.94	16.4	128.1	9.0	132.5
208.00	206.91	-11.17	14.12	18.0	128.4	9.5	117.8
218.00	216.76	-12.29	15.41	19.7	128.6	10.2	125.8
228.00	226.58	-13.20	16.97	21.5	127.9	11.2	107.9
238.00	236.38	-13.71	18.90	23.3	126.0	12.2	109.6
248.00	246.15	-14.25	20.92	25.3	124.3	12.3	109.8
258.00	255.92	-14.89	22.92	27.3	123.0	7.8	106.4
268.00	265.66	-15.48	25.05	29.4	121.7	14.4	111.2
278.00	275.36	-16.22	27.36	31.8	120.7	16.0	134.4
288.00	285.00	-17.61	29.58	34.4	120.8	16.0	111.1
298.00	294.59	-19.04	31.93	37.2	120.8	17.4	111.5
308.00	304.12	-20.66	34.44	40.2	121.0	18.3	123.2
318.00	313.59	-22.46	37.05	43.3	121.2	19.7	129.3
328.00	323.01	-24.28	39.77	46.6	121.4	19.7	126.5
338.00	332.44	-25.91	42.53	49.8	121.4	19.4	122.8
348.00	341.89	-27.62	45.21	53.0	121.4	19.2	127.6
358.00	351.33	-29.49	47.86	56.2	121.6	19.7	122.2
368.00	360.72	-31.37	50.64	59.6	121.8	19.7	116.5
378.00	370.02	-33.39	53.64	63.2	121.9	22.2	119.5
388.00	379.26	-35.31	56.85	66.9	121.8	22.8	110.6
398.00	388.42	-37.41	60.24	70.9	121.8	24.4	121.4
402.14	392.20	-38.22	61.70	72.6	121.8	24.5	117.5

Century
GEOLOGICAL CORP.

GAMMA - NEUTRON
LOG THRU DRILL PIPE
RH 2870

Century-geo.com

COMPANY : EMVALEY COAL
WELL : RH 2870
FIELD : VA
COUNTY : ELMFORD
STATE : BRUNSWICK
LOCATION : BRUNSWICK
SECTION : VA
TOWNSHIP : VA
RANGE : VA
APN NO : VA
LINKAGE WELL ID : VA
ELEVATION NE : VA
ELEVATION OF : VA
ELEVATION CL : VA

LOG MEASURED FROM : CL
DIP MEASURED FROM : CL

DATE : 09/03/06
DEPTH DILATER : 427
BIT SIZE : 13.87

LOG TOP : 0.39
LOG BOTTOM : 403.91
CASING O.D. : 15.24
CASING BOTTOM : 15

CASING TYPE : WATER
BENEATH FLUID : STEEL
RAI TEMPERATURE : N/A
MUD RES : N/A
MUD WEIGHT : N/A
WINDSPEED BY : N/A
RECORDED BY : RICK
REMARKS 1 : 517 - 487 TO 527 - 487 TO TD
REMARKS 2 : LOG THRU DRILL PIPE

OTHER SERVICES:
907
829
940

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

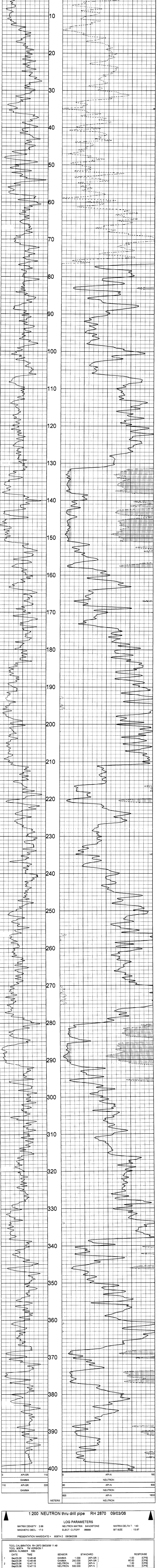
1:200 NEUTRON thru drill pipe RH 2870 09/03/06

MATRIX DENSITY : 2.68
MAGNETIC DECL : 17.0

LOG PARAMETERS
NEUTRON MATRIX : SANDSTONE
ELECT CUTOFF : 96999

MATRIX DELTA T : 140
BIT SIZE : 13.87

PRESENTATION NAME/DATE = 9087A.D 08/06/2006



1:200 NEUTRON thru drill pipe RH 2870 09/03/06

MATRIX DENSITY : 2.68
MAGNETIC DECL : 17.0

LOG PARAMETERS
NEUTRON MATRIX : SANDSTONE
ELECT CUTOFF : 96999

MATRIX DELTA T : 140
BIT SIZE : 13.87

PRESENTATION NAME/DATE = 9087A.D 08/09/2006

DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Sep03.06 10:46:48	GAMMA	1.000 [API-GR]	1.00 [CPS]
2	Sep03.06 10:47:15	NEUTRON	500.000 [API-N]	500.00 [CPS]

TOOL CALIBRATION RH 2870 09/03/06 11:49
TOOL 9087A TM VERSION 1
SERIAL NUMBER 530

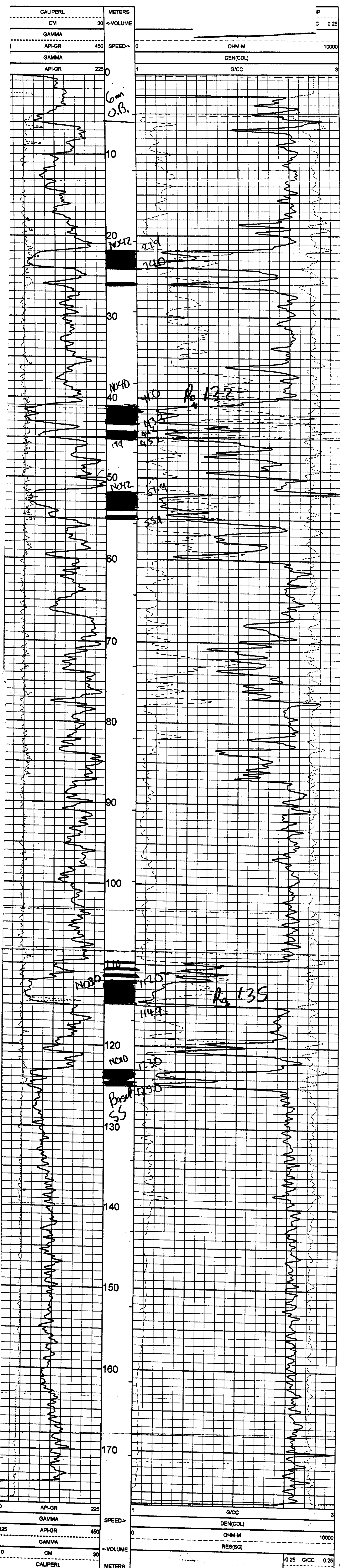
RH 2871

2871

COMPANY	ELK VALLEY COAL	OTHER SERVICES	9067 9057 N/A
WELL	RH 2871		
FIELD	N/A		
MUNICIPALITY	EATFORD		
PROVINCE	BRITISH COLUMBIA		
LOCATION	BEAR Mtn.		
SECTION	N/A		
TOWNSHIP	N/A		
RANGE	N/A		
API NO.	N/A		
UNIQUE WELL ID.	N/A		
PERMANENT DATUM	N/A	ELEVATION RB: N/A	
LOG MEASURED FROM:	GL	ELEVATION DF: N/A	
DRI. MEASURED FROM:	GL	ELEVATION G.L: N/A	
DATE	08/31/06		
DEPTH DRILLER	176		
BIT SIZE	13.018		
LOG TOP	0.28		
LOG BOTTOM	176.57		
CASING OD	15.240		
CASING BOTTOM	6		
CASING TYPE	STEEL		
BOREHOLE FLUID	WATER		
RM TEMPERATURE	N/A		
MUD RES	N/A		
MUD WEIGHT	N/A		
RECORDED BY	R. HECK		
REMARKS 1	512' RB TO 62' M. 516' RB TO TD		
REMARKS 2	N/A		

1:200 BULK DENSITY RH 2871 08/31/06

MATRIX DENSITY : 2.68
MAGNETIC DECL. : 17.0
NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 99999
MATRIX DELTA T : 140
BIT SIZE : 13.018



PLAN VIEW

COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL

LOCAT. NO: N/A

HOLE ID: RH 2871

DATE OF LOG: 08/31/06

PROBE: 9057A

S

***** COMPU-LOG - VERTICAL DEVIATION *****

CLIENT : ELK VALLEY COAL HOLE ID. : RH 2871
 FIELD OFFICE : DATE OF LOG : 08/31/06
 DATA FROM : N/A PROBE : 9057A 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: RH2871_08-31-06_16-03_9057A_.02_6.00_176.73_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
6.0	6.02	-0.00	0.00	0.0	155.9	1.3	155.9
16.0	16.00	0.04	0.17	0.2	77.9	1.0	80.6
26.0	26.00	0.05	0.37	0.4	82.7	1.3	86.5
36.0	35.99	0.09	0.63	0.6	82.0	1.6	85.5
46.0	45.98	0.11	1.06	1.1	83.9	3.3	89.4
56.0	55.96	0.10	1.75	1.8	86.7	4.8	90.8
66.0	65.92	-0.01	2.65	2.7	90.3	5.5	111.5
76.0	75.86	-0.24	3.70	3.7	93.7	6.5	112.3
86.0	85.79	-0.81	4.74	4.8	99.7	7.2	122.2
96.0	95.70	-1.46	5.84	6.0	104.0	7.6	112.9
106.0	105.60	-2.20	7.08	7.4	107.2	9.4	117.8
116.0	115.45	-3.03	8.51	9.0	109.6	10.1	101.6
126.0	125.26	-3.83	10.25	10.9	110.5	11.6	117.5
136.0	135.05	-4.69	12.06	12.9	111.2	12.1	111.8
146.0	144.81	-5.47	14.04	15.1	111.3	13.5	117.4
156.0	154.53	-6.18	16.28	17.4	110.8	14.5	97.8
166.0	164.20	-6.16	18.77	19.8	108.2	14.3	85.6
176.0	173.85	-6.18	21.32	22.2	106.2	14.8	104.1
176.6	174.40	-6.22	21.46	22.3	106.2	15.4	104.5

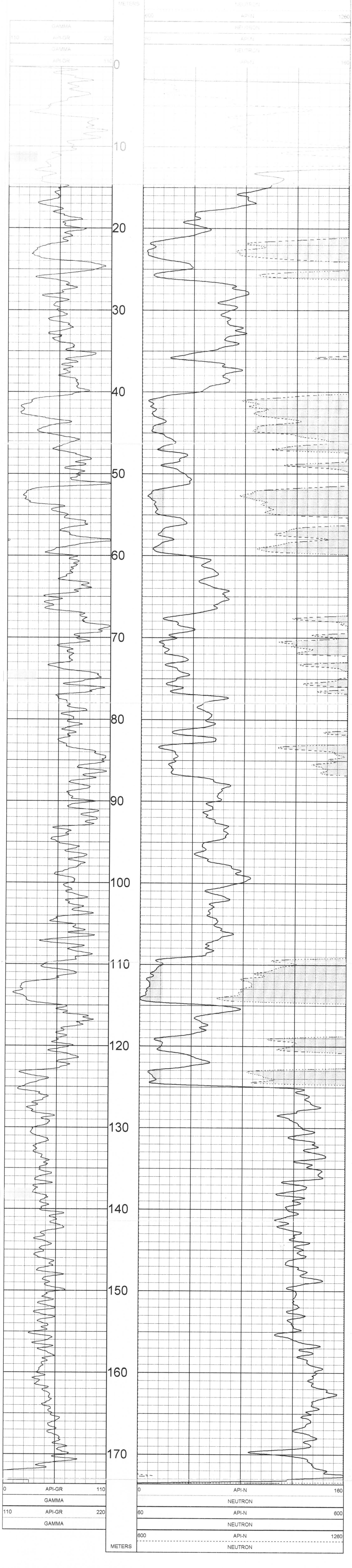
1:200 NEUTRON thru drill pipe RH 2871 08/31/06

LOG PARAMETERS

MATRIX DENSITY : 2.68
MAGNETIC DECL : 17.0

NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 99999

MATRIX DELTA T : 140
BIT SIZE : 13.335



1:200 NEUTRON thru drill pipe RH 2871 08/31/06

LOG PARAMETERS

MATRIX DENSITY : 2.68
MAGNETIC DECL : 17.0

NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 99999

MATRIX DELTA T : 140
BIT SIZE : 13.335

TOOL CALIBRATION RH 2871 08/31/06 12:22
TOOL 9067A
SERIAL NUMBER 530

	DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Jul12,06	18:07:53	GAMMA	1.000 [API-GR]	1.00 [CPS]
	Jul12,06	18:07:53	GAMMA	250.000 [API-GR]	80.00 [CPS]
2	Jul08,06	14:23:13	NEUTRON	1.000 [API-N]	1.00 [CPS]
	Jul08,06	14:23:13	NEUTRON	500.000 [API-N]	500.00 [CPS]

CENTURY-geo.com
ELK VALLEY COAL
RH #28-72
V. EL. 9051
F. EL. 9057
9054

2872

ELK VALLEY COAL
ELK FORD
BRITISH COLUMBIA
CASTLE MTN

27559.583 E
140681.071 N
1649.873 elev

UNIQUE WELL ID
ELEVATION KG
ELEVATION DF
ELEVATION GL

LOG MEASURED FROM G.L.
DPL MEASURED FROM G.L.
DATE 05/31/06

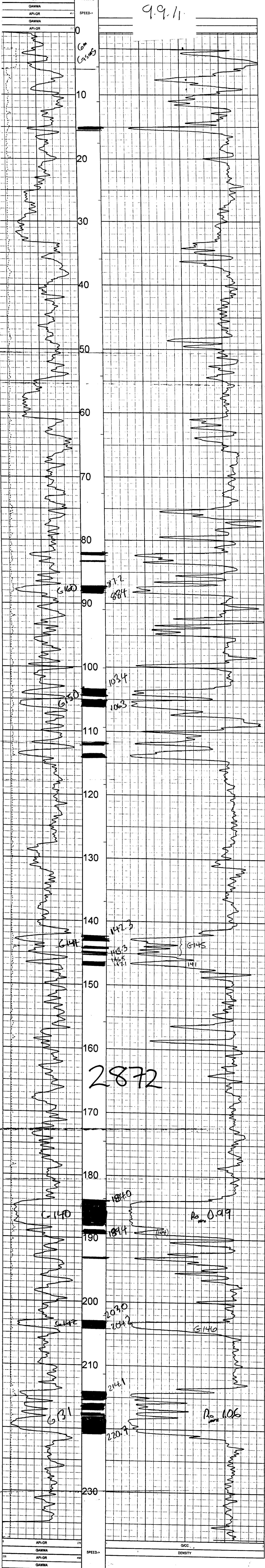
DEPTH - DRILLER 226
BT SIZE 13.335

LOG TOP 0.28
LOG BOTTOM 239.61
CAS. I.S. OD 17.78

CAS. I.S. BOTTOM 6
CAS. I.S. TYPE STEEL
CAS. HOLE FLUID WATER
FLUID TEMPERATURE
FLUID RES
FLUID WEIGHT

RECORDED BY R. HERR
FEM-RKS 1
FEM-RKS 2
11-06-06

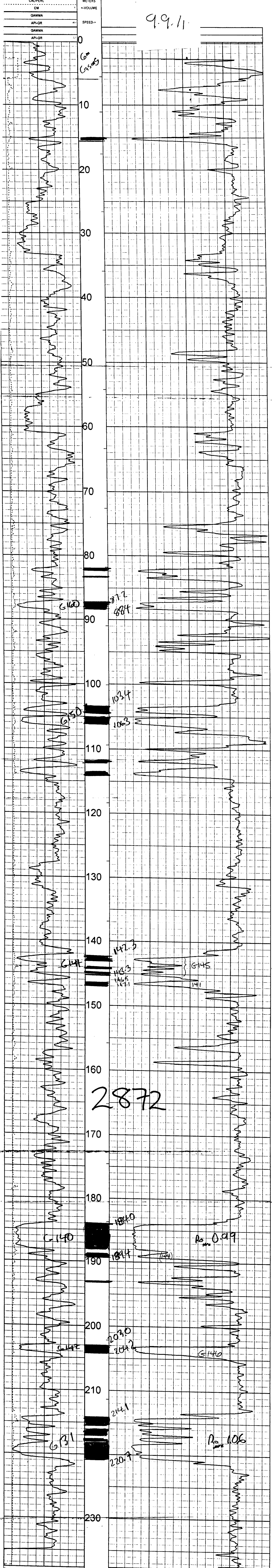
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



2872

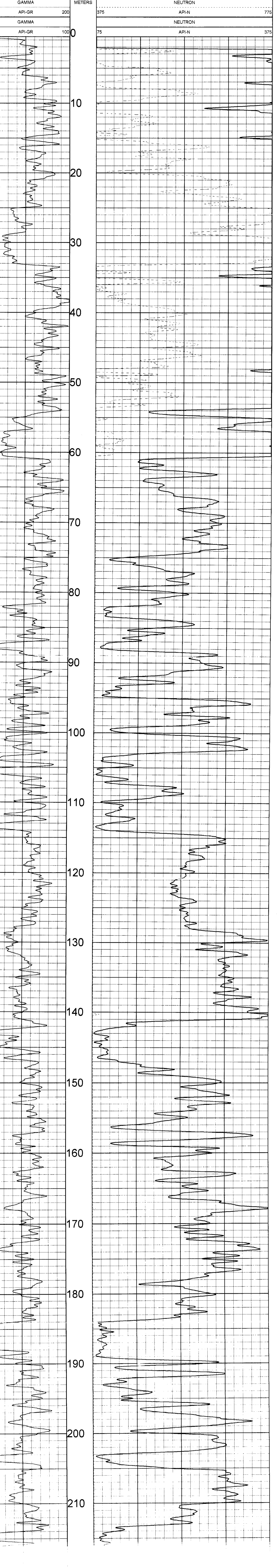
27559.583 E
140681.071 N
1649.873 dB

9.9.11



API-GR 275
GAMMA 450
SPEED->
GAMMA
API-GR 450
GAMMA
CM 311

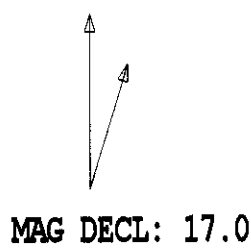
COMPANY	ELK VALLEY COAL	OTHER SERVICES	
WELL	RH #28-72	9051	
FIELD	ELK FORD	9057	
MUNICIPALITY	BRITISH COLUMBIA	9094	
PROVINCE	CASTLE MTN		
LOCATION			
SECTION			
TOWNSHIP			
RANGE			
API NO.			
UNIQUE WELL ID.			
PERMANENT DATUM	G.L.	ELEVATION KB:	
LOG MEASURED FROM:	G.L.	ELEVATION DF:	
DRL MEASURED FROM:	G.L.	ELEVATION GL:	
DATE	05/20/06		
DEPTH DRILLER	236		
BIT SIZE	13.356		
LOG TOP	0.51		
LOG BOTTOM	232.89		
CASING OD	17.78		
CASING BOTTOM	6		
CASING TYPE	STEEL		
BOREHOLE FLUID	WATER		
RM TEMPERATURE			
MUD RES			
MUD WEIGHT			
RECORDED BY	R HECK		
REMARKS 1	LOG THRU DRILL PIPE		
REMARKS 2			



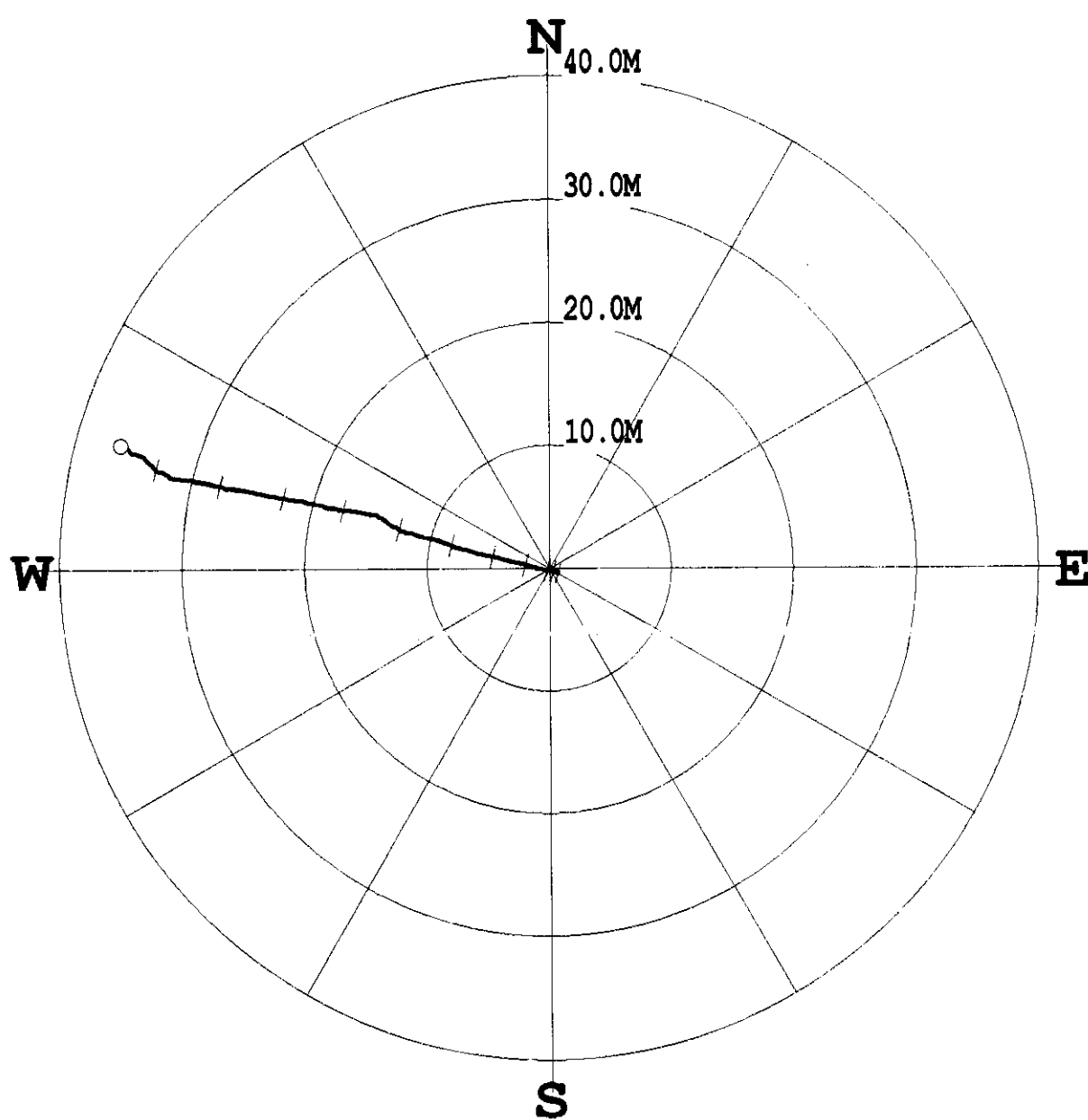
3	May 26 06	20:40
4	May 23 06	12:00

PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION:
 HOLE ID: RH #28-72
 DATE OF LOG: 05/31/06
 PROBE: 9057A 1067



SCALE: 5 M/CM
 TRUE DEPTH: 233.06 M
 AZIMUTH: 286.0
 DISTANCE: 36.3 M
 + = 20 M INCR
 ○ = BOTTOM OF HOLE



***** COMPU-LOG - VERTICAL DEVIATION *****

CLIENT : ELK VALLEY COAL HOLE ID. : RH #28-72
 FIELD OFFICE : DATE OF LOG : 05/31/06
 DATA FROM : PROBE : 9057A , 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: \RH#28-72_05-31-06_10-50_9057A_.02_7.00_237.59_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
7.0	7.02	-0.00	0.00	0.0	147.5	1.2	147.5
9.0	9.00	-0.03	0.04	0.0	127.0	1.7	134.8
11.0	11.00	-0.06	0.08	0.1	127.2	1.7	134.7
13.0	13.00	-0.10	0.13	0.2	128.0	1.6	129.1
15.0	15.00	-0.13	0.16	0.2	129.2	1.5	136.1
17.0	17.00	-0.17	0.21	0.3	128.8	1.6	122.1
19.0	19.00	-0.18	0.26	0.3	125.8	1.7	98.0
21.0	20.99	-0.19	0.32	0.4	120.7	1.8	92.7
23.0	22.99	-0.19	0.38	0.4	116.5	1.7	88.4
25.0	24.99	-0.19	0.44	0.5	113.6	1.7	93.2
27.0	26.99	-0.20	0.49	0.5	111.7	1.4	93.0
29.0	28.99	-0.20	0.53	0.6	110.5	1.3	105.5
31.0	30.99	-0.21	0.57	0.6	110.5	1.2	116.5
33.0	32.99	-0.23	0.61	0.7	110.9	1.3	118.0
35.0	34.99	-0.25	0.64	0.7	111.6	1.1	124.7
37.0	36.99	-0.28	0.67	0.7	112.3	0.9	123.4
39.0	38.99	-0.30	0.69	0.8	113.1	0.8	133.7
41.0	40.99	-0.32	0.71	0.8	114.2	0.7	165.0
43.0	42.99	-0.34	0.70	0.8	115.7	0.7	237.8
45.0	44.99	-0.34	0.67	0.7	117.3	1.3	271.3
47.0	46.99	-0.33	0.59	0.7	119.3	2.8	284.3
49.0	48.98	-0.30	0.49	0.6	122.0	3.3	281.3
51.0	50.98	-0.27	0.37	0.5	126.5	3.7	289.1
53.0	52.98	-0.24	0.25	0.3	133.5	4.0	293.1
55.0	54.97	-0.20	0.12	0.2	149.0	4.0	292.2
57.0	56.97	-0.15	-0.02	0.2	186.5	4.0	279.0
59.0	58.96	-0.13	-0.15	0.2	228.5	3.8	281.0
61.0	60.96	-0.11	-0.29	0.3	248.6	4.5	284.6
63.0	62.95	-0.10	-0.42	0.4	257.2	4.1	294.2
65.0	64.95	-0.07	-0.57	0.6	263.4	4.9	296.9
67.0	66.94	-0.04	-0.74	0.7	267.0	4.9	268.4
69.0	68.93	-0.01	-0.91	0.9	269.6	4.8	277.8
71.0	70.92	0.07	-1.08	1.1	273.5	6.0	299.0
73.0	72.91	0.12	-1.26	1.3	275.3	5.8	293.8
75.0	74.90	0.18	-1.45	1.5	277.4	5.9	292.4
77.0	76.89	0.22	-1.64	1.7	277.5	6.1	292.5
79.0	78.88	0.29	-1.85	1.9	279.0	6.5	288.0
81.0	80.87	0.35	-2.07	2.1	279.7	6.5	275.9
83.0	82.85	0.41	-2.30	2.3	280.2	6.9	279.2
85.0	84.84	0.48	-2.54	2.6	280.7	6.9	289.0
87.0	86.82	0.54	-2.79	2.8	281.0	7.1	274.3
89.0	88.80	0.60	-3.05	3.1	281.1	7.6	273.4
91.0	90.78	0.67	-3.31	3.4	281.4	8.2	300.6
93.0	92.76	0.73	-3.59	3.7	281.5	8.2	274.9
95.0	94.74	0.81	-3.87	4.0	281.8	8.5	280.9
97.0	96.72	0.90	-4.16	4.3	282.3	8.9	292.2
99.0	98.70	0.96	-4.45	4.6	282.2	9.2	293.4
101.0	100.67	1.03	-4.75	4.9	282.2	9.2	290.6
103.0	102.65	1.09	-5.06	5.2	282.1	9.1	268.1
105.0	104.62	1.16	-5.36	5.5	282.2	9.4	293.8
107.0	106.59	1.23	-5.67	5.8	282.2	9.7	289.4

***** COMPU-LOG - VERTICAL DEVIATION *****

CLIENT : ELK VALLEY COAL HOLE ID. : RH #28-72
 FIELD OFFICE : DATE OF LOG : 05/31/06
 DATA FROM : PROBE : 9057A , 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: \RH#28-72_05-31-06_10-50_9057A_.02_7.00_237.59_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
109.0	108.57	1.29	-6.00	6.1	282.1	9.8	291.7
111.0	110.54	1.40	-6.32	6.5	282.5	10.1	288.5
113.0	112.50	1.51	-6.66	6.8	282.8	10.3	289.9
115.0	114.47	1.60	-7.00	7.2	282.8	10.1	282.4
117.0	116.44	1.68	-7.34	7.5	282.9	10.7	275.1
119.0	118.40	1.79	-7.70	7.9	283.1	11.3	293.1
121.0	120.36	1.94	-8.07	8.3	283.5	11.6	292.2
123.0	122.32	2.10	-8.45	8.7	283.9	11.9	269.4
125.0	124.28	2.25	-8.84	9.1	284.7	12.5	291.9
127.0	126.23	2.39	-9.25	9.5	284.5	12.9	296.9
129.0	128.18	2.48	-9.67	10.0	284.4	12.5	271.8
131.0	130.13	2.54	-10.10	10.4	284.1	12.3	276.6
133.0	132.08	2.68	-10.51	10.8	284.3	12.5	263.1
135.0	134.03	2.82	-10.93	11.3	284.5	13.1	296.8
137.0	135.98	2.95	-11.36	11.7	284.5	13.6	263.5
139.0	137.92	3.06	-11.79	12.2	284.5	14.5	316.2
141.0	139.86	3.19	-12.22	12.6	284.6	14.4	317.0
143.0	141.80	3.46	-12.62	13.1	285.3	14.1	265.9

COMPANY : ELK VALLEY COAL
WELL : RH 28-73
FIELD : NA
MUNICIPALITY : ELK FORD
PROVINCE : BRITISH COLUMBIA
LOCATION : CASTLE MTN
SECTION : NA
TOWNSHIP : NA
RANGE : NA
APR NO. : NA
UNIQUE WELL ID. : NA
PERMANENT DATUM : NA
LOG MEASURED FROM : G.L.
DRL MEASURED FROM : G.L.
DATE : 06/27/06
DEPTH DRILLER : 179
BIT SIZE : 13.336
LOG TOP : 0.27
LOG BOTTOM : 178.96
CASING OD : 17.78
CASING BOTTOM : 3
CASING TYPE : STEEL
BORERHOLE FLUID : WATER
RM TEMPERATURE : N/A
MUD RES : N/A
MUD WEIGHT : N/A

OTHER SERVICES:
9061
8057
8238

2873

27809 S410
141003 277
1414 720

RECORDED BY : R. HECK
REMARKS 1 : 549 BIT TO TD
REMARKS 2 :
29-06-06

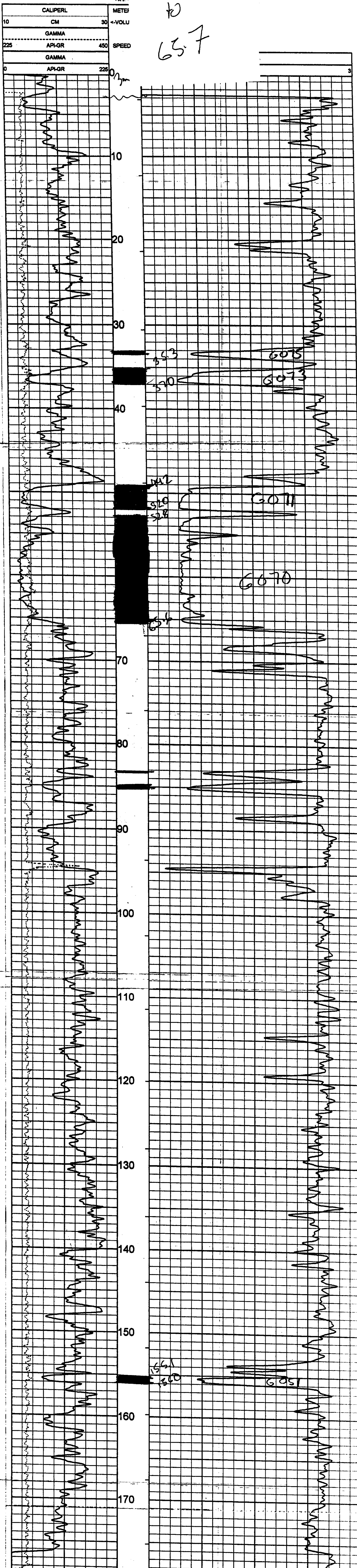
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

GAMMA LS DENSITY RH #28-73 06/27/06

LOG PARAMETERS

MATRIX DENSITY : 2.68
MAGNETIC DECL : 17.0
NEUTRON MATRIX : SANDSTONE
MATRIX DELTA T : 140
BIT SIZE : 13.336

2.61
to
65.7



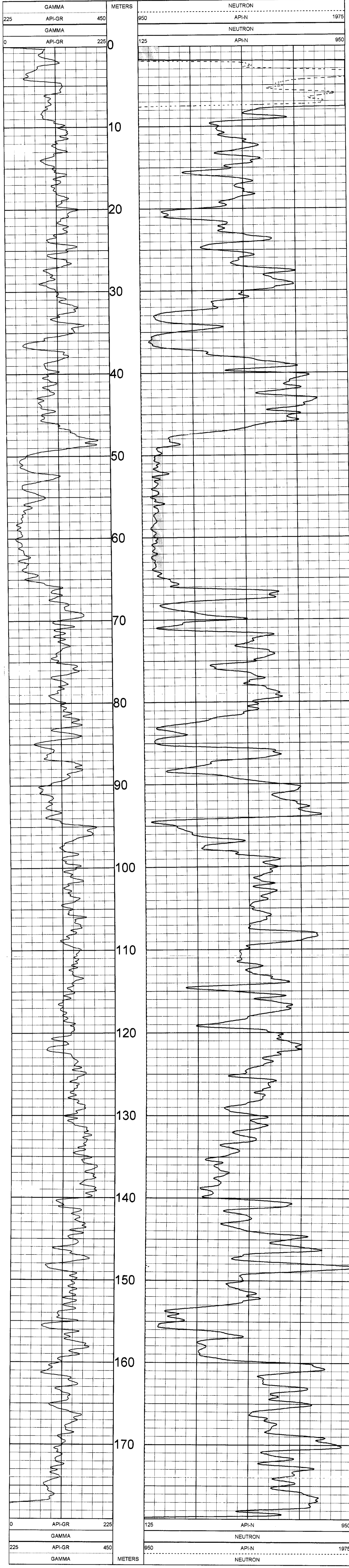
GAMMA - NEUTRON

RH #28-73

COMPANY	ELK VALLEY COAL	OTHER SERVICES	9051
WELL	RH #28-73		9057
FIELD	N/A		9239
MUNICIPALITY	ELKFORD		
PROVINCE	BRITISH COLUMBIA		
LOCATION	CASTLE MTN		
SECTION	N/A		
TOWNSHIP	N/A		
RANGE	N/A		
API NO.	N/A		
UNIQUE WELL ID.	N/A	ELEVATION KB	N/A
PERMANENT DATUM	N/A	ELEVATION DF	N/A
LOG MEASURED FROM	G.L.	ELEVATION GL	N/A
DRI MEASURED FROM	G.L.		
DATE	06/27/06		
DEPTH DRILLER	179		
BIT SIZE	13.335		
LOG TOP	0.25		
LOG BOTTOM	178.98		
CASING OD	17.78		
CASING ID	3		
CASING TYPE	STEEL		
BOREHOLE FLUID	WATER		
RM TEMPERATURE	N/A		
MUD RES	N/A		
MUD WEIGHT			
RECORDED BY	R HECK		
REMARKS 1	5 1/4" BIT TO TD		
REMARKS 2			

GAMMA NEUTRON RH #28-73 06/27/06

MATRIX DENSITY : 2.68	LOG PARAMETERS	MATRIX DELTA T : 140
MAGNETIC DECL : 17.0	NEUTRON MATRIX : SANDSTONE	BIT SIZE : 13.335
	ELECT. CUTOFF : 99999	



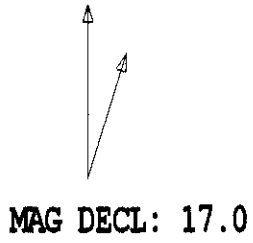
GAMMA NEUTRON RH #28-73 06/27/06

MATRIX DENSITY : 2.68	LOG PARAMETERS	MATRIX DELTA T : 140
MAGNETIC DECL : 17.0	NEUTRON MATRIX : SANDSTONE	BIT SIZE : 13.335
	ELECT. CUTOFF : 99999	

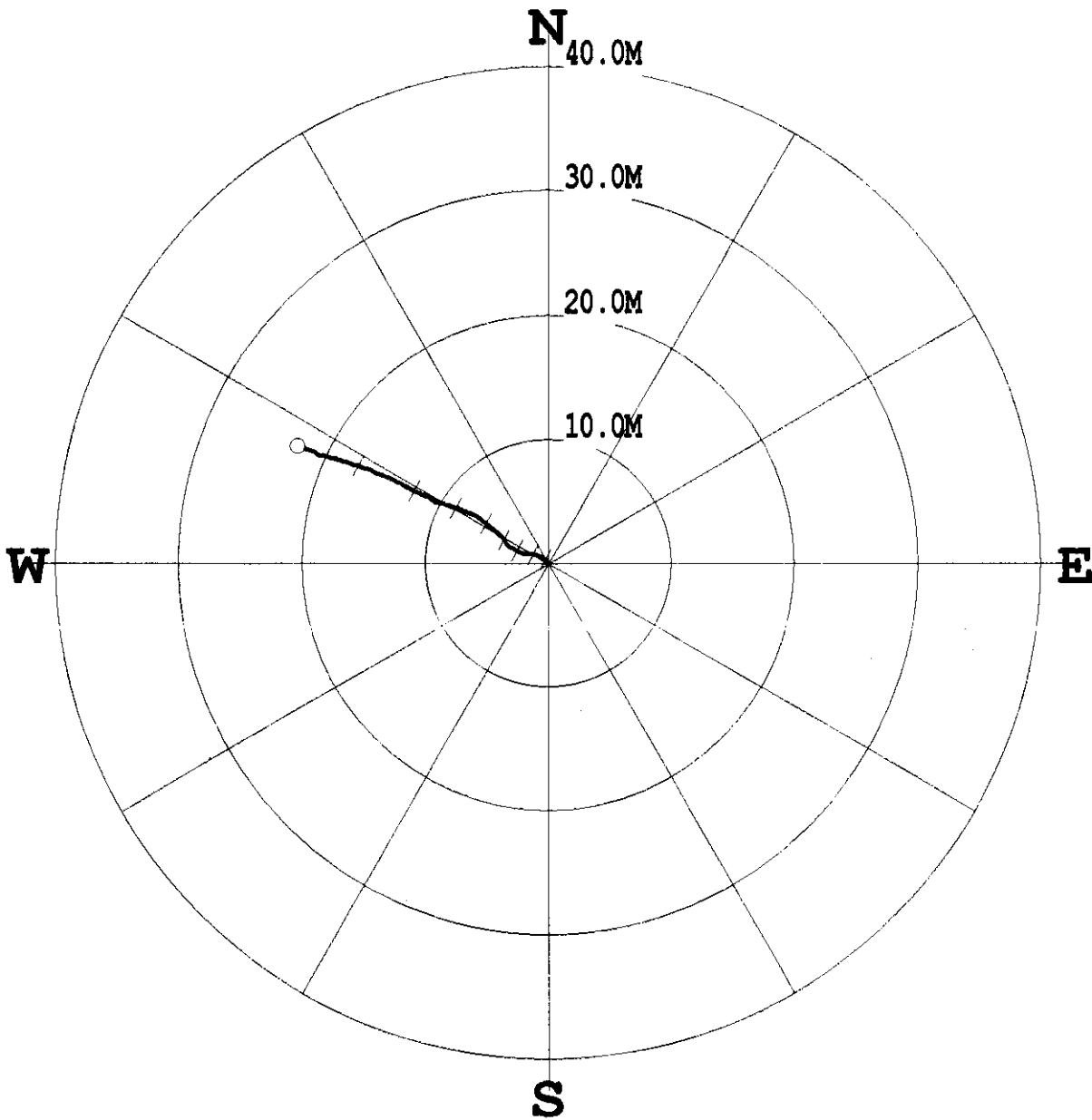
TOOL CALIBRATION RH #28-73 06/27/06 09:30			
TOOL 9057A			
SERIAL NUMBER 1087			
DATE	TIME	SENSOR	STANDARD
1	May22.06	15:03:18	GAMMA 0.000 [API-GR]
2	May22.06	15:03:18	GAMMA 325.000 [API-GR]
3	Oct24.05	21:50:54	NEUTRON Default [CPS]
4	Oct24.05	21:50:54	NEUTRON 152.000 [API-N]
5	Dec01.05	21:21:19	SP Default [CPS]
6	Dec01.05	21:21:19	RES(16N) Default [CPS]
7	Dec01.05	21:54:52	RES(16N) Default [CPS]
8	Dec01.05	21:55:00	RES(64N) Default [CPS]
9	Dec01.05	21:55:00	RES(64N) Default [CPS]
10	Dec01.05	21:55:07	TEMP Default [CPS]
11	Dec01.05	21:55:07	TEMP Default [CPS]
12	Dec01.05	21:55:17	RES Default [CPS]
13	Dec01.05	21:55:17	RES Default [CPS]
14	Apr12.02	00:42:07	POR(NEU) 100.000 [PERCENT]

PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION: N/A
 HOLE ID: RH #28-73
 DATE OF LOG: 06/27/06
 PROBE: 9057A 1067



SCALE: 5 M/CM
 TRUE DEPTH: 176.55 M
 AZIMUTH: 294.9
 DISTANCE: 22.4 M
 + = 20 M INCR
 ○ = BOTTOM OF HOLE



* * * * * COMPU-LOG - VERTICAL DEVIATION * * * * *

CLIENT : ELK VALLEY COAL HOLE ID. : RH #28-73
 FIELD OFFICE : DATE OF LOG : 06/27/06
 DATA FROM : N/A PROBE : 9057A , 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: \RH#28-73_06-27-06_09-30_9057A_.02_3.00_178.98_DEVI.log

TRUE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
3.0	3.02	0.00	-0.00	0.0	326.4	0.7	326.4
13.0	13.00	0.17	-0.08	0.2	335.6	1.5	325.0
23.0	22.99	0.43	-0.35	0.6	320.6	2.8	304.0
33.0	32.98	0.65	-0.83	1.1	308.3	3.4	278.7
43.0	42.96	0.80	-1.42	1.6	299.5	3.5	299.6
53.0	52.94	0.85	-2.08	2.2	292.1	4.3	267.2
63.0	62.91	1.17	-2.74	3.0	293.0	4.2	309.6
73.0	72.88	1.50	-3.35	3.7	294.1	3.8	311.8
83.0	82.85	2.13	-3.76	4.3	299.5	4.8	310.6
93.0	92.81	2.76	-4.45	5.2	301.9	6.4	308.4
103.0	102.75	3.44	-5.31	6.3	302.9	6.5	297.3
113.0	112.65	4.13	-6.46	7.7	302.5	8.3	293.1
123.0	122.53	4.65	-7.90	9.2	300.5	9.4	295.3
133.0	132.37	5.23	-9.50	10.8	298.8	10.9	311.1
143.0	142.17	6.12	-11.29	12.8	298.5	12.4	303.5
153.0	151.89	7.12	-13.38	15.2	298.0	14.6	293.0
163.0	161.52	8.00	-15.85	17.8	296.8	15.8	276.6
173.0	171.06	8.80	-18.72	20.7	295.2	17.7	304.6
178.8	176.55	9.44	-20.33	22.4	294.9	18.7	280.9

Century-geo.com

RH #28-74

OTHER SERVICES
905
906
909

COMPANY : ELWALLEY COAL
WELL : RH2874

MUNICIPALITY : ELWALTON
PROVINCE : BRITISH COLUMBIA

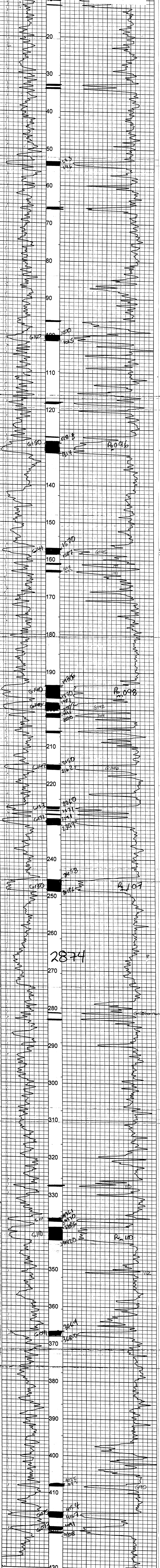
LOCATION : CASTLE MTN
SECTION : 275949E

TOWNSHIP :
RANGE : 141.009.1N
1702.7 W

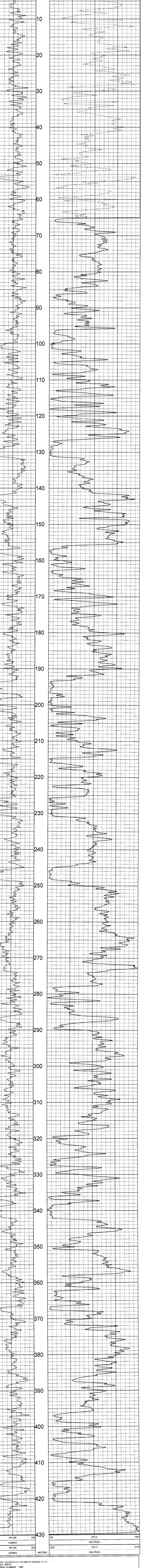
APN NO. :
UNIQUE WELL ID :
PERMITS/REG DATA :
LOG MEASURED FROM: O.I.
OPE. MEASURED FROM: O.I.
ELEVATION OF: ELWALTON O.I.

2874

LOGS TOP : 0.35
LOGS BOTTOM : 429.98
CASINGS CD : 1778
CASINGS BOTTOM : 6
CASING TYPE : STEEL
JOINTHOLE FLUID : WATER
M TEMPERATURE :
AUX RES :
AUX WEIGHT :
RECORDED BY : RHECK
REMARKS 1 : 0186 0186 0186
REMARKS 2 :
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



century-geo.com		OTHER SERVICES
COMPANY	ELK VALLEY COAL	9907
WELL	RH #28-74	9904
FIELD	ELKFIELD	
MUNICIPALITY	BRITISH COLUMBIA	
PROVINCE	CASTLE MOUNTAIN	
SECTION		
TOWNSHIP		
RANGE		
API NO		
UNIQUE WELL ID		
PERMANENT DATA	G.L.	ELEVATION OF
LOG MEASURED FROM	G.L.	ELEVATION OF
DATE	05/28/06	
DRM MEASURED FROM		
DEPTH DRILLER	430	
BIT SIZE	13.35	
LOG TOP	0.37	
LOG BOTTOM	430.02	
CASING OD	17.75	
CASING BOTTOM	6	
RODHOLES FLUID	WATER	
RODHOLES TYPE	STEEL	
HM TEMPERATURE		
HM RES		
HM WEIGHT		
RECORDED BY	R.HECK	
REMARKS 1		
REMARKS 2		

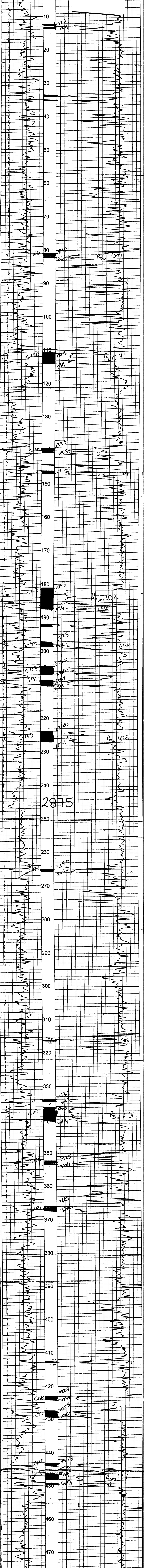


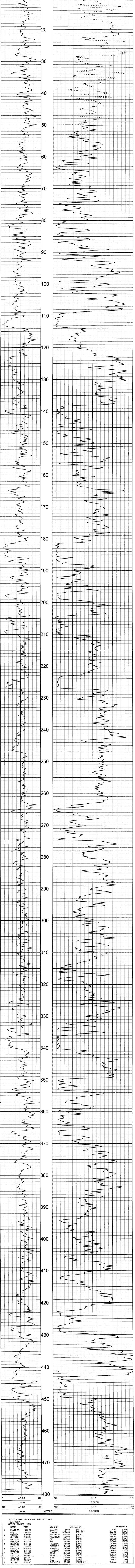
TOOL CALIBRATION RH#28-74 05/26/06 14:10
TOOL 9057A
SERIAL NUMBER 1067

DATE	TIME	SENSOR	STANDARD	RESPONSE
1	May22.06 15:03:18	GAMMA	0.000 [API-GR]	1.00 (CPS)
	May22.06 15:03:18	GAMMA	325.000 [API-GR]	325.00 (CPS)
2	Oct24.05 21:50:54	NEUTRON	Default (CPS)	Default (CPS)
	Oct24.05 21:50:54	NEUTRON	152.000 [API-N]	167.00 (CPS)
3	Dec01.05 21:21:19	SP	Default (CPS)	Default (CPS)
	Dec01.05 21:21:19	SP	Default (CPS)	Default (CPS)
4	Dec01.05 21:54:52	RES(16N)	Default (CPS)	Default (CPS)
	Dec01.05 21:54:52	RES(16N)	Default (CPS)	Default (CPS)
5	Dec01.05 21:55:00	RES(64N)	Default (CPS)	Default (CPS)
	Dec01.05 21:55:00	RES(64N)	Default (CPS)	Default (CPS)
6	Dec01.05 21:55:07	TEMP	Default (CPS)	Default (CPS)
	Dec01.05 21:55:07	TEMP	Default (CPS)	Default (CPS)
7	Dec01.05 21:55:17	RES	Default (CPS)	Default (CPS)
	Dec01.05 21:55:17	RES	Default (CPS)	Default (CPS)
8	Apr12.02 00:42:07	POR(NEU)	100.000 [PERCENT]	178.00 (CPS)

COMPANY : EMERALD COAL
WELL : RH2875
LOCALITY : ELMFORD
SECTION : CASTLE MTN
TOWNSHIP : BRITISH COLUMBIA
RANGE : 2755785
ELEVATION: 1722.4
UNIQUE WELL ID :
ELEVATION: 14166.2N

RESISTIVITY LOG :
LOG MEASURED FROM : G.L.
DATE MEASURED FROM : G.L.
ELEVATION: G.L.
DATE : 06/08
DEPTH DRILLER : 403
BT SIZE : 13.53
LOG TOP : 0.40
LOG BOTTOM : 4178
CASING OD : 1778
CASING TYPE : 3
CASING BOTTOM :
BORNEO FLUID : WATER
RAM TEMPERATURE :
MUD RES :
MUD WEIGHT :
RECORDED BY :
REVISIONS :
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



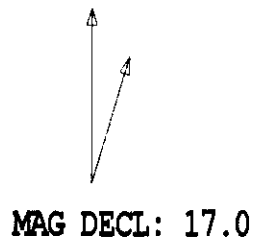


TOOL CALIBRATION RH #28-75 08/05/06 16:49
TOOL 9057A
SERIAL NUMBER 1057

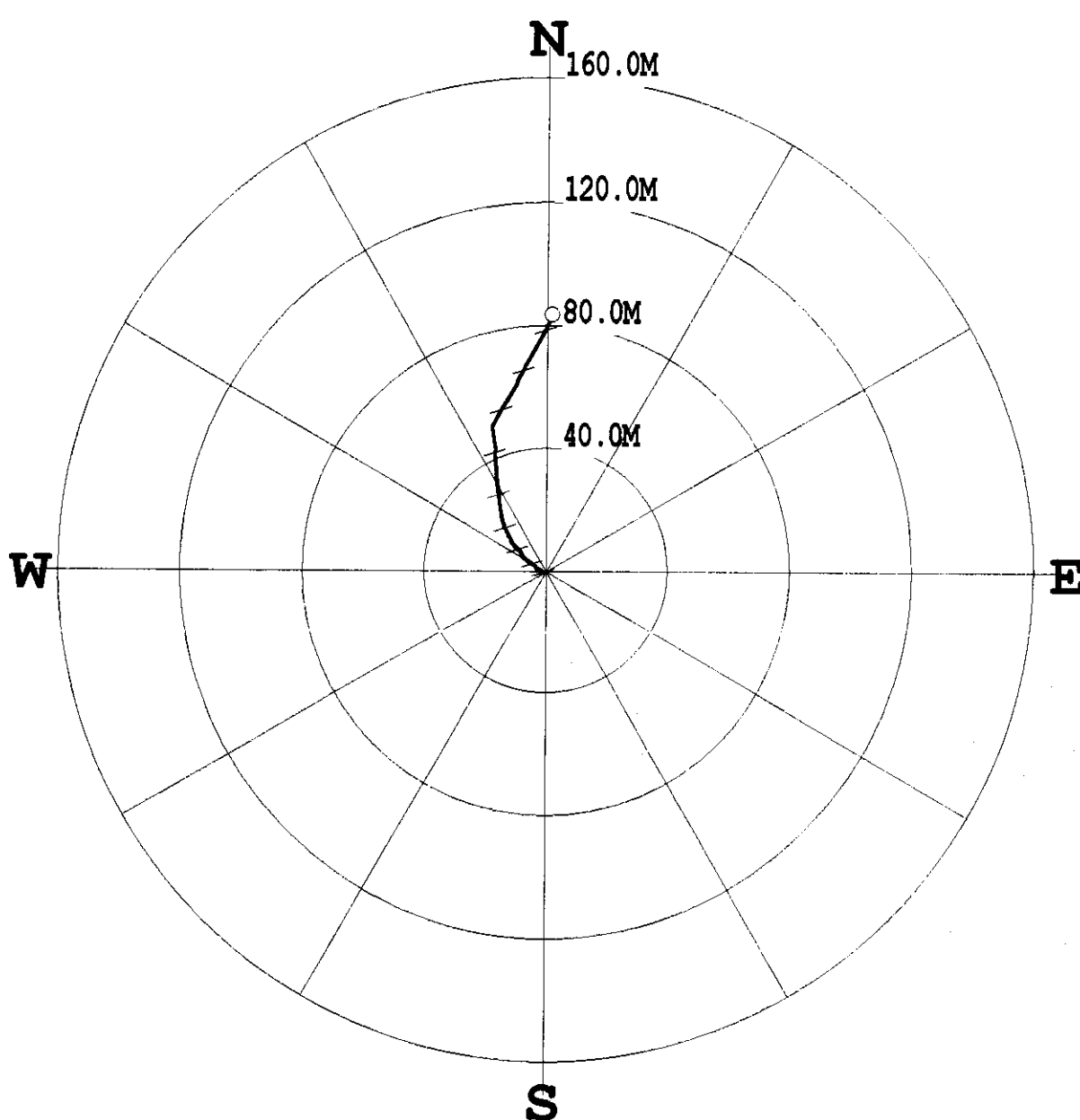
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	May22.06 15:03:18	GAMMA	0.000 [API-GR]	1.00 [CPS]
2	May22.06 15:03:18	GAMMA	325.000 [API-GR]	325.00 [CPS]
3	Oct24.05 21:50:54	NEUTRON	Default [CPS]	Default [CPS]
4	Oct24.05 21:50:54	NEUTRON	152.000 [API-N]	187.00 [CPS]
5	Dec01.05 21:21:19	SP	Default [CPS]	Default [CPS]
6	Dec01.05 21:21:19	SP	Default [CPS]	Default [CPS]
7	Dec01.05 21:54:52	RES(16N)	Default [CPS]	Default [CPS]
8	Dec01.05 21:54:52	RES(16N)	Default [CPS]	Default [CPS]
9	Dec01.05 21:55:00	RES(64N)	Default [CPS]	Default [CPS]
10	Dec01.05 21:55:00	RES(64N)	Default [CPS]	Default [CPS]
11	Dec01.05 21:55:07	TEMP	Default [CPS]	Default [CPS]
12	Dec01.05 21:55:07	RES	Default [CPS]	Default [CPS]
13	Dec01.05 21:55:17	RES	Default [CPS]	Default [CPS]
14	Dec01.05 21:55:17	RES	Default [CPS]	Default [CPS]
15	Apr12.02 00:42:07	POR(NEU)	100.000 [PERCENT]	178.00 [CPS]

PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION:
 HOLE ID: RH #28-75
 DATE OF LOG: 06/05/06
 PROBE: 9057A 1067



SCALE: 20 M/CM
 TRUE DEPTH: 468.44 M
 AZIMUTH: 1.1
 DISTANCE: 83.4 M
 + = 50 M INCR
 ○ = BOTTOM OF HOLE



* * * * * COMPU-LOG - VERTICAL DEVIATION * * * * *

CLIENT : ELK VALLEY COAL HOLE ID. : RH #28-75
 FIELD OFFICE : DATE OF LOG : 06/05/06
 DATA FROM : PROBE : 9057A , 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: \RH#28-75_06-05-06_16-49_9057A_.02_4.00_480.43_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
4.0	4.02	0.00	-0.00	0.0	329.1	0.3	329.1
14.0	14.00	0.03	0.02	0.0	35.2	0.4	339.6
24.0	24.00	0.05	-0.07	0.1	303.2	1.0	232.3
34.0	33.99	-0.15	-0.29	0.3	243.4	1.8	220.8
44.0	43.98	-0.16	-0.74	0.8	257.8	2.9	270.3
54.0	53.97	-0.14	-1.20	1.2	263.2	3.4	296.3
64.0	63.95	0.17	-1.78	1.8	275.4	4.3	276.0
74.0	73.91	0.53	-2.53	2.6	281.9	5.1	297.3
84.0	83.85	1.24	-3.27	3.5	290.8	7.2	329.0
94.0	93.78	2.22	-3.96	4.5	299.3	6.8	309.3
104.0	103.70	2.88	-4.95	5.7	300.2	7.5	291.8
114.0	113.62	3.58	-6.02	7.0	300.7	6.9	298.5
124.0	123.52	4.40	-7.09	8.3	301.8	7.8	313.4
134.0	133.43	5.46	-7.87	9.6	304.7	7.9	354.0
144.0	143.33	6.57	-8.66	10.9	307.2	8.2	314.7
154.0	153.22	7.58	-9.69	12.3	308.0	8.6	313.3
164.0	163.11	8.63	-10.70	13.7	308.9	8.7	326.3
174.0	172.99	9.93	-11.51	15.2	310.8	8.9	323.1
184.0	182.86	11.40	-12.23	16.7	313.0	9.6	335.9
194.0	192.70	12.95	-12.98	18.3	314.9	10.0	328.4
204.0	202.53	14.64	-13.72	20.1	316.8	11.7	337.9
214.0	212.34	16.46	-14.37	21.9	318.9	12.2	351.2
224.0	222.12	18.49	-14.80	23.7	321.3	12.4	345.2
234.0	231.88	20.61	-15.14	25.6	323.7	13.2	359.9
244.0	241.61	22.83	-15.37	27.5	326.1	13.3	349.7
254.0	251.32	25.19	-15.74	29.7	328.0	14.5	352.4
264.0	260.99	27.70	-16.12	32.1	329.8	15.2	352.8
274.0	270.64	30.30	-16.44	34.5	331.5	15.7	356.5
284.0	280.28	32.95	-16.58	36.9	333.3	15.5	353.0
294.0	289.90	35.68	-16.79	39.4	334.8	16.1	353.4
304.0	299.51	38.40	-17.01	42.0	336.1	16.1	353.7
314.0	309.13	41.10	-17.03	44.5	337.5	15.9	351.0
324.0	318.73	43.84	-17.45	47.2	338.3	15.0	348.1
334.0	328.33	46.62	-17.82	49.9	339.1	16.0	353.4
344.0	337.90	49.24	-16.81	52.0	341.2	17.2	29.9
354.0	347.45	51.85	-15.37	54.1	343.5	15.9	27.7
364.0	357.01	54.36	-13.89	56.1	345.7	17.2	30.9
374.0	366.60	56.81	-12.45	58.2	347.6	16.8	27.4
384.0	376.18	59.29	-10.98	60.3	349.5	16.3	26.7
394.0	385.75	61.84	-9.69	62.6	351.1	16.0	357.5
404.0	395.34	64.34	-8.48	64.9	352.5	16.3	33.5
414.0	404.94	66.82	-7.28	67.2	353.8	16.6	22.8
424.0	414.53	69.25	-5.84	69.5	355.2	15.8	34.1
434.0	424.13	71.68	-4.46	71.8	356.4	16.3	31.5
444.0	433.73	74.11	-3.06	74.2	357.6	16.2	24.3
454.0	443.32	76.59	-1.68	76.6	358.7	16.7	30.2
464.0	452.88	79.15	-0.28	79.1	359.8	17.1	27.3
474.0	462.44	81.74	1.00	81.7	0.7	17.5	29.8
480.3	468.44	83.41	1.56	83.4	1.1	16.2	356.1

Century-geo.com
RH #28-76

OTHER SERVICES:
9001
9007
9004

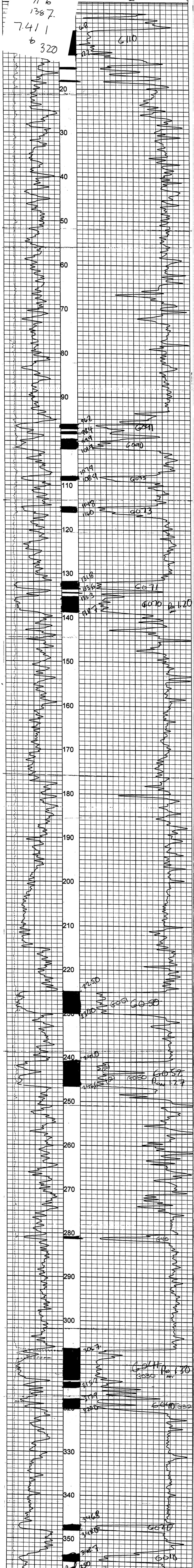
COMPANY: ELK VALLEY COAL
WELL: RH #28-76
FIELD: ELK FORD
MUNICIPALITY: BRITISH COLUMBIA
LOCATION: CASTLE Mtn.
SECTION: 2876
TOWNSHIP: 1418 N. 475
RANGE: 147 W. 74

PREPARMENT DATA:
LINKAGE WELL ID:
LOG MEASURED FROM: G.L.
DATE: 06/08/06
DEPTH DRILLER: 39
BIT SIZE: 13.35

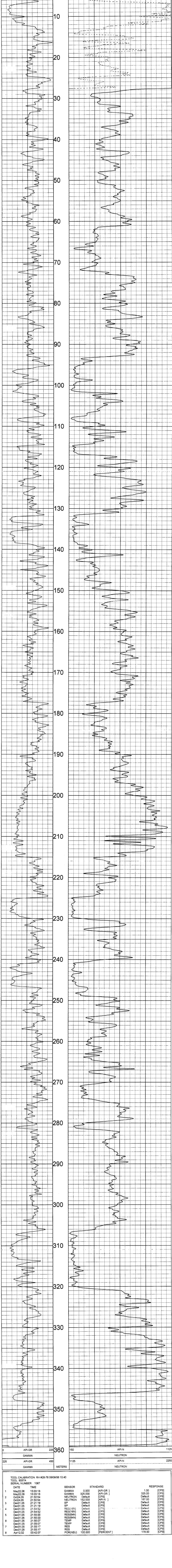
ELEVATION 85
ELEVATION OF:
ELEVATION OF:
LOG MEASURED FROM: G.L.
DATE: 06/08/06
DEPTH DRILLER: 39
BIT SIZE: 13.35

LOG TOP: 0.31
LOG BOTTOM: 369.39
CASING OD: 17.78
CASING BOTTOM: 15
CASING TYPE: STEEL
BOREHOLE FLUID: WATER
FLUID TEMPERATURE:
MUD RES:
MUD WEIGHT:
RECORDED BY: R. BECK
REMARKS 1: 11/27 TO 11/44, 5/14, *10.29M. SURF TO TD
REMARKS 2: 26-06-02

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



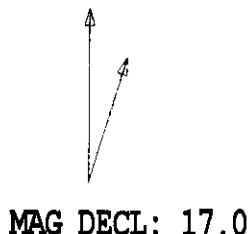
century-geo.com	EL VALLEY COAL	OTHER SERVICES
WELL : RH#28-76		9901
MUNICIPALITY : ELIZABETH		9907
PROVINCE : BRUNSWICK-COLUMBIA		9034
LOCATION : CASTLE MTN		
SECTION :		
TOWNSHIP :		
RANGE :		
API NO. :		
UNIQUE WELL ID. :		
PERMANENT DATUM :	ELEVATION REF. :	
LOG MEASURED FROM : G.L.	ELEVATION OF :	
DATE : 06/29/06		
DEPTH DRIPLER : 3639		
BIT SIZE : 13.335		
LOG TOP : 0.33		
LOG BOTTOM : 365.19		
CASING OD : 17.78		
CASING BOTTOM : 15		
BORING TYPE : STEEL		
BORING FLUID : WATER		
RM TEMPERATURE :		
MUD RES :		
MUD WEIGHT :		
RECORDED BY : R HECK		
REMARKS 1 : 512' BIT TO 114 M 514' TO 239 M 518' TO TD		
REMARKS 2 :		
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS		



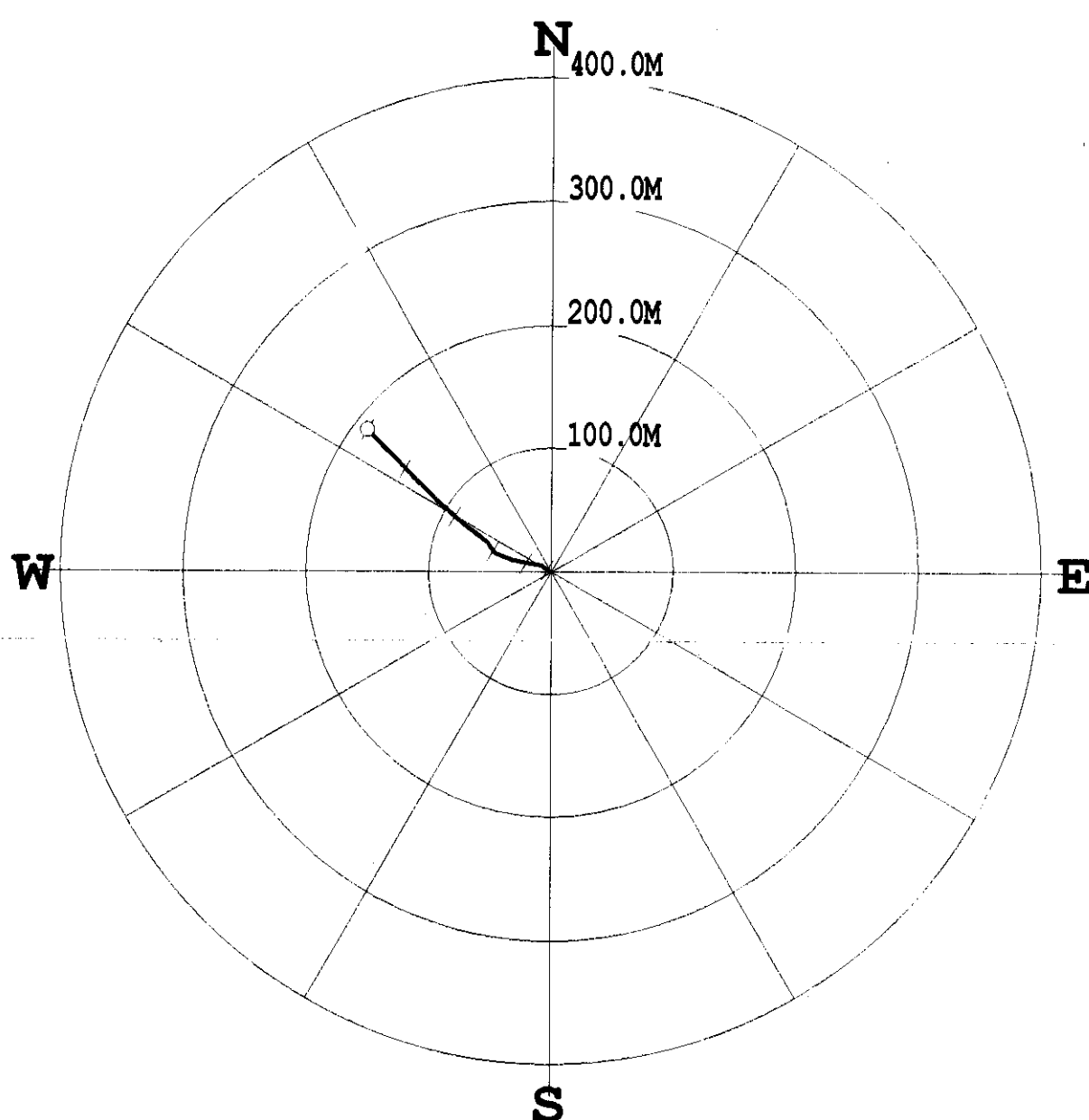
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	May22.06 15:03:18	GAMMA	0.000 [API-GR]	1.00 [CPS]
2	May22.06 15:03:18	GAMMA	325.000 [API-GR]	325.00 [CPS]
3	Oct24.05 21:50:54	NEUTRON	Default [CPS]	Default [CPS]
4	Oct24.05 21:50:54	NEUTRON	152.000 [API-N]	167.00 [CPS]
5	Dec01.05 21:21:19	SP	Default [CPS]	Default [CPS]
6	Dec01.05 21:21:19	SP	Default [CPS]	Default [CPS]
7	Dec01.05 21:54:52	RES(16N)	Default [CPS]	Default [CPS]
8	Dec01.05 21:54:52	RES(16N)	Default [CPS]	Default [CPS]
9	Dec01.05 21:55:00	RES(64N)	Default [CPS]	Default [CPS]
10	Dec01.05 21:55:00	RES(64N)	Default [CPS]	Default [CPS]
11	Dec01.05 21:55:07	TEMP	Default [CPS]	Default [CPS]
12	Dec01.05 21:55:07	TEMP	Default [CPS]	Default [CPS]
13	Dec01.05 21:55:17	RES	Default [CPS]	Default [CPS]
14	Dec01.05 21:55:17	RES	Default [CPS]	Default [CPS]
15	Apr12.02 00:42:07	POR(NEU)	100.000 [PERCENT]	178.00 [CPS]

PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION:
 HOLE ID: RH #28-76
 DATE OF LOG: 06/09/06
 PROBE: 9057A 1067



SCALE: 50 M/CM
 TRUE DEPTH: 283.89 M
 AZIMUTH: 307.4
 DISTANCE: 188.7 M
 + = 50 M INCR
 ○ = BOTTOM OF HOLE



* * * * * COMPU-LOG - VERTICAL DEVIATION * * * * *

CLIENT : ELK VALLEY COAL HOLE ID. : RH #28-76
 FIELD OFFICE : DATE OF LOG : 06/09/06
 DATA FROM : PROBE : 9057A , 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: \RH#28-76_06-09-06_10-40_9057A_.02_4.00_359.19_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
4.0	4.02	0.00	0.00	0.0	4.3	0.6	4.3
14.0	14.00	0.12	-0.03	0.1	346.9	1.3	325.4
24.0	23.99	0.40	-0.36	0.5	318.3	3.4	299.0
34.0	33.96	0.67	-1.06	1.3	302.2	5.6	292.6
44.0	43.88	1.08	-2.22	2.5	295.8	8.8	295.1
54.0	53.68	2.17	-3.80	4.4	299.7	13.5	314.1
64.0	63.31	3.89	-5.88	7.0	303.5	17.6	304.6
74.0	72.69	5.50	-8.81	10.4	302.0	21.7	281.1
84.0	81.95	6.09	-12.40	13.8	296.2	20.8	277.1
94.0	91.07	6.79	-16.34	17.7	292.6	25.3	281.8
104.0	100.07	7.51	-20.53	21.9	290.1	24.9	270.4
114.0	108.95	8.34	-24.96	26.3	288.5	28.3	285.2
124.0	117.71	9.47	-29.59	31.1	287.7	28.9	275.9
134.0	126.38	10.73	-34.09	35.7	287.5	30.5	290.6
144.0	134.91	12.56	-38.96	40.9	287.9	32.5	285.4
154.0	143.28	14.69	-43.98	46.4	288.5	33.9	293.9
164.0	151.47	18.16	-47.84	51.2	290.8	36.5	325.5
174.0	159.40	22.90	-51.21	56.1	294.1	38.9	329.4
184.0	167.23	26.93	-55.75	61.9	295.8	38.9	307.1
194.0	174.91	30.77	-60.70	68.1	296.9	41.3	307.6
204.0	182.41	34.70	-66.00	74.6	297.7	40.9	302.7
214.0	189.83	38.70	-71.26	81.1	298.5	42.7	322.5
224.0	197.08	43.21	-76.35	87.7	299.5	44.6	307.9
234.0	204.22	47.78	-81.58	94.5	300.4	46.1	312.5
244.0	211.21	52.43	-86.88	101.5	301.1	45.5	308.2
254.0	218.12	57.11	-92.32	108.6	301.7	46.1	310.6
264.0	224.87	62.15	-97.64	115.7	302.5	48.0	311.5
274.0	231.46	67.36	-103.04	123.1	303.2	49.3	311.9
284.0	237.91	72.61	-108.50	130.6	303.8	50.6	315.8
294.0	244.18	78.13	-113.95	138.2	304.4	51.7	313.1
304.0	250.25	83.86	-119.41	145.9	305.1	53.1	313.6
314.0	256.31	89.41	-125.05	153.7	305.6	52.7	313.2
324.0	262.42	94.92	-130.65	161.5	306.0	52.0	320.4
334.0	268.59	100.40	-136.23	169.2	306.4	55.1	320.6
344.0	274.71	106.05	-141.76	177.0	306.8	52.3	315.5
354.0	280.83	111.73	-147.20	184.8	307.2	52.1	322.1
359.0	283.89	114.65	-149.86	188.7	307.4	53.0	318.3

RH28-78

2878

OTHER SERVICES

EX WILLY COAL
RIVER 78
TOWNSHIP
RANGE
APN NO.
UNIQUE WELL ID.

27030 087
14143 826
1652 528

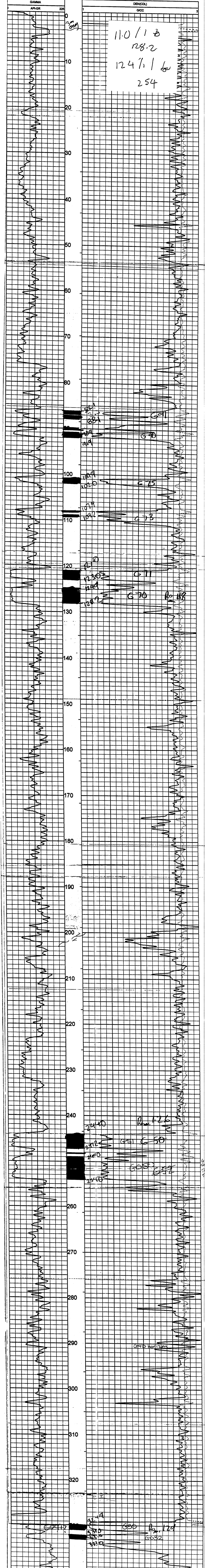
COMPANY :
WELL :
FIELD :
MUNICIPALITY :
PROVINCE :
LOCATION :
SECTION :
TOWNSHIP :
RANGE :
APN NO. :
UNIQUE WELL ID. :

PERMANENT DATA :
LOG MEASURED FROM :
DRL MEASURED FROM :
DATE :
DEPTH (MILLER) :
BTL SIZE :
LOG TOP :
LOG BOTTOM :

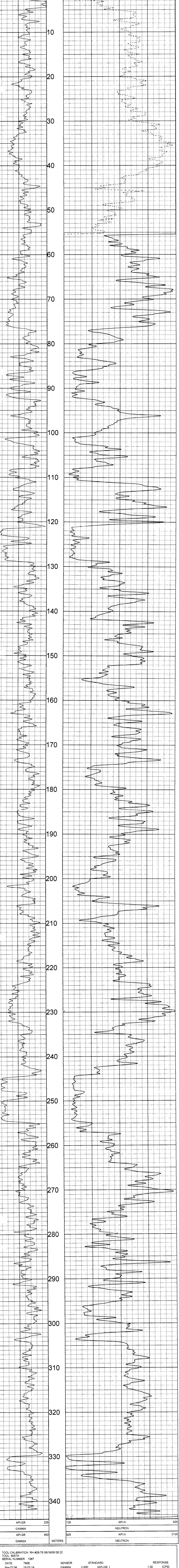
ELEVATION (M) :
ELEVATION (F) :
ELEVATION (M) :
ELEVATION (F) :

CASING TYPE :
CASING OD :
BORERHOLE FLUID :
MUD RES :
MUD WEIGHT :
RECORDED BY :
REMARKS 1 :
REMARKS 2 :

STEEL :
WATER :
NA :
NA :
NA :
B. BEHINGER :
21-08-06



Century-geo.com		OTHER SERVICES: 9061 9067 9239	
COMPANY	ELK VALLEY COAL	WELL	RH #28-78
FIELD	ELK FORD	MUNICIPALITY	BRITISH COLUMBIA
PROVINCE	CASTLE MTN	LOCATION	
SECTION		TOWNSHIP	
RANGE		API NO.	
UNIQUE WELL ID		ELEVATION NS	
PERMANENT DATA	G.L.	ELEVATION DF	
LOG MEASURED FROM	G.L.	ELEVATION GL	
DATE	08/19/06		
DEPTH DRILLER	344		
BIT SIZE	13.335		
LOG TOP	0.34		
LOG BOTTOM	344.01		
CASING OD	17.78		
CASING BOTTOM	3		
BORHOLE FLUID	WATER		
BM TEMPERATURE			
MUD RES			
MUD WEIGHT			
RECORDED BY	R HECK		
REMARKS 1	51/4 BIT TO 192 M 51/4 ROCK BIT TO TD		
REMARKS 2			

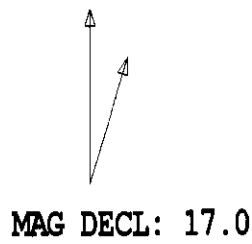


TOOL CALIBRATION RH #28-78 06/19/06 08:22
TOOL 9057A
SERIAL NUMBER 1087

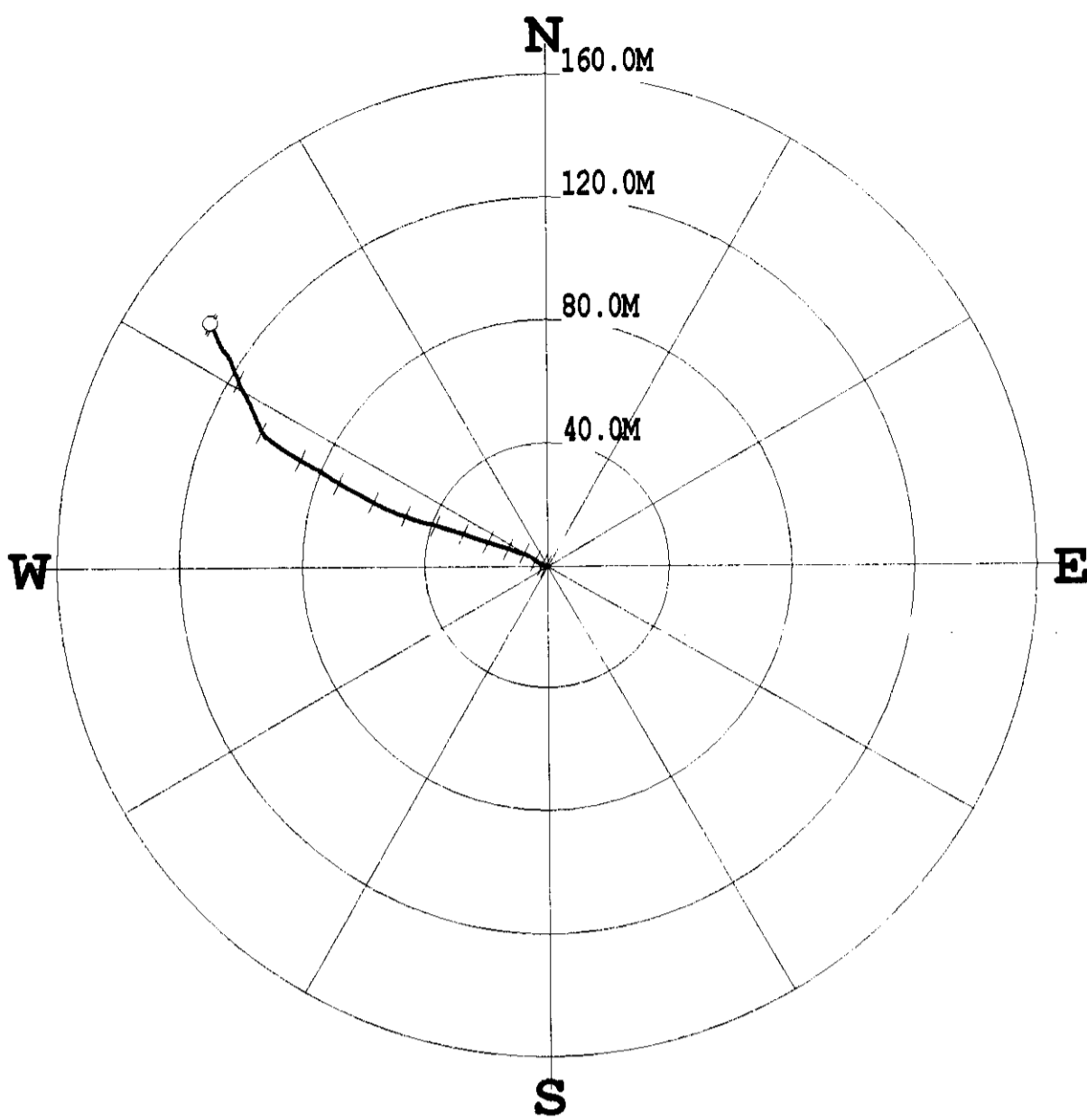
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	May22,06 15:03:18	GAMMA	0.000 [API-GR]	1.00 (CPS)
1	May22,06 15:03:18	GAMMA	325.000 [API-GR]	325.00 (CPS)
2	Oct24,05 21:50:54	NEUTRON	Default (CPS)	Default (CPS)
2	Oct24,05 21:50:54	NEUTRON	152.000 [API-N]	187.00 (CPS)
3	Dec01,05 21:21:19	SP	Default (CPS)	Default (CPS)
3	Dec01,05 21:21:19	SP	Default (CPS)	Default (CPS)
4	Dec01,05 21:54:52	RES(16N)	Default (CPS)	Default (CPS)
4	Dec01,05 21:54:52	RES(16N)	Default (CPS)	Default (CPS)
5	Dec01,05 21:55:00	RES(64N)	Default (CPS)	Default (CPS)
5	Dec01,05 21:55:00	RES(64N)	Default (CPS)	Default (CPS)
6	Dec01,05 21:55:07	TEMP	Default (CPS)	Default (CPS)
6	Dec01,05 21:55:07	TEMP	Default (CPS)	Default (CPS)
7	Dec01,05 21:55:17	RES	Default (CPS)	Default (CPS)
7	Dec01,05 21:55:17	RES	Default (CPS)	Default (CPS)
8	Apr12,02 00:42:07	FOR(NEU)	100.000 [PERCENT]	178.00 (CPS)

PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION:
 HOLE ID: RH #28-78
 DATE OF LOG: 06/19/06
 PROBE: 9057A 1067



SCALE: 20 M/CM
 TRUE DEPTH: 300.83 M
 AZIMUTH: 305.8
 DISTANCE: 135.0 M
 + = 20 M INCR
 ○ = BOTTOM OF HOLE



* * * * * COMPU-LOG - VERTICAL DEVIATION * * * * *

CLIENT : ELK VALLEY COAL HOLE ID. : RH #28-78
 FIELD OFFICE : DATE OF LOG : 06/19/06
 DATA FROM : PROBE : 9057A , 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: \RH#28-78_06-19-06_08-22_9057A_.02_4.00_344.01_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
4.0	4.02	0.00	-0.00	0.0	326.2	1.7	326.2
14.0	13.99	0.17	-0.31	0.4	298.6	2.4	242.2
24.0	23.98	0.20	-0.68	0.7	286.1	2.3	280.1
34.0	33.97	0.39	-1.21	1.3	287.9	4.1	283.0
44.0	43.93	0.82	-2.00	2.2	292.3	6.4	301.2
54.0	53.85	1.41	-3.11	3.4	294.4	8.7	299.4
64.0	63.70	2.44	-4.46	5.1	298.8	11.6	314.4
74.0	73.48	3.53	-6.20	7.1	299.7	12.8	289.0
84.0	83.21	4.28	-8.34	9.4	297.2	14.2	301.1
94.0	92.88	5.09	-10.72	11.9	295.4	15.3	284.0
104.0	102.44	6.03	-13.49	14.8	294.1	18.1	286.7
114.0	111.90	7.00	-16.55	18.0	292.9	20.3	301.0
124.0	121.25	8.06	-19.83	21.4	292.1	21.3	283.2
134.0	130.53	9.15	-23.39	25.1	291.4	23.0	286.9
144.0	139.67	10.47	-27.19	29.1	291.1	24.7	289.0
154.0	148.72	11.66	-31.24	33.3	290.5	26.0	289.6
164.0	157.69	13.02	-35.42	37.7	290.2	26.9	294.6
174.0	166.61	14.05	-39.75	42.2	289.5	26.8	281.2
184.0	175.53	15.35	-44.03	46.6	289.2	26.3	281.6
194.0	184.31	17.06	-48.43	51.3	289.4	29.4	290.7
204.0	192.98	18.96	-53.01	56.3	289.7	30.4	293.8
214.0	201.55	21.31	-57.48	61.3	290.3	31.8	298.5
224.0	209.97	23.95	-62.15	66.6	291.1	33.3	286.8
234.0	218.28	26.51	-66.99	72.1	291.6	34.8	308.9
244.0	226.46	29.61	-71.80	77.7	292.4	36.1	303.9
254.0	234.52	32.59	-76.87	83.5	293.0	35.3	304.5
264.0	242.52	35.60	-81.97	89.4	293.5	38.0	303.9
274.0	250.40	38.92	-87.11	95.4	294.1	38.7	307.3
284.0	258.10	42.78	-92.13	101.6	294.9	40.3	324.0
294.0	265.56	48.54	-94.92	106.6	297.1	40.8	303.0
304.0	272.89	54.58	-97.55	111.8	299.2	43.1	344.2
314.0	280.12	60.53	-100.42	117.3	301.1	45.3	4.6
324.0	287.15	66.94	-102.97	122.8	303.0	45.7	325.3
334.0	294.07	72.76	-106.53	129.0	304.3	46.6	320.6
344.0	300.99	79.07	-109.47	135.0	305.8	45.4	311.4
343.8	300.83	79.07	-109.47	135.0	305.8	45.4	311.4

COMPANY : ELK VALLEY COAL
 WELL : RH #28-79
 MUNICIPALITY : ELKFOORD
 LOCATION : BRITISH COLUMBIA
 PROVINCE : CASTLE MTN.
 SECTION :
 TOWNSHIP :
 RANGE :
 APN NO. :
 ELEVATION KE8 :
 ELEVATION DE :
 ELEVATION GE :

OTHER SERVICES :
 9061
 9067
 9034

2879
 26677.201
 142207.692
 1689.913

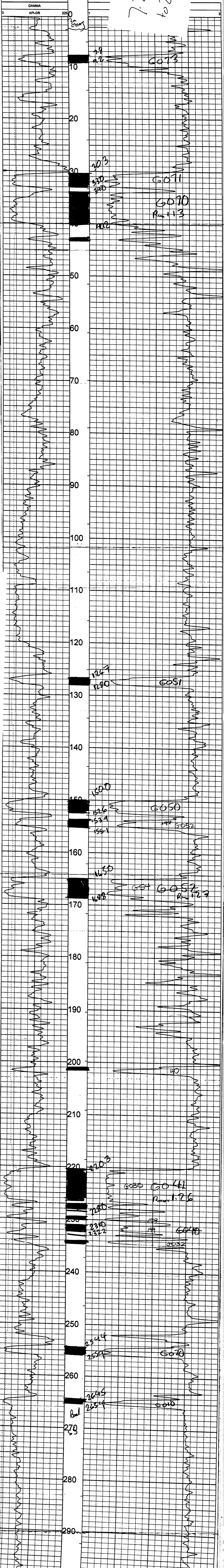
PERMANENT DATUM :
 LOG MEASURED FROM : G.L.
 DATE : 06/11/06
 DRILLER :
 BIT SIZE : 0.44
 LOG TOP : 314.5
 LOG BOTTOM : 313.18
 CASING OD : 0.44
 CASING BOTTOM : 314.50
 CASING CO : 317.28
 CASING TYPE : STEEL
 BOREHOLE FLUID : WATER
 BOREHOLE TEMPERATURE :
 MUD WEIGHT :
 MUD RES :
 R MEAS :
 RECORDED BY :
 MARKS 1 :
 MARKS 2 :

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

RECORDED BY :
 MARKS 1 :
 MARKS 2 :

GAMMA DENSITY RH #28-79 06/11/06

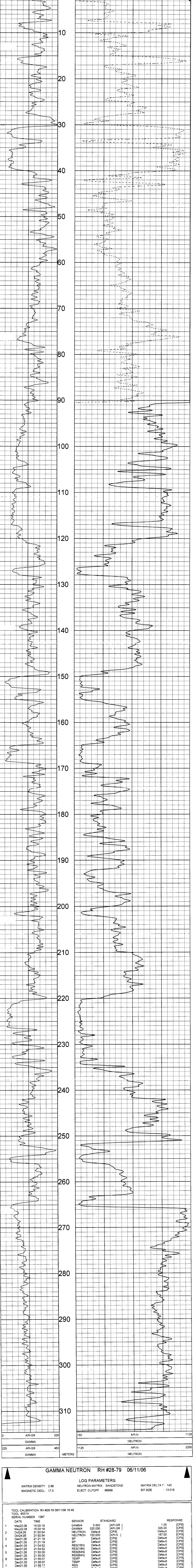
MATRIX DENSITY : 2.68
 MAGNETIC DECL : 17.0
 LOG PARAMETERS
 NEUTRON MATRIX : SANDSTONE
 ELECT. CUTOFF : 99999
 MATRIX DELTA T : 140
 BIT SIZE : 13.018



COMPANY	ELK VALLEY COAL	OTHER SERVICES	9091
WELL	RH #28-79	9091	9091
FIELD		9091	9091
MUNICIPALITY	ELK FORD	9034	9034
COUNTY	BRITISH COLUMBIA		
LOCATION	CASTLE MTN		
SECTION			
TOWNSHIP			
RANGE			
APRNG			
UNIQUE WELL ID.			
PERMIT/DATUM		ELEVATION RB	
LOG MEASURED FROM	G.L.	ELEVATION BF	
DATE	06/11/06	ELEVATION GL	
DEPTH DRILLER	314.5		
BIT SIZE	13.018		
LOG TOP	0.32		
LOG BOTTOM	314.50		
CASING OD	17.78		
CASING BOTTOM	3		
CASING TYPE	STEEL		
BOREHOLE FLUID	WATER		
FM TEMPERATURE			
MUD RES			
MUD WEIGHT			
RECORDED BY	R NECK		
REMARKS 1	512- BIT TO 114 M 514 - TO 298 M 516S TO TD		
REMARKS 2			

GAMMA NEUTRON RH #28-79 06/11/06

MATRIX DENSITY : 2.68	LOG PARAMETERS	MATRIX DELTA T : 140
MAGNETIC DECL : 17.0	NEUTRON MATRIX : SANDSTONE	BIT SIZE : 13.018
	ELECT. CUTOFF : 99999	



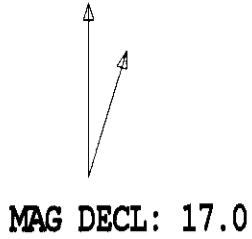
GAMMA NEUTRON RH #28-79 06/11/06

MATRIX DENSITY : 2.68	LOG PARAMETERS	MATRIX DELTA T : 140
MAGNETIC DECL : 17.0	NEUTRON MATRIX : SANDSTONE	BIT SIZE : 13.018
	ELECT. CUTOFF : 99999	

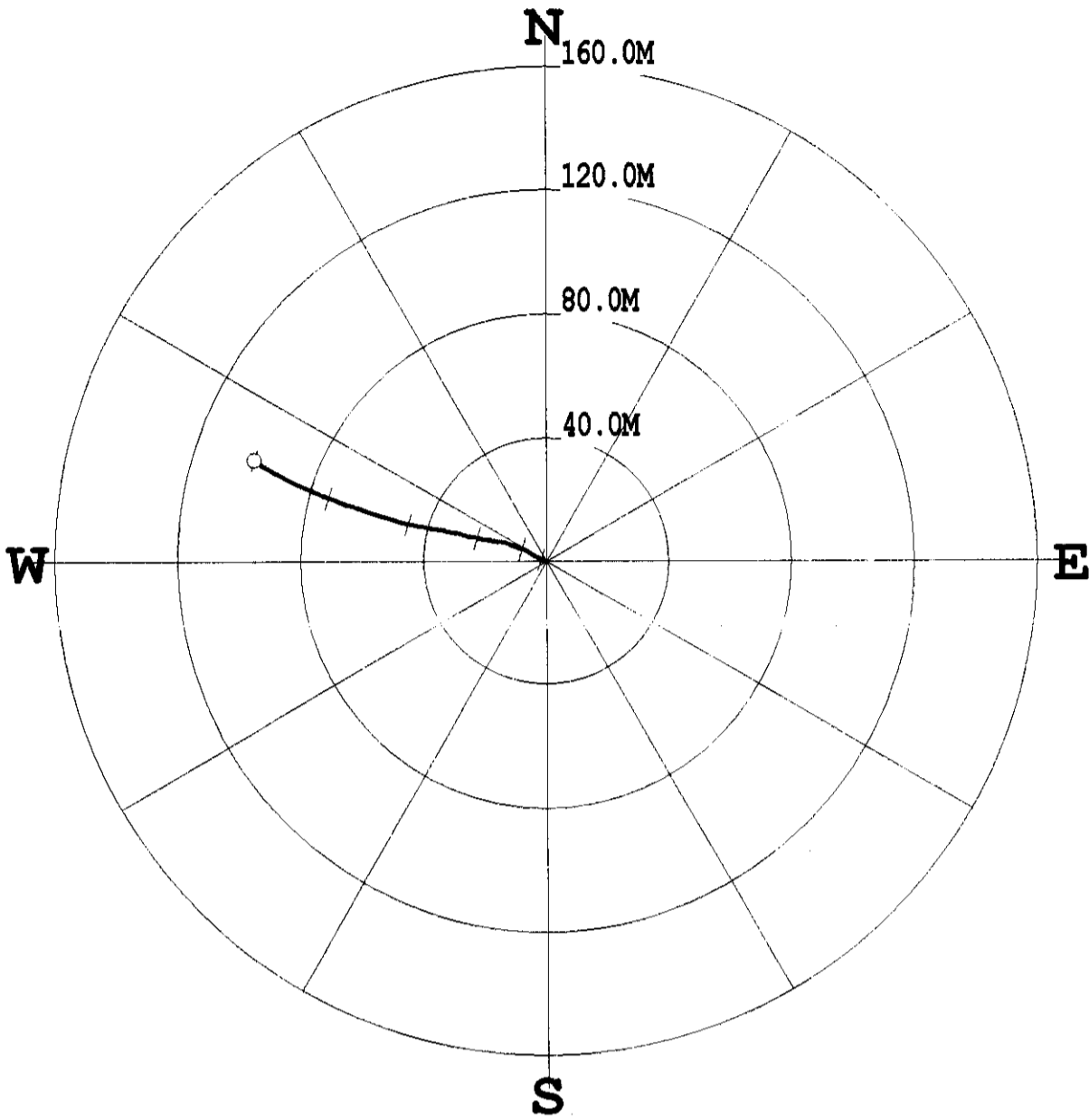
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	May22.06 15:03:18	GAMMA	0.000 [API-GR]	1.00 [CPS]
	May22.06 15:03:18	GAMMA	325.000 [API-GR]	325.00 [CPS]
2	Oct24.05 21:50:54	NEUTRON	Default [CPS]	Default [CPS]
3	Oct24.05 21:50:54	NEUTRON	152.000 [API-N]	167.00 [CPS]
4	Dec01.05 21:21:19	SP	Default [CPS]	Default [CPS]
5	Dec01.05 21:21:19	SP	Default [CPS]	Default [CPS]
6	Dec01.05 21:54:52	RES(16N)	Default [CPS]	Default [CPS]
7	Dec01.05 21:54:52	RES(16N)	Default [CPS]	Default [CPS]
8	Dec01.05 21:55:00	RES(64N)	Default [CPS]	Default [CPS]
9	Dec01.05 21:55:00	RES(64N)	Default [CPS]	Default [CPS]
10	Dec01.05 21:55:07	TEMP	Default [CPS]	Default [CPS]
11	Dec01.05 21:55:07	TEMP	Default [CPS]	Default [CPS]
12	Dec01.05 21:55:17	RES	Default [CPS]	Default [CPS]
13	Dec01.05 21:55:17	RES	Default [CPS]	Default [CPS]
14	Apr12.02 00:42:07	POR(NEU)	100.000 [PERCENT]	178.00 [CPS]

PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION:
 HOLE ID: RH #28-79
 DATE OF LOG: 06/11/06
 PROBE: 9057A 1067



SCALE: 20 M/CM
 TRUE DEPTH: 290.59 M
 AZIMUTH: 289.0
 DISTANCE: 100.4 M
 + = 50 M INCR
 ○ = BOTTOM OF HOLE



* * * * * COMPU-LOG - VERTICAL DEVIATION * * * * *

CLIENT : ELK VALLEY COAL HOLE ID. : RH #28-79
 FIELD OFFICE : DATE OF LOG : 06/11/06
 DATA FROM : PROBE : 9057A , 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: \RH#28-79_06-11-06_16-49_9057A_02_4.00_314.50_DEVI.log

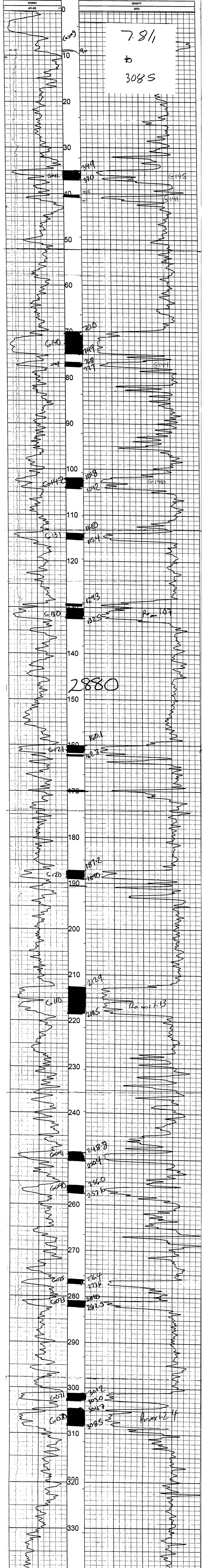
CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
4.0	4.02	0.00	0.00	0.0	25.2	0.8	25.2
14.0	14.00	0.14	-0.04	0.1	342.6	1.4	313.4
24.0	23.99	0.23	-0.34	0.4	303.5	2.3	277.7
34.0	33.98	0.33	-0.78	0.8	292.7	3.1	284.4
44.0	43.97	0.48	-1.32	1.4	289.8	3.6	284.5
54.0	53.94	0.82	-2.01	2.2	292.1	5.2	306.5
64.0	63.88	1.31	-2.90	3.2	294.2	6.4	293.1
74.0	73.80	1.89	-3.99	4.4	295.3	8.3	310.6
84.0	83.69	2.62	-5.26	5.9	296.5	8.9	302.8
94.0	93.54	3.49	-6.74	7.6	297.4	11.2	303.7
104.0	103.31	4.23	-8.61	9.6	296.2	12.8	275.9
114.0	113.02	4.98	-10.77	11.9	294.8	14.7	300.4
124.0	122.62	5.91	-13.23	14.5	294.1	17.1	293.8
134.0	132.15	6.45	-16.22	17.5	291.7	17.9	272.5
144.0	141.59	7.02	-19.42	20.7	289.9	20.1	287.8
154.0	150.95	7.59	-22.89	24.1	288.3	20.8	276.7
164.0	160.21	8.38	-26.38	27.7	287.6	23.5	286.5
174.0	169.33	9.32	-30.32	31.7	287.1	25.1	287.7
184.0	178.35	10.18	-34.52	36.0	286.4	26.1	278.6
194.0	187.32	10.81	-38.83	40.3	285.6	26.3	279.8
204.0	196.26	11.72	-43.15	44.7	285.2	26.7	280.7
214.0	205.19	12.64	-47.53	49.2	284.9	27.0	288.2
224.0	214.06	14.02	-51.92	53.8	285.1	27.7	289.0
234.0	222.90	15.36	-56.38	58.4	285.2	28.2	286.7
244.0	231.68	16.84	-60.87	63.2	285.5	21.9	249.6
254.0	240.35	18.32	-65.52	68.0	285.6	30.3	294.2
264.0	248.94	20.14	-70.26	73.1	286.0	30.5	285.4
274.0	257.45	22.17	-75.07	78.3	286.5	31.7	298.3
284.0	265.88	24.33	-79.96	83.6	286.9	33.0	295.5
294.0	274.20	26.73	-84.94	89.0	287.5	34.6	303.2
304.0	282.36	29.50	-89.96	94.7	288.2	35.8	300.5
314.0	290.34	32.66	-94.74	100.2	289.0	38.5	298.8
314.3	290.59	32.76	-94.91	100.4	289.0	38.5	298.7

Century-geo.com
ELK VALLEY COAL
RH #28-80
ELK VALLEY COAL
BRITISH COLUMBIA

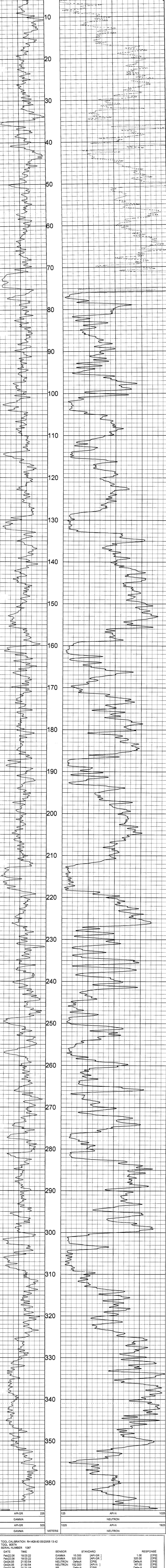
COMPANY
WELL
FIELD
MUNICIPALITY
PROVINCE
LOCATION
SECTION
TOWNSHIP
RANGE
APR NO.
UNIQUE WELL ID
PERMANENT DATA
LOG MEASURED FROM: GL
DRL MEASURED FROM: GL
ELEVATION OF:
ELEVATION GL:

DATE: 05/20/08
DEPTH DRILLER: 297
BRT SIZE: 13.893
LOG TOP: 0.34
LOG BOTTOM: 366.56
CASING OD: 17.78
CASING BOTTOM: 9
CASING TYPE: STEEL
BOREHOLE FLUID: WATER
FLUID TEMPERATURE: 17.78
MUD RES: 17.78
MUD WEIGHT: 17.78

RECORDED BY: R. HECK
REMARKS 1: June 2 08
REMARKS 2:
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



COMPANY	CENTURY-990.COM	OTHER SERVICES	
WELL	EL VALLEY COAL	9001	
FIELD	RH #28-80	9007	
MUNICIPALITY	ELSFORD	9004	
PROVINCE	BRITISH COLUMBIA		
LOCATION	CASTLE MTN		
SECTION			
TOWNSHIP			
RANGE			
APN NO.			
UNIQUE WELL ID			
PERMANENT DATUM		ELEVATION M:	
LOG MEASURED FROM:	G.L.	ELEVATION DT:	
DATE	05/20/06	ELEVATION G:	
DEPTH DRILLER	907		
BIT SIZE	13.653		
LOG TOP	0.32		
LOG BOTTOM	396.59		
CASING O.D.	17.78		
CASING BOTTOM	9		
BORING TYPE	STEEL		
BORING HOLE FLUID	WATER		
RM TEMPERATURE			
MUD WEIGHT			
RECORDED BY	R HECK		
REMARKS 1			
REMARKS 2			



TOOL CALIBRATION RH #28-80 05/20/06 13:42
 TOOL 9057A
 SERIAL NUMBER 1067

DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Feb22.06	18:03:22	GAMMA 15.000 [API-GR]	1.00 [CPS]
2	Feb22.06	18:03:22	GAMMA 325.000 [API-GR]	325.00 [CPS]
3	Oct24.05	21:50:54	NEUTRON Default [CPS]	Default [CPS]
4	Oct24.05	21:50:54	NEUTRON 152.000 [API-N]	167.00 [CPS]
5	Dec01.05	21:21:19	SP Default [CPS]	Default [CPS]
6	Dec01.05	21:21:19	SP Default [CPS]	Default [CPS]
7	Dec01.05	21:54:52	RES(16N) Default [CPS]	Default [CPS]
8	Dec01.05	21:54:52	RES(16N) Default [CPS]	Default [CPS]
9	Dec01.05	21:55:00	RES(64N) Default [CPS]	Default [CPS]
10	Dec01.05	21:55:00	RES(64N) Default [CPS]	Default [CPS]
11	Dec01.05	21:55:07	TEMP Default [CPS]	Default [CPS]
12	Dec01.05	21:55:07	TEMP Default [CPS]	Default [CPS]
13	Dec01.05	21:55:17	RES Default [CPS]	Default [CPS]
14	Dec01.05	21:55:17	RES Default [CPS]	Default [CPS]
15	Apr12.02	00:42:07	POR(NEU) 100.000 [PERCENT]	178.00 [CPS]



GAMMA - DENSITY

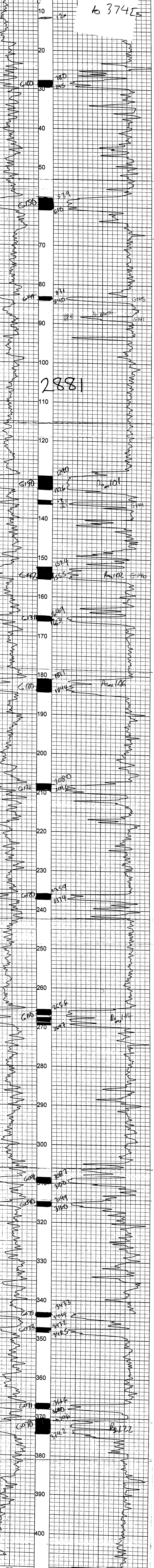
RH #28-81

Century-geco.com
 COMPANY: ELY VALLEY COAL
 WELL: RH 2881
 FIELD: ELY VALLEY COAL
 MUNICIPALITY: ELY VALLEY
 PROVINCE: BRITISH COLUMBIA
 LOCATION: CASTLE MTN
 SECTION: 27521.2 E.
 TOWNSHIP: 42184.7 N
 RANGE: 1837.1 W
 APN NO.
 UNIQUE WELL ID
 PERMITMENT DATA
 LOG MEASURED FROM: G.L.
 ELEVATION OR
 ELEVATION OR
 ELEVATION OR

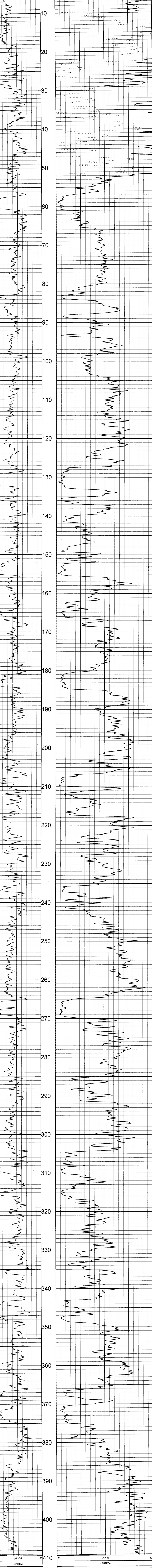
2881

OTHER SERVICES
9051
9057
9054

LOG BOTTOM : 408.53
 CASING OO : 17.78
 CASING BOTTOM : 15
 CASING TYPE : STEEL
 APPROXIMATE FLUID : WATER
 FLUID TEMPERATURE :
 MUD RES :
 MUD WEIGHT :
 REMARKS 1 :
 REMARKS 2 :
 ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



century-geo.com		OTHER SERVICES	
COMPANY	ELK VALLEY COAL	9051	
WELL	RH #28-81	9055	
FIELD	BEAR CLAW MTN.	9004	
MUNICIPALITY	ELK FORD		
PROVINCE	BREITENBURG		
LOCATION	BRISTLE MTN.		
SECTION			
TOWNSHIP			
RANGE			
APR NO.			
UNIQUE WELL ID			
PERMITS/DEPT			
LOG MEASURED FROM	G.L.	ELEVATION OF	
DATE	05/17/06	ELEVATION OF	
DEPTH DRILLER	409		
BIT SIZE	13.355		
LOGS TOP	0.99		
LOGS BOTTOM	409.28		
CASING OD	17.78		
CASING BOTTOM	15		
CASING TYPE	STEEL		
BORINGHOLE FLUID	WATER		
RM TEMPERATURE			
MUD RES			
MUD WEIGHT			
RECORDED BY	RHEK		
REMARKS 1			
REMARKS 2			



TOOL CALIBRATION RH #28-81 05/17/06 09:00
 TOOL 9051A
 SERIAL NUMBER 92

DATE	TIME	SENSOR	STANDARD	RESPONSE
May26.05	22:29:49	GAMMA	Default [CPS]	Default [CPS]
May26.05	22:29:49	GAMMA	Default [CPS]	Default [CPS]
May26.05	22:29:49	NEUTRON	Default [CPS]	Default [CPS]
May26.05	22:29:49	CC	Default [CPS]	Default [CPS]
May26.05	22:29:49	CC	Default [CPS]	Default [CPS]
May26.05	22:29:49	POROSITY	Default [CPS]	Default [CPS]

2887

COMPANY	ELK VALLEY COAL	OTHER SERVICES
WELL	RH #28-82	FIELD 9051
MUNICIPALITY	ELK FORD	9057
PROVINCE	BRITISH COLUMBIA	9239
LOCATION	CASTLE MTN.	
SECTION		
TOWNSHIP		
RANGE		
API NO.	24651475	
UNIQUE WELL ID.	142392922	
PERMANENT DATUM		ELEVATION RB
LOG MEASURED FROM	G.L.	ELEVATION OF
DRI. MEASURED FROM	G.L.	ELEVATION GL
DATE	06/14/06	
DEPTH DRILLER	272	
BIT SIZE	13.335	
LOG TOP	0.89	
LOG BOTTOM	271.00	
CASING OD	17.78	
CASING BOTTOM	3	
CASING TYPE	STEEL	
BOREHOLE FLUID	WATER	
RM TEMPERATURE		
MUD RES		
MUD WEIGHT	1.0	
RECORDED BY	R HECK	
REMARKS 1	5122 BIT TOP 518 TO TD	
REMARKS 2	Handwritten	

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

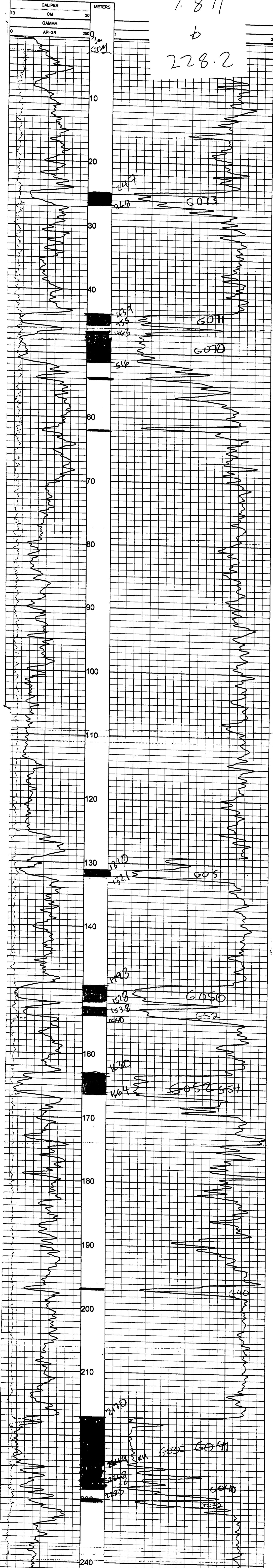
GAMMA LS DENSITY RH #28-82 06/14/06

MATRIX DENSITY : 2.68
MAGNETIC DECL : 17.0

LOG PARAMETERS
NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 99999

MATRIX DELTA : 140
BIT SIZE : 13.335

7.81
b
228.2



COMPANY : ELK VALLEY COAL
WELL : RH #28-82
FIELD : ELKFORG
MUNICIPALITY : BRITISH COLUMBIA
PROVINCE : CASTLE MTN
LOCATION :
SECTION :
TOWNSHIP :
RANGE :
API NO. :
UNIQUE WELL ID :
PERMANENT DATUM :
LOG MEASURED FROM : G.L.
DATE : 06/14/06
DEPTH DRILLER : 272
BIT SIZE : 13.335
LOG TOP : 0.27
LOG BOTTOM : 272.05
CASING OD : 17.78
CASING BOTTOM : 3
CASING TYPE : STEEL
BORHOLE FLUID : WATER
RM TEMPERATURE :
MUD RES :
MUD WEIGHT :
WITNESSED BY :
RECORDED BY : R HECK
REMARKS 1 : 5/12 " BIT TOP" M. 5108 " TO TD
REMARKS 2 :
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

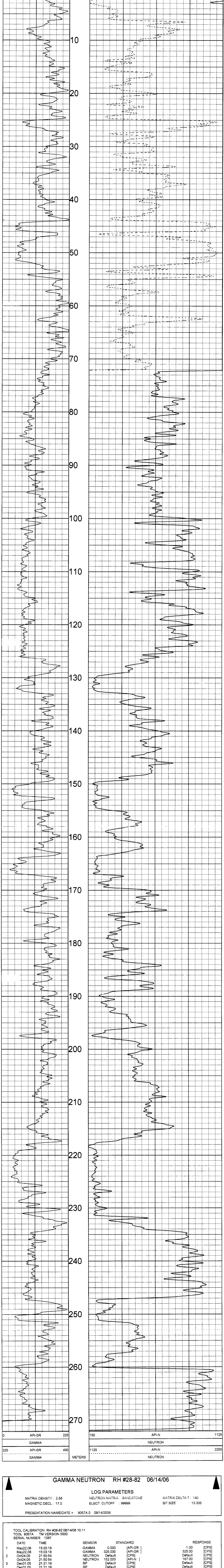
OTHER SERVICES
9051
9057
9034

GAMMA NEUTRON RH #28-82 06/14/06

MATRIX DENSITY : 2.68
MAGNETIC DECL : 17.0
PRESENTATION NAME/DATE = 9057A.0 06/14/2006

LOG PARAMETERS
NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 99999
LOG MEASURED FROM : G.L.
ELEVATION OF :
ELEVATION OF :

MATRIX DELTA T : 140
BIT SIZE : 13.335



GAMMA NEUTRON RH #28-82 06/14/06

MATRIX DENSITY : 2.68
MAGNETIC DECL : 17.0
PRESENTATION NAME/DATE = 9057A.0 06/14/2006

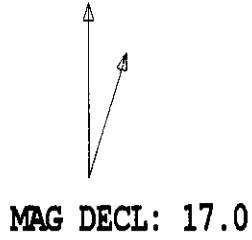
LOG PARAMETERS
NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 99999
LOG MEASURED FROM : G.L.
ELEVATION OF :
ELEVATION OF :

MATRIX DELTA T : 140
BIT SIZE : 13.335

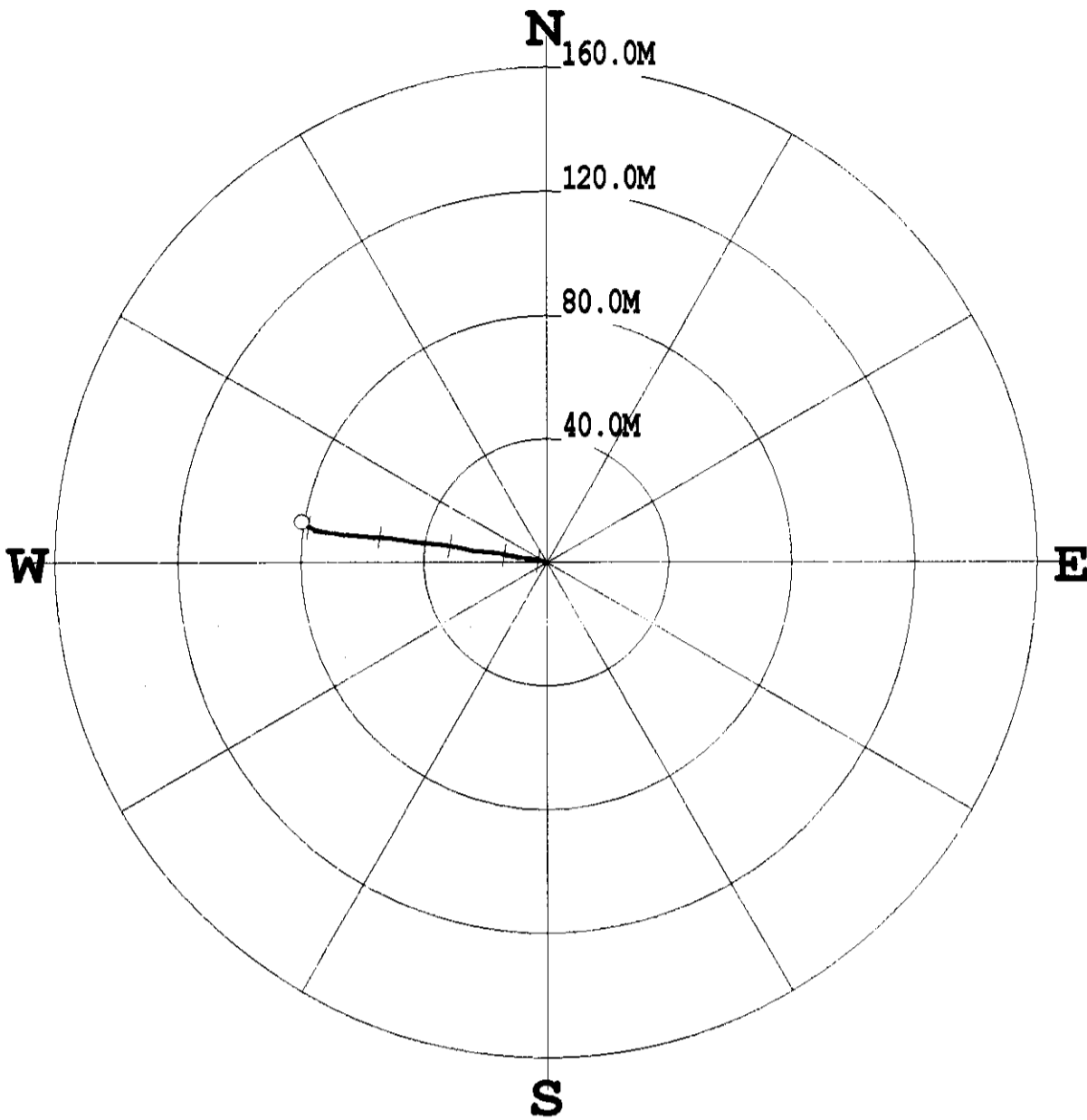
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	May22.06 15:03:18	GAMMA	0.000 [API-GR]	1.00 [CPS]
	May22.06 15:03:18	GAMMA	325.000 [API-GR]	325.00 [CPS]
2	Oct24.05 21:50:54	NEUTRON	Default [CPS]	Default [CPS]
3	Dec01.05 21:21:19	NEUTRON	152.000 [API-N]	167.00 [CPS]
	Dec01.05 21:21:19	SP	Default [CPS]	Default [CPS]
4	Dec01.05 21:54:52	RES(16N)	Default [CPS]	Default [CPS]
	Dec01.05 21:54:52	RES(16N)	Default [CPS]	Default [CPS]
5	Dec01.05 21:55:00	RES(64N)	Default [CPS]	Default [CPS]
	Dec01.05 21:55:00	RES(64N)	Default [CPS]	Default [CPS]
6	Dec01.05 21:55:07	TEMP	Default [CPS]	Default [CPS]
	Dec01.05 21:55:07	TEMP	Default [CPS]	Default [CPS]
7	Dec01.05 21:55:17	RES	Default [CPS]	Default [CPS]
	Dec01.05 21:55:17	RES	Default [CPS]	Default [CPS]
8	Apr12.02 00:42:07	POR(NEU)	100.000 [PERCENT]	178.00 [CPS]

PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION:
 HOLE ID: RH #28-82
 DATE OF LOG: 06/14/06
 PROBE: 9057A 1067



SCALE: 20 M/CM
 TRUE DEPTH: 255.46 M
 AZIMUTH: 279.4
 DISTANCE: 80.7 M
 + = 50 M INCR
 ○ = BOTTOM OF HOLE



* * * * * COMPU-LOG - VERTICAL DEVIATION * * * * *

CLIENT : ELK VALLEY COAL HOLE ID. : RH #28-82
 FIELD OFFICE : DATE OF LOG : 06/14/06
 DATA FROM : PROBE : 9057A , 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: \RH#28-82_06-14-06_10-11_9057A_.02_4.00_272.05_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
4.0	4.02	0.00	0.00	0.0	79.9	0.5	79.9
14.0	14.00	0.03	0.05	0.1	59.0	0.5	4.1
24.0	23.99	0.21	-0.25	0.3	309.4	3.6	300.1
34.0	33.96	0.49	-0.92	1.0	297.8	4.9	270.7
44.0	43.91	0.60	-1.95	2.0	287.2	7.4	286.4
54.0	53.80	0.95	-3.37	3.5	285.6	10.3	285.8
64.0	63.64	1.18	-5.08	5.2	283.0	10.9	282.7
74.0	73.43	1.42	-7.06	7.2	281.4	12.8	279.4
84.0	83.14	1.65	-9.35	9.5	280.0	15.6	290.0
94.0	92.77	2.30	-11.85	12.1	281.0	15.6	272.1
104.0	102.35	2.76	-14.62	14.9	280.7	18.1	281.2
114.0	111.82	3.36	-17.72	18.0	280.7	19.2	285.2
124.0	121.26	3.71	-20.92	21.2	280.1	19.5	283.4
134.0	130.71	3.91	-24.10	24.4	279.2	17.7	288.9
144.0	140.07	4.69	-27.50	27.9	279.7	21.9	295.8
154.0	149.29	5.42	-31.26	31.7	279.8	22.1	261.8
164.0	158.46	5.96	-35.11	35.6	279.6	25.8	294.0
174.0	167.57	6.37	-39.13	39.6	279.2	24.8	267.9
184.0	176.65	6.73	-43.24	43.8	278.8	25.5	292.0
194.0	185.67	7.40	-47.46	48.0	278.9	26.0	289.4
204.0	194.66	7.98	-51.74	52.4	278.8	25.6	270.3
214.0	203.66	8.12	-56.02	56.6	278.3	26.6	252.3
224.0	212.65	8.58	-60.16	60.8	278.1	25.8	271.5
234.0	221.66	8.96	-64.40	65.0	277.9	25.8	289.0
244.0	230.66	9.49	-68.62	69.3	277.9	26.2	285.3
254.0	239.63	10.14	-72.89	73.6	277.9	26.8	267.6
264.0	248.50	11.45	-76.89	77.7	278.5	28.6	310.7
271.9	255.46	13.24	-79.63	80.7	279.4	28.2	294.4

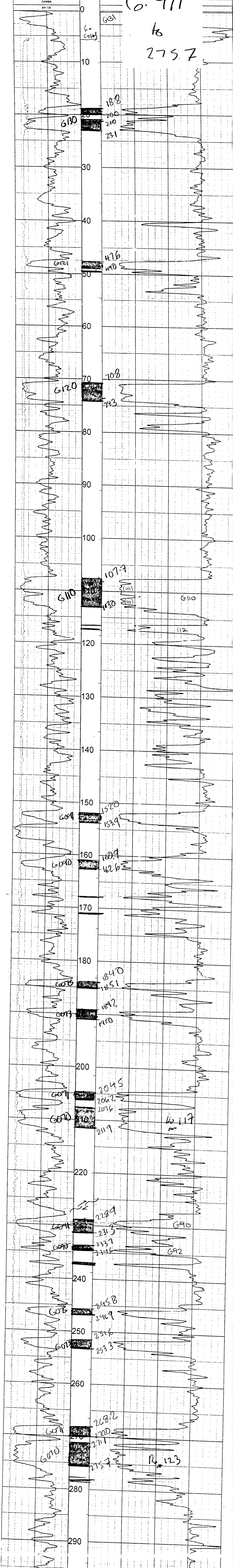
Century-geo.com

RH #28-83

2883

OTHER SERVICES

WELL	ELK VALLEY COAL	9051
FIELD	RH #28-83	9071
MUNICIPALITY	ELK FORD	9074
STATE	BRITISH COLUMBIA	
COUNTY	CASTLE MOUNTAIN	
SECTION	27024-930 E	
TOWNSHIP	142393-443 N	
RANGE	1790-831 EW	
API NO		
INCH/IN WELL ID		
PERMANENT DATA ID		
LOG MEASURED FROM	GL	ELEVATION K3
LOG MEASURED FROM	GL	ELEVATION DF
LOG MEASURED FROM	GL	ELEVATION G1
DATE	05/22/06	
DEPTH DRILLER	398	
BIT SIZE	13.633	
LOG TOP	0.32	
LOG BOTTOM	328.77	
LOG OD	17.78	
LOGGING TYPE	6	
LOGGING TYPE	STEEL	
POROHOLE FLUID	WATER	
TEMPERATURE		
LOG PRESS		
LOG WEIGHT		
RECORDED BY	R. HECK	
REMARKS 1		
REMARKS 2		
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS		



METERS

CALIPERL CM

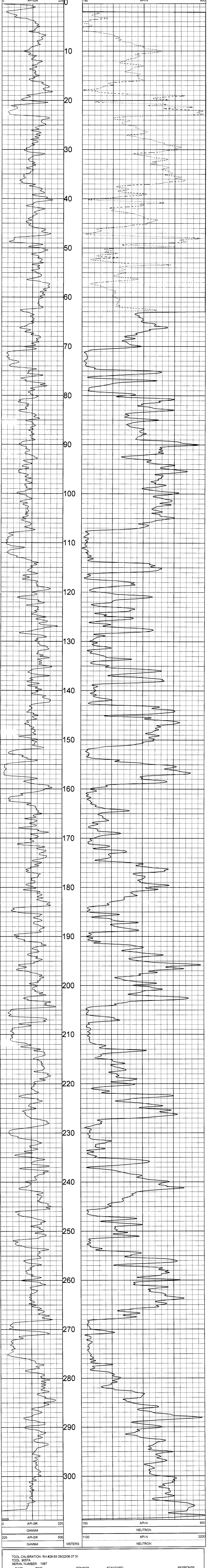
GAMMA

API GR

GAMMA

API GR

COMPANY	ELK VALLEY COAL	OTHER SERVICES	9651
WELL	RH #28-83		9657
FIELD	ELMFORD		9664
MUNICIPALITY	BRITISH COLUMBIA		
PROVINCE	CASTLE MTN.		
LOCATION			
SECTION			
TOWNSHIP			
RANGE			
API NO.			
UNIQUE WELL ID			
PERMANENT TACTUM		ELEVATION MS	
LOG MEASURED FROM	G.L.	ELEVATION OF	
DATE	05/22/06		
DEPTH DRILLER	306		
BIT SIZE	13.853		
LOG TOP	0.32		
LOG BOTTOM	308.87		
CASING OD	6		
CASING BOTTOM	17.78		
CASING TYPE	STEEL		
BOREHOLE FLUID	WATER		
RM TEMPERATURE			
MUD RES			
MUD WEIGHT			
RECORDED BY	R HECK		
REMARKS 1			
REMARKS 2			
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS			



TOOL CALIBRATION RH #28-83 05/22/06 07:31
TOOL 9057A
SERIAL NUMBER 1067

DATE	TIME	SENSOR	STANDARD	RESPONSE
1	May22.06 15:03:18	GAMMA	0.000 [API-GR]	1.00 [CPS]
	May22.06 15:03:18	GAMMA	325.000 [API-GR]	325.00 [CPS]
2	Oct24.05 21:50:54	NEUTRON	Default [CPS]	Default [CPS]
3	Oct24.05 21:50:54	NEUTRON	152.000 [API-N]	157.00 [CPS]
4	Dec01.05 21:21:19	SP	Default [CPS]	Default [CPS]
4	Dec01.05 21:21:19	SP	Default [CPS]	Default [CPS]
4	Dec01.05 21:54:52	RES(16N)	Default [CPS]	Default [CPS]
4	Dec01.05 21:54:52	RES(16N)	Default [CPS]	Default [CPS]
5	Dec01.05 21:55:00	RES(64N)	Default [CPS]	Default [CPS]
5	Dec01.05 21:55:00	RES(64N)	Default [CPS]	Default [CPS]
6	Dec01.05 21:55:07	TEMP	Default [CPS]	Default [CPS]
7	Dec01.05 21:55:17	RES	Default [CPS]	Default [CPS]
7	Dec01.05 21:55:17	RES	Default [CPS]	Default [CPS]
8	Apr12.02 00:42:07	POR(NEU)	100.000 [PERCENT]	178.00 [CPS]

COMPANY : ELK VALLEY COAL
WELL : RH #28-84
MUNICIPALITY : ELRFORD
COUNTY : BRITISH COLUMBIA
LOCATION : CASTLE MTN.
SECTION : 2-109 S19
TOWNSHIP : W26N16S2
RANGE : 1700.01H

2884

OTHER SERVICES
9051
9057
9064

UNIQUE WELL ID. :
PERMANENT DATUM :
LOG MEASURED FROM : G.L.
DRI. MEASURED FROM : G.L.
DATE : 08/15/06
DEPTH DRILLER : 307.9
BIT SIZE : 13.335
LOG TOP : 0.70
LOG BOTTOM : 306.70
CASING OD : 17.78
CASING ID : 17.78
CASING TYPE : STEEL
CASING BOTTOM :
SHEATH TYPE : WATER
SHEATH FLUID :
SHEATH TEMPERATURE :
M TEMP/TEMPERATURE :
MUD RES :
MUD RES WEIGHT :
MUD RES WITNESSED BY :
RECORDED BY :
REMARKS 1 :
REMARKS 2 :

ELEVATION (B):
ELEVATION (F):
ELEVATION (G):

WITNESSED BY :
RECORDED BY :
REMARKS 1 :
REMARKS 2 :

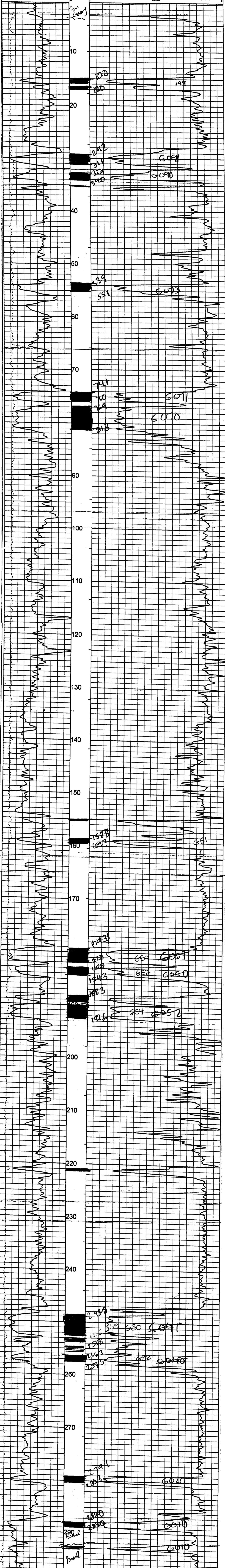
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

GAMMA LS DENSITY RH #28-84 06/15/06

MATRIX DENSITY : 2.68
MAGNETIC DECL. : 17.0
PRESENTATION NAME/DATE : 9239C16.0 06/15/2006

LOG PARAMETERS
NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 99999

MATRIX DELTA T : 140
BIT SIZE : 13.335

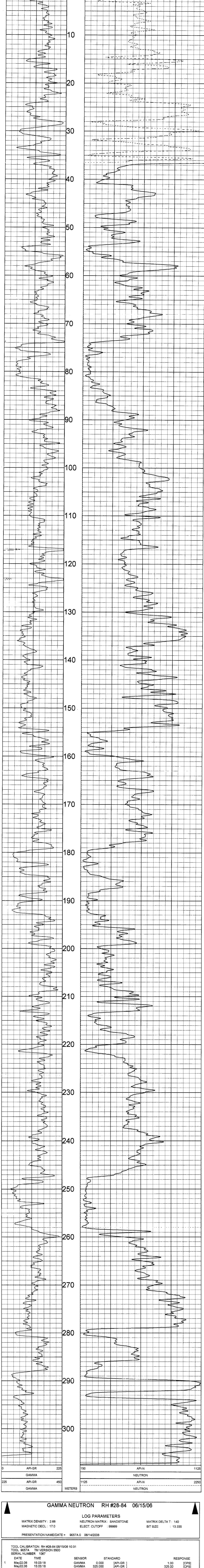


COMPANY	ELK VALLEY COAL	OTHER SERVICES	9051 9057 9239
WELL	RH #28-84		
FIELD	ELK FORD		
MUNICIPALITY	BRITISH COLUMBIA		
PROVINCE	CASTLE MTN.		
LOCATION			
SECTION			
TOWNSHIP			
RANGE			
APR NO.			
UNIQUE WELL ID			
PERMANENT DATUM	G.L.	ELEVATION KB	
LOG MEASURED FROM	G.L.	ELEVATION DF	
		ELEVATION GL	
DATE	06/15/06		
DEPTH RULER	307.4		
BIT SIZE	13.335		
LOG TOP	0.33		
LOG BOTTOM	307.23		
CASING OD	17.78		
CASING BOTTOM	3		
CASING TYPE	STEEL		
PORCHGE FLUID	WATER		
RM TEMPERATURE			
MUD WES			
WTS/SS BY			
RECORDED BY	RHECK		
REMARKS 1	51/2" BIT TO M. 518" TO TD		
REMARKS 2			
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS			

GAMMA NEUTRON RH #28-84 06/15/06

MATRIX DENSITY : 2.88 LOG PARAMETERS MATRIX DELTA T : 140
 MAGNETIC DECL : 17.0 NEUTRON MATRIX : SANDSTONE ELECT. CUTOFF : 99999 BIT SIZE : 13.335

PRESENTATION NAME/DATE = 9057A.0 06/14/2008



GAMMA NEUTRON RH #28-84 06/15/06

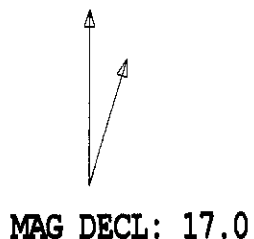
MATRIX DENSITY : 2.88 LOG PARAMETERS MATRIX DELTA T : 140
 MAGNETIC DECL : 17.0 NEUTRON MATRIX : SANDSTONE ELECT. CUTOFF : 99999 BIT SIZE : 13.335

PRESENTATION NAME/DATE = 9057A.0 06/14/2008

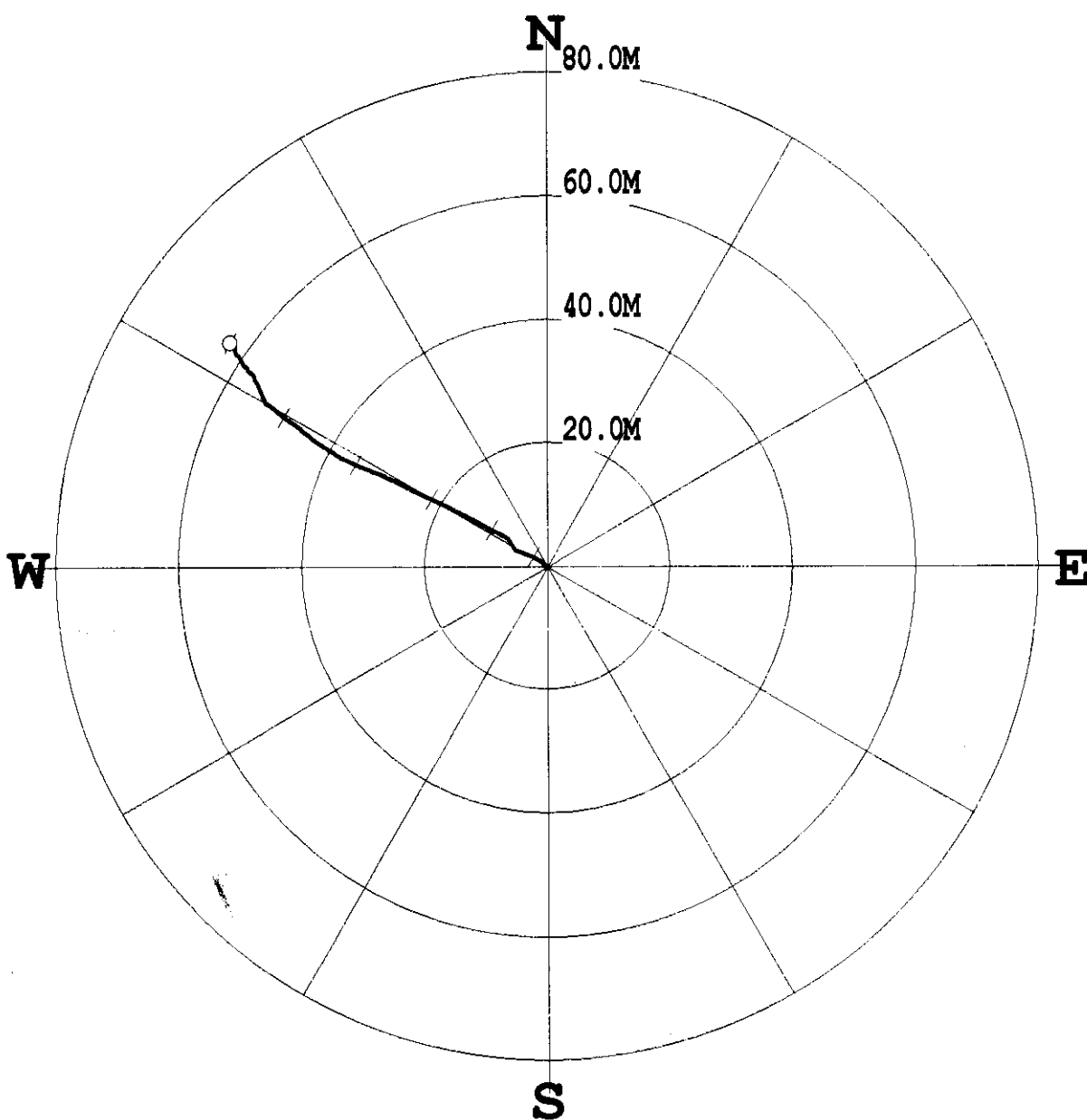
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	May22.06 15:03:18	GAMMA	0.000 [API-GR]	1.00 [CPS]
1	May22.06 15:03:18	GAMMA	325.000 [API-GR]	325.00 [CPS]
2	Oct24.05 21:50:54	NEUTRON	Default [CPS]	Default [CPS]
2	Oct24.05 21:50:54	NEUTRON	152.000 [API-N]	187.00 [CPS]
3	Dec01.05 21:21:19	SP	Default [CPS]	Default [CPS]
3	Dec01.05 21:21:19	SP	Default [CPS]	Default [CPS]
4	Dec01.05 21:54:52	RES(16N)	Default [CPS]	Default [CPS]
4	Dec01.05 21:54:52	RES(16N)	Default [CPS]	Default [CPS]
5	Dec01.05 21:55:00	RES(64N)	Default [CPS]	Default [CPS]
5	Dec01.05 21:55:00	RES(64N)	Default [CPS]	Default [CPS]
6	Dec01.05 21:55:07	TEMP	Default [CPS]	Default [CPS]
6	Dec01.05 21:55:07	TEMP	Default [CPS]	Default [CPS]
7	Dec01.05 21:55:17	RES	Default [CPS]	Default [CPS]
7	Dec01.05 21:55:17	RES	Default [CPS]	Default [CPS]
8	Apr12.02 00:42:07	POR(NEU)	100.000 [PERCENT]	178.00 [CPS]

PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION:
 HOLE ID: RH #28-84
 DATE OF LOG: 06/15/06
 PROBE: 9057A 1067



SCALE: 10 M/CM
 TRUE DEPTH: 299.05 M
 AZIMUTH: 305.1
 DISTANCE: 62.9 M
 + = 50 M INCR
 ○ = BOTTOM OF HOLE



***** COMPU-LOG - VERTICAL DEVIATION *****

CLIENT : ELK VALLEY COAL HOLE ID. : RH #28-84
 FIELD OFFICE : DATE OF LOG : 06/15/06
 DATA FROM : PROBE : 9057A , 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: \RH#28-84_06-15-06_10-31_9057A_.02_4.00_307.53_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
4.0	4.00	-0.00	-0.00	0.0	197.9	0.4	197.9
14.0	14.00	-0.04	-0.07	0.1	242.1	1.1	298.9
24.0	23.99	0.23	-0.41	0.5	299.0	3.5	313.0
34.0	33.97	0.70	-0.88	1.1	308.4	4.3	322.7
44.0	43.92	1.21	-1.65	2.0	306.3	6.4	282.3
54.0	53.84	1.81	-2.76	3.3	303.2	8.0	281.6
64.0	63.73	2.29	-4.08	4.7	299.3	8.1	290.6
74.0	73.61	3.01	-5.45	6.2	298.9	9.8	317.5
84.0	83.44	4.50	-6.41	7.8	305.1	8.2	326.0
94.0	93.28	5.36	-7.96	9.6	304.0	10.5	295.8
104.0	103.11	6.18	-9.59	11.4	302.8	11.1	304.5
114.0	112.91	7.14	-11.27	13.3	302.4	11.6	282.9
124.0	122.69	8.04	-13.12	15.4	301.5	12.6	298.4
134.0	132.45	8.97	-15.07	17.5	300.8	13.1	307.0
144.0	142.18	9.99	-17.09	19.8	300.3	13.8	303.0
154.0	151.88	10.99	-19.25	22.2	299.7	14.6	301.0
164.0	161.56	12.03	-21.54	24.7	299.2	14.7	284.1
174.0	171.21	13.23	-23.83	27.3	299.0	15.5	300.0
184.0	180.84	14.37	-26.24	29.9	298.7	16.0	295.3
194.0	190.47	15.37	-28.73	32.6	298.1	15.6	298.2
204.0	200.11	16.38	-31.15	35.2	297.7	15.3	301.1
214.0	209.75	17.43	-33.53	37.8	297.5	15.3	301.3
224.0	219.38	18.87	-35.76	40.4	297.8	15.5	301.5
234.0	229.01	20.39	-37.98	43.1	298.2	15.8	306.7
244.0	238.61	22.20	-40.06	45.8	299.0	16.9	317.4
254.0	248.19	23.81	-42.39	48.6	299.3	14.9	292.6
264.0	257.77	25.63	-44.59	51.4	299.9	16.3	296.2
274.0	267.30	27.87	-46.37	54.1	301.0	17.5	341.8
284.0	276.83	30.62	-47.61	56.6	302.7	18.0	340.3
294.0	286.36	32.86	-49.44	59.4	303.6	18.0	339.1
304.0	295.87	35.46	-50.86	62.0	304.9	18.7	346.0
307.3	299.05	36.19	-51.50	62.9	305.1	17.6	311.1

2885

CITY : ELK FORD
BRITISH COLU.
CASTLE MTN 27117.8 E
142.5795 N
1778.6

WELL ID :
TT DRTM :
LINED FROM G.L. :
SURFED FROM G.L. :
ELEVATION BS :
ELEVATION OF :
ELEVATION OL :

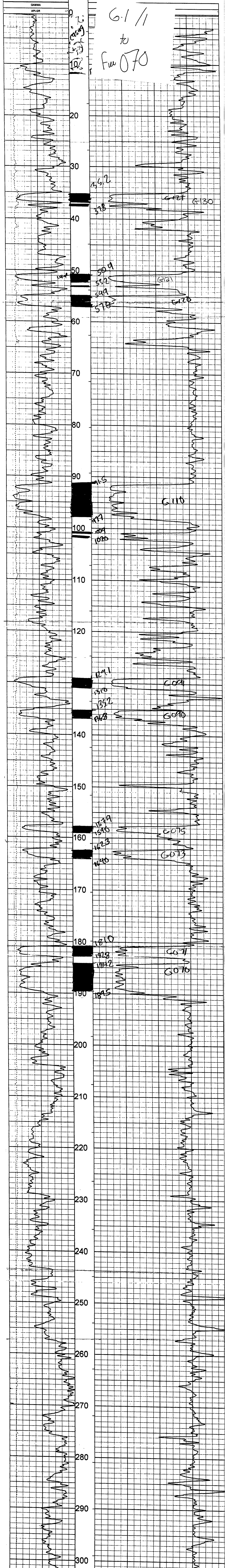
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306
13.653

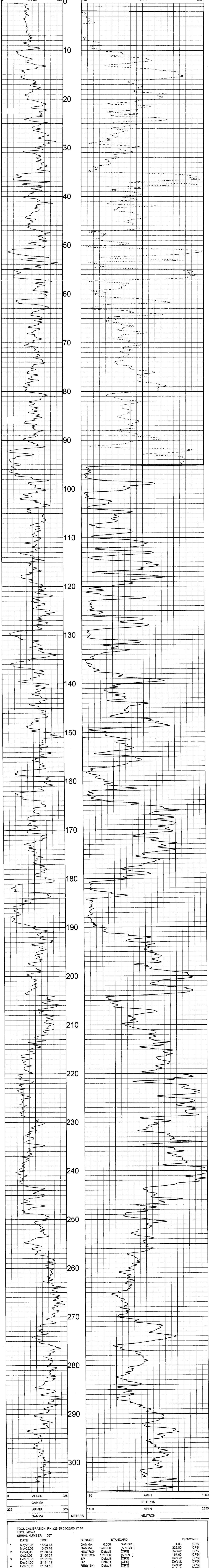
CM :
1 : 0.31
2 : 306.28
3 : 17.78

TOPM :
PE : STEEL
FLUC : WATER
ATUR :

HT :
ED BY : R.HECK

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS.





TOOL CALIBRATION RH #28-85 05/23/06 17:18
TOOL 8057A
SERIAL NUMBER 1067

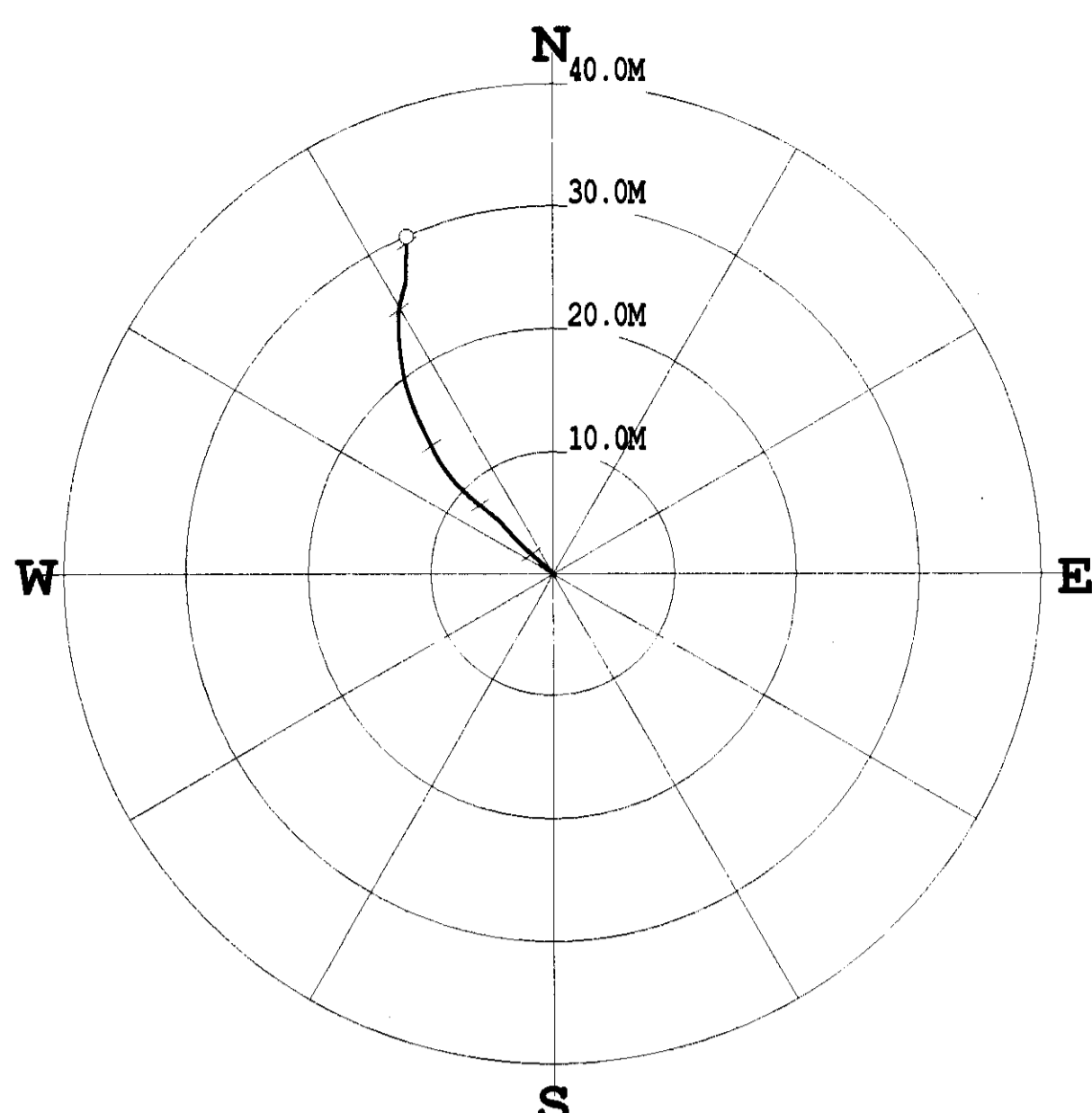
DATE	TIME	SENSOR	STANDARD	RESPONSE
May22.06	15:03:18	GAMMA	0 000 [API-GR]	1.00 [CPS]
May22.06	15:03:18	GAMMA	325 000 [API-GR]	325.00 [CPS]
Oct24.05	21:50:54	NEUTRON	Default [CPS]	Default [CPS]
Oct24.05	21:50:54	NEUTRON	152.000 [API-N]	167.00 [CPS]
Dec01.05	21:21:19	SP	Default [CPS]	Default [CPS]
Dec01.05	21:21:19	RES(16N)	Default [CPS]	Default [CPS]
Dec01.05	21:54:52	RES(16N)	Default [CPS]	Default [CPS]
Dec01.05	21:55:00	RES(64N)	Default [CPS]	Default [CPS]
Dec01.05	21:55:00	RES(64N)	Default [CPS]	Default [CPS]
Dec01.05	21:55:07	TEMP	Default [CPS]	Default [CPS]
Dec01.05	21:55:07	RES	Default [CPS]	Default [CPS]
Dec01.05	21:55:17	RES	Default [CPS]	Default [CPS]
Dec01.05	21:55:17	RES	Default [CPS]	Default [CPS]
Apr12.02	00:42:07	POR(NEU)	100.000 [PERCENT]	178.00 [CPS]

PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
LOCATION:
HOLE ID: RH #28-85
DATE OF LOG: 05/23/06
PROBE: 9057A 1067

↑
N
MAG DECL: 17.0

SCALE: 5 M/CM
TRUE DEPTH: 303.99 M
AZIMUTH: 336.6
DISTANCE: 29.9 M
+ = 50 M INCR
○ = BOTTOM OF HOLE



* * * * * COMPU-LOG - VERTICAL DEVIATION * * * * *

```
CLIENT       : ELK VALLEY COAL         HOLE ID.    : RH #28-85
FIELD OFFICE :                          DATE OF LOG : 05/23/06
DATA FROM    :                          PROBE       : 9057A , 1067
MAG. DECL.   : 17.000                   DEPTH UNITS : METERS
LOG: RH#28-85_05-23-06_17-18_9057A_.02_13.00_306.02_DEVI.log
```

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
13.0	13.02	0.00	-0.00	0.0	335.9	1.1	335.9
15.0	15.00	0.04	-0.02	0.0	329.2	1.2	333.6
17.0	17.00	0.08	-0.05	0.1	327.1	1.6	328.6
19.0	19.00	0.13	-0.09	0.2	325.0	1.8	322.1
21.0	21.00	0.19	-0.14	0.2	322.6	2.2	315.8
23.0	22.99	0.25	-0.21	0.3	320.7	2.4	314.3
25.0	24.99	0.32	-0.27	0.4	319.0	2.8	311.8
27.0	26.99	0.39	-0.36	0.5	317.5	3.5	307.6
29.0	28.99	0.47	-0.45	0.7	316.3	3.5	309.5
31.0	30.98	0.55	-0.55	0.8	315.5	3.7	308.8
33.0	32.98	0.65	-0.66	0.9	314.6	4.6	311.7
35.0	34.97	0.75	-0.79	1.1	313.7	4.7	308.4
37.0	36.96	0.86	-0.91	1.2	313.3	4.4	310.7
39.0	38.96	0.96	-1.03	1.4	312.9	4.2	310.5
41.0	40.95	1.07	-1.15	1.6	312.8	4.8	310.6
43.0	42.94	1.17	-1.28	1.7	312.6	4.8	311.1
45.0	44.93	1.29	-1.41	1.9	312.4	5.1	314.0
47.0	46.93	1.41	-1.55	2.1	312.3	5.4	309.4
49.0	48.92	1.53	-1.68	2.3	312.2	5.7	315.2
51.0	50.91	1.66	-1.83	2.5	312.2	6.3	316.3
53.0	52.90	1.79	-1.97	2.7	312.3	5.8	316.7
55.0	54.89	1.93	-2.12	2.9	312.3	5.4	319.1
57.0	56.88	2.06	-2.25	3.0	312.4	5.4	318.6
59.0	58.87	2.18	-2.39	3.2	312.4	5.4	322.6
61.0	60.86	2.32	-2.53	3.4	312.6	5.6	310.5
63.0	62.85	2.46	-2.68	3.6	312.6	6.0	311.2
65.0	64.84	2.60	-2.83	3.8	312.7	5.8	324.1
67.0	66.83	2.76	-2.98	4.1	312.8	6.0	298.8
69.0	68.82	2.90	-3.12	4.3	313.0	6.1	324.1
71.0	70.81	3.06	-3.26	4.5	313.2	6.2	320.6
73.0	72.79	3.23	-3.41	4.7	313.4	6.6	320.7
75.0	74.78	3.40	-3.57	4.9	313.6	4.6	306.3
77.0	76.77	3.58	-3.72	5.2	313.9	7.0	317.1
79.0	78.75	3.76	-3.88	5.4	314.1	6.7	319.7
81.0	80.74	3.93	-4.04	5.6	314.2	6.7	331.5
83.0	82.72	4.11	-4.21	5.9	314.3	7.0	317.0
85.0	84.71	4.28	-4.39	6.1	314.3	7.4	316.5
87.0	86.69	4.47	-4.57	6.4	314.4	7.6	305.9
89.0	88.67	4.64	-4.77	6.7	314.2	8.1	310.4
91.0	90.65	4.82	-4.98	6.9	314.1	7.8	315.0
93.0	92.63	4.99	-5.18	7.2	313.9	7.5	301.5
95.0	94.62	5.16	-5.39	7.5	313.8	8.0	316.3
97.0	96.60	5.34	-5.60	7.7	313.6	7.7	310.6
99.0	98.58	5.51	-5.82	8.0	313.4	8.0	306.0
101.0	100.56	5.68	-6.03	8.3	313.3	7.6	309.9
103.0	102.54	5.85	-6.23	8.5	313.2	7.5	309.7
105.0	104.52	6.01	-6.43	8.8	313.0	7.4	304.8
107.0	106.51	6.17	-6.62	9.1	313.0	7.4	309.5
109.0	108.49	6.34	-6.82	9.3	312.9	7.6	321.7
111.0	110.47	6.52	-7.00	9.6	312.9	7.2	311.0
113.0	112.46	6.68	-7.18	9.8	312.9	7.1	315.2

* * * * * COMPU-LOG - VERTICAL DEVIATION * * * * *

```
CLIENT       : ELK VALLEY COAL         HOLE ID.    : RH #28-85
FIELD OFFICE :                          DATE OF LOG : 05/23/06
DATA FROM    :                          PROBE       : 9057A , 1067
MAG. DECL.   : 17.000                   DEPTH UNITS : METERS
LOG: RH#28-85_05-23-06_17-18_9057A_.02_13.00_306.02_DEVI.log
```

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
115.0	114.44	6.85	-7.35	10.1	313.0	7.1	314.6
117.0	116.43	7.03	-7.54	10.3	313.0	7.2	311.0
119.0	118.41	7.22	-7.71	10.6	313.1	7.2	321.1
121.0	120.39	7.41	-7.88	10.8	313.2	7.4	320.1
123.0	122.38	7.60	-8.05	11.1	313.3	7.2	321.3
125.0	124.36	7.79	-8.21	11.3	313.5	7.2	318.9
127.0	126.35	7.98	-8.37	11.6	313.6	7.1	319.7
129.0	128.33	8.18	-8.53	11.8	313.8	7.1	325.0
131.0	130.31	8.38	-8.68	12.1	314.0	6.7	317.7
133.0	132.30	8.58	-8.83	12.3	314.2	6.7	329.3
135.0	134.28	8.78	-8.95	12.5	314.4	7.5	339.8
137.0	136.27	8.98	-9.10	12.8	314.6	7.1	325.0
139.0	138.25	9.20	-9.24	13.0	314.9	7.6	339.0
141.0	140.23	9.42	-9.37	13.3	315.2	7.0	328.6
143.0	142.22	9.63	-9.49	13.5	315.4	6.9	333.2
145.0	144.21	9.84	-9.60	13.7	315.7	7.0	328.8
147.0	146.19	10.06	-9.72	14.0	316.0	7.1	334.6
149.0	148.18	10.27	-9.82	14.2	316.3	7.1	332.8
151.0	150.16	10.49	-9.92	14.4	316.6	6.9	321.8
153.0	152.15	10.71	-10.03	14.7	316.9	6.7	335.0
155.0	154.13	10.92	-10.13	14.9	317.1	7.0	333.3
157.0	156.12	11.13	-10.24	15.1	317.4	6.9	331.6
159.0	158.10	11.35	-10.34	15.4	317.7	6.8	335.8
161.0	160.09	11.57	-10.46	15.6	317.9	7.0	327.8
163.0	162.07	11.79	-10.56	15.8	318.2	6.9	332.0
165.0	164.06	12.01	-10.67	16.1	318.4	6.6	327.5
167.0	166.04	12.22	-10.77	16.3	318.6	6.9	345.8
169.0	168.03	12.43	-10.87	16.5	318.8	6.8	334.5
171.0	170.02	12.64	-10.97	16.7	319.1	6.6	341.2
173.0	172.00	12.85	-11.06	17.0	319.3	6.5	331.8
175.0	173.99	13.07	-11.17	17.2	319.5	6.8	333.5
177.0	175.97	13.28	-11.26	17.4	319.7	6.5	339.8
179.0	177.96	13.49	-11.34	17.6	319.9	6.8	339.1
181.0	179.95	13.70	-11.43	17.8	320.2	6.4	334.9
183.0	181.93	13.93	-11.53	18.1	320.4	7.1	335.4
185.0	183.92	14.15	-11.61	18.3	320.6	6.7	343.0
187.0	185.91	14.37	-11.68	18.5	320.9	6.3	338.8
189.0	187.89	14.59	-11.76	18.7	321.1	6.4	335.7
191.0	189.88	14.80	-11.83	18.9	321.4	6.6	341.0
193.0	191.87	15.02	-11.90	19.2	321.6	6.3	347.0
195.0	193.85	15.23	-11.97	19.4	321.8	6.6	340.7
197.0	195.84	15.46	-12.03	19.6	322.1	7.3	345.1
199.0	197.83	15.68	-12.08	19.8	322.4	6.4	343.8
201.0	199.81	15.90	-12.13	20.0	322.7	6.4	352.0
203.0	201.80	16.12	-12.18	20.2	322.9	6.9	346.9
205.0	203.79	16.35	-12.23	20.4	323.2	6.4	349.8
207.0	205.77	16.57	-12.26	20.6	323.5	6.4	351.7
209.0	207.76	16.79	-12.30	20.8	323.8	6.5	348.2
211.0	209.75	17.02	-12.34	21.0	324.1	6.5	353.3
213.0	211.74	17.24	-12.37	21.2	324.3	6.6	357.3
215.0	213.72	17.46	-12.40	21.4	324.6	6.4	354.1

* * * * * COMPU-LOG - VERTICAL DEVIATION * * * * *

```
CLIENT       : ELK VALLEY COAL         HOLE ID.    : RH #28-85
FIELD OFFICE :                          DATE OF LOG : 05/23/06
DATA FROM    :                          PROBE       : 9057A , 1067
MAG. DECL.   : 17.000                   DEPTH UNITS : METERS
LOG: RH#28-85_05-23-06_17-18_9057A_.02_13.00_306.02_DEVI.log
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CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
217.0	215.71	17.68	-12.43	21.6	324.9	6.7	349.5
219.0	217.70	17.91	-12.45	21.8	325.2	5.8	349.8
221.0	219.68	18.14	-12.47	22.0	325.5	5.8	359.5
223.0	221.67	18.37	-12.50	22.2	325.8	6.5	355.9
225.0	223.66	18.60	-12.53	22.4	326.0	6.7	352.4
227.0	225.64	18.82	-12.55	22.6	326.3	6.3	357.0
229.0	227.63	19.04	-12.56	22.8	326.6	6.9	351.2
231.0	229.62	19.29	-12.58	23.0	326.9	6.7	353.6
233.0	231.60	19.52	-12.59	23.2	327.2	6.4	354.1
235.0	233.59	19.74	-12.61	23.4	327.4	6.4	2.3
237.0	235.58	19.96	-12.61	23.6	327.7	6.3	356.2
239.0	237.57	20.18	-12.61	23.8	328.0	6.2	1.0
241.0	239.55	20.40	-12.61	24.0	328.3	6.7	356.3
243.0	241.54	20.62	-12.61	24.2	328.6	6.5	5.4
245.0	243.53	20.83	-12.60	24.3	328.8	6.4	5.6
247.0	245.52	21.05	-12.59	24.5	329.1	6.2	3.8
249.0	247.51	21.26	-12.57	24.7	329.4	6.0	6.9
251.0	249.50	21.47	-12.55	24.9	329.7	5.9	2.4
253.0	251.49	21.67	-12.52	25.0	330.0	5.8	7.7
255.0	253.47	21.87	-12.49	25.2	330.3	5.8	9.0
257.0	255.46	22.07	-12.45	25.3	330.6	5.8	10.5
259.0	257.45	22.26	-12.41	25.5	330.9	5.8	12.3
261.0	259.45	22.45	-12.36	25.6	331.2	5.3	15.3
263.0	261.44	22.63	-12.32	25.8	331.4	5.5	12.1
265.0	263.43	22.81	-12.27	25.9	331.7	5.6	16.4
267.0	265.42	23.00	-12.21	26.0	332.0	6.1	36.2
269.0	267.41	23.18	-12.16	26.2	332.3	5.5	14.8
271.0	269.40	23.36	-12.11	26.3	332.6	5.5	18.2
273.0	271.39	23.54	-12.06	26.4	332.9	5.2	14.7
275.0	273.38	23.72	-12.02	26.6	333.1	5.7	15.7
277.0	275.37	23.91	-11.98	26.7	333.4	6.3	3.1
279.0	277.36	24.13	-11.98	26.9	333.6	6.5	359.9
281.0	279.35	24.36					

COMPANY : EM VALLEY COAL
WELL : RH #28-86
FIELD : NA
MUNICIPALITY : ELFGORD
PROVINCE : BRITISH COLUMBIA
LOCATION : CASTLE MTN
SECTION : NA
TOWNSHIP : NA
RANGE : NA
API NO. : NA
UNIQUE WELL ID. : NA
PERMANENT DATUM : NA
LOG MEASURED FROM : GL
DRL MEASURED FROM : GL
DATE : 07/31/06
DEPTH DRILLER : ZI
BIT SIZE : 13.018
LOG TOP : 0.28
LOG BOTTOM : 220.85
CASING OD : 17.78
CASING BOTTOM : 3
CASING TYPE : STEEL
BOREHOLE FLUID : WATER
BOREHOLE TEMPERATURE : NA
MUD RES : NA
MUD WEIGHT : NA

OTHER SERVICES
9087
9087
9239

2086
22464.7E
142817.0N
1698.8m

RECORDED BY : RHEK
REMARKS 1 : 51' RB TO 123 M, 51' RB TO TD
REMARKS 2 :
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

11-08-06

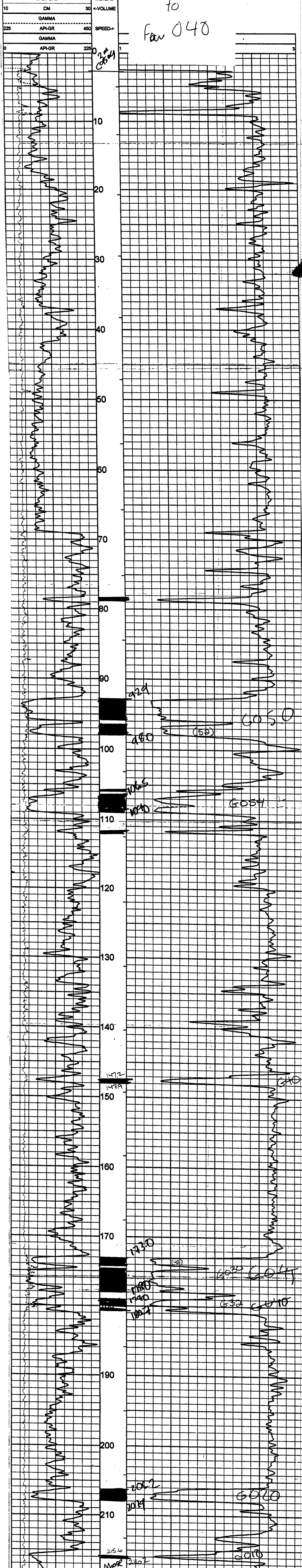
200 PLOT RATIO RH #28-86 07/31/06

LOG PARAMETERS
NEUTRON MATRIX : SANDSTONE
ELECT : 0000

MATRIX DELTA T : 140
BIT SIZE : 13.018

MATRIX DENSITY : 2.68
MAGNETIC DECL. : 17.0

11.2 / 1
to
Fan 040



**GAMMA - NEUTRON
LOG THRU DRILL PIPE
RH #28-86**

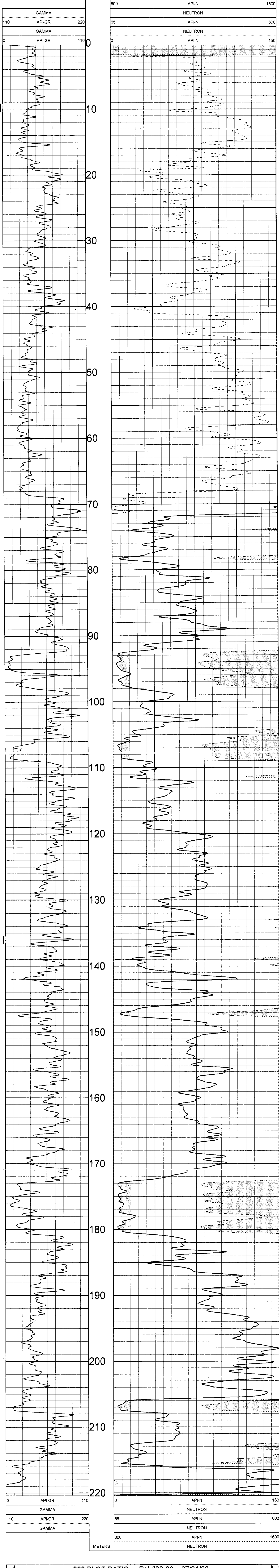
COMPANY	ELK VALLEY COAL	OTHER SERVICES	9067
WELL	RH #28-86		9057
MUNICIPALITY	ELK FORD		9239
PROVINCE	BRITISH COLUMBIA		
LOCATION	CASTLE MTN		
SECTION	N/A		
TOWNSHIP	N/A		
RANGE	N/A		
API NO.	N/A		
UNIQUE WELL ID	N/A		
PERMANENT DATUM	N/A	ELEVATION RB	N/A
LOG MEASURED FROM	G.L.	ELEVATION DF	N/A
DRL MEASURED FROM	G.L.	ELEVATION GL	N/A
DATE	07/31/06		
DEPTH DRILLER	221		
BIT SIZE	13.018		
LOG TOP	0.28		
LOG BOTTOM	220.37		
CASING OD	17.78		
CASING BOTTOM	3		
CASING TYPE	STEEL		
BOREHOLE FLUID	WATER		
RM TEMPERATURE	N/A		
MUD RES	N/A		
MUD WEIGHT	N/A		
RECORDED BY	R HECK		
REMARKS 1	51/4" RB TO 123 M, 51/8" RB TO TD		
REMARKS 2	LOG THRU DRILL PIPE		

200 PLOT RATIO RH #28-86 07/31/06

MATRIX DENSITY : 2.68
MAGNETIC DECL : 17.0

LOG PARAMETERS
NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 99999

MATRIX DELTA T : 140
BIT SIZE : 13.018



200 PLOT RATIO RH #28-86 07/31/06

MATRIX DENSITY : 2.68
MAGNETIC DECL : 17.0

LOG PARAMETERS
NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 99999

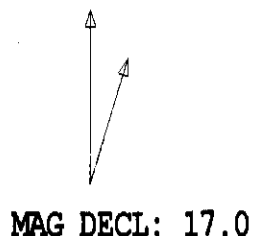
MATRIX DELTA T : 140
BIT SIZE : 13.018

TOOL CALIBRATION RH #28-86 07/31/06 15:11
TOOL 9067A
SERIAL NUMBER 530

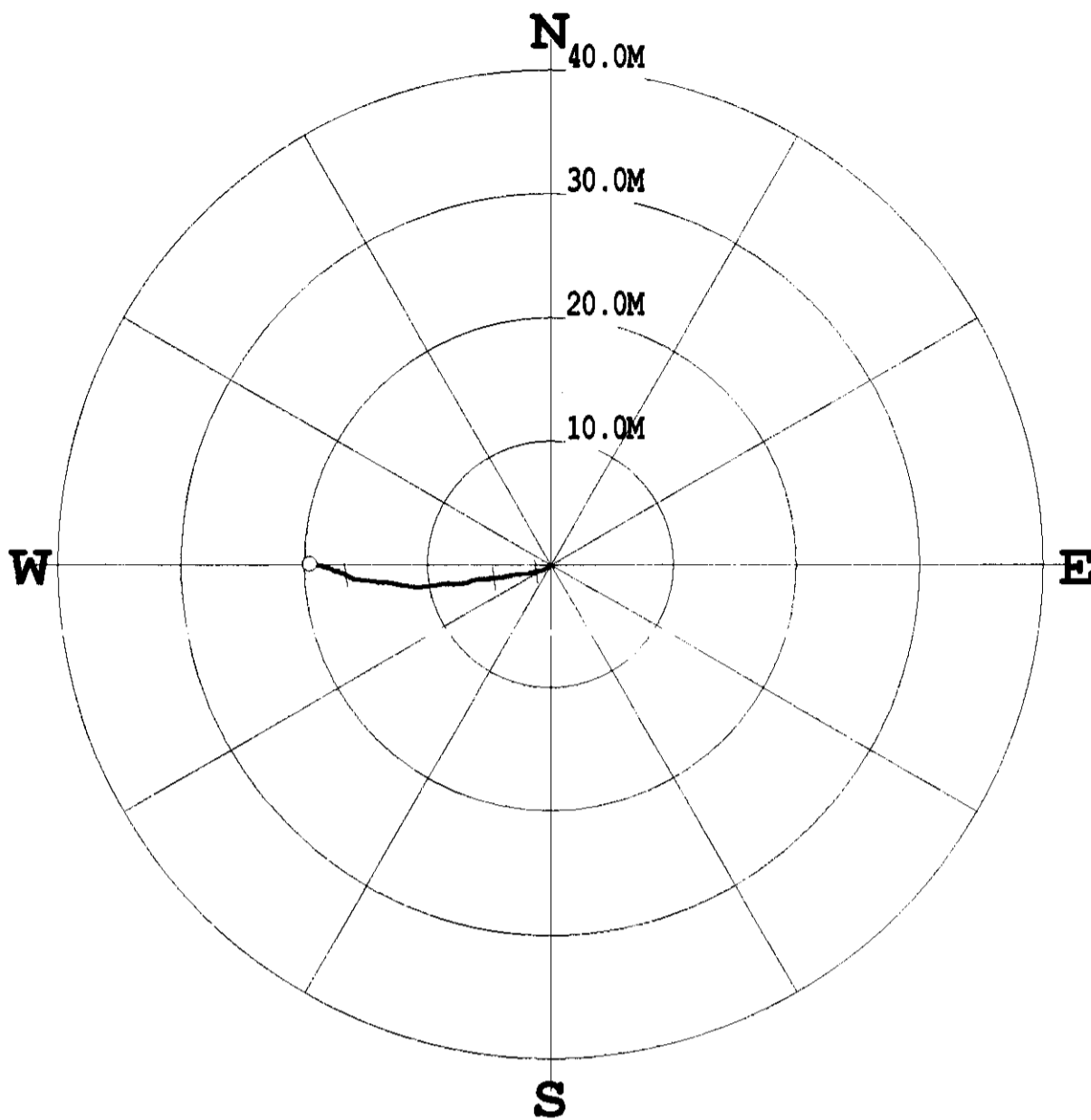
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Jul12.06 18:07:53	GAMMA	1.000 [API-GR]	1.00 [CPS]
	Jul12.06 18:07:53	GAMMA	250.000 [API-GR]	80.00 [CPS]
2	Jul08.06 14:23:13	NEUTRON	1.000 [API-N]	1.00 [CPS]
	Jul08.06 14:23:13	NEUTRON	500.000 [API-N]	500.00 [CPS]

PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION: N/A
 HOLE ID: RH #28-86
 DATE OF LOG: 07/31/06
 PROBE: 9057A 1067



SCALE: 5 M/CM
 TRUE DEPTH: 219.64 M
 AZIMUTH: 270.2
 DISTANCE: 19.5 M
 + = 50 M INCR
 ○ = BOTTOM OF HOLE



***** COMPU-LOG - VERTICAL DEVIATION *****

CLIENT : ELK VALLEY COAL HOLE ID. : RH #28-86
 FIELD OFFICE : DATE OF LOG : 07/31/06
 DATA FROM : N/A PROBE : 9057A , 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: \RH#28-86_07-31-06_18-52_9057A_.02_3.00_221.01_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
3.0	3.02	0.00	0.00	0.0	51.6	0.1	51.6
13.0	13.00	-0.03	-0.01	0.0	197.5	0.6	207.5
23.0	23.00	-0.15	-0.11	0.2	217.3	1.4	224.0
33.0	32.99	-0.30	-0.36	0.5	230.1	2.2	254.1
43.0	42.98	-0.44	-0.80	0.9	241.3	2.9	261.7
53.0	52.97	-0.56	-1.35	1.5	247.4	3.1	253.1
63.0	62.95	-0.72	-1.93	2.1	249.4	3.6	252.0
73.0	72.93	-0.77	-2.59	2.7	253.5	3.9	262.6
83.0	82.90	-0.88	-3.28	3.4	255.1	4.0	278.0
93.0	92.87	-1.00	-4.01	4.1	256.0	4.7	266.6
103.0	102.83	-1.07	-4.87	5.0	257.6	5.4	268.6
113.0	112.78	-1.15	-5.86	6.0	258.9	6.3	259.3
123.0	122.73	-1.45	-6.83	7.0	258.0	5.9	249.8
133.0	132.67	-1.53	-7.84	8.0	258.9	6.4	284.3
143.0	142.60	-1.58	-8.95	9.1	260.0	7.4	270.6
153.0	152.53	-1.76	-10.12	10.3	260.2	7.0	271.6
163.0	162.46	-1.76	-11.33	11.5	261.2	7.4	283.7
173.0	172.37	-1.54	-12.63	12.7	263.0	8.4	284.6
183.0	182.27	-1.38	-14.05	14.1	264.4	8.1	279.5
193.0	192.16	-1.22	-15.48	15.5	265.5	8.5	267.4
203.0	202.03	-0.68	-16.92	16.9	267.7	9.4	276.0
213.0	211.91	-0.16	-18.34	18.3	269.5	8.9	268.4
220.8	219.64	0.06	-19.53	19.5	270.2	10.7	300.1



GAMMA LS DENSITY

RH #28-87

2887

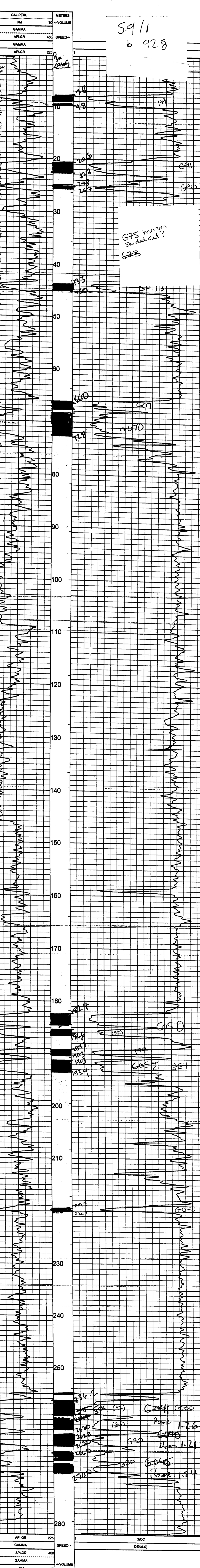
COMPANY	ELK VALLEY COAL	OTHER SERVICES
WELL	RH 428-87	9087
FIELD		9087
LOCALITY	ELKCO RD	9238
PROVINCE	BRITISH COLUMBIA	
LOCATION	CASILE MTR	
SECTION	26699-235	
TOWNSHIP	N 2514 246	
RANGE	1720 555	
API NO.		
UNIQUE WELL ID	CASILE	ELEVATION NS
PERMITS/DATUM		ELEVATION OF
LOG MEASURED FROM	GL	ELEVATION GL
DATE	06/22/06	
DEPTH DRILLER	282	
BIT SIZE	13.336	
LOG TOP	0.30	
LOG BOTTOM	282.00	
CASING OD	17.78	
CASING BOTTOM	3	
CASING TYPE	STEEL	
BOREHOLE FLUID	WATER	
RM TEMPERATURE		
MUD RES		
MUD WEIGHT		
RECORDED BY		
CHECK		
REMARKS 1	514 - BIT TO TD	
REMARKS 2		

GAMMA LS DENSITY RH #28-87 06/22/06

MATRIX DENSITY : 2.68
MAGNETIC DECL : 17.0

LOG PARAMETERS
NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 00000

MATRIX DELTA T : 140
BIT SIZE : 13.335

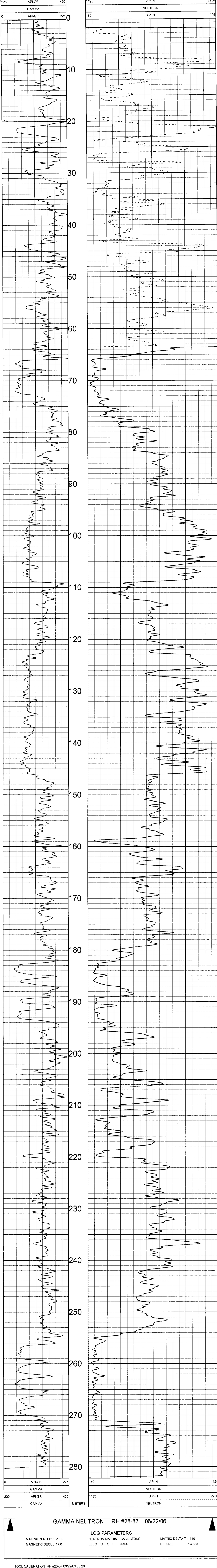


API-GR	225	GCC	3
GAMMA	SPEED->	DEN(LS)	
225	API-GR	450	
	GAMMA		
10	CM	30	
	CALIPERL		

COMPANY	ELK VALLEY COAL	OTHER SERVICES	9657
WELL	RH #28-87		957
MUNICIPALITY	ELK FORD		9239
PROVINCE	BRITISH COLUMBIA		
LOCATION	CASTLE MTN		
SECTION			
TOWNSHIP			
RANGE			
API NO			
UNIT/UL WELL ID			
PERMANENT DATUM		ELEVATION KB	
LOG MEASURED FROM	G.L.	ELEVATION DF	
DRI. MEASURED FROM	G.L.	ELEVATION GI	
DATE	06/22/06		
DEPTH DRILLER	282		
BIT SIZE	13.335		
LOG TOP	0.30		
LOG BOTTOM	282.18		
CASING OD	17.78		
CASING BOTTOM	1		
CASING TYPE	STEEL		
BOREHOLE FLUID	WATER		
MUD RES			
MUD WEIGHT			
RECORDED BY	RHECK		
REMARKS 1	5/4" BIT TO TD		
REMARKS 2			

GAMMA NEUTRON RH #28-87 06/22/06

LOG PARAMETERS
 MATRIX DENSITY : 2.68 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 140
 MAGNETIC DECL : 17.0 ELECT. CUTOFF : 99999 BIT SIZE : 13.335



GAMMA NEUTRON RH #28-87 06/22/06

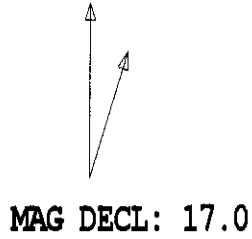
LOG PARAMETERS
 MATRIX DENSITY : 2.68 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 140
 MAGNETIC DECL : 17.0 ELECT. CUTOFF : 99999 BIT SIZE : 13.335

TOOL CALIBRATION RH #28-87 06/22/06 08:29
 TOOL 9057A
 SERIAL NUMBER 1087

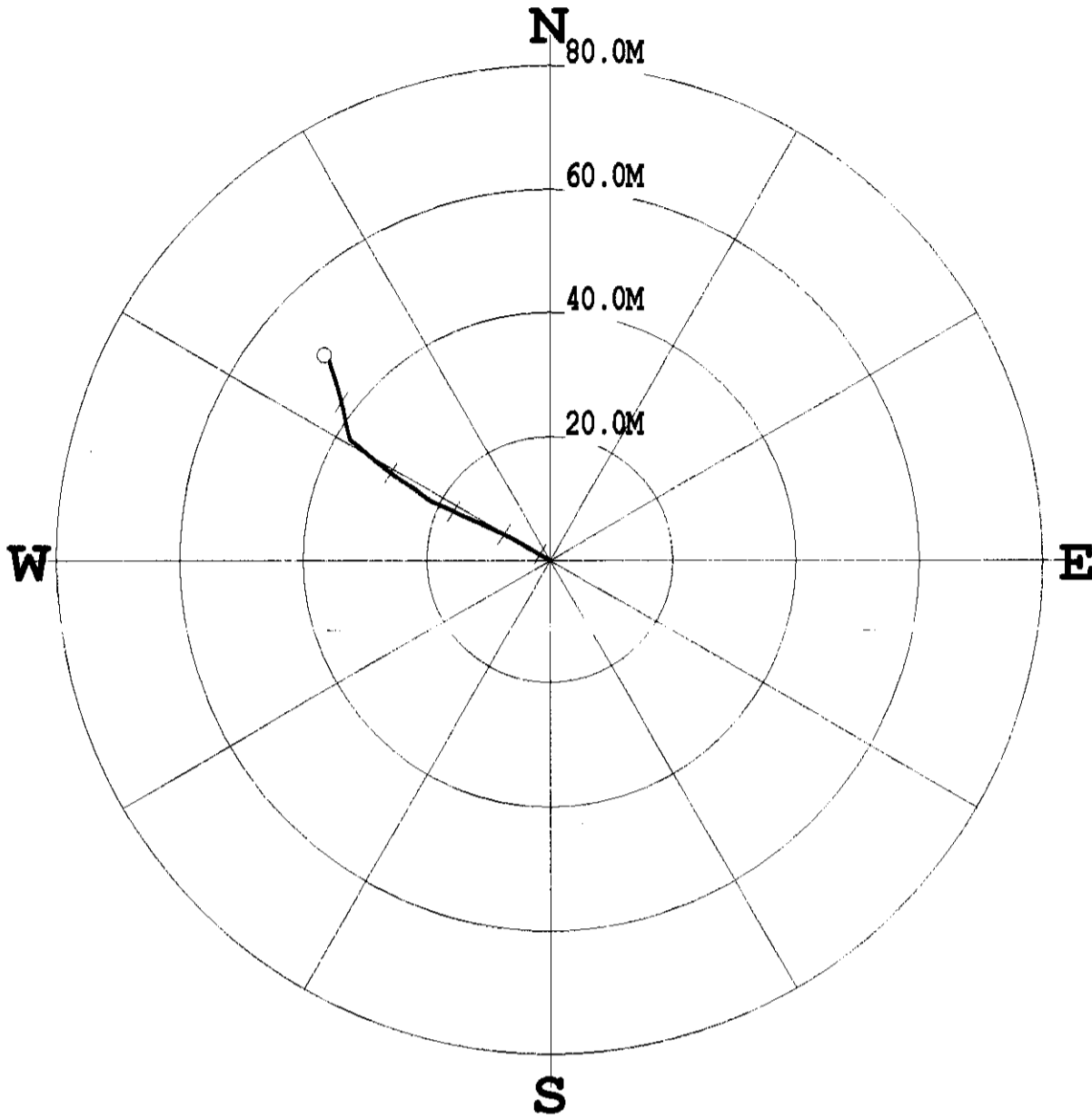
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	May22.06	GAMMA	0.000 [API-GR]	1.00 [CPS]
	May22.06	GAMMA	325.000 [API-GR]	325.00 [CPS]
2	Oct24.05	NEUTRON	Default [CPS]	Default [CPS]
	Oct24.05	NEUTRON	152.000 [API-N]	167.00 [CPS]
3	Dec01.05	SP	Default [CPS]	Default [CPS]
	Dec01.05	SP	Default [CPS]	Default [CPS]
4	Dec01.05	RES(16N)	Default [CPS]	Default [CPS]
	Dec01.05	RES(16N)	Default [CPS]	Default [CPS]
5	Dec01.05	RES(64N)	Default [CPS]	Default [CPS]
	Dec01.05	RES(64N)	Default [CPS]	Default [CPS]
6	Dec01.05	TEMP	Default [CPS]	Default [CPS]
	Dec01.05	TEMP	Default [CPS]	Default [CPS]
7	Dec01.05	RES	Default [CPS]	Default [CPS]
	Dec01.05	RES	Default [CPS]	Default [CPS]
8	Apr12.02	POR(NEU)	100.000 [PERCENT]	178.00 [CPS]

PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION:
 HOLE ID: RH #28-87
 DATE OF LOG: 06/22/06
 PROBE: 9057A 1067



SCALE: 10 M/CM
 TRUE DEPTH: 275.76 M
 AZIMUTH: 312.1
 DISTANCE: 49.3 M
 + = 50 M INCR
 ○ = BOTTOM OF HOLE



***** COMPU-LOG - VERTICAL DEVIATION *****

CLIENT : ELK VALLEY COAL HOLE ID. : RH #28-87
 FIELD OFFICE : DATE OF LOG : 06/22/06
 DATA FROM : PROBE : 9057A , 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: \RH#28-87_06-22-06_06-29_9057A_.02_0.30_282.18_DEVI.log

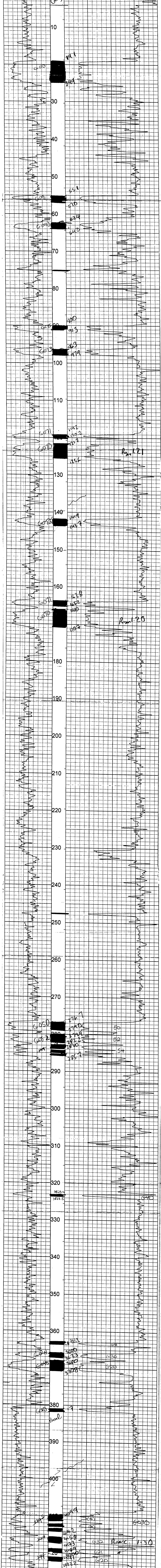
CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
0.3	0.28	0.00	0.02	0.0	81.0	-999999.0	-999639.0
10.3	10.27	0.10	-0.00	0.1	358.1	1.2	304.4
20.3	20.26	0.20	-0.20	0.3	314.9	1.7	298.4
30.3	30.26	0.38	-0.53	0.7	305.4	2.0	294.8
40.3	40.24	0.63	-1.01	1.2	301.9	3.6	297.1
50.3	50.21	1.01	-1.66	1.9	301.4	5.1	307.4
60.3	60.16	1.50	-2.50	2.9	301.0	6.3	296.4
70.3	70.09	2.05	-3.55	4.1	300.0	7.3	298.6
80.3	80.00	2.74	-4.70	5.4	300.2	8.2	300.2
90.3	89.89	3.44	-6.00	6.9	299.8	8.6	291.7
100.3	99.76	4.15	-7.42	8.5	299.2	9.4	301.0
110.3	109.62	4.84	-8.89	10.1	298.6	9.8	300.8
120.3	119.48	5.54	-10.43	11.8	298.0	9.9	293.1
130.3	129.32	6.23	-12.01	13.5	297.4	10.4	292.5
140.3	139.15	6.91	-13.67	15.3	296.8	11.1	305.4
150.3	148.96	7.77	-15.43	17.3	296.7	11.6	297.5
160.3	158.74	8.63	-17.27	19.3	296.6	11.8	303.9
170.3	168.52	9.46	-19.19	21.4	296.2	12.6	292.0
180.3	178.24	10.80	-21.09	23.7	297.1	14.3	308.5
190.3	187.92	12.21	-23.15	26.2	297.8	14.8	309.2
200.3	197.58	13.68	-25.23	28.7	298.5	14.9	306.3
210.3	207.23	15.27	-27.30	31.3	299.2	16.2	310.7
220.3	216.86	17.00	-29.37	33.9	300.1	16.1	313.7
230.3	226.46	18.82	-31.47	36.7	300.9	16.1	310.6
240.3	236.04	21.20	-32.80	39.1	302.9	17.8	350.8
250.3	245.56	24.18	-33.43	41.3	305.9	18.2	348.7
260.3	255.07	27.18	-34.17	43.7	308.5	16.9	345.0
270.3	264.61	30.03	-35.05	46.2	310.6	17.8	345.9
280.3	274.14	32.80	-36.09	48.8	312.3	17.1	300.4
282.0	275.76	33.06	-36.52	49.3	312.1	17.1	301.3

century-geo.com
RH #28-88
OTHER SERVICES
9061
9067

COMPANY: ELK VALLEY COAL
WELL: RH 28-88
MUNICIPALITY: BRITISH COLUMBIA
PROVINCE: CASTLE MTN.
LOCATION: 26898 2E
SECTION: 142 807.8 N
TOWNSHIP: 1765.8 W

PERMANENT EXITS:
ELEVATION OF:
LOC. MEASURED FROM: C.L.
ELEVATION OF:
DATE: 05/20/98
DRILLER: 431
BIT SIZE: 13.35

LOG TOP: 0.50
LOG BOTTOM: 432.03
CASING OD: 17.78
CASING TYPE: STEEL
ROD/POLE FLUID: WATER
RIN TEMPERATURE:
MUD WEIGHT:
RECORDED BY: JHBRK
REMARKS 1: 26898-05-06
REMARKS 2:
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



century-geo.com

COMPANY : ELK VALLEY COAL
 WELL : RH #28-88
 FIELD :
 MUNICIPALITY : ELKTON
 COUNTY : BRITISH COLUMBIA

LOCATION : CASTLE MTN
 SECTION :
 TOWNSHIP :
 RANGE :

APRNO :
 UNIQUE WELL ID :

PERMANENT DATUM :
 LOG MEASURED FROM : G.L.
 DATE : 05/27/06

DEPTH ORIFER : 431
 BJT SIZE : 13.325
 LOG TOP : 03.37
 LOG BOTTOM : 431.95

CASING OD : 17.78
 CASING BOTTOM : 3.5

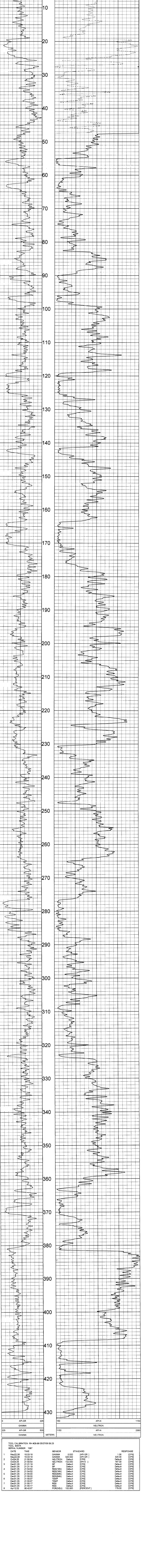
BORING TYPE : STEEL
 BOREHOLE FLUID : WATER

RM TEMPERATURE :
 MUD RES :
 MUD WEIGHT :
 RECORDED BY : R. HICK

REMARKS 1 :
 REMARKS 2 :
 REMARKS 3 :

OTHER SERVICES :
 5007
 5004

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



TOOL CALIBRATION RH #28-88 05/27/06 09 23

TOOL	SERIAL NUMBER	DATE	TIME	SENSOR	STANDARD	RESPONSE
1	1087	May22.06	15:03:18	GAMMA	0.000 [API-GR]	1.00 [CPS]
2		May22.06	15:03:18	GAMMA	325.000 [API-GR]	325.00 [CPS]
3		Oct24.05	21:50:54	NEUTRON	Default [CPS]	Default [CPS]
4		Oct24.05	21:50:54	NEUTRON	152.000 [API-N]	167.00 [CPS]
5		Dec01.05	21:21:19	SP	Default [CPS]	Default [CPS]
6		Dec01.05	21:21:19	RES(16N)	Default [CPS]	Default [CPS]
7		Dec01.05	21:54:52	RES(16N)	Default [CPS]	Default [CPS]
8		Dec01.05	21:55:00	RES(64N)	Default [CPS]	Default [CPS]
9		Dec01.05	21:55:00	RES(64N)	Default [CPS]	Default [CPS]
10		Dec01.05	21:55:07	TEMP	Default [CPS]	Default [CPS]
11		Dec01.05	21:55:07	TEMP	Default [CPS]	Default [CPS]
12		Dec01.05	21:55:17	RES	Default [CPS]	Default [CPS]
13		Dec01.05	21:55:17	RES	Default [CPS]	Default [CPS]
14		Apr12.02	00:42:07	POR(NEU)	100.000 [PERCENT]	178.00 [CPS]

GAMMA LS DENSITY

RH 2889

2889

COMPANY : ESK VALLEY COAL
WELL : RH 2889
FIELD : NA
MUNICIPALITY : ELRFORD
PROVINCE : BRITISH COLUMBIA
LOCATION : CASTLE MTN
SECTION : NA
TOWNSHIP : NA
RANGE : NA
APN NO. : NA
LANDUSE WELL ID : NA
PERMANENT DATUM : NA
LOG MEASUREMENT FROM : G.L.
DATE : 08/05/06
DEPTH DRILLER : 311
BIT SIZE : 12.70

ELEVATION RE: NA
ELEVATION DE: NA
ELEVATION QL: NA

142 948.1 m
1737.3 m

LOG TOP : 0.29
LOG BOTTOM : 311.00
CASING OD : 17.78
CASING BOTTOM : 3
CASING TYPE : STEEL
BOP/POLE FLUID : WATER
FORM TEMPERATURE : NA
MUD RES : NA
MUD WEIGHT : NA
RECORDED BY : R. MECK
REMARKS 1 : 51Z HB TO ZIN N, 5.0' RB TO TD
REMARKS 2 : NA

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

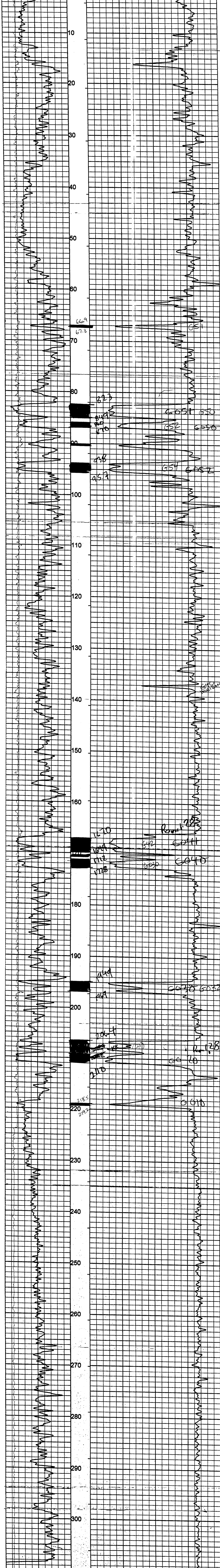
200 PLOT RATIO RH 2889 08/05/06

MATRIX DENSITY : 2.68
MAGNETIC DECL. : 17.0

LOG PARAMETERS
NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 90000

MATRIX DELTA T : 140
BIT SIZE : 12.70

17.3 /
b
FW 040



EN(LS) : 3
GCC

310

APLGR

APLGR

COMPANY	ELK VALLEY COAL	OTHER SERVICES	9057 9239 NA
WELL	RH 2889		
FIELD	N/A		
MUNICIPALITY	ELKFORSD		
PROVINCE	BRITISH COLUMBIA		
LOCATION	CASTLE MTN		
SECTION	N/A		
TOWNSHIP	N/A		
RANGE	N/A		
API NO.	N/A		
UNIQUE WELL ID	N/A		
PERMANENT DATUM	N/A	ELEVATION RB	N/A
LOG MEASURED FROM	G.L.	ELEVATION DF	N/A
DRS. MEASURED FROM	G.L.	ELEVATION CL	N/A

DATE	08/04/06
DEPTH DRILLER	311
BIT SIZE	12.70
LOG TOP	0.35
LOG BOTTOM	310.50
CASING OD	17.78
CASING TYPE	STEEL
ROTHOLE FLUID	WATER
RAM TEMPERATURE	N/A
MUD RES	N/A
MUD WEIGHT	N/A

RECORDED BY : R HECK
 REMARKS 1 : 512" RB TO 224 M, 5.0" RB TO TD
 REMARKS 2 : LOG THRU DRILL PIPE
 ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

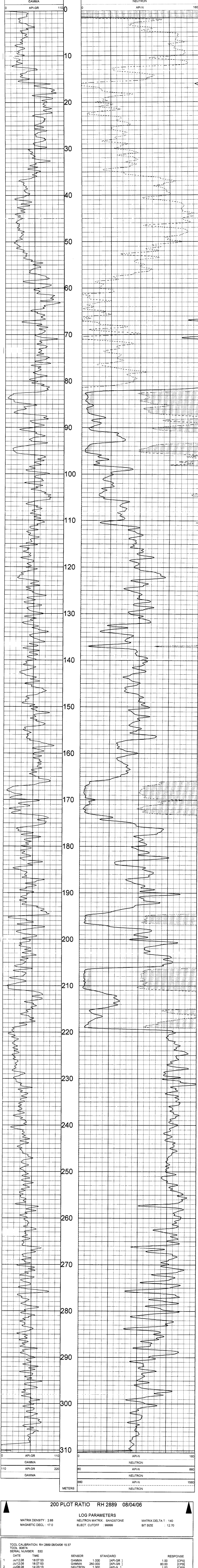
200 PLOT RATIO RH 2889 08/04/06

LOG PARAMETERS

MATRIX DENSITY : 2.68
 MAGNETIC DECL : 17.0

NEUTRON MATRIX : SANDSTONE
 ELECT. CUTOFF : 99999

MATRIX DELTA T : 140
 BIT SIZE : 12.70



200 PLOT RATIO RH 2889 08/04/06

LOG PARAMETERS

MATRIX DENSITY : 2.68
 MAGNETIC DECL : 17.0

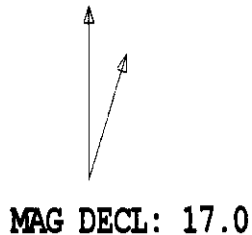
NEUTRON MATRIX : SANDSTONE
 ELECT. CUTOFF : 99999

MATRIX DELTA T : 140
 BIT SIZE : 12.70

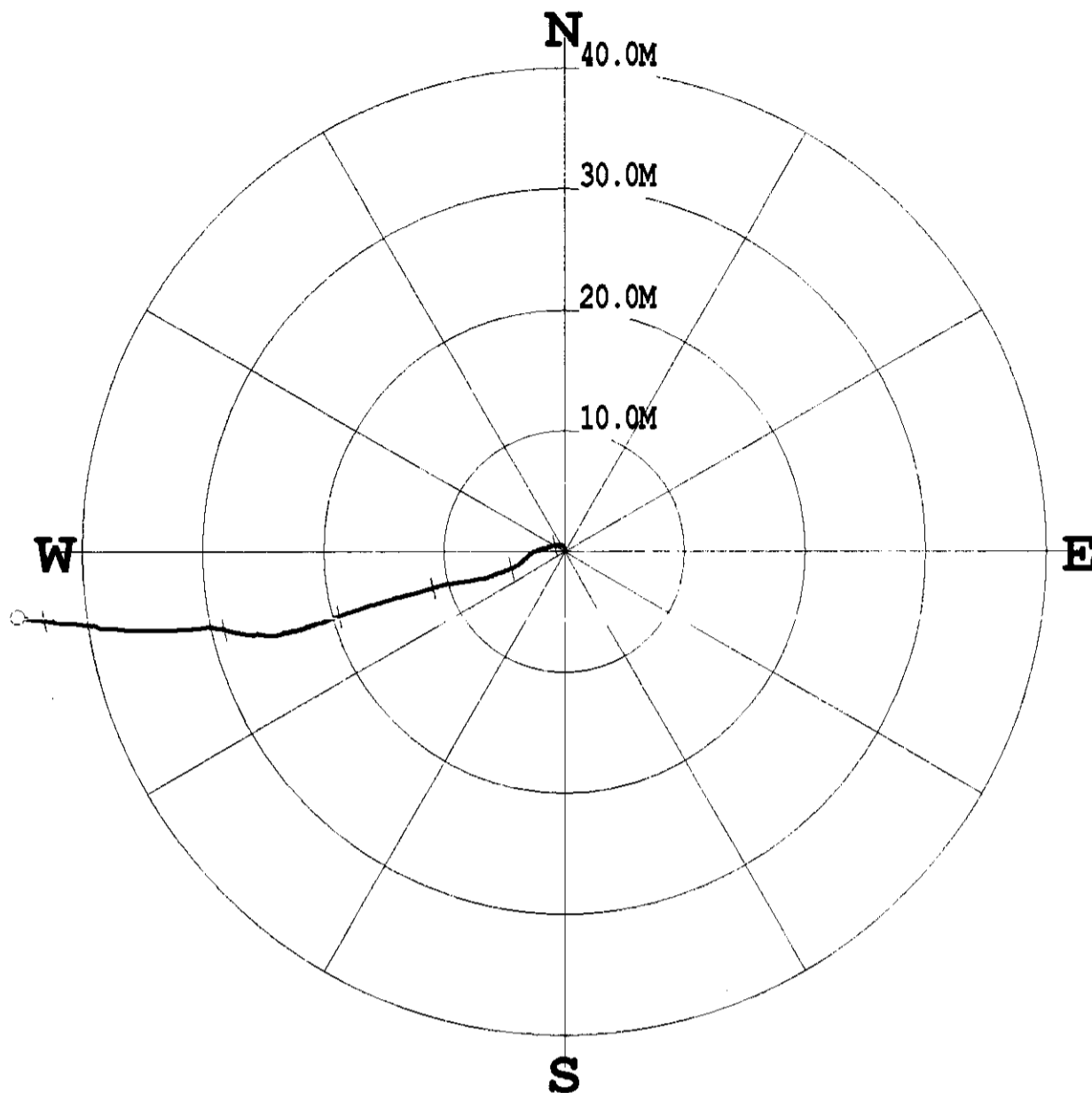
TOOL CALIBRATION RH 2889 08/04/06 15:37			
TOOL : 9067A			
SERIAL NUMBER : 530			
DATE	TIME	SENSOR	STANDARD
1	Jul12.06 18:07:53	GAMMA	1.000 [API-GR]
	Jul12.06 18:07:53	GAMMA	250.000 [API-GR]
2	Jul08.06 14:23:13	NEUTRON	1.000 [API-N]
	Jul08.06 14:23:13	NEUTRON	500.000 [API-N]
			RESPONSE
			1.00 [CPS]
			80.00 [CPS]
			1.00 [CPS]
			500.00 [CPS]

PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION: N/A
 HOLE ID: RH 2889
 DATE OF LOG: 08/05/06
 PROBE: 9057A 1067



SCALE: 5 M/CM
 TRUE DEPTH: 305.87 M
 AZIMUTH: 263.3
 DISTANCE: 45.6 M
 + = 50 M INCR
 ○ = BOTTOM OF HOLE



* * * * * COMPU-LOG - VERTICAL DEVIATION * * * * *

CLIENT : ELK VALLEY COAL HOLE ID. : RH 2889
 FIELD OFFICE : DATE OF LOG : 08/05/06
 DATA FROM : N/A PROBE : 9057A , 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: RH2889_08-05-06_08-37_9057A_.02_3.00_311.14_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
3.0	3.02	0.00	-0.00	0.0	274.3	0.4	274.3
13.0	13.00	0.12	0.00	0.1	0.3	0.9	355.5
23.0	23.00	0.28	-0.01	0.3	358.0	1.0	351.3
33.0	33.00	0.46	-0.10	0.5	348.0	1.5	310.2
43.0	42.99	0.55	-0.44	0.7	321.4	2.7	266.7
53.0	52.97	0.47	-0.99	1.1	295.4	3.8	277.5
63.0	62.95	0.33	-1.59	1.6	281.6	3.9	285.5
73.0	72.93	0.13	-2.25	2.3	273.4	4.6	268.3
83.0	82.89	-0.30	-2.99	3.0	264.2	5.5	231.7
93.0	92.83	-0.94	-3.76	3.9	255.9	6.0	196.1
103.0	102.77	-1.47	-4.71	4.9	252.7	6.6	259.9
113.0	112.69	-1.84	-5.84	6.1	252.5	7.4	272.0
123.0	122.61	-2.17	-7.05	7.4	252.9	8.1	258.9
133.0	132.51	-2.43	-8.39	8.7	253.8	8.3	259.6
143.0	142.40	-2.62	-9.80	10.1	255.0	8.7	264.1
153.0	152.28	-3.01	-11.27	11.7	255.1	8.8	241.5
163.0	162.17	-3.40	-12.68	13.1	255.0	8.7	245.7
173.0	172.03	-3.81	-14.22	14.7	255.0	9.9	248.2
183.0	181.90	-4.31	-15.79	16.4	254.7	7.6	239.6
193.0	191.75	-4.79	-17.40	18.0	254.6	10.0	255.6
203.0	201.59	-5.35	-18.98	19.7	254.3	10.1	240.1
213.0	211.44	-5.90	-20.58	21.4	254.0	10.6	267.5
223.0	221.26	-6.45	-22.25	23.2	253.8	10.6	248.3
233.0	231.07	-6.83	-24.09	25.0	254.2	11.8	269.6
243.0	240.84	-6.77	-26.15	27.0	255.5	12.5	261.1
253.0	250.57	-6.31	-28.39	29.1	257.5	14.2	279.9
263.0	260.26	-6.31	-30.76	31.4	258.4	12.6	234.6
273.0	269.91	-6.44	-33.39	34.0	259.1	16.1	271.4
283.0	279.48	-6.40	-36.27	36.8	260.0	17.8	277.0
293.0	288.98	-6.03	-39.30	39.8	261.3	19.2	282.2
303.0	298.41	-5.70	-42.60	43.0	262.4	19.9	277.8
311.0	305.87	-5.35	-45.33	45.6	263.3	20.7	278.2



**GAMMA - NEUTRON
LOG THRU DRILL PIPE**
RH #28-90

Century-geo.com

OTHER SERVICES:
9097
9097
9097

2890

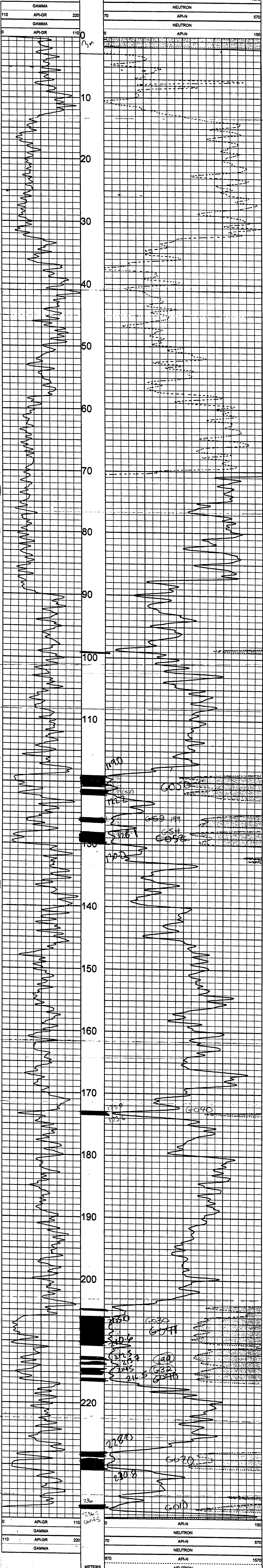
COMPANY : ELK VALLEY COAL
WELL : RH #28-90
FIELD : NA
MUNICIPALITY : ELKFORO
PROVINCE : BRITISH COLUMBIA

LOCATION : CASTLE MTN. 26452.8E
SECTION : NA
TOWNSHIP : NA
RANGE : 142.9938 N
API NO. : NA
UNIQUE WELL ID. : 17219m
PERMANENT DTM : NA
LOG MEASURED FROM : G.L.
ELEVATION OF NA : 31
ELEVATION OF NA : 31

DATE : 07/20/06
DEPTH DRILLER : 242
BIT SIZE : 12.70
LOG TOP : 0.30
LOG BOTTOM : 228.56
CASING O.D. : 17.78
CASING TYPE : 3
BORINGHOLE FLUID : WATER
MUD RES : NA
MUD WEIGHT : NA
RECORDED BY : RHECK
REMARKS 1 : LOG THRU DRILL PIPE
REMARKS 2 : ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

11-08-06

200 PLOT RATIO GAMMA
MATRIX DENSITY : 2.68
MAGNETIC DECL. : 17.0
MATRIX DELTA T : 140
SIZE : 12.70
07/29/06



Century-geo.com
 RH 2891

2891
 OTHER SERVICES
 907
 911

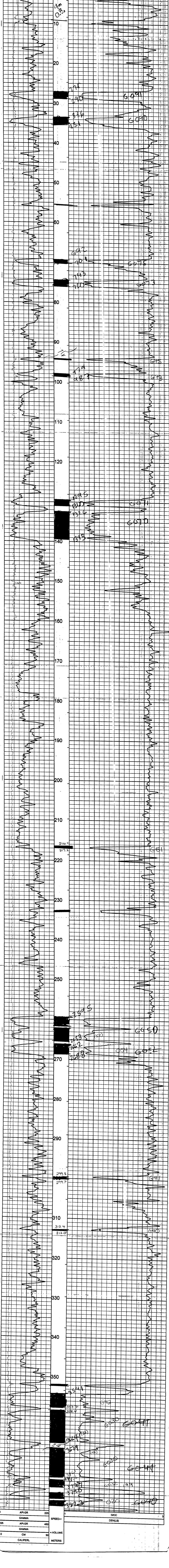
COMPANY: ELK VALLEY COAL
 WELL: RH 2891
 FIELD: VA
 MUNICIPALITY: ELDFORD
 PROVINCE: BRITISH COLUMBIA
 LOCATION: CASTLE MTN
 SECTION: 26866 G E
 TOWNSHIP: VA
 RANGE: VA
 API NO.: VA
 UNIQUE WELL ID: 1429462N
 PERMANENT DATUM: ELEVATION TO: N/A
 LOG MEASURED FROM: G.L.
 ELEVATION OF: N/A
 DATE: 08/06
 DEPTH DRIETER: 94
 BR SIZE: 17.0
 LOG TOP: 0.31
 LOG BOTTOM: 33.49
 CASING OD: 17.8
 CASING BOTTOM: 3
 STEEL
 BOREHOLE FLUID: WATER
 RH TEMPERATURE: N/A
 MUD RES: N/A
 MUD WEIGHT: N/A
 RECORDED BY: RICK
 REMARKS 1: 51Z HB TO 175.4, 54F RB TO 255.4, 5.0' RB TO TD
 REMARKS 2: N/A
 ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

1:200 BULK DENSITY RH 2891 08/15/06

MATRIX DENSITY: 2.68
 MAGNETIC DECL: 17.0

MATRIX DELTA: 140
 IT SIZE: 12.70

80 lb
 070
 68 lb
 040



COMPANY : ELK VALLEY COAL
WELL : RH 2891
MUNICIPALITY : BRITISH COLUMBIA
LOCATION : CASTLE MTN
SECTION :
TOWNSHIP :
RANGE :
APN NO :
UNIQUE WELL ID :

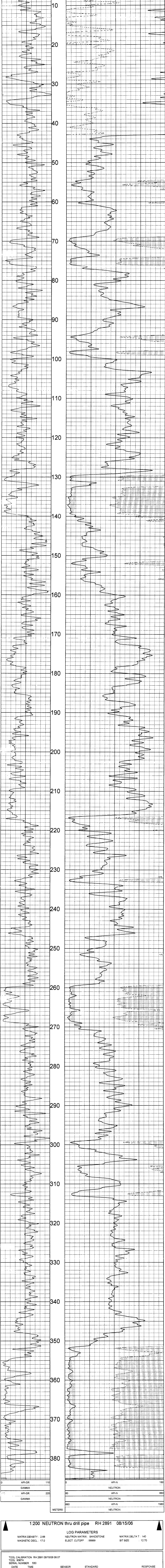
OTHER SERVICES :
9067
9239
N/A

PERMANENT DATA : N/A
LOG MEASURED FROM : G.L.
ELEVATION OF : N/A
ELEVATION OF : N/A
DATE : 08/08/06
DEPTH DRILLER :
BIT SIZE : 12.70
LOG TOP : 0.40
LOGS BOTTOM : 385.34
CASINO QD : 17.78
CASINO BOTTOM : 9

CASINO TYPE : STEEL
ROD/PIPE FLUID : WATER
RM TEMPERATURE : N/A
MUD RES : N/A
MUD WEIGHT : N/A
RECORDED BY : R-HECK
REMARKS 1 : 51/2" HB TO 175 M, 51/4" RB TO 265 M, 4" RB TO TD
REMARKS 2 : LOG THRU DRILL PIPE
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

1:200 NEUTRON thru drill pipe RH 2891 08/15/06

MATRIX DENSITY : 2.88
MAGNETIC DECL : 17.0
LOG PARAMETERS
NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 99999
MATRIX DELTA T : 140
BIT SIZE : 12.70



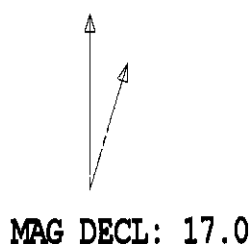
1:200 NEUTRON thru drill pipe RH 2891 08/15/06

MATRIX DENSITY : 2.88
MAGNETIC DECL : 17.0
LOG PARAMETERS
NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 99999
MATRIX DELTA T : 140
BIT SIZE : 12.70

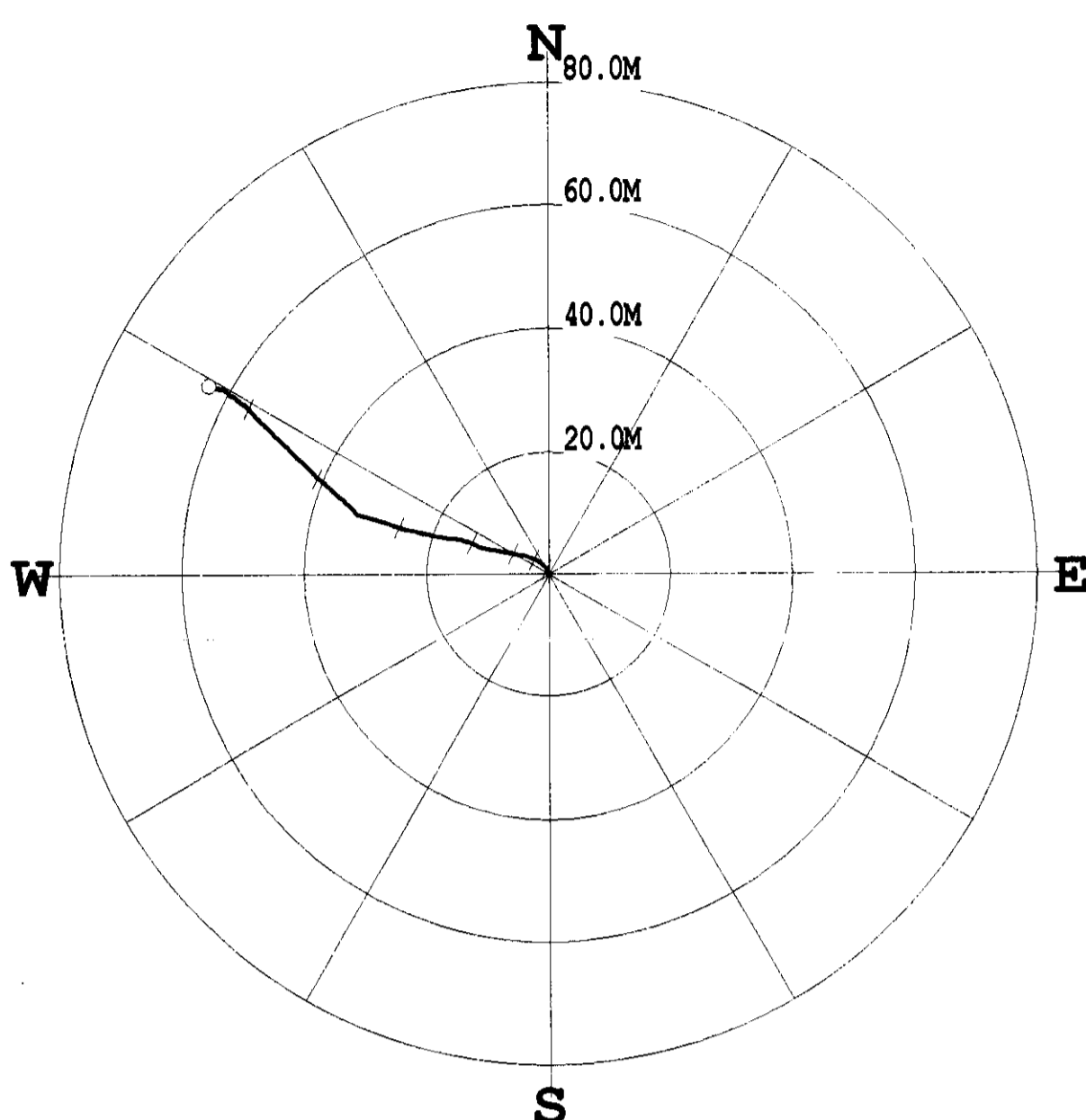
TOOL CALIBRATION RH 2891 08/15/06 08:07				SERIAL NUMBER 530			
DATE	TIME	SENSOR	STANDARD	RESPONSE			
1	JUL12 08 18:07:53	GAMMA	1.000 [API-GR]	1.00	[CPS]		
2	JUL12 08 18:07:53	GAMMA	250.000 [API-GR]	80.00	[CPS]		
1	JUL08 08 14:23:13	NEUTRON	1.000 [API-N]	1.00	[CPS]		
2	JUL08 08 14:23:13	NEUTRON	500.000 [API-N]	500.00	[CPS]		

PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION: N/A
 HOLE ID: RH 2891
 DATE OF LOG: 08/15/06
 PROBE: 9057A 1067



SCALE: 10 M/CM
 TRUE DEPTH: 374.84 M
 AZIMUTH: 299.0
 DISTANCE: 63.4 M
 + = 50 M INCR
 ○ = BOTTOM OF HOLE



* * * * * COMPU-LOG - VERTICAL DEVIATION * * * * *

CLIENT : ELK VALLEY COAL HOLE ID. : RH 2891
 FIELD OFFICE : DATE OF LOG : 08/15/06
 DATA FROM : N/A PROBE : 9057A , 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: RH2891_08-15-06_13-32_9057A_.02_3.00_383.55_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
3.0	3.02	0.00	-0.00	0.0	352.2	0.1	352.2
13.0	13.00	0.02	-0.00	0.0	358.7	0.9	1.1
23.0	23.00	0.22	-0.04	0.2	350.2	1.2	337.6
33.0	32.99	0.42	-0.12	0.4	344.1	1.6	332.7
43.0	42.99	0.66	-0.27	0.7	337.6	1.7	328.9
53.0	52.99	0.95	-0.45	1.0	334.8	2.0	324.6
63.0	62.98	1.26	-0.70	1.4	331.0	2.7	320.7
73.0	72.97	1.59	-1.02	1.9	327.4	3.1	309.8
83.0	82.95	1.92	-1.45	2.4	322.9	3.5	308.5
93.0	92.93	2.25	-1.97	3.0	318.7	4.0	302.2
103.0	102.91	2.54	-2.60	3.6	314.3	3.9	292.3
113.0	112.88	2.78	-3.23	4.3	310.7	3.8	285.5
123.0	122.86	2.97	-3.88	4.9	307.4	4.0	290.8
133.0	132.84	3.12	-4.56	5.5	304.3	4.0	270.2
143.0	142.81	3.26	-5.29	6.2	301.6	4.1	277.7
153.0	152.78	3.39	-6.04	6.9	299.3	4.8	273.5
163.0	162.74	3.56	-6.95	7.8	297.1	6.0	282.8
173.0	172.67	3.79	-8.10	8.9	295.1	7.3	275.2
183.0	182.56	4.03	-9.54	10.4	292.9	9.3	272.3
193.0	192.41	4.44	-11.18	12.0	291.6	11.3	281.4
203.0	202.20	5.21	-12.99	14.0	291.8	14.9	321.1
213.0	211.96	5.69	-15.00	16.0	290.8	12.3	307.5
223.0	221.72	5.95	-17.11	18.1	289.2	13.3	280.7
233.0	231.43	6.42	-19.43	20.5	288.3	14.4	284.7
243.0	241.09	7.02	-21.94	23.0	287.7	16.0	284.4
253.0	250.69	7.71	-24.64	25.8	287.4	16.8	286.1
263.0	260.23	8.65	-27.46	28.8	287.5	17.4	288.8
273.0	269.75	9.49	-30.37	31.8	287.4	17.4	279.6
283.0	279.24	11.35	-32.75	34.7	289.1	19.5	322.9
293.0	288.72	13.45	-35.08	37.6	291.0	18.6	317.0
303.0	298.22	15.52	-37.36	40.5	292.6	17.9	318.8
313.0	307.73	17.71	-39.54	43.3	294.1	17.6	311.5
323.0	317.23	19.80	-41.76	46.2	295.4	18.1	317.3
333.0	326.75	21.93	-43.92	49.1	296.5	17.1	309.8
343.0	336.28	24.07	-46.00	51.9	297.5	17.9	315.1
353.0	345.82	26.12	-48.12	54.8	298.5	18.1	320.3
363.0	355.34	28.11	-50.32	57.6	299.2	17.6	309.4
373.0	364.89	29.85	-52.66	60.5	299.6	17.3	319.0
383.0	374.48	30.65	-55.34	63.3	299.0	16.3	286.5
383.4	374.84	30.68	-55.45	63.4	299.0	16.5	287.8

MATRIX DENSITY : 2.68
MAGNETIC DECL : 17.0

G.2/1

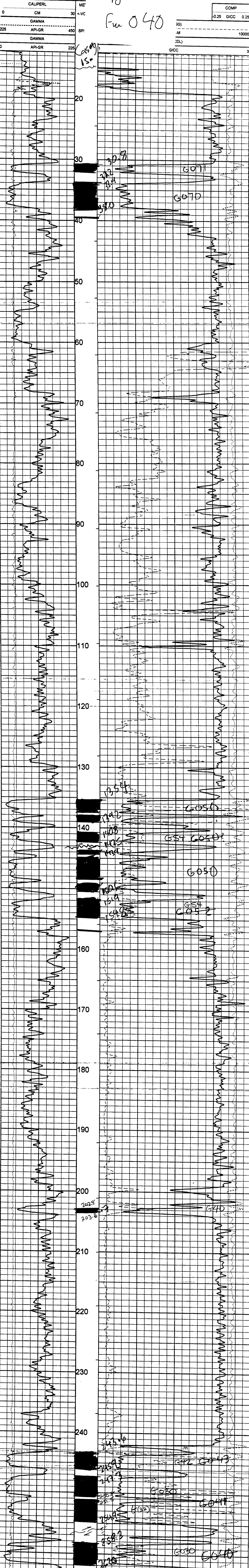
2892

MATRIX DELTA T : 140
BIT SIZE : 12.70



to

From 040

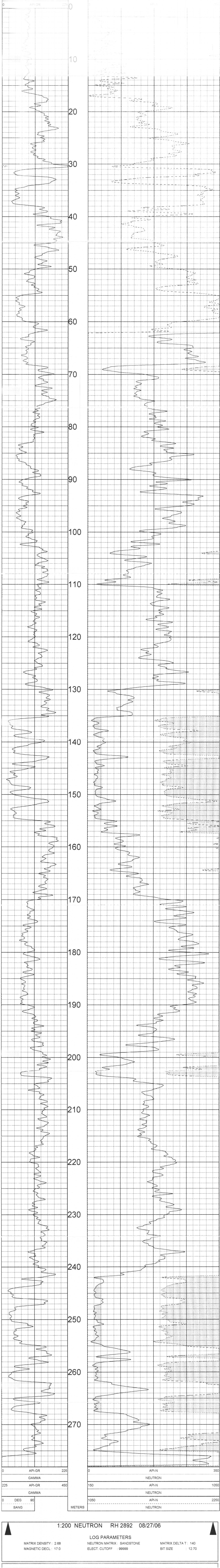


1:200 NEUTRON RH 2892 08/27/06

MATRIX DENSITY : 2.86
 MAGNETIC DECL : 17.0

LOG PARAMETERS
 NEUTRON MATRIX : SANDSTONE
 ELECT. CUTOFF : 99999

MATRIX DELTA T : 140
 BIT SIZE : 12.7



1:200 NEUTRON RH 2892 08/27/06

MATRIX DENSITY : 2.68
 MAGNETIC DECL : 17.0

LOG PARAMETERS
 NEUTRON MATRIX : SANDSTONE
 ELECT. CUTOFF : 99999

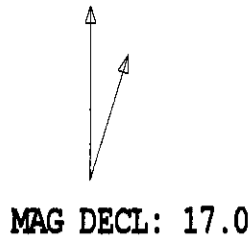
MATRIX DELTA T : 140
 BIT SIZE : 12.70

0	API-GR	225	0	API-N	350
225	GAMMA	450	150	NEUTRON	1050
0	DEG	90	1050	API-N	2250
	SANG			NEUTRON	

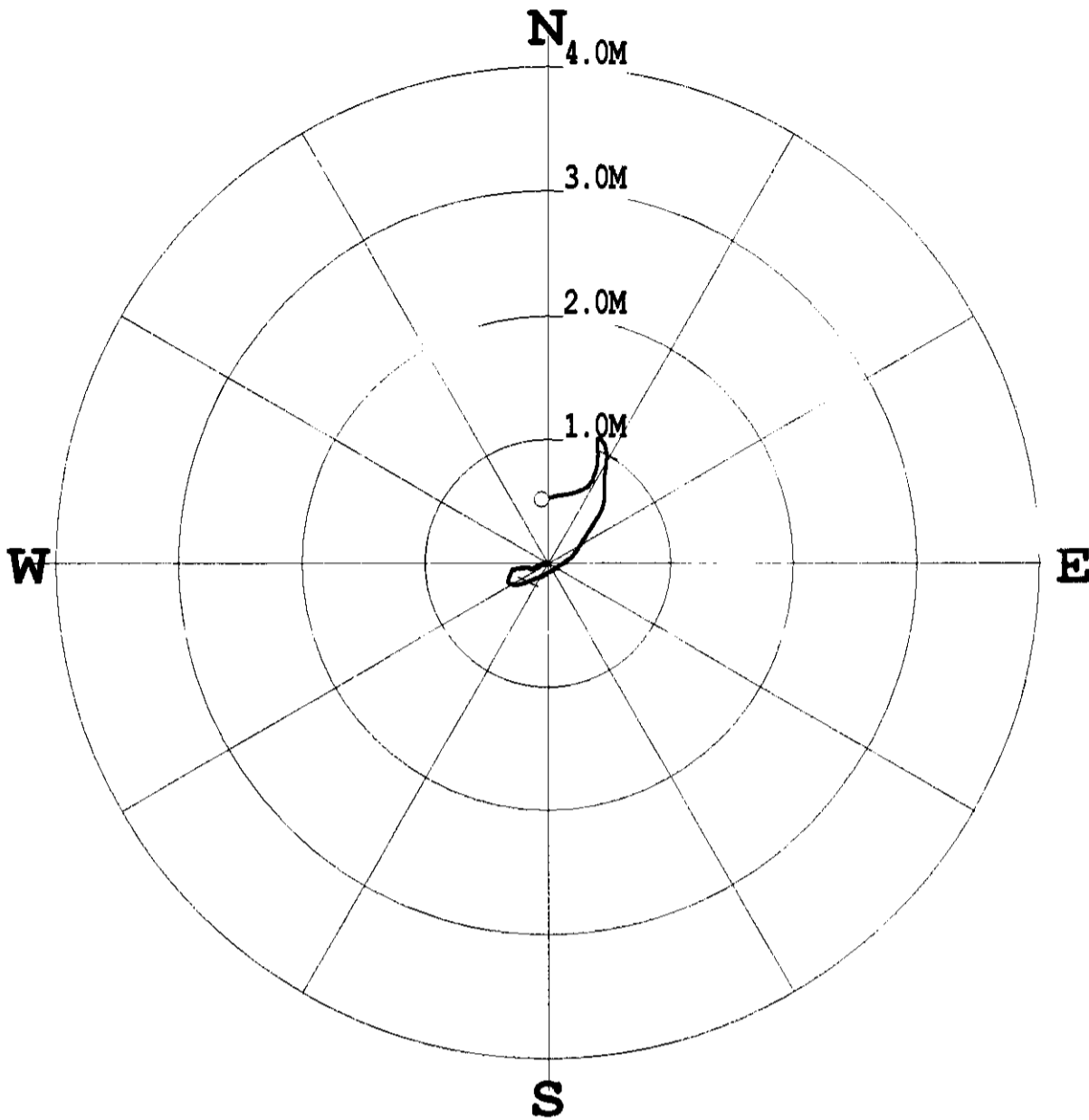
TOOL CALIBRATION RH 2892 08/27/06 16	TOOL 9057A	SERIAL NUMBER 1067	SENSOR	STANDARD	RESPONSE
1	May22,06	15:03:18	GAMMA	0.000 [API-GR]	1.00 [CPS]
	May22,06	15:03:18	GAMMA	325.000 [API-GR]	325.00 [CPS]
2	Oct24,05	21:50:54	NEUTRON	Default [CPS]	Default [CPS]
	Oct24,05	21:50:54	NEUTRON	152.000 [API-N]	167.00 [CPS]
3	Dec01,05	21:21:19	SP	Default [CPS]	Default [CPS]
4	Dec01,05	21:54:52	RES(16N)	Default [CPS]	Default [CPS]
	Dec01,05	21:54:52	RES(16N)	Default [CPS]	Default [CPS]
5	Dec01,05	21:55:00	RES(64N)	Default [CPS]	Default [CPS]
	Dec01,05	21:55:00	RES(64N)	Default [CPS]	Default [CPS]
6	Dec01,05	21:55:07	TEMP	Default [CPS]	Default [CPS]
	Dec01,05	21:55:07	TEMP	Default [CPS]	Default [CPS]
7	Dec01,05	21:55:17	RES	Default [CPS]	Default [CPS]
	Dec01,05	21:55:17	RES	Default [CPS]	Default [CPS]
8	Apr12,02	00:42:07	POR(NEU)	100.000 [PERCENT]	178.00 [CPS]

PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION: N/A
 HOLE ID: RH 2892
 DATE OF LOG: 08/27/06
 PROBE: 9057A 1067



SCALE: 1 M/CM
 TRUE DEPTH: 277.82 M
 AZIMUTH: 354.4
 DISTANCE: 0.5 M
 + = 100 M INCR
 ○ = BOTTOM OF HOLE



* * * * * COMPU-LOG - VERTICAL DEVIATION * * * * *

CLIENT : ELK VALLEY COAL HOLE ID. : RH 2892
 FIELD OFFICE : DATE OF LOG : 08/27/06
 DATA FROM : N/A PROBE : 9057A , 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: RH2892_08-27-06_16-31_9057A_.02_18.00_278.02_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
18.0	18.02	-0.00	-0.00	0.0	209.0	0.3	209.0
28.0	28.00	0.00	-0.03	0.0	273.0	0.2	278.5
38.0	38.00	-0.02	-0.08	0.1	257.3	0.5	235.5
48.0	48.00	-0.04	-0.15	0.2	255.8	0.4	291.9
58.0	58.00	-0.04	-0.23	0.2	259.9	0.7	265.3
68.0	68.00	-0.11	-0.32	0.3	251.1	0.7	212.5
78.0	78.00	-0.16	-0.32	0.4	243.2	0.2	119.5
88.0	88.00	-0.17	-0.28	0.3	238.6	0.3	100.7
98.0	98.00	-0.16	-0.19	0.3	230.8	0.7	76.6
108.0	108.00	-0.11	-0.06	0.1	209.1	0.9	70.3
118.0	117.99	-0.02	0.09	0.1	99.3	1.0	56.3
128.0	127.99	0.06	0.20	0.2	72.3	0.7	43.7
138.0	137.99	0.16	0.26	0.3	59.0	0.7	33.5
148.0	147.99	0.26	0.32	0.4	51.5	0.5	32.6
158.0	157.99	0.35	0.38	0.5	47.5	0.8	39.6
168.0	167.99	0.43	0.43	0.6	45.0	0.4	22.3
178.0	177.99	0.54	0.46	0.7	40.0	0.9	358.0
188.0	187.99	0.70	0.46	0.8	33.1	1.1	4.4
198.0	197.99	0.86	0.48	1.0	29.0	0.6	1.4
208.0	207.99	0.93	0.46	1.0	26.4	0.4	350.5
218.0	217.99	0.98	0.44	1.1	24.4	0.2	326.9
228.0	227.99	1.01	0.42	1.1	22.5	0.2	273.9
238.0	237.99	0.96	0.40	1.0	22.8	0.7	180.2
248.0	247.99	0.85	0.40	0.9	25.3	0.6	183.8
258.0	257.99	0.71	0.37	0.8	27.6	1.1	204.1
268.0	267.98	0.59	-0.24	0.6	22.3	1.4	246.4
278.0	277.98	0.52	-0.05	0.5	354.4	0.0	0.0
277.8	277.82	0.52	-0.05	0.5	354.4	2.1	238.8

COMPENSATED DENSITY
GAMMA - CALIPER - RES.
RH 2893

ELK VALLEY COAL
RH 2893

OTHER SERVICES
9687
9687
N/A

WELL : N/A
FIELD : N/A
LOCALITY : BRITISH COLUMBIA

PROVINCE : BRITISH COLUMBIA
COUNTY : CASTLE MTN

SECTION : N/A
TOWNSHIP : N/A
RANGE : N/A

ASIN NO : N/A
UNIQUE WELL ID : N/A

PERMITS TO DRILL : N/A
LOG MEASURED FROM : GL
DATE : 08/20/06

LOG MEASURED FROM : GL
DATE : 08/20/06
DEPTH DRILLER : 419

BIT SIZE : 20.35
LOG TOP : 15.78
LOG BOTTOM : 419.15

CASING O.D. : 27
CASING BOTTOM : STEEL

BOREHOLE TYPE : WATER
BOREHOLE FLUID : N/A

R.M. TEMPERATURE : N/A
MUD RES : N/A
MUD WEIGHT : N/A

RECORDED BY : R. BECK
REVISIONS : 1
REVISIONS : 2

REVISIONS : 1
REVISIONS : 2

REVISIONS : 1
REVISIONS : 2

REVISIONS : 1
REVISIONS : 2

REVISIONS : 1
REVISIONS : 2

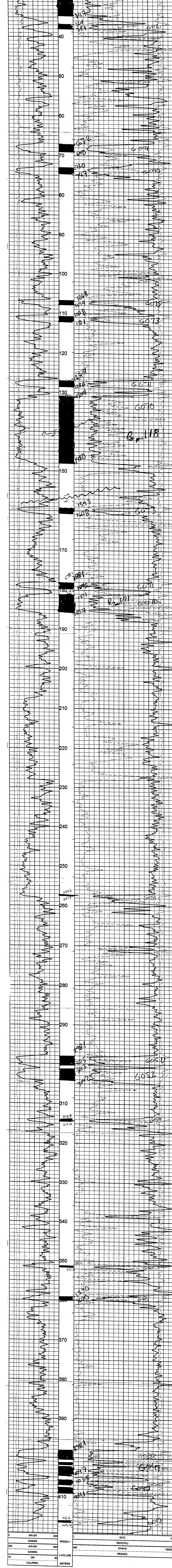
REVISIONS : 1
REVISIONS : 2

REVISIONS : 1
REVISIONS : 2

26906.2E
143193.7N
1777.6

1:200 BULK DENSITY RH 2893 08/20/06

LOG PARAMETERS
MATRIX DENSITY : 2.68
MAGNETIC DECL : 17.0
NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 99999
MATRIX DELTA T : 140
BIT SIZE : 13.018



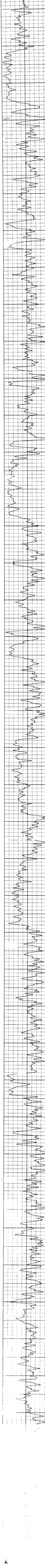
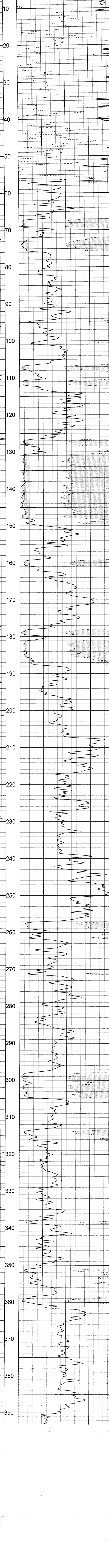
API-GR 225
GAMMA 450
RES(S) 10000

COMPANY	ELK VALLEY COAL	OTHER SERVICES	5607
WELL	RH 2893	5629	N/A
FIELD	N/A		
MUNICIPALITY	ELK FORD		
PROVINCE	BRITISH COLUMBIA		
LOCATION	CASTLE MTN		
SECTION	N/A		
TOWNSHIP	N/A		
RANGE	N/A		
API NO	N/A		
WINDUOL WELL ID	N/A		
PERMANENT IDENT	N/A	ELEVATION TO	N/A
LOG MEASURED FROM	G.L.	ELEVATION OF	N/A
DATE	08/19/06	ELEVATION SL	N/A
DEPTH DRILLER	419		
BIT SIZE	12.70		
LOG TOP	0.41		
LOG BOTTOM	418.00		
CASING OD	15.24		
CASING TYPE	27	STEEL	
IRONHOLE FLUID		WATER	
RIM TEMPERATURE		N/A	
MUD RES		N/A	
MUD WEIGHT		N/A	
RECORDED BY		CHECK	
REMARKS 1		5147 - RB TO 83 M. 5148 - RB TO 286.918' RB TO TD	
REMARKS 2		LOG THRU DRILL PIPE	
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS			

1:200 NEUTRON thru drill pipe RH 2893 08/19/06

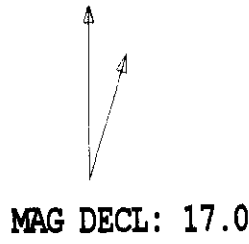
LOG PARAMETERS
 NEUTRON MATRIX: SANDSTONE
 ELECT. CUTOFF: 99999
 MATRIX DELTA T: 140
 BIT SIZE: 12.70

MATRIX DENSITY: 2.68
 MAGNETIC DECL: 17.0

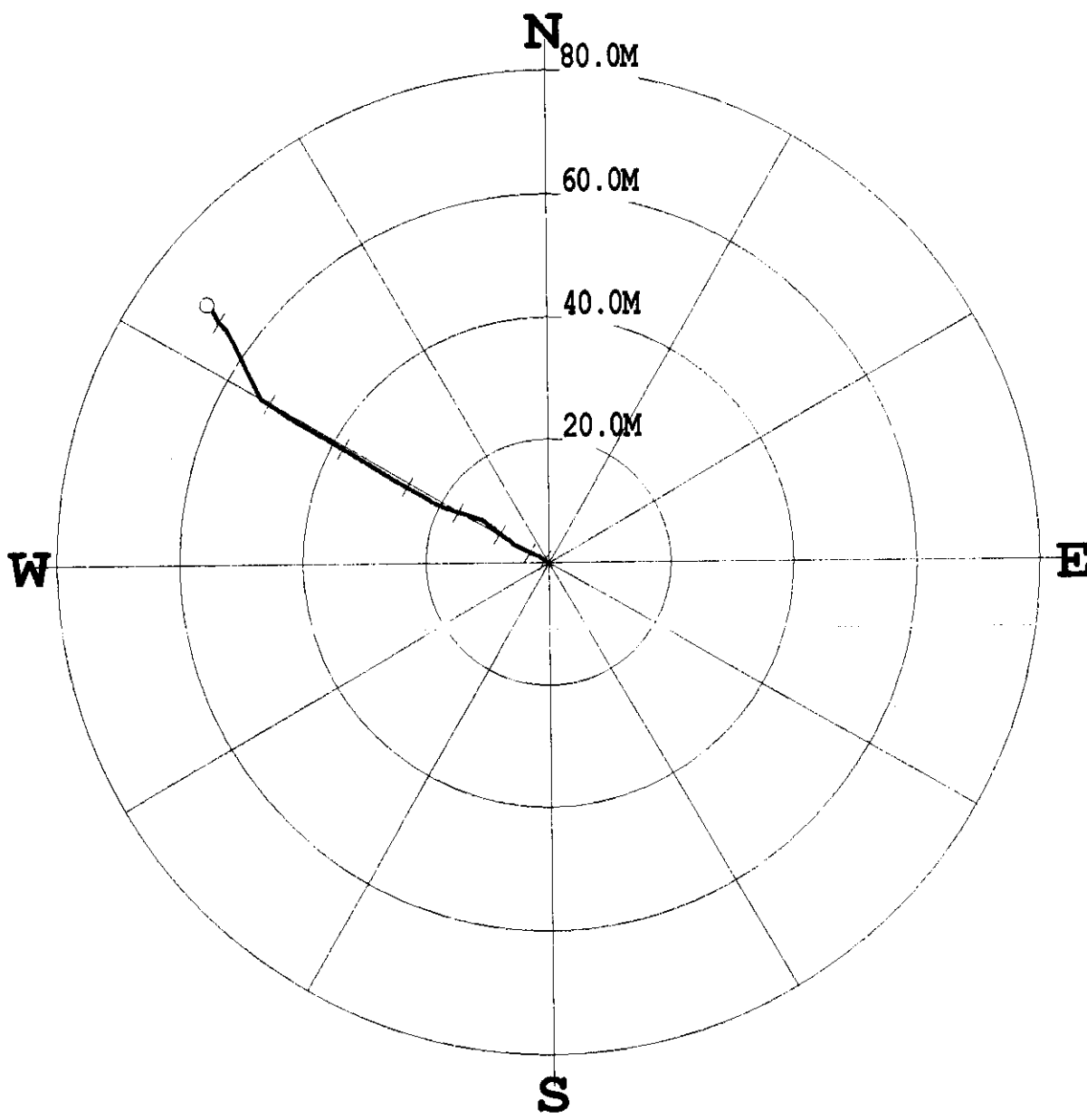


PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION: N/A
 HOLE ID: RH 2893
 DATE OF LOG: 08/20/06
 PROBE: 9057A 1067



SCALE: 10 M/CM
 TRUE DEPTH: 410.43 M
 AZIMUTH: 307.4
 DISTANCE: 69.5 M
 + = 50 M INCR
 ○ = BOTTOM OF HOLE



* * * * * COMPU-LOG - VERTICAL DEVIATION * * * * *

CLIENT : ELK VALLEY COAL HOLE ID. : RH 2893
 FIELD OFFICE : DATE OF LOG : 08/20/06
 DATA FROM : N/A PROBE : 9057A 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: \RH2893_08-20-06_10-39_9057A_.02_27.00_419.01_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
27.0	27.02	0.00	-0.00	0.0	276.8	1.2	276.8
37.0	37.00	0.14	-0.24	0.3	300.4	1.9	304.7
47.0	46.99	0.33	-0.55	0.6	300.8	2.3	299.6
57.0	56.98	0.59	-0.92	1.1	302.6	2.8	309.7
67.0	66.97	0.90	-1.32	1.6	304.2	3.1	306.2
77.0	76.95	1.18	-1.76	2.1	303.8	3.0	299.6
87.0	86.94	1.36	-2.26	2.6	301.0	3.4	293.0
97.0	96.92	1.62	-2.83	3.3	299.7	4.1	301.8
107.0	106.88	2.01	-3.58	4.1	299.3	5.3	301.6
117.0	116.83	2.47	-4.49	5.1	298.8	6.1	277.7
127.0	126.76	2.96	-5.52	6.3	298.2	6.7	291.5
137.0	136.68	3.79	-6.40	7.4	300.6	7.7	320.2
147.0	146.59	4.45	-7.56	8.8	300.5	8.2	309.0
157.0	156.49	5.34	-8.58	10.1	301.9	8.1	317.1
167.0	166.39	6.23	-9.66	11.5	302.8	8.7	314.3
177.0	176.27	7.14	-10.85	13.0	303.3	9.6	286.8
187.0	186.14	7.65	-12.40	14.6	301.7	9.5	287.8
197.0	195.99	8.16	-13.99	16.2	300.3	9.7	277.2
207.0	205.84	8.71	-15.62	17.9	299.2	10.1	289.6
217.0	215.69	9.30	-17.23	19.6	298.4	10.1	296.5
227.0	225.53	10.00	-18.89	21.4	297.9	10.8	290.1
237.0	235.35	11.04	-20.41	23.2	298.4	11.0	299.1
247.0	245.17	11.96	-22.08	25.1	298.4	11.3	307.3
257.0	254.97	12.90	-23.82	27.1	298.4	11.4	294.6
267.0	264.74	13.95	-25.63	29.2	298.6	13.0	304.8
277.0	274.48	15.16	-27.57	31.5	298.8	13.9	309.4
287.0	284.17	16.44	-29.67	33.9	299.0	15.1	302.0
297.0	293.83	17.77	-31.87	36.5	299.1	15.4	304.3
307.0	303.48	19.10	-34.12	39.1	299.2	14.8	296.7
317.0	313.11	20.49	-36.43	41.8	299.4	17.4	307.1
327.0	322.72	21.83	-38.80	44.5	299.4	16.2	301.0
337.0	332.36	23.17	-41.09	47.2	299.4	15.3	299.8
347.0	341.99	24.68	-43.32	49.9	299.7	15.8	304.5
357.0	351.60	26.23	-45.62	52.6	299.9	16.4	299.3
367.0	361.18	28.26	-47.33	55.2	300.9	17.1	335.8
377.0	370.73	31.03	-48.63	57.7	302.5	17.3	332.7
387.0	380.24	33.84	-49.90	60.3	304.1	18.2	329.0
397.0	389.71	36.71	-51.32	63.1	305.6	18.7	335.2
407.0	399.19	39.30	-53.07	66.0	306.5	17.9	305.1
417.0	408.68	41.93	-54.71	68.9	307.5	17.8	294.8
418.8	410.43	42.24	-55.19	69.5	307.4	18.4	302.5

COMPANY	ELK VALLEY COAL	OTHER SERVICES	
WELL	RH 2894	9867	
FIELD	VA	9807	
MANUFACTURER	ELFCORD	9807	
PROVINCE	BRITISH COLUMBIA	VA	
LOCATION	CASTLE MTN.		
SECTION	VA		
TOWNSHIP	VA		
RANGE	VA		
API NO.	VA		
UNIQUE WELL ID.	VA		
EMBASEMENT DTM	VA		
LOG MEASURED FROM:	GL	ELEVATION: VA	
		ELEVATION OF: VA	
		ELEVATION GL: VA	
DATE	08/06/06		
DEPTH DRAFTER	309		
BIT SIZE	13.335		
LOG TOP	0.32		
LOG BOTTOM	308.77		
CASING OD	17.78		
CASING BOTTOM	3		
BOREHOLE FLUID	STEEL		
ROD TYPE	WATER		
RAI TEMPERATURE	VA		
RAI PRESS	VA		
RAI WEIGHT	VA		
RECORDED BY	FAC		
REMARKS 1	5M+ RH TO 203 H, 5.08 RH TO TD		
REMARKS 2	VA		

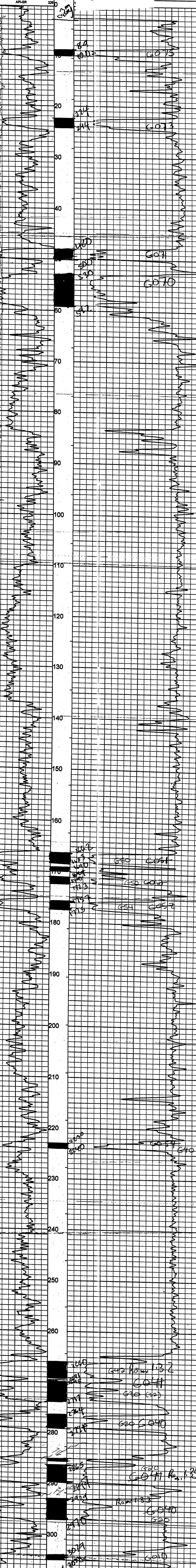
200 PLOT RATIO RH 2894 08/06/06

MATRIX DENSITY: 2.66
MAGNETIC DECL: 17.0

LOG PARAMETERS
TRIX DELTA T: 140
SIZE: 13.335

72/1

to 040



API-GR	225	GVC	
GAMMA	450	DEN(LS)	
API-GR	450		
GAMMA	225		
CM	10		
CALIPERL	30		

**GAMMA - NEUTRON
LOG THRU DRILL PIPE**

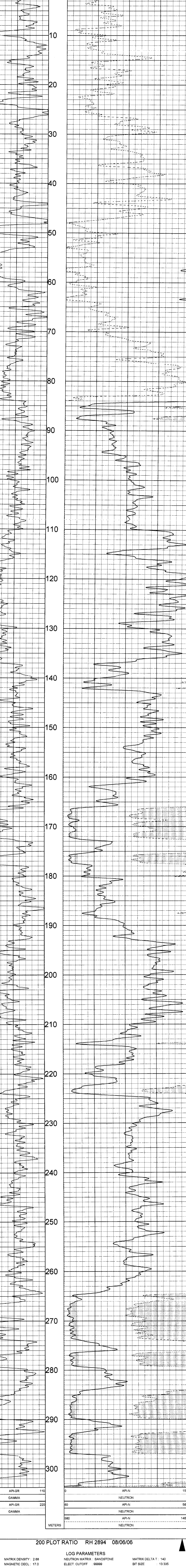
RH 2894

century-geo.com

COMPANY	ELK VALLEY COAL	OTHER SERVICES	9067
WELL	RH 2894		9239
FIELD	N/A		N/A
MUNICIPALITY	ELK FORD		
PROVINCE	BRITISH COLUMBIA		
LOCATION	CASTLE MTN.		
SECTION	N/A		
TOWNSHIP	N/A		
RANGE	N/A		
APNO	N/A		
UNIQUE WELL ID	N/A	ELEVATION RB	N/A
PERMANENT DATUM	N/A	ELEVATION OF	N/A
LOG MEASURED FROM	G.L.	ELEVATION GL	N/A
DATE	08/06/06		
LOG MEASURED FROM	G.L.		
DEPTH DRILLER	303		
BIT SIZE	13.335		
LOG TOP	0.37		
LOG BOTTOM	303.73		
CASING OD	177.8		
CASING BOTTOM	3		
CASING TYPE	STEEL		
BORINGHOLE FLUID	WATER		
MUD TEMPERATURE	N/A		
MUD RES	N/A		
MUD WEIGHT	N/A		
RECORDED BY	R.H.E.C.K.		
REMARKS 1	514 - RB TO 203 M, 51/8" RB TO TD		
REMARKS 2	LOG THRU DRILL PIPE		

200 PLOT RATIO RH 2894 08/06/06

MATRIX DENSITY : 2.68	LOG PARAMETERS	MATRIX DELTA T : 140
MAGNETIC DECL : 17.0	NEUTRON MATRIX : SANDSTONE	BIT SIZE : 13.335
	ELECT. CUTOFF : 99999	



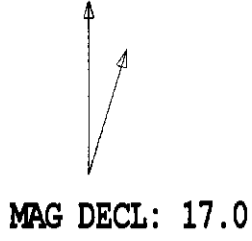
200 PLOT RATIO RH 2894 08/06/06

MATRIX DENSITY : 2.68	LOG PARAMETERS	MATRIX DELTA T : 140
MAGNETIC DECL : 17.0	NEUTRON MATRIX : SANDSTONE	BIT SIZE : 13.335
	ELECT. CUTOFF : 99999	

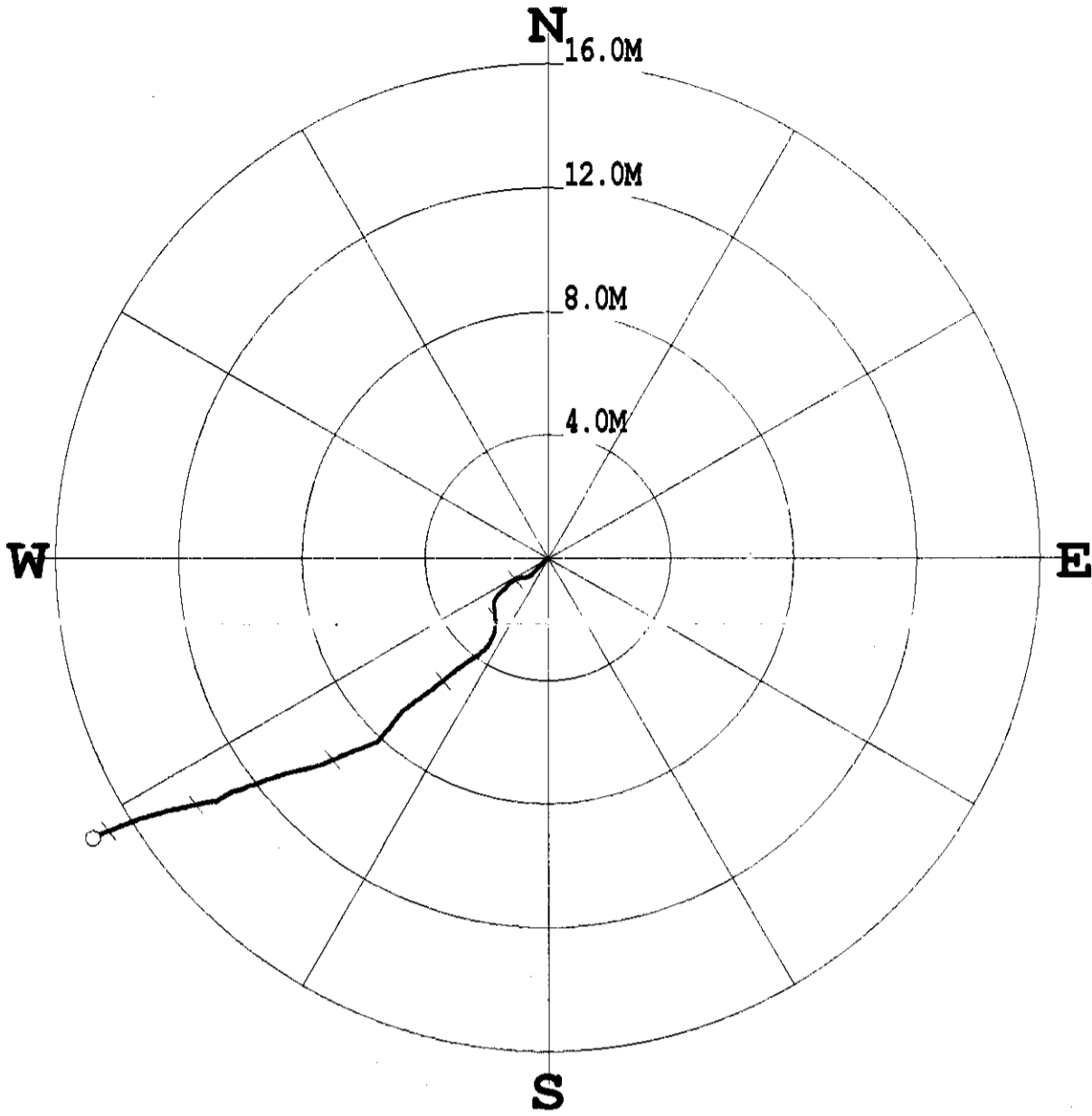
TOOL CALIBRATION RH 2894 08/06/06 05:02			
TOOL 9087A			
SERIAL NUMBER 530			
DATE	TIME	SENSOR	STANDARD
1	JUL12,06	16:07:53	GAMMA 1.000 [API-GR]
	JUL12,06	16:07:53	GAMMA 250.000 [API-GR]
2	JUL08,06	14:23:13	NEUTRON 1.000 [API-N]
	JUL08,06	14:23:13	NEUTRON 500.000 [API-N]
			RESPONSE
			1.00 [CPS]
			80.00 [CPS]
			1.00 [CPS]
			500.00 [CPS]

PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION: N/A
 HOLE ID: RH 2894
 DATE OF LOG: 08/06/06
 PROBE: 9057A 1067



SCALE: 2 M/CM
 TRUE DEPTH: 307.84 M
 AZIMUTH: 238.5
 DISTANCE: 17.3 M
 + = 50 M INCR
 ○ = BOTTOM OF HOLE



* * * * * COMPU-LOG - VERTICAL DEVIATION * * * * *

CLIENT : ELK VALLEY COAL HOLE ID. : RH 2894
 FIELD OFFICE : DATE OF LOG : 08/06/06
 DATA FROM : N/A PROBE : 9057A 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: \RH2894_08-06-06_13-20_9057A_.02_3.00_308.69_DEVI.log

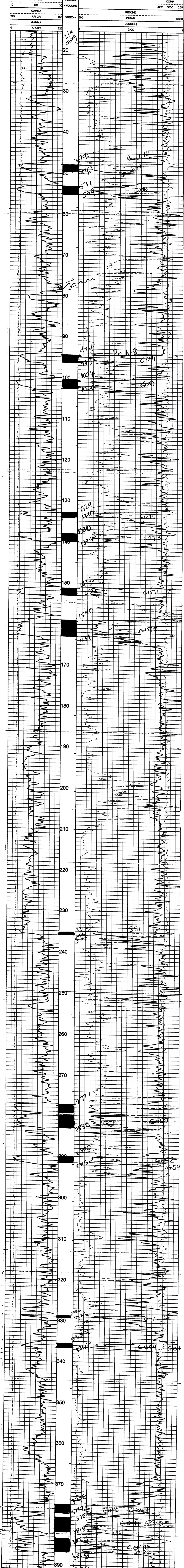
CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
3.0	3.02	0.00	-0.00	0.0	324.8	0.2	324.8
13.0	13.00	-0.07	-0.13	0.1	240.6	1.4	225.9
23.0	22.99	-0.32	-0.34	0.5	226.9	1.8	219.3
33.0	32.99	-0.57	-0.60	0.8	226.5	1.9	238.1
43.0	42.98	-0.64	-0.91	1.1	234.7	1.7	253.6
53.0	52.98	-0.72	-1.14	1.4	237.6	1.3	231.4
63.0	62.98	-0.89	-1.32	1.6	236.0	1.7	219.9
73.0	72.97	-1.09	-1.52	1.9	234.4	1.8	224.1
83.0	82.97	-1.34	-1.73	2.2	232.2	2.1	208.3
93.0	92.96	-1.67	-1.75	2.4	226.4	1.9	173.4
103.0	102.95	-2.01	-1.72	2.6	220.6	2.3	169.6
113.0	112.95	-2.42	-1.75	3.0	218.0	2.6	200.1
123.0	122.93	-2.86	-1.97	3.5	214.5	2.9	192.9
133.0	132.91	-3.23	-2.43	4.0	216.9	3.8	244.6
143.0	142.89	-3.64	-3.02	4.7	219.7	3.7	228.0
153.0	152.86	-4.11	-3.60	5.5	221.2	4.7	237.9
163.0	162.83	-4.58	-4.26	6.3	222.9	5.2	248.2
173.0	172.78	-5.18	-4.93	7.1	223.6	5.5	223.2
183.0	182.73	-5.93	-5.53	8.1	223.0	5.6	214.9
193.0	192.69	-6.28	-6.39	9.0	225.5	5.3	230.7
203.0	202.65	-6.64	-7.23	9.8	227.5	5.2	238.1
213.0	212.60	-6.91	-8.18	10.7	229.8	5.9	252.4
223.0	222.54	-7.18	-9.15	11.6	231.9	5.4	247.6
233.0	232.50	-7.50	-10.03	12.5	233.2	5.0	252.6
243.0	242.46	-7.89	-10.82	13.4	233.9	4.0	299.1
253.0	252.42	-8.03	-11.65	14.2	235.4	4.9	257.7
263.0	262.39	-8.20	-12.42	14.9	236.6	3.9	242.5
273.0	272.37	-8.35	-13.00	15.4	237.3	3.2	249.7
283.0	282.36	-8.49	-13.45	15.9	237.7	2.7	240.3
293.0	292.35	-8.65	-13.87	16.3	238.0	3.0	250.4
303.0	302.33	-8.87	-14.45	17.0	238.4	4.2	247.1
308.5	307.84	-9.06	-14.78	17.3	238.5	4.4	234.8

1:200 BULK DENSITY RH 2895 08/25/06

MATRIX DENSITY : 2.66
MAGNETIC DECL. : 17.0

LOG PARAMETERS
NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 99999

MATRIX DELTA T : 140
BIT SIZE : 13.018



COMPANY	ELI WALTER COAL	OTHER SERVICES	
WELL	RH 2895	9657	9629
FIELD	N/A	5239	N/A
MUNICIPALITY	ELIZABETH		
PROVINCE	BRITISH COLUMBIA		
LOCATION	CASTLE MTN		
SECTION	N/A		
TOWNSHIP	N/A		
RANGE	N/A		
API NO	N/A		
UNIQUE WELL ID	N/A		
PERMANENT DATUM	N/A	ELEVATION NB	N/A
LOG MEASURED FROM	G.L.	ELEVATION OF	N/A
DATE	08/24/06	ELEVATION CL	N/A
DEPTH DRILLER	395		
BIT SIZE	13.018		
LOG TOP	0.39		
LOG BOTTOM	395.03		
CASING OD	15.24		
CASING BOTTOM	21		
BORING TYPE	STEEL		
BORING FLUID	WATER		
RH TEMPERATURE	N/A		
MUD RES	N/A		
MUD WEIGHT	N/A		
RECORDED BY	R.HECK		
REMARKS 1	514 - HB TO 69 M, 514F, RB TO 200 51/8, RB TO TD		
REMARKS 2	LOG THRU DRILL PIPE		

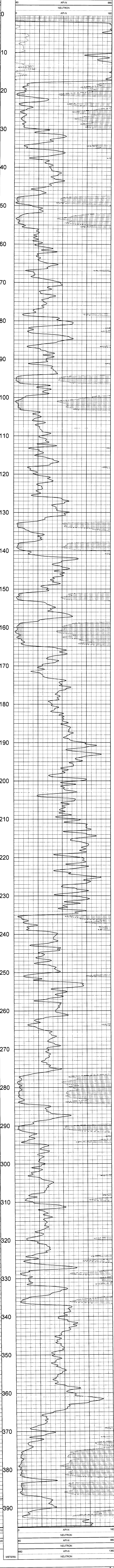
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS.

1:200 NEUTRON thru drill pipe RH 2895 08/24/06

MATRIX DENSITY : 2.68
MAGNETIC DECL : 17.0

LOG PARAMETERS
NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 99999

MATRIX DELTA T : 140
BIT SIZE : 13.018



1:200 NEUTRON thru drill pipe RH 2895 08/24/06

MATRIX DENSITY : 2.68
MAGNETIC DECL : 17.0

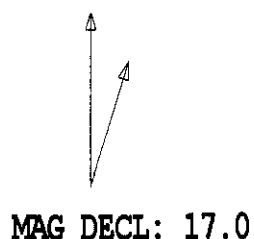
LOG PARAMETERS
NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 99999

MATRIX DELTA T : 140
BIT SIZE : 13.018

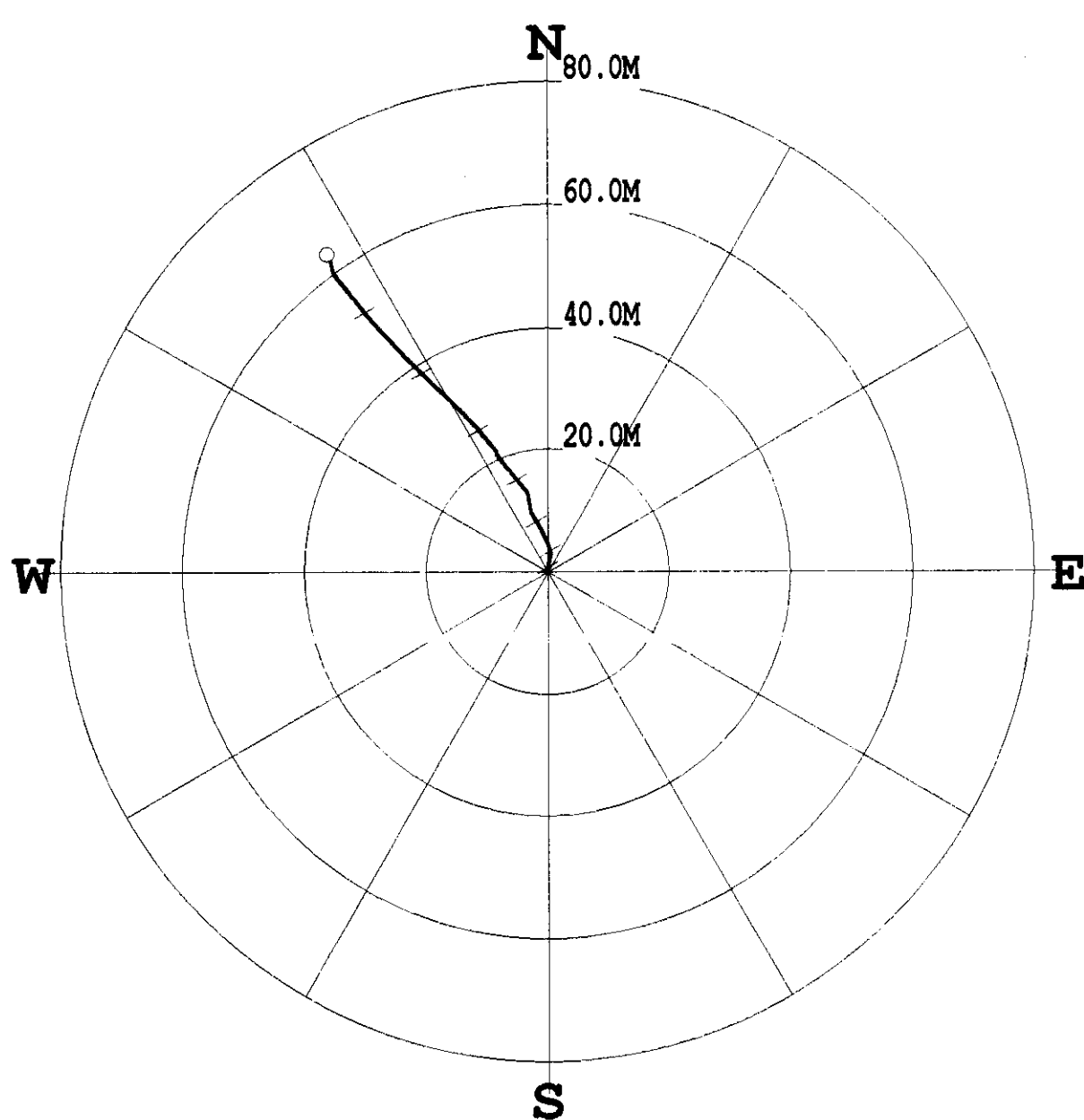
TOOL CALIBRATION RH 2895 08/24/06 23:09				SENSOR		STANDARD		RESPONSE			
TOOL 9087A				GAMMA		GAMMA		GAMMA			
SERIAL NUMBER 530				NEUTRON		NEUTRON		NEUTRON			
DATE	TIME	SERIAL NUMBER	TIME	SENSOR	STANDARD	RESPONSE	UNIT	SENSOR	STANDARD	RESPONSE	UNIT
Jul12,06	18:07:53	1	18:07:53	GAMMA	1.000 [API-GR]	1.00	[CPS]	GAMMA	250.000 [API-GR]	80.00	[CPS]
Jul12,06	18:07:53	2	14:23:13	NEUTRON	1.000 [API-N]	1.00	[CPS]	NEUTRON	500.000 [API-N]	500.00	[CPS]

PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION: N/A
 HOLE ID: RH 2895
 DATE OF LOG: 08/25/06
 PROBE: 9057A 1067



SCALE: 10 M/CM
 TRUE DEPTH: 388.09 M
 AZIMUTH: 325.1
 DISTANCE: 63.1 M
 + = 50 M INCR
 ○ = BOTTOM OF HOLE



* * * * * COMPU-LOG - VERTICAL DEVIATION * * * * *

CLIENT : ELK VALLEY COAL HOLE ID. : RH 2895
 FIELD OFFICE : DATE OF LOG : 08/25/06
 DATA FROM : N/A PROBE : 9057A , 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: \RH2895_08-25-06_09-11_9057A_02_21.00_395.53_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGE
21.0	21.02	0.00	-0.00	0.0	334.7	1.5	334.7
31.0	31.00	0.26	-0.01	0.3	357.4	1.6	356.9
41.0	40.99	0.53	-0.01	0.5	359.3	1.8	5.0
51.0	50.99	0.83	0.02	0.8	1.2	1.9	3.0
61.0	60.98	1.18	0.07	1.2	3.5	1.9	14.4
71.0	70.97	1.64	0.15	1.7	5.4	3.1	14.5
81.0	80.95	2.28	0.29	2.3	7.2	4.1	16.7
91.0	90.93	2.91	0.46	2.9	9.0	3.9	13.4
101.0	100.90	3.58	0.35	3.6	5.6	4.2	344.3
111.0	110.87	4.32	0.13	4.3	1.7	4.8	345.6
121.0	120.83	5.18	-0.24	5.2	357.4	6.0	337.9
131.0	130.77	6.18	-0.72	6.2	353.3	6.6	333.2
141.0	140.69	7.27	-1.29	7.4	349.9	7.4	332.2
151.0	150.61	8.39	-1.95	8.6	347.0	7.8	328.5
161.0	160.51	9.54	-2.67	9.9	344.4	7.9	321.5
171.0	170.41	10.88	-2.99	11.3	344.6	8.6	351.7
181.0	180.29	12.41	-3.25	12.8	345.3	9.4	350.8
191.0	190.16	13.79	-4.05	14.4	343.6	9.5	317.7
201.0	200.02	15.06	-5.11	15.9	341.3	9.5	315.8
211.0	209.86	16.44	-6.24	17.6	339.2	10.4	314.1
221.0	219.67	17.92	-7.46	19.4	337.4	11.5	321.8
231.0	229.46	19.61	-8.48	21.4	336.6	11.5	322.2
241.0	239.24	21.22	-9.81	23.4	335.2	12.2	314.9
251.0	249.00	22.86	-11.25	25.5	333.8	13.0	327.3
261.0	258.72	24.63	-12.81	27.8	332.5	14.0	313.7
271.0	268.39	26.45	-14.56	30.2	331.2	15.0	319.0
281.0	278.02	28.36	-16.46	32.8	329.9	15.6	312.9
291.0	287.66	30.20	-18.37	35.3	328.7	15.0	312.4
301.0	297.32	32.01	-20.19	37.8	327.8	15.1	309.7
311.0	306.98	33.81	-22.03	40.3	326.9	15.1	318.9
321.0	316.64	35.68	-23.84	42.9	326.3	15.2	324.1
331.0	326.29	37.60	-25.59	45.5	325.8	15.2	318.0
341.0	335.95	39.49	-27.36	48.0	325.3	15.1	316.2
351.0	345.58	41.46	-29.17	50.7	324.9	16.2	319.5
361.0	355.17	43.57	-30.97	53.5	324.7	17.0	325.0
371.0	364.73	45.92	-32.84	56.5	324.4	17.0	318.6
381.0	374.31	48.15	-34.63	59.3	324.3	16.5	330.1
391.0	383.90	50.73	-35.65	62.0	324.9	15.7	325.0
395.4	388.09	51.78	-36.14	63.1	325.1	16.7	348.1

GAMMA LS DENSITY

RH #28-96

COMPANY : ELK VALLEY COAL
WELL : RH #28-96
FIELD : N/A
LOCALITY : ELK FORD
PROVINCE : BRITISH COLUMBIA

2896

OTHER SERVICES:
9001
9007
9208

LOCATION : CASTLE MTN.
SECTION : N/A
TOWNSHIP : N/A
RANGE : N/A
API NO. : N/A
UNIQUE WELL ID. : N/A

276042E
1434003N
1859.0

PERMANENT DATUM : N/A
LOG MEASURED FROM: G.L.
DRL MEASURED FROM: G.L.

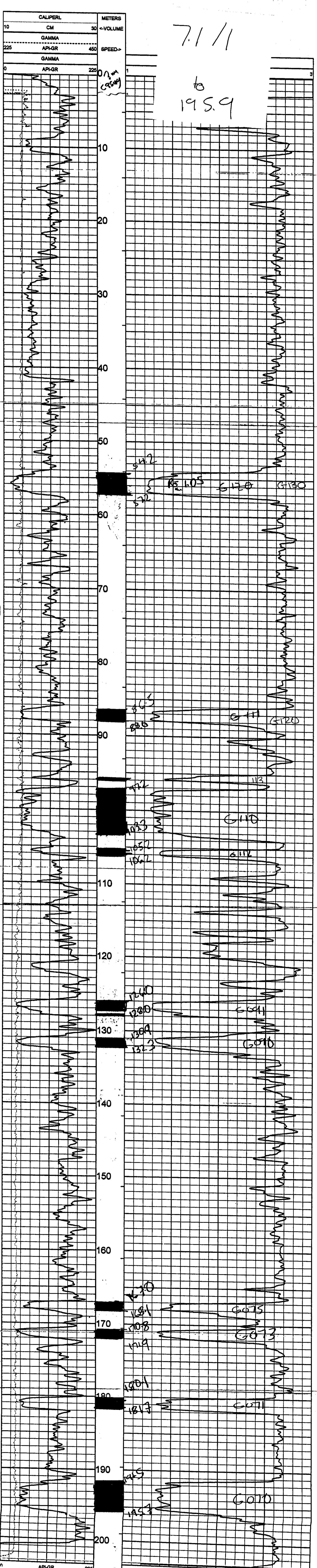
ELEVATION US: N/A
ELEVATION OF: N/A
ELEVATION G.L.: N/A

DATE : 07/01/06
DEPTH ORLLER : 203
BIT SIZE : 13.018
LOG TOP : 0.26
LOG BOTTOM : 203.28
CASING OD : 17.78
CASING BOTTOM : 3
CASING TYPE : STEEL
BOREHOLE FLUID : WATER
RHM TEMPERATURE : N/A
MUD RES : N/A
MUD WEIGHT : N/A
RECORDED BY : [Signature]
REMARKS 1 : 6 1/2" HB TO 13 M, 5 1/8" HB TO TD
REMARKS 2 :
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

GAMMA LS DENSITY RH #28-96 07/01/06

LOG PARAMETERS

MATRIX DENSITY : 2.68
MAGNETIC DECL : 17.0
NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 99999
MATRIX DELTA T : 140
BIT SIZE : 13.018



COMPANY	ELK VALLEY COAL	OTHER SERVICES	
WELL	RH #28-96	9051	
FIELD	N/A	9057	
MUNICIPALITY	ELKFORD	9239	
PROVINCE	BRITISH COLUMBIA		
LOCATION	CASTLE MTN		
SECTION	N/A		
TOWNSHIP	N/A		
RANGE	N/A		
API NO.	N/A		
UNIQUE WELL ID	N/A		
PERMANENT DATUM	N/A	ELEVATION RB	N/A
LOG MEASURED FROM	G.L.	ELEVATION OF	N/A
DRL MEASURED FROM	G.L.	ELEVATION GL	N/A
DATE	07/01/06		
DEPTH DRILLER	203		
BIT SIZE	13.018		
LOG TOP	0.26		
LOG BOTTOM	203.38		
CASING OD	17.78		
CASING BOTTOM	3		
CASING TYPE	STEEL		
BOREHOLE FLUID	WATER		
RM TEMPERATURE	N/A		
MUD RES	N/A		
MUD WEIGHT	N/A		
RECORDED BY	R HECK		
REMARKS 1	512' - H8 TO 113 M 51/8" RB TO TD		
REMARKS 2			

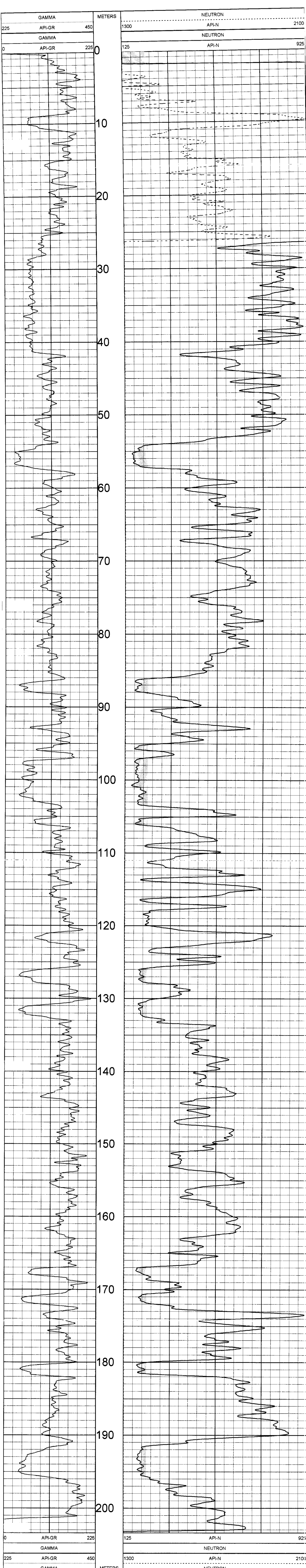
GAMMA NEUTRON RH #28-96 07/01/06

MATRIX DENSITY : 2.68
MAGNETIC DECL : 17.0

LOG PARAMETERS

NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 99999

MATRIX DELTA T : 140
BIT SIZE : 13.018



GAMMA NEUTRON RH #28-96 07/01/06

MATRIX DENSITY : 2.68
MAGNETIC DECL : 17.0

LOG PARAMETERS

NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 99999

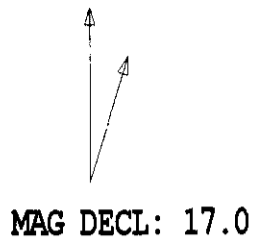
MATRIX DELTA T : 140
BIT SIZE : 13.018

TOOL CALIBRATION RH #28-96 07/01/06 08:06
TOOL 9057A
SERIAL NUMBER 1067

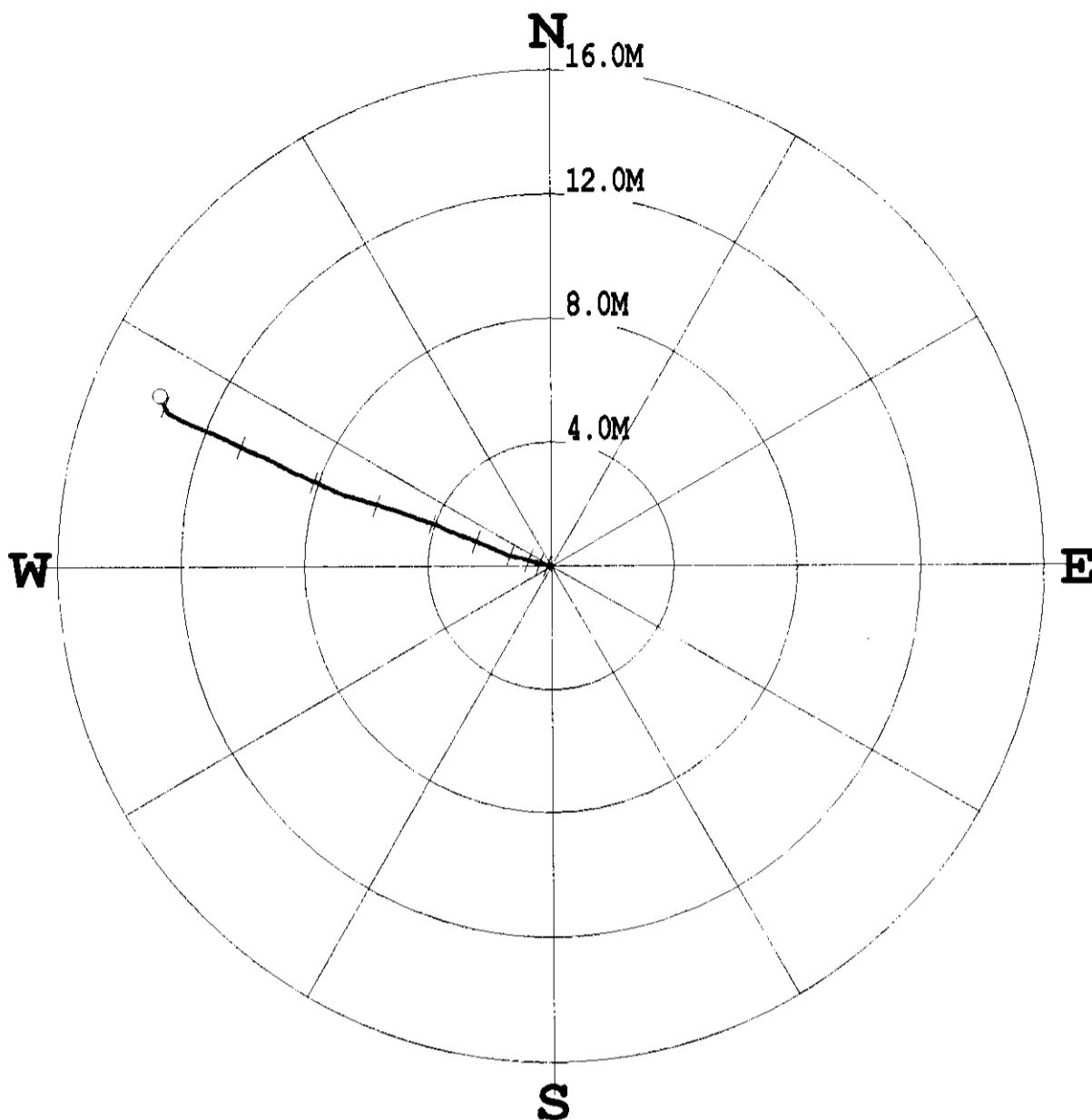
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	May22.06 15:03:18	GAMMA	0.000 [API-GR]	1.00 [CPS]
1	May22.06 15:03:18	GAMMA	325.000 [API-GR]	325.00 [CPS]
2	Oct24.05 21:50:54	NEUTRON	Default [CPS]	Default [CPS]
2	Oct24.05 21:50:54	NEUTRON	152.000 [API-N]	167.00 [CPS]
3	Dec01.05 21:21:19	SP	Default [CPS]	Default [CPS]
3	Dec01.05 21:21:19	SP	Default [CPS]	Default [CPS]
4	Dec01.05 21:54:52	RES(16N)	Default [CPS]	Default [CPS]
4	Dec01.05 21:54:52	RES(16N)	Default [CPS]	Default [CPS]
5	Dec01.05 21:55:00	RES(64N)	Default [CPS]	Default [CPS]
5	Dec01.05 21:55:00	RES(64N)	Default [CPS]	Default [CPS]
6	Dec01.05 21:55:07	TEMP	Default [CPS]	Default [CPS]
6	Dec01.05 21:55:07	TEMP	Default [CPS]	Default [CPS]
7	Dec01.05 21:55:17	RES	Default [CPS]	Default [CPS]
7	Dec01.05 21:55:17	RES	Default [CPS]	Default [CPS]
8	Apr12.02 00:42:07	POR(NEU)	100.000 [PERCENT]	178.00 [CPS]

PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION: N/A
 HOLE ID: RH #28-96
 DATE OF LOG: 07/01/06
 PROBE: 9057A 1067



SCALE: 2 M/CM
 TRUE DEPTH: 202.48 M
 AZIMUTH: 293.5
 DISTANCE: 13.8 M
 + = 20 M INCR
 ○ = BOTTOM OF HOLE



***** COMPU-LOG - VERTICAL DEVIATION *****

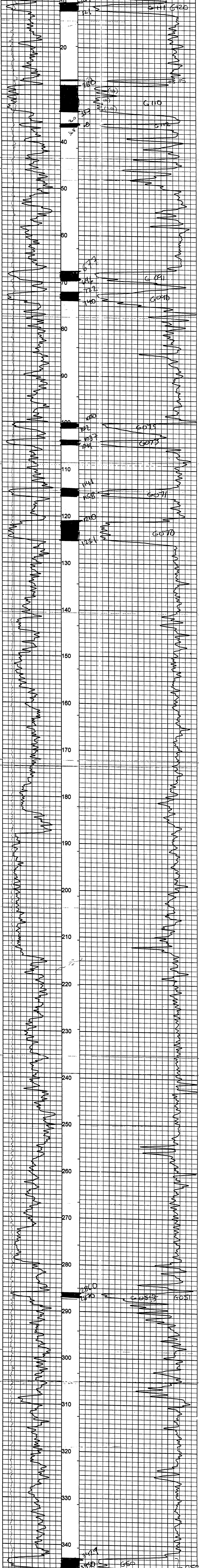
CLIENT : ELK VALLEY COAL HOLE ID. : RH #28-96
 FIELD OFFICE : DATE OF LOG : 07/01/06
 DATA FROM : N/A PROBE : 9057A , 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: RH#28-96_07-01-06_08-06_9057A_.02_3.00_203.38_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
3.0	3.02	-0.00	-0.00	0.0	258.7	0.3	258.7
13.0	13.00	-0.01	-0.08	0.1	263.6	0.5	274.3
23.0	23.00	0.03	-0.16	0.2	281.4	0.5	297.9
33.0	33.00	0.07	-0.27	0.3	285.0	0.7	287.3
43.0	43.00	0.11	-0.43	0.4	284.5	0.9	293.8
53.0	53.00	0.16	-0.59	0.6	285.0	1.1	288.1
63.0	62.99	0.22	-0.80	0.8	285.4	1.3	284.6
73.0	72.99	0.29	-1.08	1.1	284.8	1.9	287.4
83.0	82.98	0.39	-1.45	1.5	284.9	3.0	297.3
93.0	92.96	0.62	-1.99	2.1	287.3	3.5	292.9
103.0	102.94	0.89	-2.63	2.8	288.7	4.2	297.0
113.0	112.91	1.16	-3.33	3.5	289.3	4.3	294.7
123.0	122.88	1.47	-4.07	4.3	289.9	4.7	293.2
133.0	132.83	1.79	-4.95	5.3	289.9	6.1	288.7
143.0	142.78	2.08	-5.93	6.3	289.3	5.7	277.2
153.0	152.73	2.39	-6.90	7.3	289.1	6.2	287.5
163.0	162.66	2.88	-7.96	8.5	289.9	6.9	292.9
173.0	172.57	3.45	-9.12	9.8	290.7	7.9	300.3
183.0	182.48	4.01	-10.36	11.1	291.2	7.5	293.7
193.0	192.38	4.58	-11.62	12.5	291.5	8.1	290.2
203.0	202.28	5.48	-12.63	13.8	293.4	8.7	336.9
203.2	202.48	5.51	-12.64	13.8	293.5	8.4	343.9

COMPANY	Century-geo.com	OTHER SERVICES	
WELL	ELK VALLEY COAL	8901	
FIELD	RH #28-97	8907	
MUNICIPALITY	ELDFORD	8928	
CONTRACT	BRITISH COLUMBIA		
LOCATION	CASTLE MTN.		
SECTION	NA		
TOWNSHIP	NA		
RANGE	NA		
UPH NO.	NA		
WELL NO.	NA		
PERMIT/DATUM	NA		
LOG MEASURED FROM:	GL		
ELEVATION XIS	NA		
ELEVATION OF	NA		
ELEVATION GL	NA		
DATE	07/04/06		
DEPTH (MILLER)	383		
DR SIZE	13.0175		
LOG TOP	0.34		
LOG BOTTOM	383.07		
CASING OD	17.78		
CASING BOTTOM	3		
CASING TYPE	STEEL		
SOURCE FLUID	WATER		
WELL RES	NA		
WELL WEIGHT	NA		
RECORDED BY	5/12/06		
REMARKS 1	5127 RH TO 107 MA, 5148 RH TO 272M, 5149 RH TO TD		
REMARKS 2			

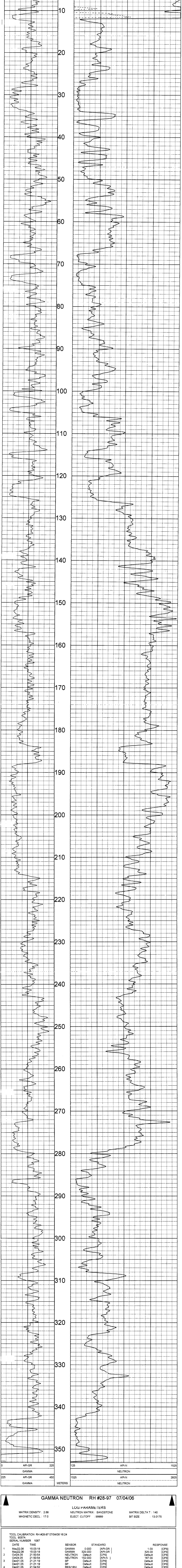
GAMMA LS DENSITY RH #28-97-07/04/06

MATRIX DENSITY: 2.68
MAGNETIC DECL: 17.0
LOG PARAMETERS
NEUTRO
ELECT. C



GAMMA NEUTRON RH #28-97 07/04/06

MATRIX DENSITY : 2.68 LOG PARAMETERS MATRIX DELTA T : 140
MAGNETIC DECL : 17.0 NEUTRON MATRIX : SANDSTONE ELECT. CUTOFF : 99999 BIT SIZE : 13.0175



GAMMA NEUTRON RH #28-97 07/04/06

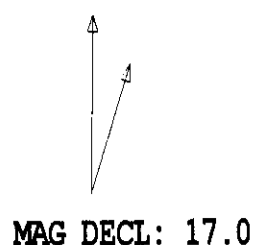
MATRIX DENSITY : 2.68 LOG PARAMETERS MATRIX DELTA T : 140
MAGNETIC DECL : 17.0 NEUTRON MATRIX : SANDSTONE ELECT. CUTOFF : 99999 BIT SIZE : 13.0175

TOOL CALIBRATION RH #28-97 07/04/06 16:24
TOOL 9057A
SERIAL NUMBER 1067

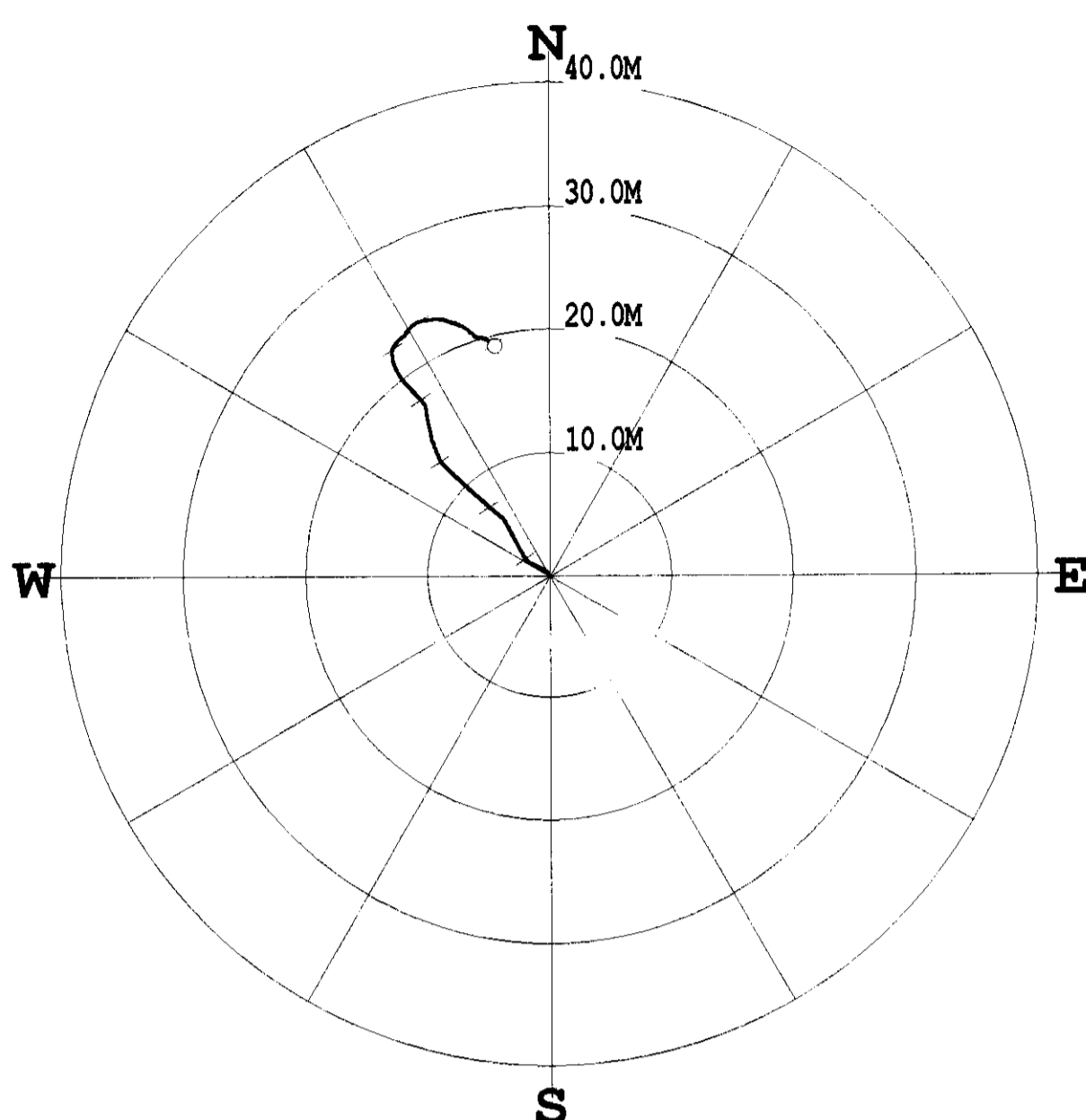
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	May22.06	GAMMA	0.000 [API-GR]	1.00 [CPS]
2	May22.06	GAMMA	325.000 [API-GR]	325.00 [CPS]
3	Oct24.05	NEUTRON	Default [CPS]	Default [CPS]
4	Oct24.05	NEUTRON	152.000 [API-N]	167.00 [CPS]
5	Dec01.05	SP	Default [CPS]	Default [CPS]
6	Dec01.05	RES(16N)	Default [CPS]	Default [CPS]
7	Dec01.05	RES(16N)	Default [CPS]	Default [CPS]
8	Dec01.05	RES(16N)	Default [CPS]	Default [CPS]
9	Dec01.05	TEMP	Default [CPS]	Default [CPS]
10	Dec01.05	TEMP	Default [CPS]	Default [CPS]
11	Dec01.05	RES	Default [CPS]	Default [CPS]
12	Apr12.02	POR(NEU)	100.000 [PERCENT]	178.00 [CPS]

PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION: N/A
 HOLE ID: RH #28-97
 DATE OF LOG: 07/04/06
 PROBE: 9057A 1067



SCALE: 5 M/CM
 TRUE DEPTH: 351.14 M
 AZIMUTH: 346.6
 DISTANCE: 19.1 M
 + = 50 M INCR
 ○ = BOTTOM OF HOLE



* * * * * COMPU-LOG - VERTICAL DEVIATION * * * * *

CLIENT : ELK VALLEY COAL HOLE ID. : RH #28-97
 FIELD OFFICE : DATE OF LOG : 07/04/06
 DATA FROM : N/A PROBE : 9057A , 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: RH#28-97_07-04-06_16-24_9057A_.02_3.00_353.11_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
3.0	3.02	-0.00	-0.00	0.0	190.0	0.5	190.0
13.0	13.00	0.16	-0.07	0.2	335.4	1.8	321.8
23.0	22.99	0.46	-0.37	0.6	320.9	2.9	302.9
33.0	32.97	0.75	-0.92	1.2	309.3	3.9	294.9
43.0	42.94	1.05	-1.57	1.9	303.9	4.5	283.4
53.0	52.90	1.66	-2.14	2.7	307.8	5.0	322.0
63.0	62.86	2.50	-2.62	3.6	313.6	5.8	335.1
73.0	72.81	3.37	-3.12	4.6	317.2	5.9	333.4
83.0	82.75	4.31	-3.59	5.6	320.2	6.7	312.3
93.0	92.69	5.08	-4.36	6.7	319.4	6.1	305.2
103.0	102.63	5.77	-5.18	7.8	318.1	6.1	315.2
113.0	112.57	6.50	-6.00	8.8	317.3	6.3	308.3
123.0	122.51	7.24	-6.80	9.9	316.8	6.5	304.1
133.0	132.45	8.00	-7.62	11.0	316.4	6.3	309.2
143.0	142.39	8.72	-8.40	12.1	316.1	6.3	321.1
153.0	152.34	9.50	-9.04	13.1	316.4	5.9	331.9
163.0	162.28	10.46	-9.42	14.1	318.0	6.0	327.9
173.0	172.22	11.44	-9.74	15.0	319.6	5.9	334.8
183.0	182.17	12.47	-9.95	16.0	321.4	5.9	333.3
193.0	192.11	13.54	-10.12	16.9	323.2	6.5	344.5
203.0	202.04	14.53	-10.70	18.0	323.6	7.1	316.8
213.0	211.97	15.38	-11.49	19.2	323.2	6.2	319.4
223.0	221.91	16.15	-12.17	20.2	323.0	5.7	322.7
233.0	231.87	16.98	-12.64	21.2	323.3	5.1	336.3
243.0	241.83	17.76	-12.83	21.9	324.2	4.0	6.5
253.0	251.81	18.45	-12.82	22.5	325.2	3.7	23.3
263.0	261.79	18.95	-12.50	22.7	326.6	3.2	42.7
273.0	271.77	19.33	-12.10	22.8	328.0	2.5	60.9
283.0	281.76	19.76	-11.70	23.0	329.4	3.2	34.9
293.0	291.73	20.28	-11.23	23.2	331.0	4.5	54.9
303.0	301.70	20.65	-10.54	23.2	333.0	4.7	82.7
313.0	311.66	20.77	-9.66	22.9	335.1	6.1	75.4
323.0	321.60	20.71	-8.56	22.4	337.5	6.8	94.4
333.0	331.50	20.28	-7.30	21.6	340.2	8.8	101.5
343.0	341.36	19.35	-5.85	20.2	342.8	10.1	110.4
353.0	351.20	18.59	-4.42	19.1	346.6	0.0	0.0
352.9	351.14	18.59	-4.42	19.1	346.6	11.0	122.5

GAMMA LS DENSITY

RH 2898

2898
 OTHER SERVICES
 SOST
 SOST
 NA

2010421
 COLUMBIA
 NY

1438384N
 1761.9 m

ELEVATION BS: NA
 ELEVATION OF: NA
 ELEVATION GL: NA

08 06
 15

TO: 202 M. S.P. RB TO TD
 SUBJECT TO STANDARD TERMS AND CONDITIONS

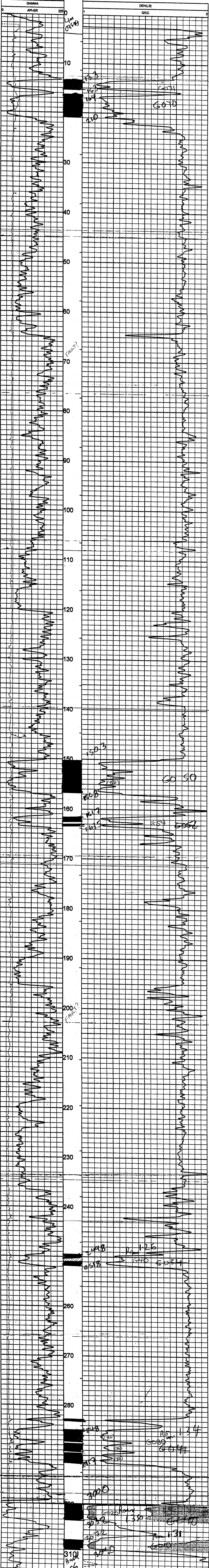
1:200 BULK DENSITY RH 2898 08/14/06

LOG PARAMETERS
 NEUTRON MATRIX: SANDSTONE

MATRIX DENSITY: 2.68
 MAGNETIC DECL: 17.0

MATRIX DELTA T: 140
 T SIZE: 12.70

171



**GAMMA - NEUTRON
LOG THRU DRILL PIPE**

RH 2898

century-geo.com

COMPANY	ELIX VALLEY COAL	OTHER SERVICES	9657 9238 N/A
WELL	RH 2898		
FIELD	N/A		
MUNICIPALITY	ELKFORO		
PROVINCE	BRITISH COLUMBIA		
LOCATION	CASTLE MTN		
SECTION	N/A		
TOWNSHIP	N/A		
RANGE	N/A		
API NO.	N/A		
UNIQUE WELL ID.	N/A		

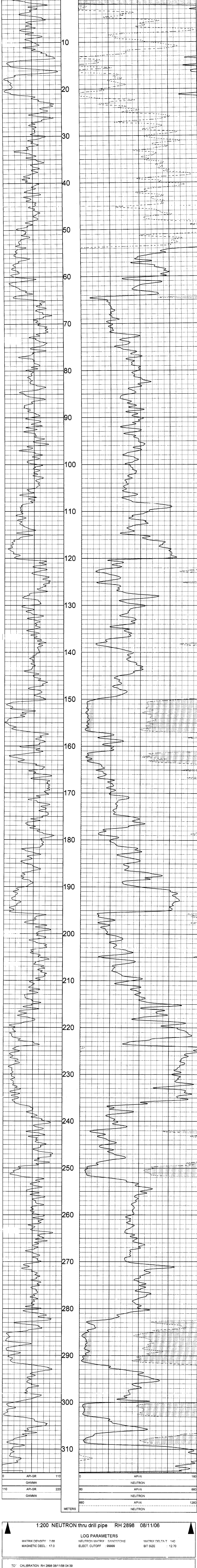
PERMANENT DATUM	N/A	ELEVATION REF.	N/A
LOG MEASURED FROM	G.L.	ELEVATION OF	N/A
DRN MEASURED FROM	G.L.	ELEVATION OF	N/A
DATE	08/11/06		
DEPTH DRILLER	315		
BIT SIZE	12.70		
LOG TOP	0.35		
LOG BOTTOM	315.02		
CASING OD	177.8		
CASING BOTTOM	4		

CASING TYPE	STEEL
BOREHOLE FLUID	WATER
RM TEMPERATURE	N/A
MUD RES	N/A
MUD WEIGHT	N/A
RECORDED BY	R.HECK
REMARKS 1	51Z-HH TO 202 M, 5-0" RB TO TD
REMARKS 2	LOG THRU DRILL PIPE

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

1:200 NEUTRON thru drill pipe RH 2898 08/11/06

MATRIX DENSITY : 2.68 LOG PARAMETERS MATRIX DELTA T : 140
MAGNETIC DECL : 17.0 NEUTRON MATRIX : SANDSTONE ELECT CUTOFF : 99999 BIT SIZE : 12.70



1:200 NEUTRON thru drill pipe RH 2898 08/11/06

MATRIX DENSITY : 2.68 LOG PARAMETERS MATRIX DELTA T : 140
MAGNETIC DECL : 17.0 NEUTRON MATRIX : SANDSTONE ELECT. CUTOFF : 99999 BIT SIZE : 12.70

TO:	CALIBRATION RH 2898 08/11/06 04:39			
TC:	6087A			
SERIAL NUMBER	530			
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Jul12.06 18:07:53	GAMMA	1.000 [API-GR]	1.00 [CPS]
	Jul12.06 18:07:53	GAMMA	250.000 [API-GR]	80.00 [CPS]
2	Jul08.06 14:23:13	NEUTRON	1.000 [API-N]	1.00 [CPS]
	Jul08.06 14:23:13	NEUTRON	500.000 [API-N]	500.00 [CPS]

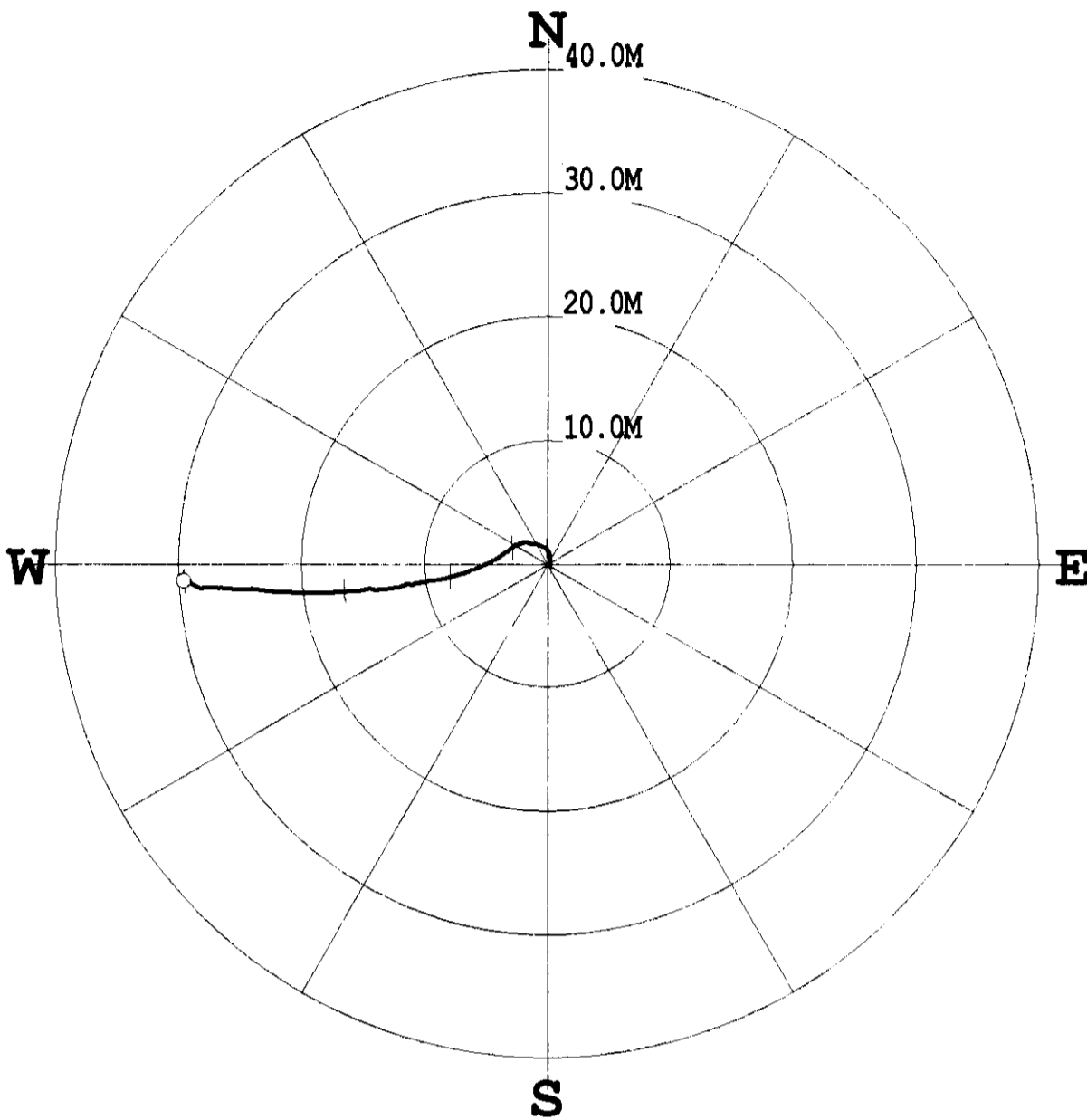
PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION: N/A
 HOLE ID: RH 2898
 DATE OF LOG: 08/14/06
 PROBE: 9057A 1067



MAG DECL: 17.0

SCALE: 5 M/CM
 TRUE DEPTH: 298.98 M
 AZIMUTH: 267.4
 DISTANCE: 29.6 M
 + = 50 M INCR
 ○ = BOTTOM OF HOLE



***** COMPU-LOG - VERTICAL DEVIATION *****

CLIENT : ELK VALLEY COAL HOLE ID. : RH 2398
 FIELD OFFICE : DATE OF LOG : 08/14/06
 DATA FROM : N/A PROBE : 9057A , 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: \RH2898_08-14-06_10-50_9057A_.02_4.00_302.20_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
4.0	4.02	0.00	0.00	0.0	28.8	0.3	28.8
14.0	14.00	0.02	0.06	0.1	66.5	0.7	46.2
24.0	24.00	0.08	0.13	0.1	59.4	0.6	54.4
34.0	34.00	0.14	0.20	0.2	55.0	0.5	40.7
44.0	44.00	0.20	0.25	0.3	51.2	0.4	27.6
54.0	54.00	0.28	0.27	0.4	43.7	0.7	8.7
64.0	64.00	0.41	0.27	0.5	33.6	0.8	347.7
74.0	74.00	0.57	0.25	0.6	23.9	1.1	352.3
84.0	83.99	0.77	0.20	0.8	14.7	1.5	347.3
94.0	93.99	1.02	0.08	1.0	4.4	1.8	328.3
104.0	103.98	1.30	-0.16	1.3	352.8	2.5	306.6
114.0	113.97	1.52	-0.57	1.6	339.4	3.1	292.5
124.0	123.96	1.64	-1.03	1.9	327.7	2.2	263.5
134.0	133.95	1.72	-1.50	2.3	318.8	3.9	286.6
144.0	143.91	1.68	-2.33	2.9	305.8	6.4	259.4
154.0	153.85	1.11	-3.19	3.4	289.2	5.9	233.9
164.0	163.80	0.56	-4.00	4.0	277.9	5.8	250.2
174.0	173.75	0.09	-4.91	4.9	271.0	6.0	255.3
184.0	183.69	-0.33	-5.91	5.9	266.8	7.1	259.6
194.0	193.60	-0.75	-7.08	7.1	263.9	7.8	258.4
204.0	203.50	-1.12	-8.41	8.5	262.4	8.4	257.9
214.0	213.38	-1.39	-9.93	10.0	262.0	9.2	251.0
224.0	223.23	-1.61	-11.54	11.7	262.1	10.1	239.9
234.0	233.08	-1.94	-13.21	13.3	261.6	10.4	268.1
244.0	242.90	-2.03	-14.99	15.1	262.3	11.3	257.8
254.0	252.67	-2.20	-17.11	17.2	262.7	13.1	269.8
264.0	262.39	-2.22	-19.43	19.6	263.5	13.9	271.7
274.0	272.08	-2.18	-21.89	22.0	264.3	13.4	264.5
284.0	281.72	-1.95	-24.52	24.6	265.5	16.0	272.5
294.0	291.32	-1.85	-27.32	27.4	266.1	15.4	260.0
302.0	298.98	-1.32	-29.56	29.6	267.4	17.6	283.1

RH #28-99

OTHER SERVICES:
8051
8057
8239

Company: EIK VALLEY COAL
Well: RH #28-99
Field: N/A
Municipality: ELK FORD
Province: BRITISH COLUMBIA

2899

26882.790
143822.775
1899.005

Location: CASTLE MTN
Section: N/A
Township: N/A
Range: N/A
APR NO.: N/A
UNIQUE WELL ID: N/A
PERMANENT DWTM: N/A
LOG MEASURED FROM: G.L.
DATE: 06/28/05
DEPTH DRILLER: N/A
LOG TOP: 13.970
LOG BOTTOM: 388.22
CASING OD: 1778
CASING BOTTOM: 3
Casing Type: STEEL
Borehole Fluid: WATER
Rm Temp: N/A
Mud Weight: N/A
Recorded by: RHEK
Remarks 1: 4-7-06
Remarks 2:

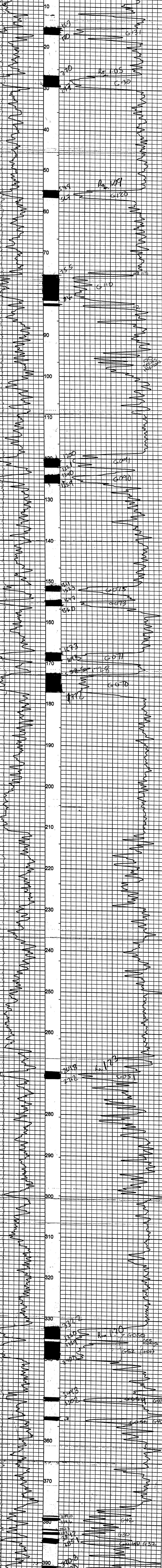
CASTLE
ELEVATION: N/A
ELEVATION OF: N/A

LOG TOP: 13.970
LOG BOTTOM: 388.22
CASING OD: 1778
CASING BOTTOM: 3
Casing Type: STEEL
Borehole Fluid: WATER
Rm Temp: N/A
Mud Weight: N/A
Recorded by: RHEK
Remarks 1: 4-7-06
Remarks 2:

MATRIX DENSITY: 2.68
MAGNETIC DECL: 17.0

LOG PAR
NEUTRON MA
ELECT. CUTO

140
13.970



ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

Century-geo.com		OTHER SERVICES	
COMPANY	ELK VALLEY COAL	9651	9657
WELL	RH #28-99	9239	
FIELD	N/A		
MANIPULATOR	ELKFOOD		
PROVINCE	BRITISH COLUMBIA		
LOCATION	CASLE MTN		
SECTION	N/A		
TOWNSHIP	N/A		
RANGE	N/A		
APN NO.	N/A		
LANDOWNER ID.	N/A		
PERMANENT DISPLAY	N/A	ELEVATION	925
LOG MEASURED FROM	Q.L.	ELEVATION OF	N/A
DATE	06/29/06	ELEVATION OF	N/A
DEPTH DRILLER	380		
LOG TOP	13.970		
LOG BOTTOM	0.36		
CASING OD	388.22		
CASING ID	17.78		
CASING BOTTOM	3		
BORING FLUID	WATER		
BORING TEMPERATURE	N/A		
MUD RES.	N/A		
MUD WEIGHT	N/A		
RECORDED BY	F. HECK		
REMARKS 1	: SIZ. BIT TO TD		
REMARKS 2			

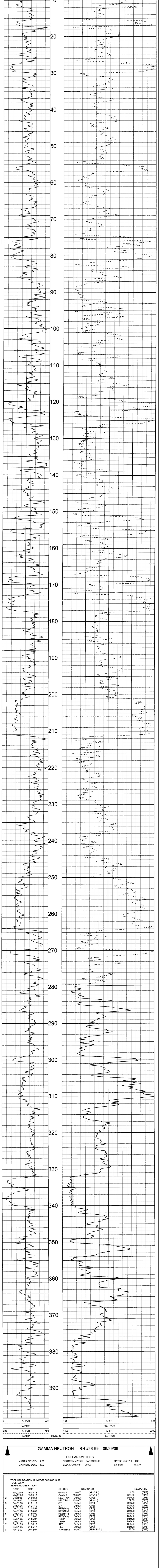
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

GAMMA NEUTRON RH #28-99 06/29/06

MATRIX DENSITY : 2.68
MAGNETIC DECL. : 17.0

LOG PARAMETERS
NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 99999

MATRIX DELTA T : 140
BIT SIZE : 13.970



GAMMA NEUTRON RH #28-99 06/29/06

MATRIX DENSITY : 2.68
MAGNETIC DECL. : 17.0

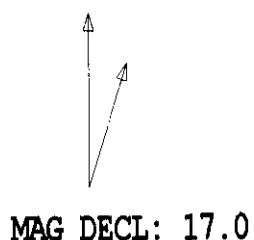
LOG PARAMETERS
NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 99999

MATRIX DELTA T : 140
BIT SIZE : 13.970

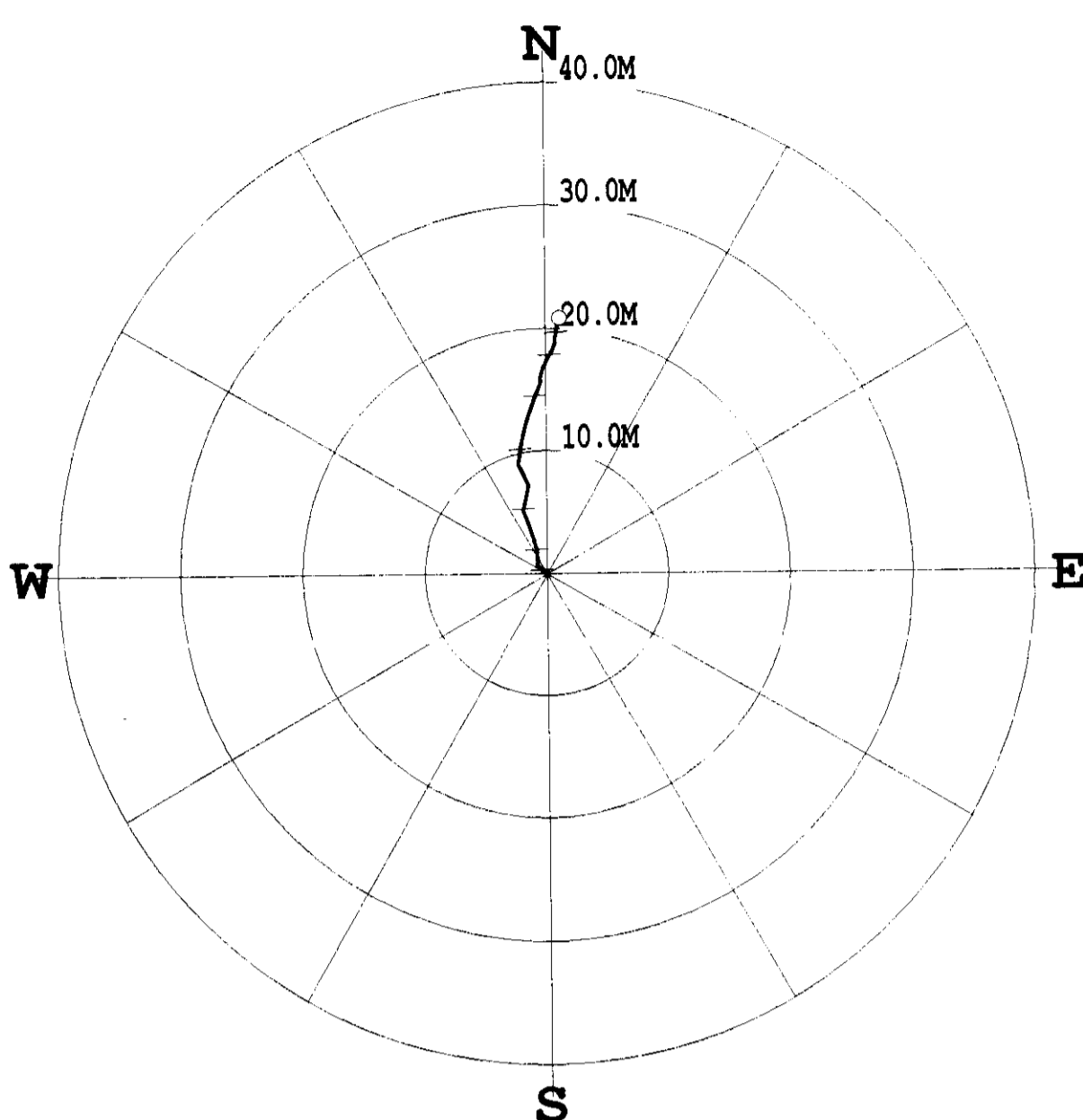
TOOL CALIBRATION RH #28-99 06/29/06 14:19			
TOOL: 9057A			
SERIAL NUMBER 1067			
DATE	TIME	SENSOR	STANDARD
1	May22.06 15:03:18	GAMMA	0.000 [API-GR]
1	May22.06 15:03:18	GAMMA	325.000 [API-GR]
2	Oct24.05 21:50:54	NEUTRON	Default [CPS]
2	Oct24.05 21:50:54	NEUTRON	152.000 [API-N]
3	Dec01.05 21:21:19	SP	Default [CPS]
3	Dec01.05 21:21:19	SP	Default [CPS]
4	Dec01.05 21:54:52	RES(16N)	Default [CPS]
4	Dec01.05 21:54:52	RES(16N)	Default [CPS]
5	Dec01.05 21:55:00	RES(64N)	Default [CPS]
5	Dec01.05 21:55:00	RES(64N)	Default [CPS]
6	Dec01.05 21:55:07	TEMP	Default [CPS]
6	Dec01.05 21:55:07	TEMP	Default [CPS]
7	Dec01.05 21:55:17	NCO	Default [CPS]
7	Dec01.05 21:55:17	NCO	Default [CPS]
8	Apr12.02 00:42:07	POR(NEU)	100.000 [PERCENT]
8	Apr12.02 00:42:07	POR(NEU)	178.00 [CPS]

PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION: N/A
 HOLE ID: RH #28-99
 DATE OF LOG: 06/29/06
 PROBE: 9057A 1067



SCALE: 5 M/CM
 TRUE DEPTH: 397.22 M
 AZIMUTH: 3.3
 DISTANCE: 20.8 M
 + = 50 M INCR
 ○ = BOTTOM OF HOLE



* * * * * COMPU-LOG - VERTICAL DEVIATION * * * * *

CLIENT : ELK VALLEY COAL HOLE ID. : RH #28-99
 FIELD OFFICE : DATE OF LOG : 06/29/06
 DATA FROM : N/A PROBE : 9057A , 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: RH#28-99_06-29-06_14-19_9057A_02_3.00_398.22_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
3.0	3.00	-0.00	-0.00	0.0	245.6	0.1	245.6
13.0	13.00	0.03	-0.06	0.1	293.8	0.7	299.4
23.0	23.00	0.10	-0.18	0.2	299.1	0.8	299.2
33.0	33.00	0.18	-0.29	0.3	301.7	0.6	312.9
43.0	43.00	0.27	-0.38	0.5	305.3	0.6	322.2
53.0	53.00	0.35	-0.45	0.6	308.0	0.8	324.1
63.0	62.99	0.48	-0.59	0.8	309.0	1.6	336.9
73.0	72.99	0.71	-0.77	1.0	312.7	2.0	357.7
83.0	82.98	1.10	-0.78	1.4	324.5	2.5	357.9
93.0	92.97	1.60	-0.81	1.8	333.3	3.1	357.9
103.0	102.95	2.17	-0.89	2.3	337.8	3.4	347.2
113.0	112.93	2.75	-1.05	2.9	339.1	3.5	348.3
123.0	122.92	3.32	-1.22	3.5	339.8	3.5	347.2
133.0	132.90	3.92	-1.44	4.2	339.8	4.3	350.1
143.0	142.86	4.70	-1.73	5.0	339.8	5.0	333.4
153.0	152.82	5.60	-1.83	5.9	341.9	5.8	12.1
163.0	162.76	6.61	-1.61	6.8	346.3	5.9	12.2
173.0	172.71	7.57	-1.65	7.7	347.7	5.8	335.9
183.0	182.66	8.47	-2.09	8.7	346.1	5.6	332.9
193.0	192.61	9.39	-2.24	9.7	346.6	5.7	13.2
203.0	202.56	10.33	-2.07	10.5	348.7	5.3	13.6
213.0	212.52	11.24	-1.87	11.4	350.6	5.3	18.0
223.0	222.48	12.14	-1.65	12.2	352.3	5.3	17.4
233.0	232.44	12.99	-1.38	13.1	353.9	4.9	15.6
243.0	242.40	13.82	-1.09	13.9	355.5	5.1	11.8
253.0	252.36	14.62	-0.78	14.6	356.9	4.8	25.6
263.0	262.33	15.35	-0.49	15.4	358.2	4.2	20.1
273.0	272.30	16.06	-0.41	16.1	358.5	4.3	18.5
283.0	282.28	16.76	-0.18	16.8	359.4	4.4	21.8
293.0	292.25	17.41	0.11	17.4	0.4	4.0	24.8
303.0	302.23	17.97	0.41	18.0	1.3	3.2	27.8
313.0	312.22	18.44	0.65	18.5	2.0	2.8	23.7
323.0	322.21	18.81	0.79	18.8	2.4	2.0	17.0
333.0	332.20	19.13	0.83	19.1	2.5	1.7	357.0
343.0	342.20	19.45	0.85	19.5	2.5	1.6	6.4
353.0	352.19	19.75	0.89	19.8	2.6	1.6	11.6
363.0	362.19	20.04	0.96	20.1	2.7	1.7	19.9
373.0	372.18	20.28	1.03	20.3	2.9	1.4	8.4
383.0	382.18	20.51	1.09	20.5	3.0	1.2	18.7
393.0	392.18	20.71	1.16	20.7	3.2	1.0	25.1
398.0	397.22	20.79	1.19	20.8	3.3	0.9	22.3

Century-geo.com

COMPANY : ELK VALLEY COAL
WELL : RH #29-00
FIELD : N/A
MUNICIPALITY : ELK FORD
PROVINCE : BRITISH COLUMBIA

OTHER SERVICES : 9087 9087 9238

LOCATION : CASTLE MTN.
SECTION : N/A
TOWNSHIP : N/A
RANGE : N/A
API NO. : N/A
UNIQUE WELL ID : N/A

PERMANENT DATUM : N/A
LOG MEASURED FROM : G.L.
DRL. MEASURED FROM : G.L.

ELEVATION IGS : N/A
ELEVATION OF : N/A
ELEVATION G.L. : N/A

DATE : 07/16/06
DEPTH DRILLER : Z21
BIT SIZE : 13016
LOG TOP : 0.18
LOG BOTTOM : 220.89

CASING OD : 7.78
CASING BOTTOM : 9
CASING TYPE : STEEL
BORHOLE FLUID : WATER
RAI TEMPERATURE : N/A
MUD RES : N/A
MUD WEIGHT : N/A

RECORDED BY : [Signature]
REMARKS 1 : 18-07-06
REMARKS 2 : 51/4" RB TO 183 M. 51/8" RB TO TD

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

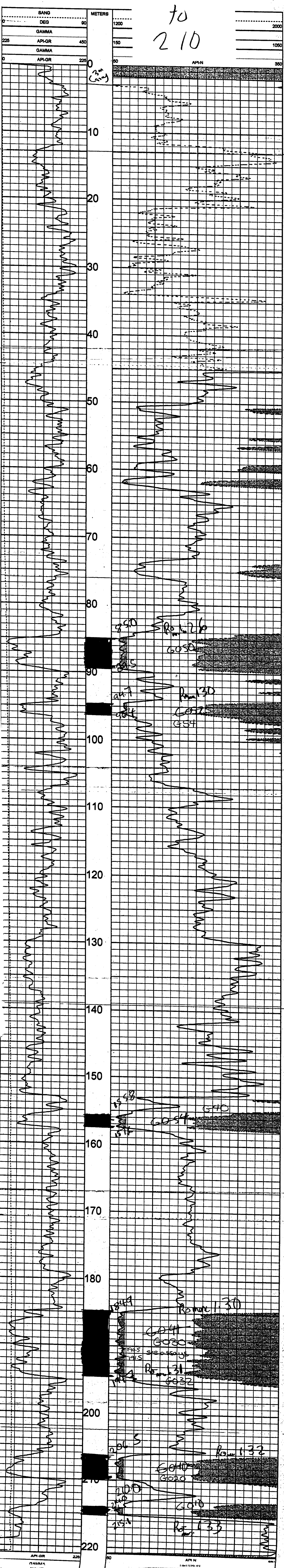
200 PLOT RATIO RH #29-00 07/16/06

MATRIX DENSITY : 2.68
MAGNETIC DECL. : 17.0

LOG F
NEUTRON
ELECT. C

AT : 140
13.018

8.911
to
210



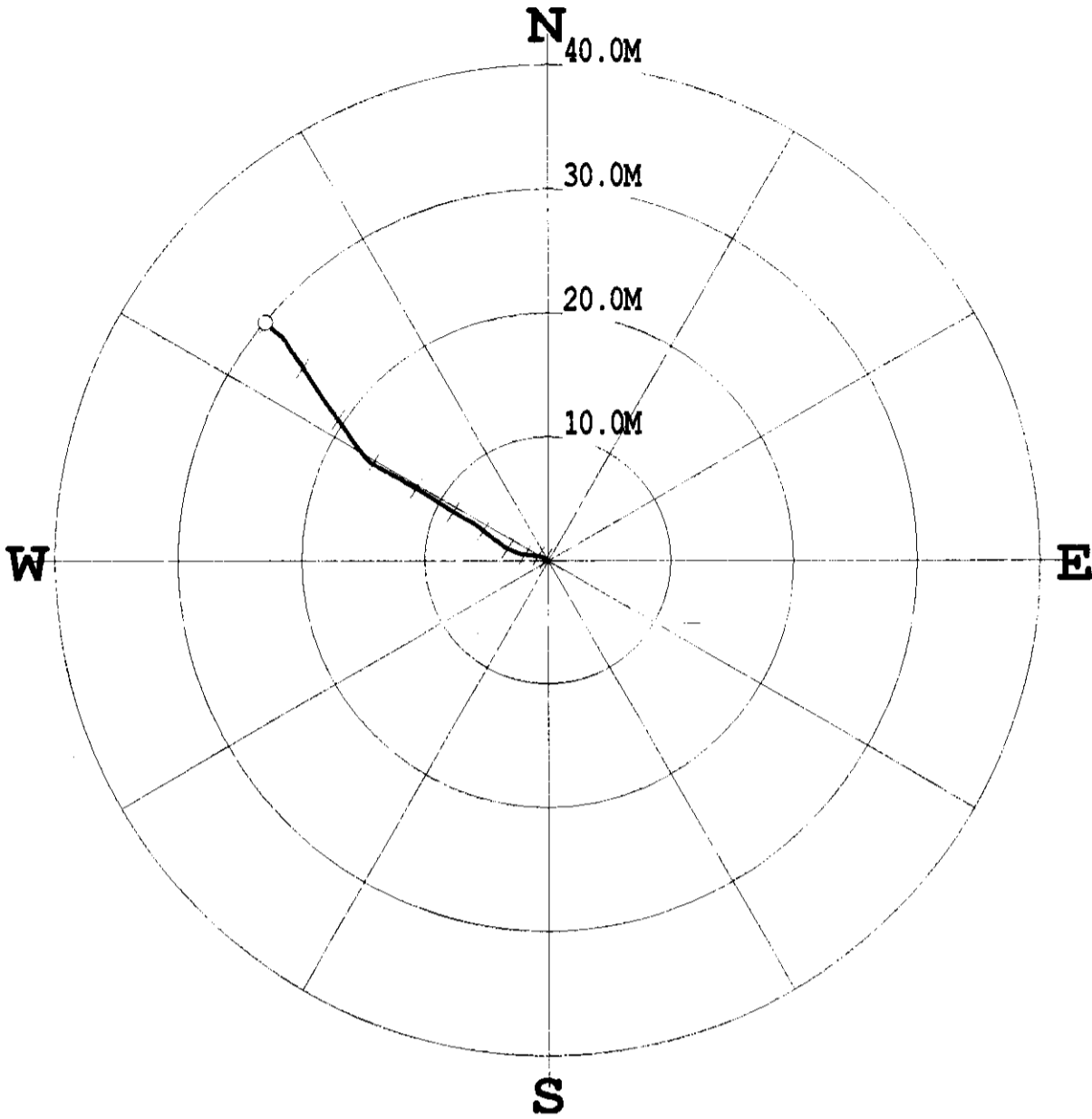
PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION: N/A
 HOLE ID: RH #29-00
 DATE OF LOG: 07/16/06
 PROBE: 9057A 1067



MAG DECL: 17.0

SCALE: 5 M/CM
 TRUE DEPTH: 217.86 M
 AZIMUTH: 310.0
 DISTANCE: 29.9 M
 + = 20 M INCR
 ○ = BOTTOM OF HOLE



* * * * * COMPU-LOG - VERTICAL DEVIATION * * * * *

CLIENT : ELK VALLEY COAL HOLE ID. : RH #29-00
 FIELD OFFICE : DATE OF LOG : 07/16/06
 DATA FROM : N/A PROBE : 9057A , 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: \RH#29-00_07-16-06_10-58_9057A_02_3.00_220.99_DEVI.log

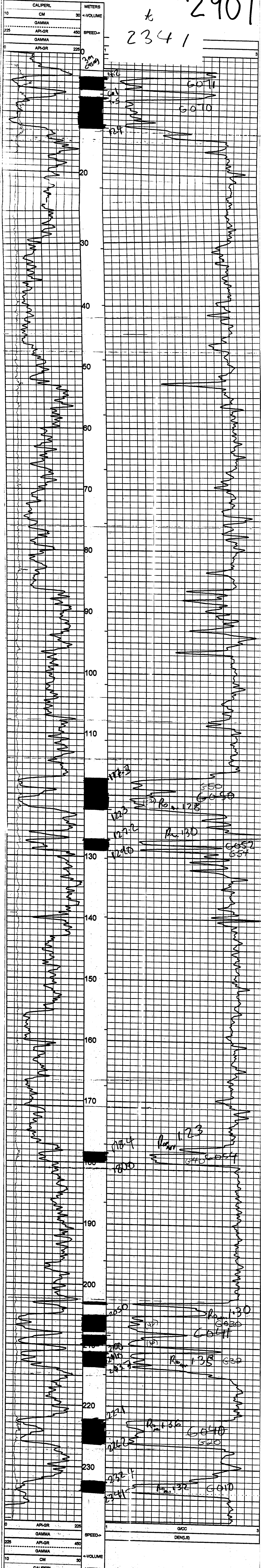
CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
3.0	3.02	-0.00	-0.00	0.0	212.2	0.4	212.2
13.0	13.00	0.08	-0.10	0.1	309.3	0.9	313.1
23.0	23.00	0.19	-0.25	0.3	307.7	1.1	302.0
33.0	32.99	0.32	-0.52	0.6	301.5	2.2	290.6
43.0	42.98	0.41	-0.94	1.0	293.6	2.8	279.9
53.0	52.97	0.47	-1.48	1.6	287.7	3.4	279.6
63.0	62.95	0.54	-2.04	2.1	284.8	3.6	281.4
73.0	72.93	0.72	-2.69	2.8	285.0	4.6	290.5
83.0	82.88	1.14	-3.56	3.7	287.7	6.6	309.4
93.0	92.81	1.85	-4.49	4.9	292.3	7.7	313.3
103.0	102.72	2.68	-5.54	6.2	295.8	8.0	295.0
113.0	112.62	3.43	-6.75	7.6	296.9	8.1	303.1
123.0	122.50	4.20	-8.04	9.1	297.6	9.1	301.7
133.0	132.35	5.14	-9.47	10.8	298.5	10.6	299.8
143.0	142.18	6.08	-11.06	12.6	298.8	11.3	303.7
153.0	151.99	7.05	-12.74	14.6	299.0	11.9	294.3
163.0	161.78	8.02	-14.52	16.6	298.9	11.8	311.1
173.0	171.54	9.72	-15.86	18.6	301.5	13.1	323.6
183.0	181.27	11.61	-17.22	20.8	304.0	14.1	328.3
193.0	190.97	13.59	-18.60	23.0	306.2	14.0	328.0
203.0	200.65	15.70	-19.97	25.4	308.2	16.1	334.1
213.0	210.31	17.83	-21.39	27.8	309.8	14.9	315.0
220.8	217.86	19.19	-22.88	29.9	310.0	16.1	318.2

MATRIX DENSITY: 2.66
MAGNETIC DECL: 17.0

LOG PARAMETERS
NEUTRON MATRIX: SANDSTONE
ELE

MATRIX DELTA T: 140
: 12.70

7211-2901
k
2341



10	CALIPERL	30
	CM	
	GAMMA	
225	API-GR	450
	GAMMA	
0	API-GR	225

1	GCC	3
	DEN(LS)	

0	API-GR	225
	GAMMA	
225	API-GR	450
	GAMMA	
10	CM	30
	CALIPERL	

1	GCC	3
	DEN(LS)	

COMPANY : ELK VALLEY COAL
WELL : RH 2901
FIELD : N/A
MUNICIPALITY : ELK-FORD
PROVINCE : BRITISH COLUMBIA

OTHER SERVICES : 9057
9239
N/A

LOCATION : CASTLE MTN
SECTION : N/A
TOWNSHIP : N/A
RANGE : N/A
API NO : N/A
UNIQUE WELL ID : N/A

PERMANENT DATUM : N/A
LOG MEASURED FROM : G L
DRL MEASURED FROM : G L
ELEVATION NG : N/A
ELEVATION OF : N/A
ELEVATION GL : N/A

DATE : 08/08/06
DEPTH DRILLER : 239
BIT SIZE : 12.70
LOG TOP : 0.30
LOG BOTTOM : 238.58

CASING OD : 17.78
CASING BOTTOM : 3
CASING TYPE : STEEL
BOREHOLE FLUID : WATER
RM TEMPERATURE : N/A
MUD RES : N/A
MUD WEIGHT : N/A

RECORDED BY : R HECK
REMARKS 1 : 51/2" RB TO 103 M, 5.0" RB TO TD
REMARKS 2 : LOG THRU DRILL PIPE

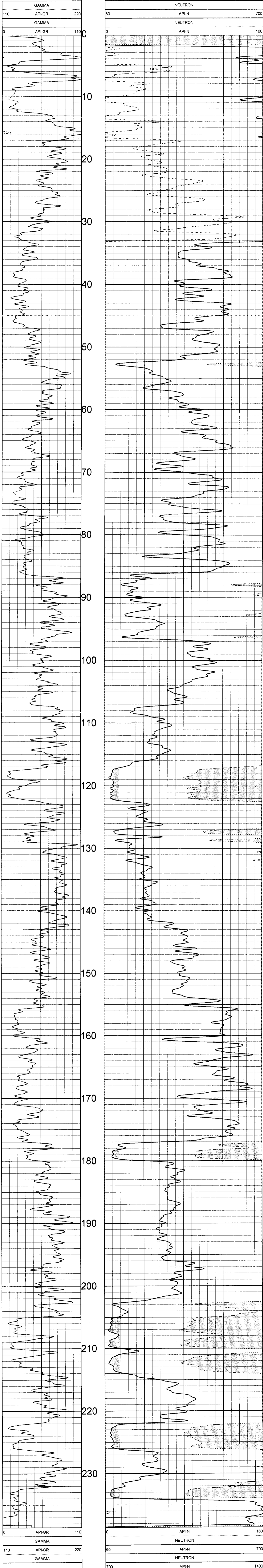
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

1:200 NEUTRON thru drill pipe RH 2901 08/08/06

MATRIX DENSITY : 2.68
MAGNETIC DECL : 17.0

LOG PARAMETERS
NEUTRON MATRIX : SANDSTONE
ELECT CUTOFF : 99999

MATRIX DELTA T : 140
BIT SIZE : 12.70



1:200 NEUTRON thru drill pipe RH 2901 08/08/06

MATRIX DENSITY : 2.68
MAGNETIC DECL : 17.0

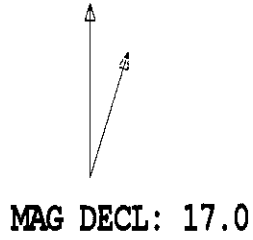
LOG PARAMETERS
NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 99999

MATRIX DELTA T : 140
BIT SIZE : 12.70

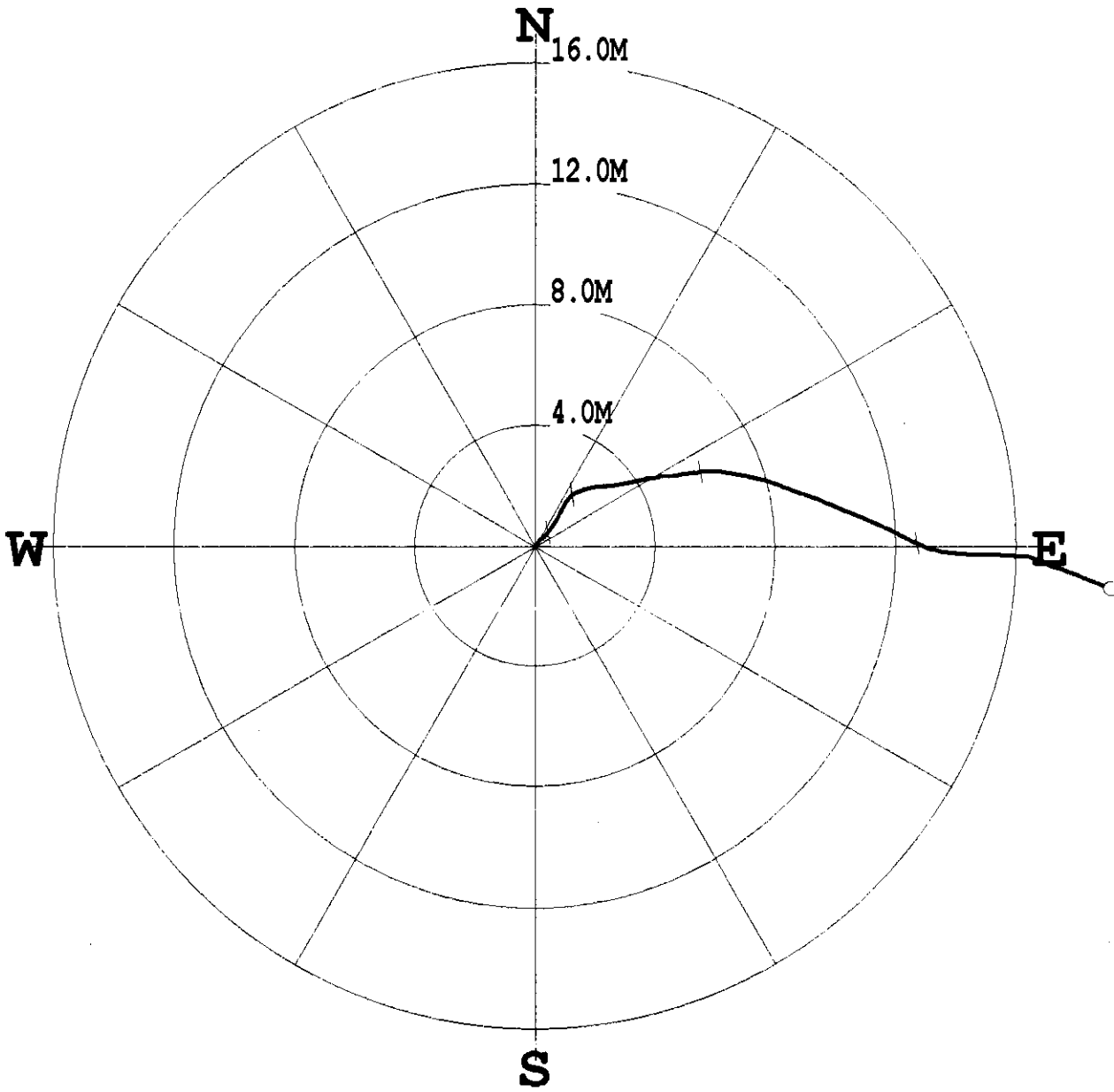
TOOL CALIBRATION RH 2901 08/08/06 06:36				
TOOL 9067A				
SERIAL NUMBER 530				
DATE	TIME	SENSOR	STANDARD	RESPONSE
Jul12,06	19:07:53	GAMMA	1.000 [API-GR]	1.00 [CPS]
Jul12,06	18:07:53	GAMMA	250.000 [API-GR]	80.00 [CPS]
Jul08,06	14:23:13	NEUTRON	1.000 [API-N]	1.00 [CPS]
Jul08,06	14:23:13	NEUTRON	500.000 [API-N]	500.00 [CPS]

PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION: N/A
 HOLE ID: RH 2901
 DATE OF LOG: 08/08/06
 PROBE: 9057A 1067



SCALE: 2 M/CM
 TRUE DEPTH: 237.40 M
 AZIMUTH: 94.2
 DISTANCE: 19.2 M
 + = 50 M INCR
 ○ = BOTTOM OF HOLE



***** COMPU-LOG - VERTICAL DEVIATION *****

CLIENT : ELK VALLEY COAL HOLE ID. : RH 2901
 FIELD OFFICE : DATE OF LOG : 08/08/06
 DATA FROM : N/A PROBE : 9057A , 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: \RH2901_08-08-06_12-34_9057A_.02_3.00_239.00_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
3.0	3.02	-0.00	-0.00	0.0	221.6	0.1	221.6
13.0	13.00	0.04	0.00	0.0	7.2	0.5	32.6
23.0	23.00	0.14	0.09	0.2	32.2	0.9	40.6
33.0	33.00	0.25	0.18	0.3	36.6	1.0	50.1
43.0	43.00	0.36	0.31	0.5	41.0	1.1	39.9
53.0	52.99	0.52	0.45	0.7	41.0	1.2	35.6
63.0	62.99	0.72	0.60	0.9	39.6	1.4	33.5
73.0	72.99	0.95	0.74	1.2	37.9	1.6	26.6
83.0	82.98	1.18	0.86	1.5	36.0	1.5	31.4
93.0	92.98	1.45	1.01	1.8	35.0	2.2	39.3
103.0	102.97	1.76	1.35	2.2	37.5	2.9	70.7
113.0	112.95	1.94	1.89	2.7	44.3	4.0	76.5
123.0	122.92	2.01	2.64	3.3	52.8	4.8	75.8
133.0	132.88	2.19	3.57	4.2	58.4	6.3	79.9
143.0	142.82	2.31	4.61	5.2	63.3	6.5	76.0
153.0	152.74	2.47	5.86	6.4	67.1	8.2	84.4
163.0	162.64	2.25	7.27	7.6	72.8	8.2	102.3
173.0	172.53	1.81	8.64	8.8	78.2	8.4	104.9
183.0	182.42	1.28	10.05	10.1	82.8	8.9	113.3
193.0	192.29	-0.67	11.51	11.5	86.7	9.5	116.7
203.0	202.15	-0.04	13.02	13.0	90.2	10.2	111.7
213.0	211.99	-0.27	14.78	14.8	91.1	10.4	89.7
223.0	221.82	-0.39	16.57	16.0	91.4	9.6	96.5
233.0	231.67	-1.02	18.18	18.2	93.2	10.4	117.6
238.8	237.40	-1.41	19.13	19.2	94.2	10.3	112.2

WELL : EK VALLEY COAL
FIELD : RH #29-02
MUNICIPALITY : ELK FORD
PROVINCE : BRITISH COLUMBIA
COUNTY : CASTLE MTN
LOCATION : N/A
SECTION : N/A
TOWNSHIP : N/A
RANGE : N/A
APN NO. : N/A
UNIQUE WELL ID. : N/A
PERMANENT DATUM : N/A
LOG MEASURED FROM : G.L.
DATE : 08/27/05
DEPTH DRILLER : JLB
LOG TOP : 320
LOG BOTTOM : 320.57
CASING OD : 17.78
CASING BOTTM : 3
CLOGGING TYPE : STEEL
BOREHOLE FLUID : WATER
MUD RES : N/A
MUD WEIGHT : N/A

OTHER SERVICES
9051
9057
9238

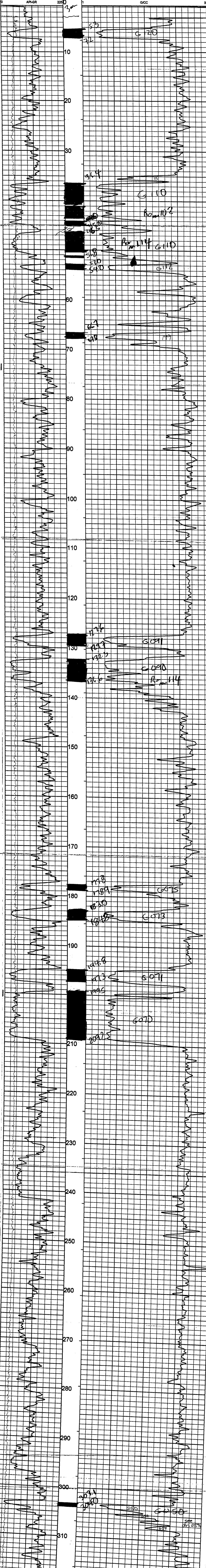
RECORDED BY : R.HECK
REVISIONS : 1
REVISIONS : 2

51/2" BIT TO 298 M. 51/8" ROCK BIT TO TD
2010
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

GAMMA LS DENSITY RH #29-

MATRIX DENSITY : 2.68
MAGNETIC DECL. : 17.0

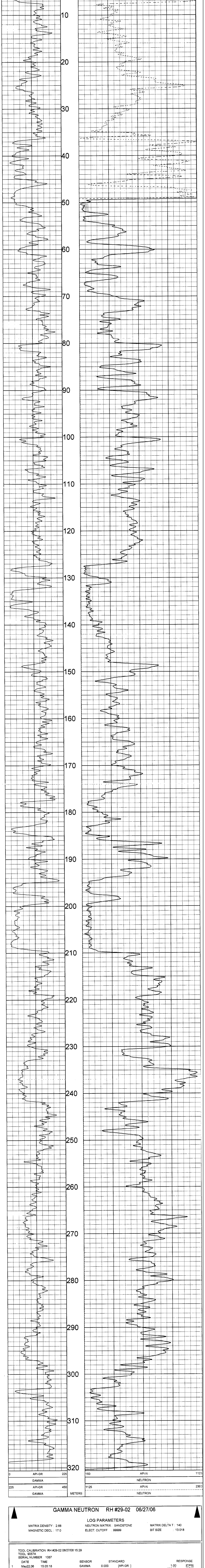
LOG PARAMETERS
NEUTRON MATRIX : SAND
ELECT. CUTOFF : 99999



COMPANY	ELK VALLEY COAL	WELL	RH #29-02
FIELD	N/A	MUNICIPALITY	ELK FORD
PROVINCE	BRITISH COLUMBIA	LOCATION	CASTLE MTN
SECTION	N/A	TOWNSHIP	N/A
RANGE	N/A	RANGE	N/A
API NO.	N/A	UNIQUE WELL ID	N/A
PERMANENT DATUM	N/A	ELEVATION (M)	N/A
LOG MEASURED FROM	G.L.	ELEVATION (G.L.)	N/A
DATE	06/27/06	DEPTH (DRILLER)	320
BIT SIZE	13.018	LOG TOP	0.33
LOG BOTTOM	320.57	CASING OD	17.78
CASING BOTTOM	3	CASING TYPE	STEEL
BORING TYPE	WATER	BORING FLUID	N/A
RAM TEMPERATURE	N/A	MUD RES	N/A
MUD WEIGHT	N/A	RECORDED BY	R.HECK
REMARKS 1	51/2" BIT TO 238 M, 51/8" HOOK BIT TO TD	REMARKS 2	

GAMMA NEUTRON RH #29-02 06/27/06

MATRIX DENSITY : 2.68 LOG PARAMETERS MATRIX DELTA T : 140
MAGNETIC DECL : 17.0 NEUTRON MATRIX : SANDSTONE ELECT. CUTOFF : 99999 BIT SIZE : 13.018



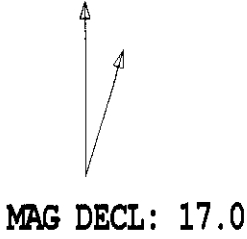
GAMMA NEUTRON RH #29-02 06/27/06

MATRIX DENSITY : 2.68 LOG PARAMETERS MATRIX DELTA T : 140
MAGNETIC DECL : 17.0 NEUTRON MATRIX : SANDSTONE ELECT. CUTOFF : 99999 BIT SIZE : 13.018

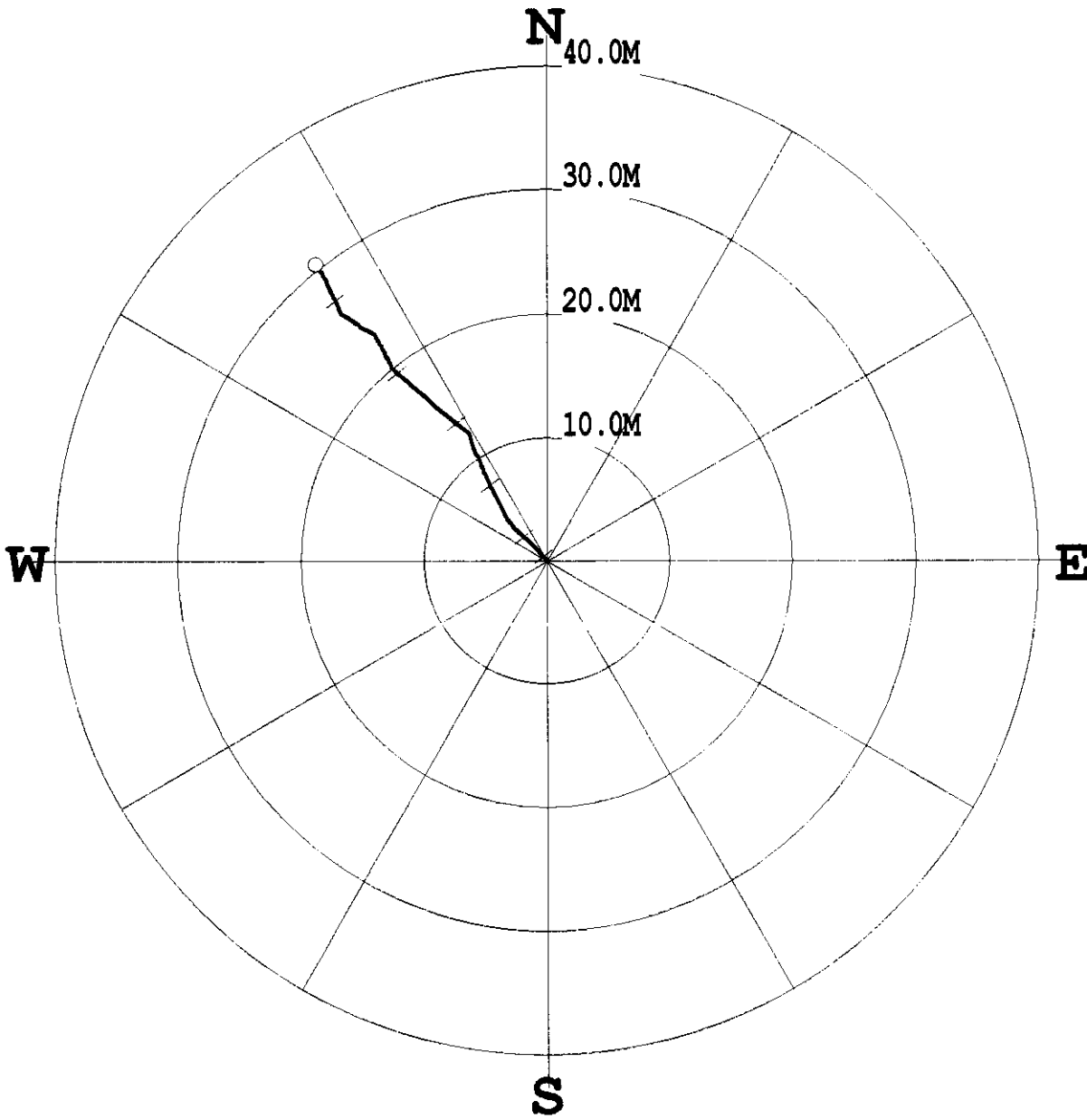
TOOL CALIBRATION	RH #29-02 06/27/06 15:29	TOOL	9057A	SERIAL NUMBER	1067
DATE	TIME	SENSOR	0 000	[API-GR]	1 00 [CPS]
May22.06	15:03:18	GAMMA	325 000	[API-GR]	325.00 [CPS]
May22.06	15:03:18	NEUTRON	Default	[CPS]	Default [CPS]
Oct24.05	21:50:54	NEUTRON	152 000	[API-N]	167.00 [CPS]
Dec01.05	21:21:19	SP	Default	[CPS]	Default [CPS]
Dec01.05	21:21:19	RES(16N)	Default	[CPS]	Default [CPS]
Dec01.05	21:54:52	RES(16N)	Default	[CPS]	Default [CPS]
Dec01.05	21:55:00	RES(64N)	Default	[CPS]	Default [CPS]
Dec01.05	21:55:00	RES(64N)	Default	[CPS]	Default [CPS]
Dec01.05	21:55:07	TEMP	Default	[CPS]	Default [CPS]
Dec01.05	21:55:07	TEMP	Default	[CPS]	Default [CPS]
Dec01.05	21:55:17	RES	Default	[CPS]	Default [CPS]
Dec01.05	21:55:17	RES	Default	[CPS]	Default [CPS]
Apr12.02	00:42:07	POR(NEU)	100 000	[PERCENT]	178.00 [CPS]

PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION: N/A
 HOLE ID: RH #29-02
 DATE OF LOG: 06/27/06
 PROBE: 9057A 1067



SCALE: 5 M/CM
 TRUE DEPTH: 318.34 M
 AZIMUTH: 321.9
 DISTANCE: 30.4 M
 + = 50 M INCR
 ○ = BOTTOM OF HOLE



* * * * * COMPU-LOG - VERTICAL DEVIATION * * * * *

CLIENT : ELK VALLEY COAL HOLE ID. : RH #29-02
 FIELD OFFICE : DATE OF LOG : 06/27/06
 DATA FROM : N/A PROBE : 9057A , 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: \RH#29-02_06-27-06_15-29_9057A_.02_3.00_320.57_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
3.0	3.02	0.00	-0.00	0.0	317.2	0.5	317.2
13.0	13.00	-0.02	0.04	0.0	109.8	0.3	95.8
23.0	23.00	0.02	0.06	0.1	74.6	0.6	351.7
33.0	33.00	0.11	-0.00	0.1	358.4	1.1	316.1
43.0	43.00	0.25	-0.17	0.3	324.9	1.4	306.1
53.0	52.99	0.44	-0.37	0.6	319.9	1.6	313.4
63.0	62.99	0.66	-0.58	0.9	319.0	2.0	323.4
73.0	72.98	0.94	-0.82	1.2	318.9	2.6	320.5
83.0	82.97	1.27	-1.15	1.7	318.0	3.4	314.2
93.0	92.95	1.68	-1.56	2.3	317.2	3.5	314.4
103.0	102.93	2.08	-2.04	2.9	315.5	3.8	320.6
113.0	112.90	2.60	-2.60	3.7	315.0	4.8	316.2
123.0	122.86	3.34	-3.21	4.6	316.1	6.5	319.2
133.0	132.79	4.38	-3.74	5.8	319.5	6.7	331.7
143.0	142.72	5.42	-4.27	6.9	321.8	6.5	334.1
153.0	152.66	6.40	-4.74	8.0	323.4	6.6	327.5
163.0	162.59	7.45	-5.20	9.1	325.1	7.2	342.1
173.0	172.51	8.57	-5.63	10.3	326.7	7.0	304.9
183.0	182.44	9.64	-6.12	11.4	327.6	7.0	349.6
193.0	192.37	10.64	-6.66	12.6	328.0	6.8	306.2
203.0	202.30	11.37	-7.59	13.7	326.3	6.7	304.4
213.0	212.22	12.11	-8.53	14.8	324.8	6.7	310.7
223.0	222.16	12.87	-9.40	15.9	323.9	6.9	302.3
233.0	232.08	13.69	-10.33	17.2	323.0	7.4	307.6
243.0	241.99	14.54	-11.29	18.4	322.2	7.7	307.9
253.0	251.89	15.42	-12.35	19.8	321.3	9.0	316.5
263.0	261.78	16.61	-13.12	21.2	321.7	8.5	341.1
273.0	271.66	17.92	-13.81	22.6	322.4	8.6	304.6
283.0	281.54	18.85	-14.95	24.1	321.6	9.4	296.4
293.0	291.39	19.79	-16.37	25.7	320.4	10.0	277.7
303.0	301.22	21.26	-17.30	27.4	320.9	10.3	315.3
313.0	311.06	22.86	-18.09	29.2	321.6	10.3	335.8
320.4	318.34	23.95	-18.76	30.4	321.9	10.2	298.2

COMPANY : ELK VALLEY COAL
WELL : RH #29-03
FIELD : N/A
MUNICIPALITY : ELKFORD
PROVINCE : BRITISH COLUMBIA

OTHER SERVICES:
9051
9057
9238

2903

LOCATION : CASTLE MTN.
SECTION : N/A
TOWNSHIP : N/A
RANGE : N/A
API NO. : N/A

26889.653
144055.074
1400511

UNIQUE WELL ID. : N/A
PERMANENT DATUM : N/A
LOG MEASURED FROM : G.L.
DRI. MEASURED FROM : G.L.

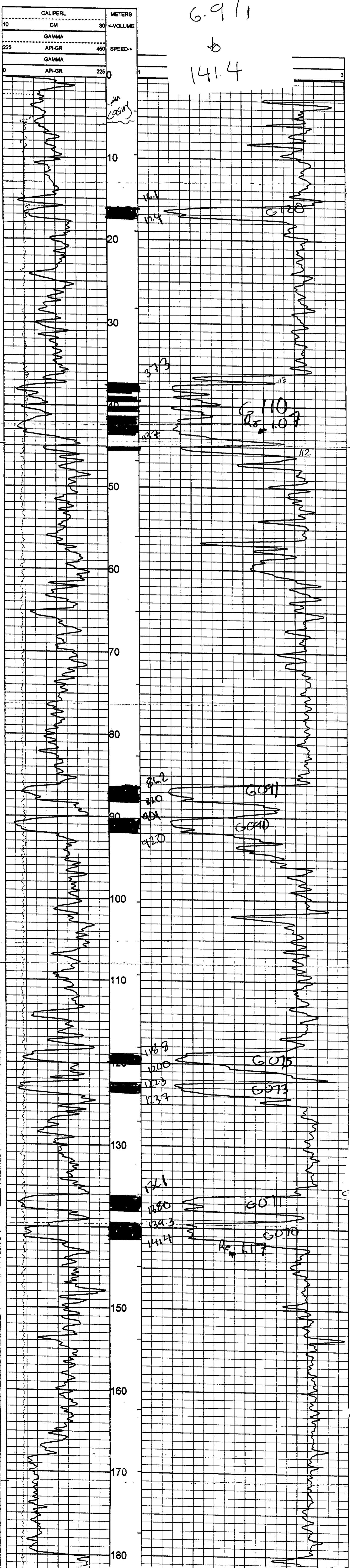
CASTLE
ELEVATION KE: N/A
ELEVATION DE: N/A
ELEVATION GL: N/A

DATE : 06/25/06
DEPTH DRILLER : 190
BIT SIZE : 13.97
LOG TOP : 0.28
LOG BOTTOM : 190.20
CASING OD : 17.78
CASING BOTTOM : 6
CASING TYPE : STEEL
BOREHOLE FLUID : WATER
RM TEMPERATURE : N/A
MUD RES : N/A
MUD WEIGHT : N/A
RECORDED BY : *[Signature]*
REMARKS 1 : *[Signature]*
REMARKS 2 : HOLE DEEPENED TO 190 M AFTER LOG THRU DRILL PIPE

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

GAMMA LS DENSITY RH #29-03 06/25/06

MATRIX DENSITY : 2.68
MAGNETIC DECL : 17.0
LOG PARAMETERS
NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 0.0000
MATRIX DELTA T : 140
13.97

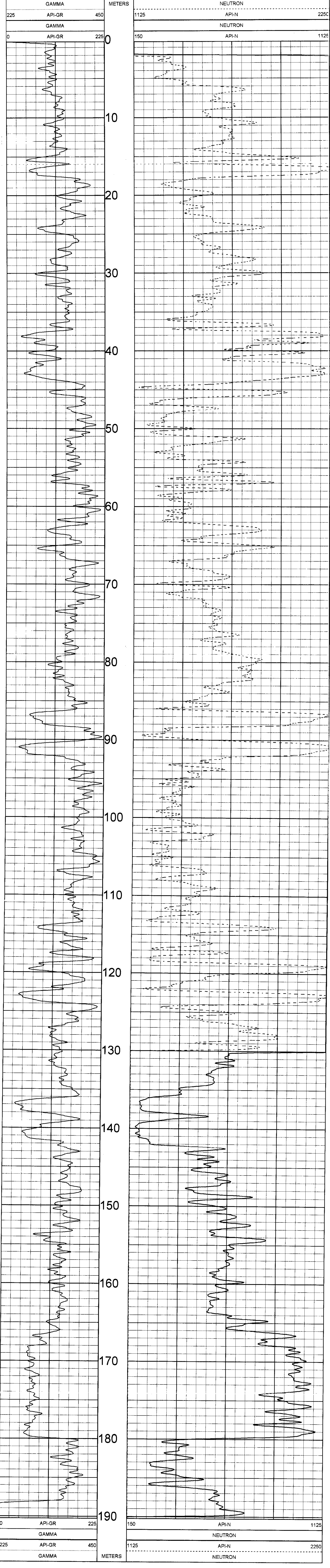


COMPANY	ELK VALLEY COAL	OTHER SERVICES	
WELL	RH #29-03	9051	
FIELD	N/A	9057	
MUNICIPALITY	ELK FORD	9239	
PROVINCE	BREITSH COLUMBIA		
LOCATION	CASTLE MTN		
SECTION	N/A		
TOWNSHIP	N/A		
RANGE	N/A		
API NO.	N/A		
UNIQUE WELL ID	N/A	ELEVATION KB	N/A
PERMANENT DATUM	N/A	ELEVATION DF	N/A
LOG MEASURED FROM	G.L.	DRL MEASURED FROM	G.L.
DATE	06/25/06	ELEVATION GL	N/A
DEPTH DRILLER	180		
BIT SIZE	13.97		
LOG TOP	0.26		
LOG BOTTOM	190.20		
CASING OD	17.78		
CASING BOTTOM	6		
CASING TYPE	STEEL		
BOREHOLE FLUID	WATER		
RM TEMPERATURE	N/A		
MUD RES	N/A		
MUD WEIGHT			
RECORDED BY	R HECK		
REMARKS 1	51/2" BIT TO TD		
REMARKS 2	HOLE DEEPENED TO 190 M AFTER LOG THRU DRILL PIPE		
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS			

GAMMA NEUTRON RH #29-03 06/25/06

LOG PARAMETERS

MATRIX DENSITY : 2.68 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 140
 MAGNETIC DECL : 17.0 ELECT. CUTOFF : 99999 BIT SIZE : 13.97



GAMMA NEUTRON RH #29-03 06/25/06

LOG PARAMETERS

MATRIX DENSITY : 2.68 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 140
 MAGNETIC DECL : 17.0 ELECT. CUTOFF : 99999 BIT SIZE : 13.97

TOOL CALIBRATION RH #29-03 06/25/06 13:10
 TOOL 9057A
 SERIAL NUMBER 1067

DATE	TIME	SENSOR	STANDARD	RESPONSE
1	May22.06	GAMMA	0.000 [API-GR]	1.00 [CPS]
	May22.06	GAMMA	325.000 [API-GR]	325.00 [CPS]
2	Oct24.05	NEUTRON	Default [CPS]	Default [CPS]
	Oct24.05	NEUTRON	152.000 [API-N]	167.00 [CPS]
3	Dec01.05	SP	Default [CPS]	Default [CPS]
	Dec01.05	SP	Default [CPS]	Default [CPS]
4	Dec01.05	RES(16N)	Default [CPS]	Default [CPS]
	Dec01.05	RES(16N)	Default [CPS]	Default [CPS]
5	Dec01.05	RES(64N)	Default [CPS]	Default [CPS]
	Dec01.05	RES(64N)	Default [CPS]	Default [CPS]
6	Dec01.05	TEMP	Default [CPS]	Default [CPS]
	Dec01.05	TEMP	Default [CPS]	Default [CPS]
7	Dec01.05	RES	Default [CPS]	Default [CPS]
	Dec01.05	RES	Default [CPS]	Default [CPS]
8	Apr12.02	POR(NEU)	100.000 [PERCENT]	178.00 [CPS]

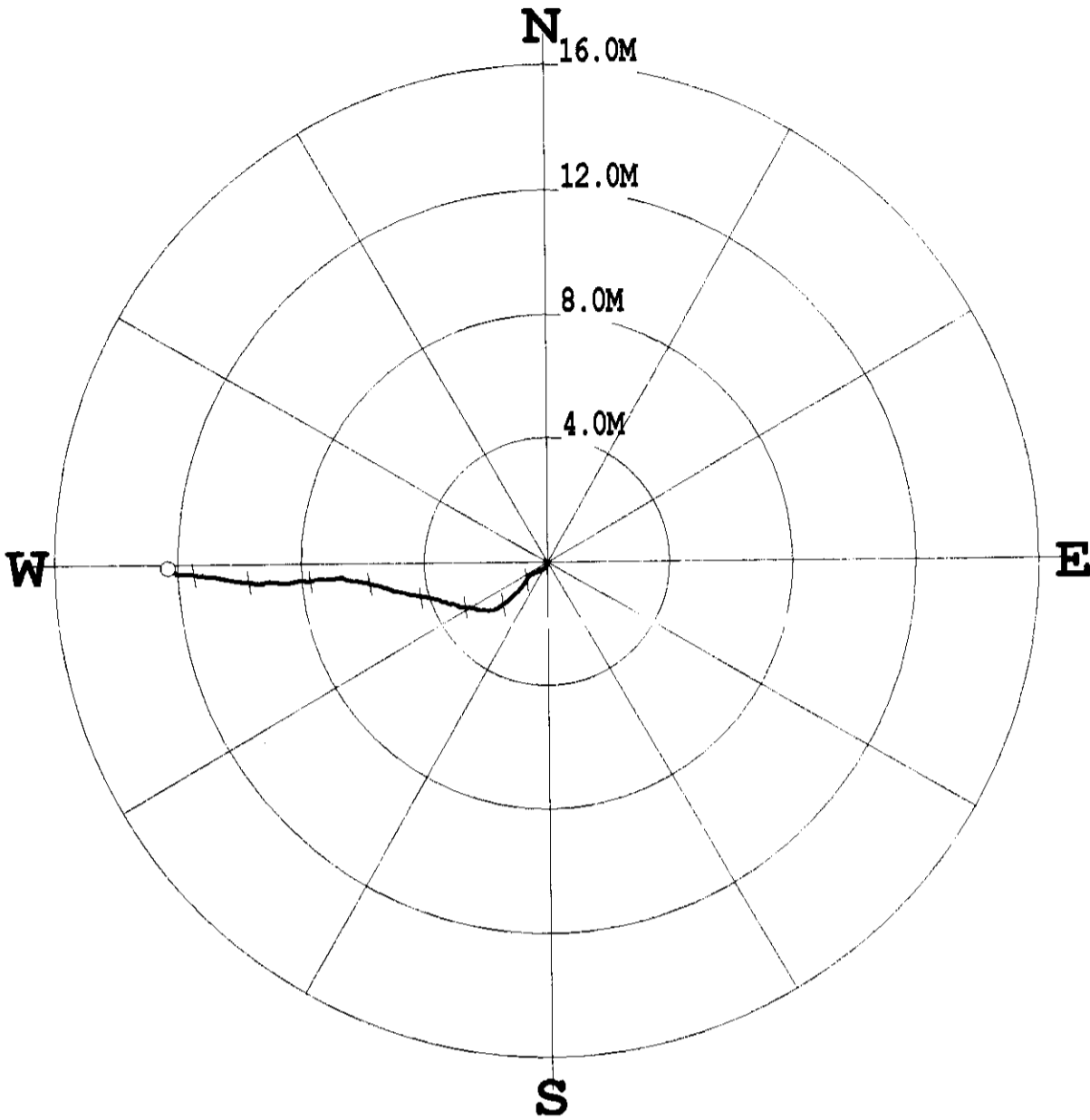
PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION: N/A
 HOLE ID: RH #29-03
 DATE OF LOG: 06/25/06
 PROBE: 9057A 1067



MAG DECL: 17.0

SCALE: 2 M/CM
 TRUE DEPTH: 189.46 M
 AZIMUTH: 269.4
 DISTANCE: 12.3 M
 + = 20 M INCR
 ○ = BOTTOM OF HOLE



***** COMPU-LOG - VERTICAL DEVIATION *****

CLIENT : ELK VALLEY COAL HOLE ID. : RH #29-03
 FIELD OFFICE : DATE OF LOG : 06/25/06
 DATA FROM : N/A PROBE : 9057A , 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: \RH#29-03_06-25-06_13-10_9057A_.02_6.00_190.20_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
6.0	6.02	0.00	-0.00	0.0	274.6	1.1	274.6
16.0	16.00	-0.11	-0.03	0.1	193.4	0.6	177.5
26.0	26.00	-0.24	-0.17	0.3	215.6	1.9	244.2
36.0	35.99	-0.41	-0.54	0.7	233.1	2.8	229.2
46.0	45.97	-0.81	-0.85	1.2	226.4	3.3	224.8
56.0	55.96	-1.20	-1.26	1.7	226.3	3.3	233.1
66.0	65.94	-1.52	-1.75	2.3	228.9	3.7	249.1
76.0	75.92	-1.49	-2.40	2.8	238.2	4.1	277.8
86.0	85.89	-1.32	-3.11	3.4	247.0	4.6	258.8
96.0	95.86	-1.13	-3.83	4.0	253.6	4.4	287.3
106.0	105.83	-0.98	-4.57	4.7	257.8	4.4	271.5
116.0	115.79	-0.74	-5.40	5.4	262.2	5.5	291.0
126.0	125.75	-0.55	-6.31	6.3	265.0	5.6	263.9
136.0	135.70	-0.49	-7.27	7.3	266.2	6.3	285.5
146.0	145.64	-0.59	-8.29	8.3	265.9	5.7	258.7
156.0	155.59	-0.61	-9.29	9.3	266.2	5.5	263.1
166.0	165.54	-0.52	-10.22	10.2	267.1	5.1	280.6
176.0	175.50	-0.39	-11.10	11.1	268.0	4.6	292.4
186.0	185.46	-0.32	-11.97	12.0	268.4	4.7	267.7
190.0	189.46	-0.12	-12.31	12.3	269.5	5.6	263.8

RH #29-04

OTHER SERVICES

9667

9667

9239

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2904

25 7884 E

144959 N

17760 m

ELEVATION RB: N/A

ELEVATION OF: N/A

ELEVATION OF: N/A

LOG MEASURED FROM: G.L.

DATE: 07/18/06

DEPTH DRILLER: 277

LOG TOP: 9.30

LOG BOTTOM: 278.00

CASING OD: 17.78

CASING BOTTOM: 3

CASING TYPE: STEEL

BOREHOLE FLUID: WATER

ROI TEMPERATURE: N/A

MUD RES: N/A

MUD WEIGHT: N/A

RECORDED BY: R HECK

REMARKS 1: SVA - RB TO 199 M, S.G. RB TO TD

REMARKS 2:

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

200 PLOT RATIO RH #29-04 07/18/06

LOG PARAMETERS

MATRIX DENSITY: 2.68

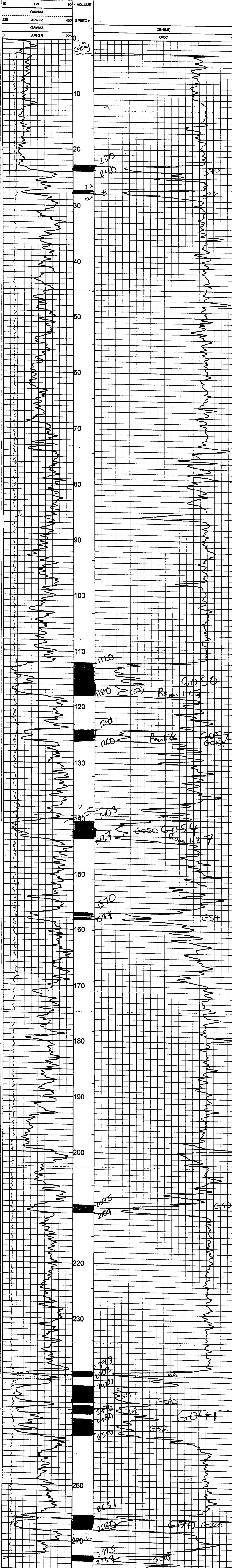
MAGNETIC DECL: 17.0

NEUTRON MATRIX: SANDSTONE

ELECT. CUTOFF: 99999

MATRIX DELTA T: 140

BIT SIZE: 12.700



COMPANY	ELK VALLEY COAL	OTHER SERVICES	9067
WELL	RH #29-04		9067
FIELD	N/A		9239
MUNICIPALITY	BRITISH COLUMBIA		
PROVINCE	CASTLE MTN		
LOCATION	N/A		
SECTION	N/A		
TOWNSHIP	N/A		
RANGE	N/A		
API NO.	N/A		
UNIQUE WELL ID.	N/A		

PERMIT/DISTRICT	N/A	ELEVATION NS	N/A
LOG MEASURED FROM	G.L.	ELEVATION DF	N/A
DRILL MEASURED FROM	G.L.	ELEVATION GL	N/A
DATE	07/18/06		
DEPTH DRILLER	277		
BIT SIZE	12.700		
LOG TOP	0.34		
LOG BOTTOM	275.02		
CASING OD	17.78		
CASING BOTTOM	3		

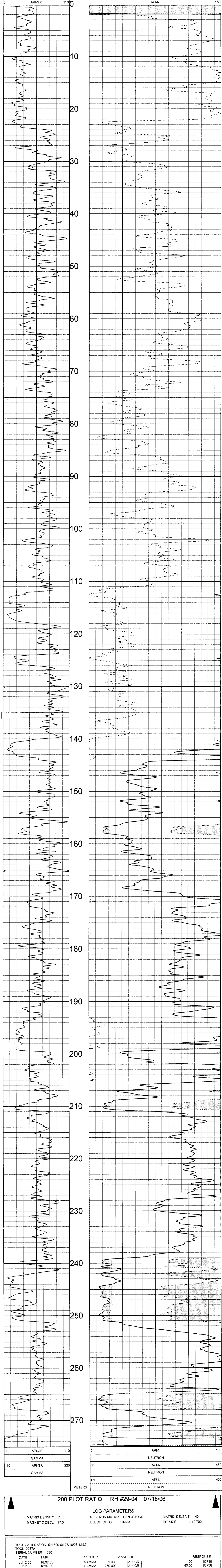
BORERHOLE TYPE	STEEL
BORERHOLE FLUID	WATER
RM TEMPERATURE	N/A
MUD RES	N/A
MUD WEIGHT	N/A
RECORDED BY	R HECK
REMARKS 1	514' HB TO 199' M, 5.0' RB TO TD
REMARKS 2	LOG THRU DRILL PIPE

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

200 PLOT RATIO RH #29-04 07/18/06

LOG PARAMETERS

MATRIX DENSITY : 2.68 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 140
MAGNETIC DECL : 17.0 ELECT CUTOFF : 99999 BIT SIZE : 12.700



200 PLOT RATIO RH #29-04 07/18/06

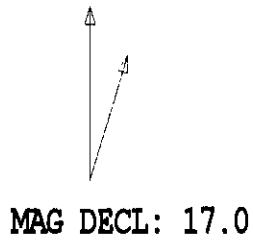
LOG PARAMETERS

MATRIX DENSITY : 2.68 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 140
MAGNETIC DECL : 17.0 ELECT CUTOFF : 99999 BIT SIZE : 12.700

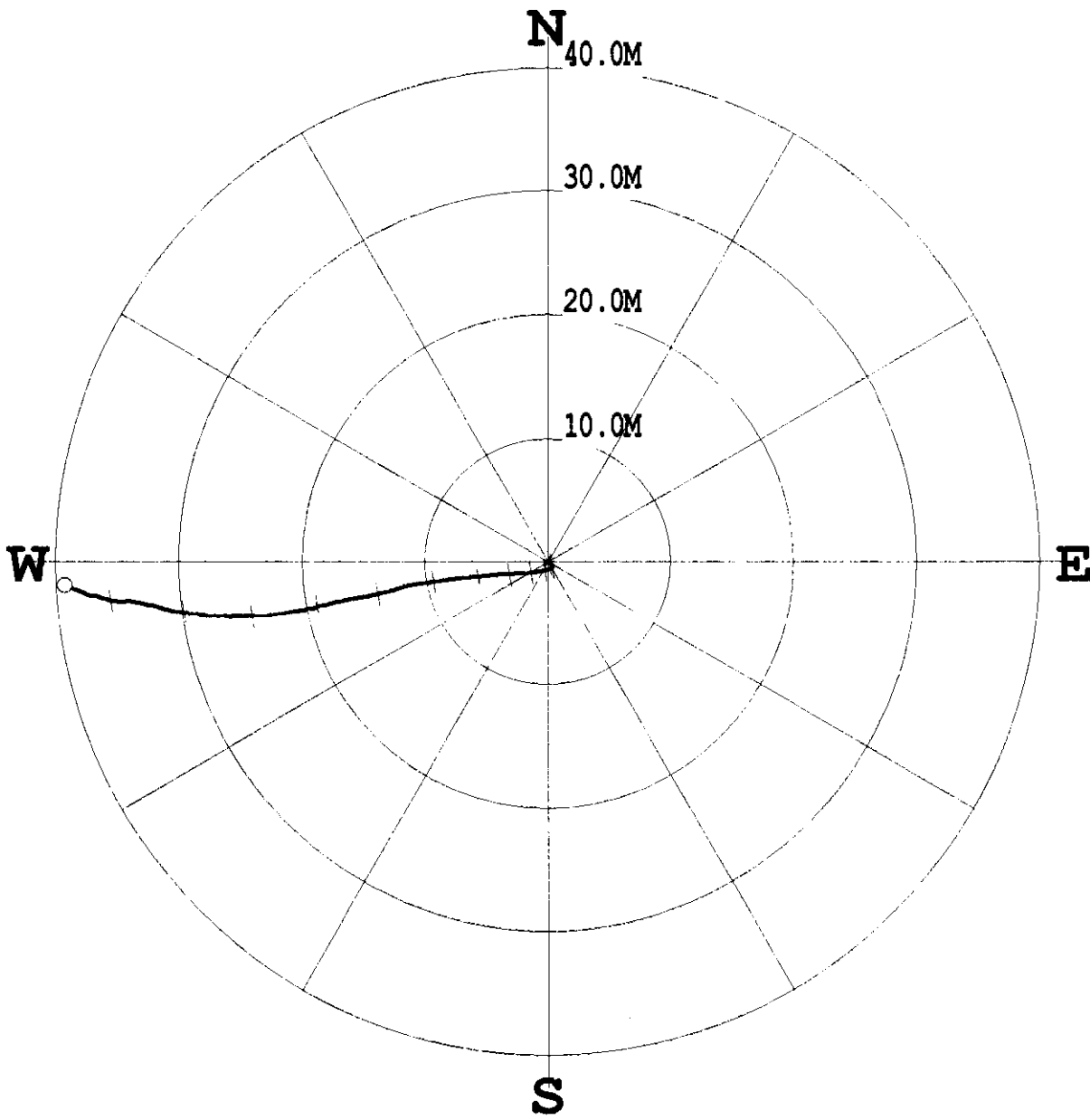
TOOL CALIBRATION RH #29-04 07/18/06 12:37			
TOOL 9067A			
SERIAL NUMBER 530			
DATE	TIME	SENSOR	STANDARD
1	Jul12 06 18:07:53	GAMMA	1 000 [API-GR]
	Jul12 06 18:07:53	GAMMA	250 000 [API-GR]
2	Jul08 06 14:23:13	NEUTRON	1 000 [API-N]
	Jul08 06 14:23:13	NEUTRON	500 000 [API-N]
			RESPONSE
			1.00 [CPS]
			80.00 [CPS]
			1.00 [CPS]
			500.00 [CPS]

PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION: N/A
 HOLE ID: RH #29-04
 DATE OF LOG: 07/18/06
 PROBE: 9057A 1067



SCALE: 5 M/CM
 TRUE DEPTH: 272.18 M
 AZIMUTH: 267.2
 DISTANCE: 39.3 M
 + = 20 M INCR
 ○ = BOTTOM OF HOLE



* * * * * COMPU-LOG - VERTICAL DEVIATION * * * * *

CLIENT : ELK VALLEY COAL HOLE ID. : RH #29-04
 FIELD OFFICE : DATE OF LOG : 07/18/06
 DATA FROM : N/A PROBE : 9057A , 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: \RH#29-04_07-18-06_16-00_9057A_02_3.00_277.23_DEVI.log

TABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
3.0	3.02	-0.00	-0.00	0.0	223.6	0.2	223.6
13.0	13.00	-0.04	0.06	0.1	119.3	0.5	128.6
23.0	23.00	-0.11	0.16	0.2	123.8	0.6	118.7
33.0	33.00	-0.18	0.25	0.3	126.0	0.7	134.3
43.0	43.00	-0.25	0.33	0.4	127.2	0.6	133.0
53.0	53.00	-0.37	0.37	0.5	135.0	0.9	188.3
63.0	63.00	-0.50	0.27	0.6	151.4	1.1	242.2
73.0	72.99	-0.61	0.03	0.6	176.8	2.1	247.8
83.0	82.98	-0.72	-0.39	0.8	208.7	3.0	254.9
93.0	92.97	-0.82	-0.94	1.2	228.8	3.7	266.5
103.0	102.94	-0.89	-1.63	1.9	241.4	4.4	266.5
113.0	112.91	-0.96	-2.44	2.6	248.6	4.3	262.3
123.0	122.85	-0.99	-3.48	3.6	254.2	6.7	266.8
133.0	132.78	-1.08	-4.70	4.8	257.1	7.5	255.5
143.0	142.68	-1.21	-6.08	6.2	258.8	8.7	266.8
153.0	152.53	-1.41	-7.76	7.9	259.7	11.2	267.0
163.0	162.31	-1.68	-9.80	9.9	260.3	12.8	264.1
173.0	172.05	-2.10	-12.02	12.2	260.1	13.0	258.4
183.0	181.77	-2.67	-14.23	14.5	259.4	13.9	262.7
193.0	191.47	-3.11	-16.62	16.9	259.4	14.2	247.4
203.0	201.14	-3.73	-19.04	19.4	258.9	15.1	266.5
213.0	210.80	-4.17	-21.56	22.0	259.0	15.5	266.6
223.0	220.44	-4.37	-24.18	24.6	259.8	15.6	271.7
233.0	230.07	-4.33	-26.86	27.2	260.8	16.0	278.5
243.0	239.69	-4.10	-29.50	29.8	262.1	16.2	270.9
253.0	249.26	-3.52	-32.27	32.5	263.8	17.0	266.6
263.0	258.81	-3.17	-35.16	35.3	264.9	17.5	279.2
273.0	268.32	-2.36	-38.04	38.1	266.4	18.6	286.7
277.1	272.18	-1.90	-39.24	39.3	267.2	18.3	291.1

Century-geo.com
RH #29-05

COMPANY : ELK VALLEY COAL
WELL : RH #29-05
FIELD : WA
MUNICIPALITY : ELKFORO
PROVINCE : BRITISH COLUMBIA
LOCATION : CASTLE MTN.
SECTION : WA
TOWNSHIP : WA
RANGE : WA
API NO. : WA
UNIQUE WELL ID. : WA
PERMANENT DATA : WA
LOG MEASURED FROM : G1
DRL. MEASURED FROM : G1
ELEVATION KE : WA
ELEVATION DE : WA
ELEVATION CL : WA

OTHER SERVICES
9067
9067
8239

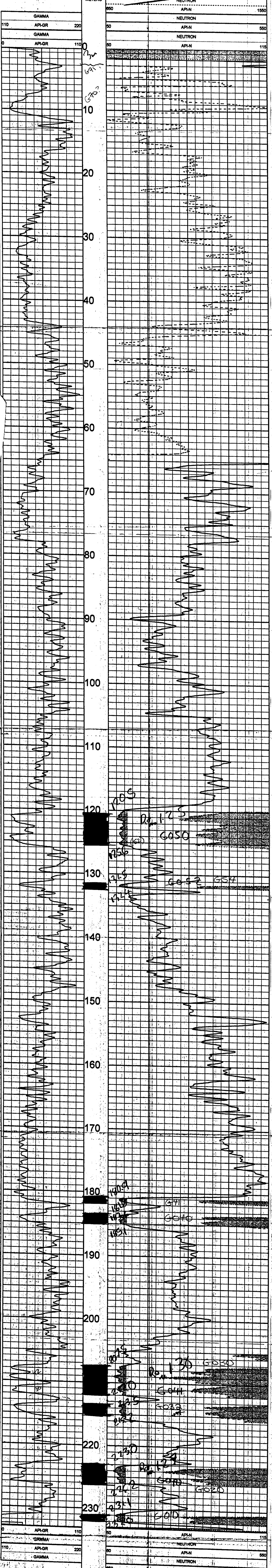
2905
26211E
1442119N
1835.0 m

DATE : 07/14/08
DEPTH DRILLER : ZT
BIT SIZE : 13.870
LOG TOP : 0.33
LOG BOTTOM : 233.03
CASING OD : 17.78
CASING BOTTOM : 3
CASING TYPE : STEEL
BOREHOLE FLUID : WATER
RAI TEMPERATURE : N/A
MUD RES : N/A
MUD WEIGHT : N/A
RECORDED BY : RACER
REMARKS 1 : LOG TRHD DRILL PIPE
REMARKS 2 : LOG TRHD DRILL PIPE
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

200 PLOT RAT

MATRIX DENSITY : 2.68
MAGNETIC DECL. : 17.0
LO
NEUT
ELECT

LTAT : 140
: 13.970



2906

26580.792
141189048
822043

CASTLE
ELEVATION RE: N/A
ELEVATION OF: N/A
ELEVATION G: N/A

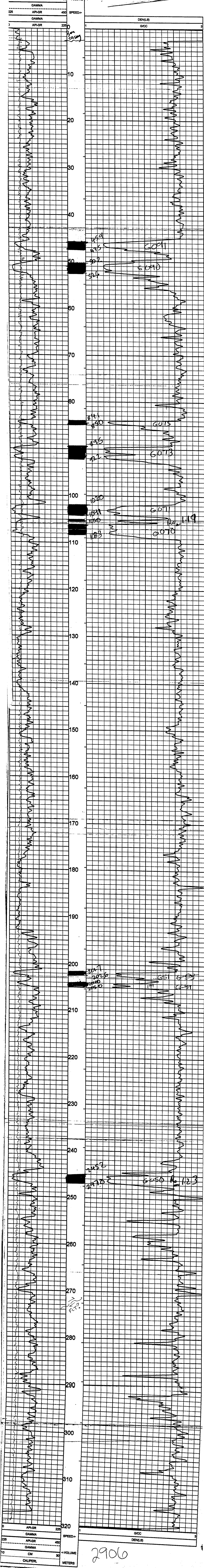
LOG TOP : 318.99
LOG BOTTOM : 17.78
CASING OD : 3
CASING BOTTOM : STEEL
CASING TYPE : WATER
BOREROLE FLUID : N/A
RH TEMPERATURE : N/A
HAZ RES : N/A
HAZ WEIGHT : N/A
RECORDED BY : R. JACK
REMARKS 1 : 51Z - BIT TO 188 M, 514 - ROCK BIT TO TD
REMARKS 2 : N/A

GAMMA LS DENSITY RH #29-06

LOG PAPER

MATRIX DENSITY : 2.68
MAGNETIC DECL : 17.0

140
13.335



API-GR	225
GAMMA	
API-GR	450
GAMMA	
CM	30
CALIPERL	

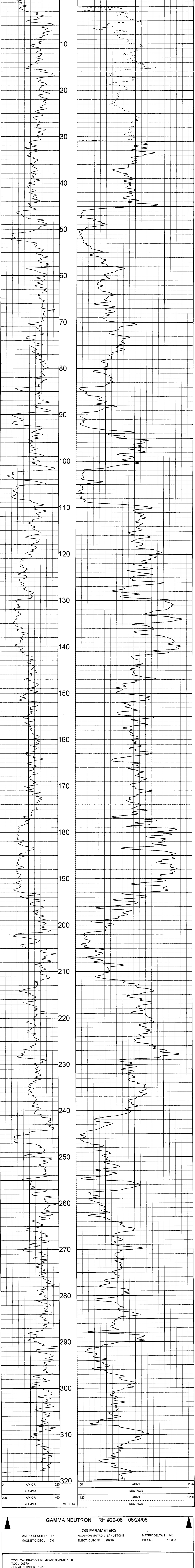
COMPANY	Century-geo.com	OTHER SERVICES	9061 9067 9239
WELL	EAT VALLEY COAL		
FIELD	RH #29-06		
MUNICIPALITY	N/A		
PROVINCE	ELK FORD		
LOCATION	CASTLE MTN		
SECTION	N/A		
TOWNSHIP	N/A		
RANGE	N/A		
API NO.	N/A		
UNIQUE WELL ID	N/A		
PERMANENT DATUM	N/A	ELEVATION KE	N/A
LOG MEASURED FROM	G.L.	ELEVATION OF	N/A
DEL. MEASURED FROM	G.L.	ELEVATION TO	N/A
DATE	06/24/06		
DEPTH DRILLER	320		
BIT SIZE	13.335		
LOG TOP	0.33		
LOG BOTTOM	320.01		
CASING OD	17.78		
CASING BOTTOM	3		
CASING TYPE	STEEL		
BOREHOLE FLUID	WATER		
RAI TEMPERATURE	N/A		
MUD RES	N/A		
MUD WEIGHT	N/A		
RECORDED BY	R.HECK		
REMARKS 1	51/2" BIT TO 169 M, 5 1/4" NOCK BIT TO TD		
REMARKS 2	N/A		

GAMMA NEUTRON RH #29-06 06/24/06

MATRIX DENSITY : 2.68
MAGNETIC DECL : 17.0

LOG PARAMETERS
NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 99999

MATRIX DELTA T : 140
BIT SIZE : 13.335



GAMMA NEUTRON RH #29-06 06/24/06

MATRIX DENSITY : 2.68
MAGNETIC DECL : 17.0

LOG PARAMETERS
NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 99999

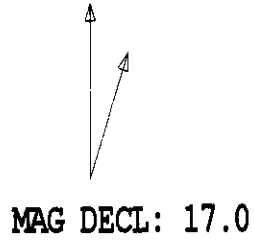
MATRIX DELTA T : 140
BIT SIZE : 13.335

TOOL CALIBRATION RH #29-06 06/24/06 16:00

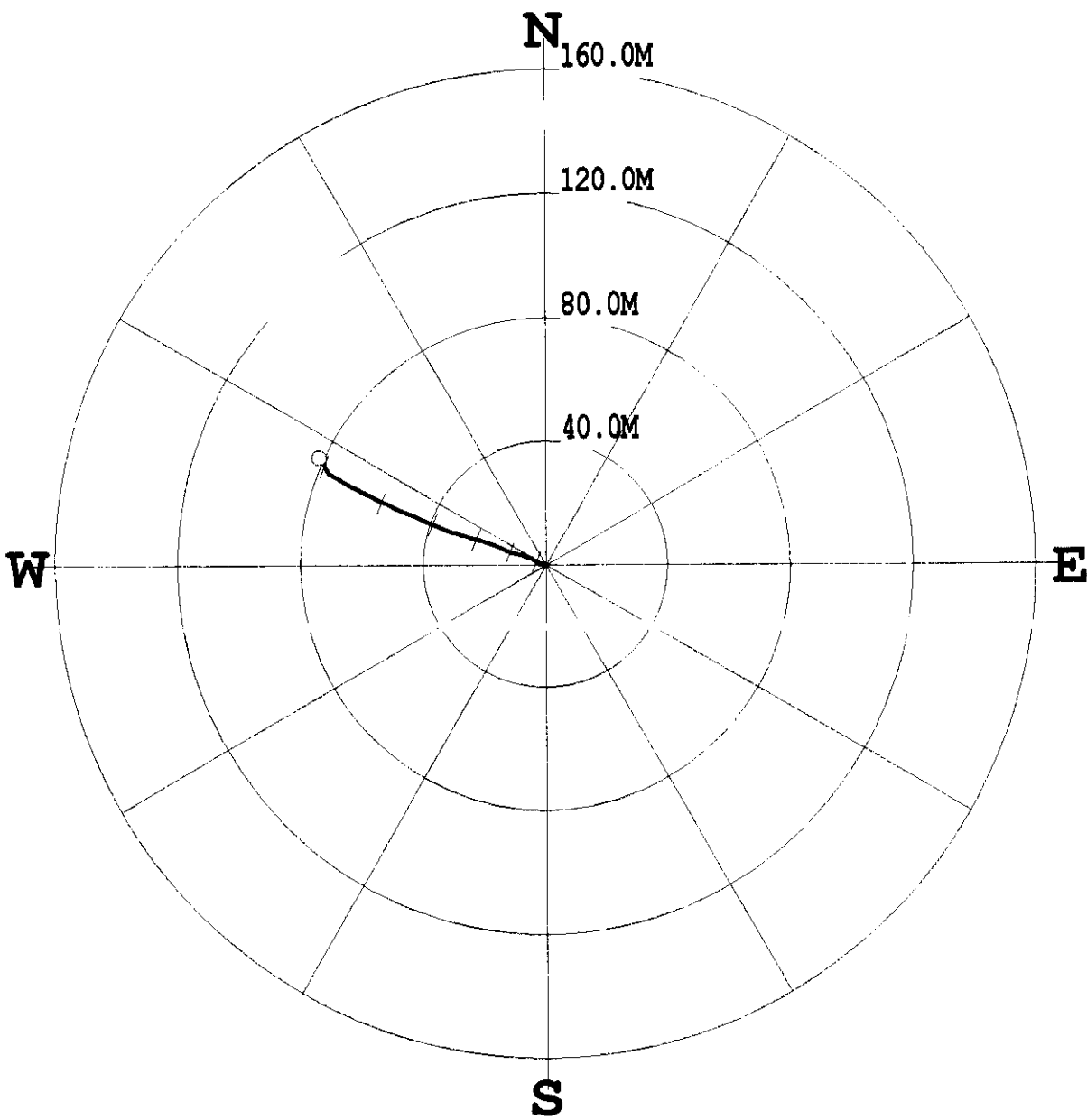
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	May22.06 15:03:18	GAMMA	0.000 [API-GR]	1.00 [CPS]
	May22.06 15:03:18	GAMMA	325.000 [API-GR]	325.00 [CPS]
2	Oct24.05 21:50:54	NEUTRON	Default [CPS]	Default [CPS]
	Oct24.05 21:50:54	NEUTRON	152.000 [API-N]	167.00 [CPS]
3	Dec01.05 21:21:19	SP	Default [CPS]	Default [CPS]
	Dec01.05 21:21:19	SP	Default [CPS]	Default [CPS]
4	Dec01.05 21:54:52	RES(16N)	Default [CPS]	Default [CPS]
	Dec01.05 21:54:52	RES(16N)	Default [CPS]	Default [CPS]
5	Dec01.05 21:55:00	RES(64N)	Default [CPS]	Default [CPS]
	Dec01.05 21:55:00	RES(64N)	Default [CPS]	Default [CPS]
6	Dec01.05 21:55:07	TEMP	Default [CPS]	Default [CPS]
	Dec01.05 21:55:07	TEMP	Default [CPS]	Default [CPS]
7	Dec01.05 21:55:17	RES	Default [CPS]	Default [CPS]
	Dec01.05 21:55:17	RES	Default [CPS]	Default [CPS]
8	Apr12.02 00:42:07	POR(NEU)	100.000 [PERCENT]	178.00 [CPS]

PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION: N/A
 HOLE ID: RH #29-06
 DATE OF LOG: 06/24/06
 PROBE: 9057A 1067



SCALE: 20 M/CM
 TRUE DEPTH: 306.15 M
 AZIMUTH: 295.1
 DISTANCE: 81.5 M
 + = 50 M INCR
 ○ = BOTTOM OF HOLE



* * * * * COMPU-LOG - VERTICAL DEVIATION * * * * *

CLIENT : ELK VALLEY COAL HOLE ID. : RH #29-06
 FIELD OFFICE : DATE OF LOG : 06/24/06
 DATA FROM : N/A PROBE : 9057A , 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: \RH#29-06_06-24-06_16-00_9057A_.02_3.00_320.01_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
3.0	3.02	-0.00	-0.00	0.0	228.8	1.3	228.8
13.0	13.00	0.03	-0.26	0.3	276.7	1.9	279.1
23.0	22.98	0.05	-0.73	0.7	273.7	4.1	287.1
33.0	32.95	0.40	-1.45	1.5	285.4	5.3	264.4
43.0	42.89	0.84	-2.39	2.5	289.4	6.3	280.7
53.0	52.82	1.34	-3.42	3.7	291.4	7.4	317.9
63.0	62.71	2.19	-4.63	5.1	295.3	9.9	294.8
73.0	72.55	2.85	-6.29	6.9	294.3	10.7	285.5
83.0	82.36	3.40	-8.10	8.8	292.8	11.3	286.8
93.0	92.16	3.93	-9.99	10.7	291.5	11.9	285.4
103.0	101.93	4.52	-11.97	12.8	290.7	13.0	310.6
113.0	111.67	5.37	-13.95	14.9	291.1	13.4	307.4
123.0	121.40	6.21	-15.92	17.1	291.3	13.5	287.4
133.0	131.11	7.04	-18.13	19.5	291.2	15.5	295.7
143.0	140.80	7.76	-20.42	21.8	290.8	14.9	300.4
153.0	150.47	8.57	-22.79	24.3	290.6	15.5	305.8
163.0	160.09	9.31	-25.36	27.0	290.1	16.2	282.0
173.0	169.68	10.11	-28.05	29.8	289.8	16.2	288.2
183.0	179.25	10.85	-30.82	32.7	289.4	17.5	292.4
193.0	188.79	11.94	-33.49	35.6	289.6	17.8	276.2
203.0	198.28	13.17	-36.34	38.7	289.9	18.5	290.2
213.0	207.75	14.38	-39.29	41.8	290.1	19.4	294.5
223.0	217.19	15.76	-42.24	45.1	290.5	20.2	298.5
233.0	226.60	17.00	-45.37	48.5	290.5	20.1	293.0
243.0	235.98	18.32	-48.52	51.9	290.7	21.1	299.6
253.0	245.29	19.87	-51.79	55.5	291.0	22.5	304.4
263.0	254.53	21.47	-55.18	59.2	291.3	23.2	302.8
273.0	263.73	23.23	-58.67	63.1	291.6	23.6	296.6
283.0	272.87	25.03	-62.23	67.1	291.9	24.7	287.5
293.0	281.98	26.92	-65.84	71.1	292.2	25.2	306.3
303.0	291.03	29.11	-69.44	75.3	292.7	24.7	304.6
313.0	300.01	32.26	-72.13	79.0	294.1	26.2	309.1
319.8	306.15	34.60	-73.76	81.5	295.1	26.1	334.3

2907

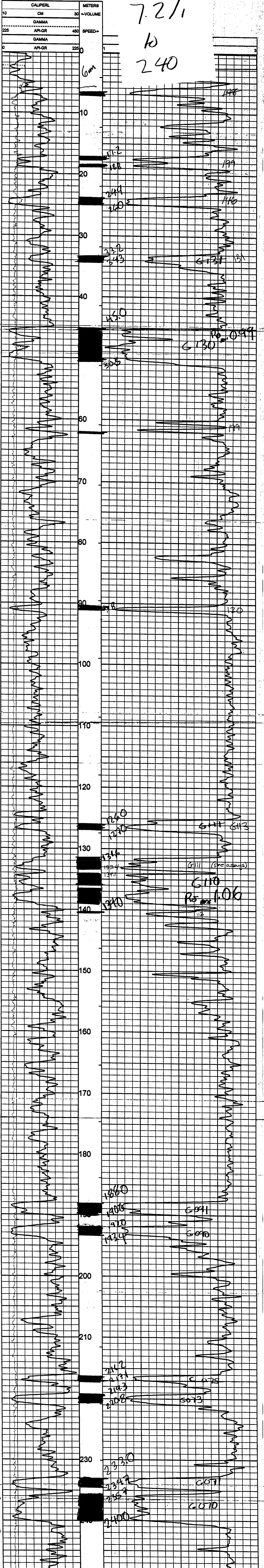
26 9149E
144,229.3 N
2005.2

OTHER SERVICES:
9031
9037
9239

COMPANY : ELK VALLEY COAL
WELL : RH #29-07
FIELD : N/A
MUNICIPALITY : ELK FORD
PROVINCE : BRITISH COLUMBIA
LOCATION : CASTLE MTN
SECTION : N/A
TOWNSHIP : N/A
RANGE : N/A
APR NO. : N/A
UNIQUE WELL ID. : N/A
PERMANENT IDENT. : N/A
LOG MEASURED FROM : G.L.
DATE : 07/07/06
DEPTH PROLLER : 251
BIT SIZE : 13.336
LOG TOP : 0.25
LOG BOTTOM : 251.20
CASING OD : 17.78
CASING BOTTOM : 6
CASING TYPE : STEEL
CIRCUITRY TYPE : WATER
M TEMPERATURE : N/A
LOG WEIGHT : N/A
LOG WEIGHT : N/A
RECHECK : RAECK
MARKS 1 : 5/14 * RH TO TD
MARKS 2

PLOT RATIO = 200 RH #29-07 07/07/06

MATRIX DENSITY : 2.66
MAGNETIC DECL. : 17.0
LOG PARAMETERS
NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 99999
MATRIX DELTA T : 140
BIT SIZE : 13.336



ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

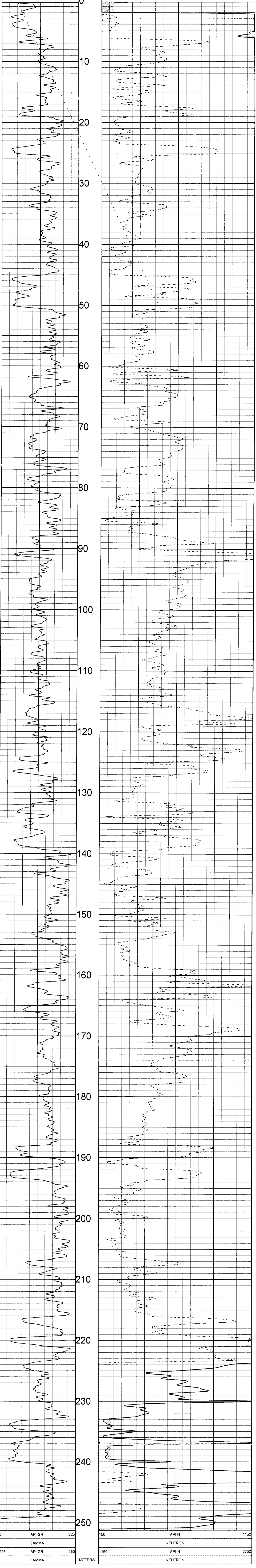
COMPANY	ELK VALLEY COAL	OTHER SERVICES	
WELL	RH #29-07	9051	
FIELD	N/A	9057	
MUNICIPALITY	ELKFORD	9299	
PROVINCE	BRITISH COLUMBIA		
LOCATION	CASTLE MTN		
SECTION	N/A		
TOWNSHIP	N/A		
RANGE	N/A		
API NO.	N/A		
UNIQUE WELL ID	N/A		
PERMANENT ID	N/A	ELEVATION KB	N/A
LOG MEASURED FROM	G.L.	ELEVATION OF	N/A
		ELEVATION GL	N/A
DATE	07/07/06		
DEPTH DRIILLER	251		
BIT SIZE	13.335		
LOG TOP	0.30		
LOG BOTTOM	251.20		
CASING OD	17.78		
CASING BOTTOM	6		
CASING TYPE	STEEL		
BOREHOLE FLUID	WATER		
RM TEMPERATURE	N/A		
MUD RES	N/A		
MUD WEIGHT			
RECORDED BY	RHECK		
REMARKS 1	514 - HB TO TD		
REMARKS 2			

PLOT RATIO = 200 RH #29-07 07/07/06

MATRIX DENSITY : 2.68
MAGNETIC DECL : 17.0

LOG PARAMETERS
NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 99999

MATRIX DELTA T : 140
BIT SIZE : 13.335



PLOT RATIO = 200 RH #29-07 07/07/06

MATRIX DENSITY : 2.68
MAGNETIC DECL : 17.0

LOG PARAMETERS
NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 99999

MATRIX DELTA T : 140
BIT SIZE : 13.335

DATE	TIME	SENSOR	STANDARD	RESPONSE
1	May22.06	GAMMA	0.000 [API-GR]	1.00 [CPS]
2	May22.06	GAMMA	325.000 [API-GR]	325.00 [CPS]
3	Oct24.05	NEUTRON	Default [CPS]	Default [CPS]
4	Oct24.05	NEUTRON	152.000 [API-N]	167.00 [CPS]
5	Dec01.05	SP	Default [CPS]	Default [CPS]
6	Dec01.05	SP	Default [CPS]	Default [CPS]
7	Dec01.05	RES(16N)	Default [CPS]	Default [CPS]
8	Dec01.05	RES(16N)	Default [CPS]	Default [CPS]
9	Dec01.05	RES(64N)	Default [CPS]	Default [CPS]
10	Dec01.05	RES(64N)	Default [CPS]	Default [CPS]
11	Dec01.05	TEMP	Default [CPS]	Default [CPS]
12	Dec01.05	RES	Default [CPS]	Default [CPS]
13	Dec01.05	RES	Default [CPS]	Default [CPS]
14	Apr12.02	POR(NEU)	100.000 [PERCENT]	178.00 [CPS]

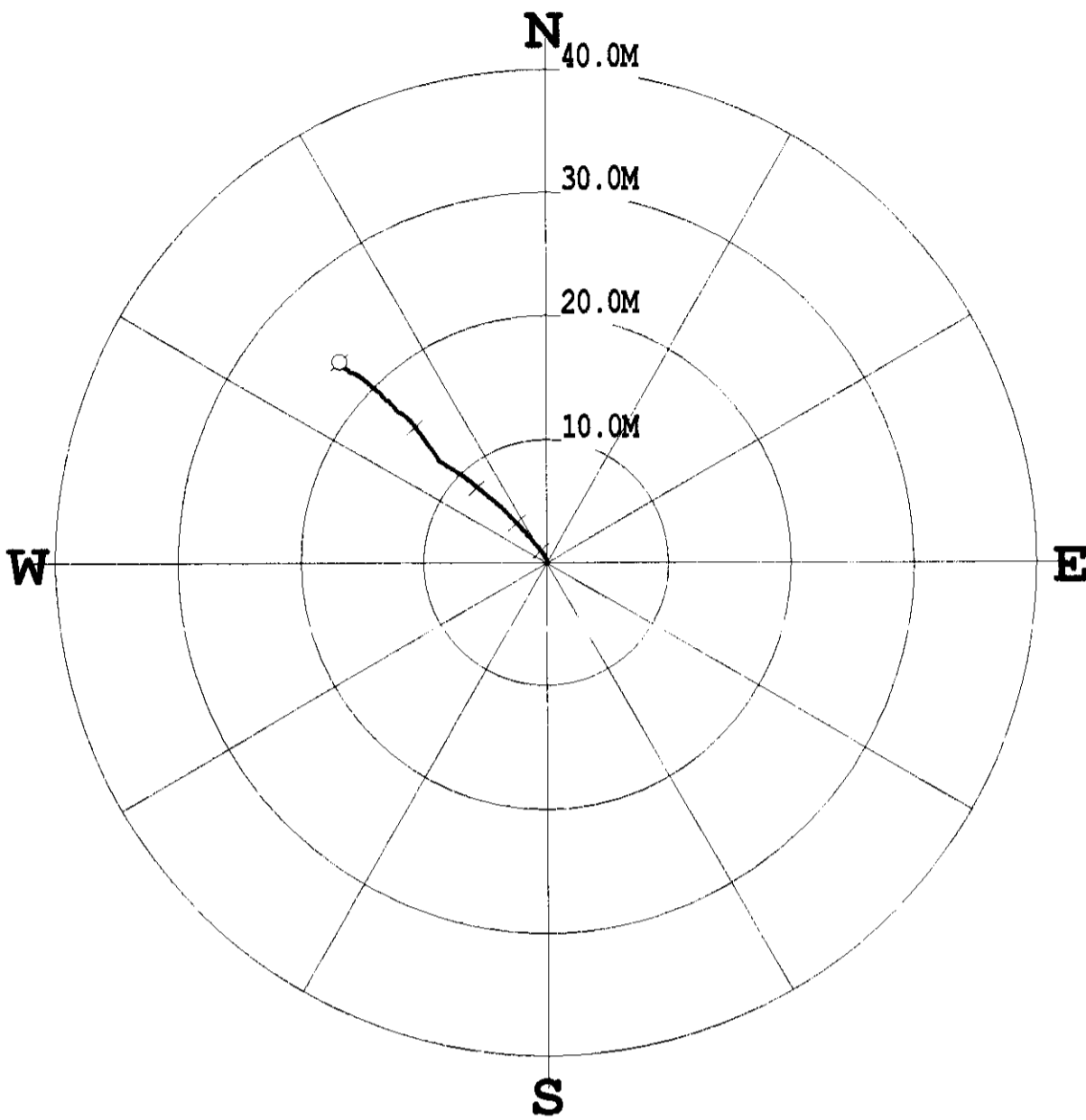
PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION: N/A
 HOLE ID: RH #29-07
 DATE OF LOG: 07/07/06
 PROBE: 9057A 1067



MAG DECL: 17.0

SCALE: 5 M/CM
 TRUE DEPTH: 249.49 M
 AZIMUTH: 314.2
 DISTANCE: 23.4 M
 + = 50 M INCR
 ○ = BOTTOM OF HOLE



***** COMPU-LOG - VERTICAL DEVIATION *****

CLIENT : ELK VALLEY COAL HOLE ID. : RH #29-07
 FIELD OFFICE : DATE OF LOG : 07/07/06
 DATA FROM : N/A PROBE : 9057A , 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: \RH#29-07_07-07-06_11-35_9057A_.02_6.00_251.20_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
6.0	6.02	-0.00	0.00	0.0	166.2	0.8	166.2
16.0	16.00	0.16	0.02	0.2	6.1	1.2	10.6
26.0	26.00	0.37	-0.03	0.4	355.9	1.2	339.8
36.0	35.99	0.58	-0.15	0.6	345.7	2.0	333.3
46.0	45.99	0.88	-0.36	1.0	338.1	2.4	328.8
56.0	55.98	1.21	-0.63	1.4	332.6	2.6	318.4
66.0	65.96	1.59	-0.96	1.9	328.9	3.3	319.3
76.0	75.95	2.03	-1.34	2.4	326.5	3.7	320.5
86.0	85.93	2.51	-1.76	3.1	324.9	4.0	316.7
96.0	95.90	3.01	-2.23	3.7	323.4	4.0	318.0
106.0	105.88	3.51	-2.71	4.4	322.4	4.3	322.2
116.0	115.85	4.04	-3.22	5.2	321.5	4.4	307.0
126.0	125.81	4.62	-3.83	6.0	320.4	5.0	307.5
136.0	135.77	5.20	-4.53	6.9	319.0	5.3	311.8
146.0	145.73	5.79	-5.28	7.8	317.7	6.1	319.0
156.0	155.66	6.53	-6.14	9.0	316.8	7.1	310.4
166.0	165.58	7.28	-7.17	10.2	315.4	6.7	298.1
176.0	175.48	8.04	-8.30	11.6	314.1	8.5	308.3
186.0	185.37	9.16	-9.28	13.0	314.6	8.8	325.4
196.0	195.24	10.43	-10.20	14.6	315.7	9.3	328.3
206.0	205.11	11.68	-11.20	16.2	316.2	9.5	317.3
216.0	214.97	12.73	-12.38	17.8	315.8	10.2	315.2
226.0	224.82	13.89	-13.57	19.4	315.7	9.9	313.2
236.0	234.67	14.94	-14.86	21.1	315.1	9.3	284.1
246.0	244.54	15.74	-16.20	22.6	314.2	9.5	294.4
251.0	249.49	16.30	-16.79	23.4	314.2	9.5	323.7



GAMMA LS DENSITY

Century-geo.com
RH #29-08

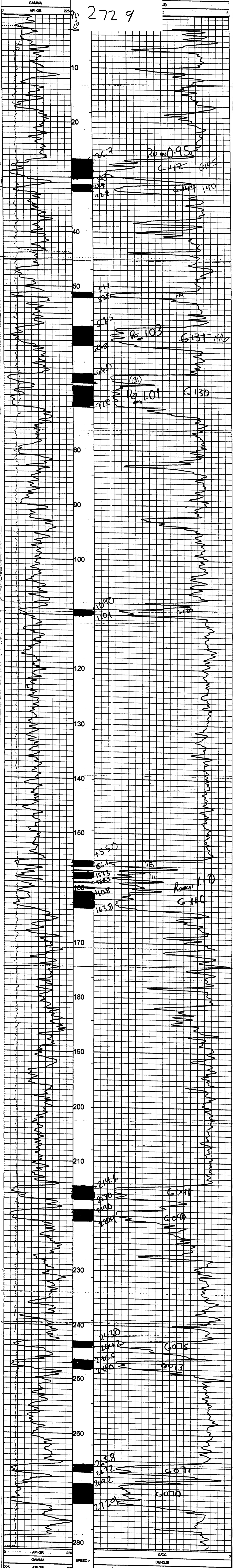
COMPANY	ELK VALLEY COAL	OTHER SERVICES	9691
WELL	RH #29-08		9697
MUNICIPALITY	ELK FORD		9228
PROVINCE	BRITISH COLUMBIA		

LOCATION	CASTLE MTN	27100.4 E
SECTION		144.207 9 N
TOWNSHIP		1995.9 W
RANGE		
APR NO.		
UNIQUE WELL ID.		
PERMITS/DATA		
LOG MEASURED FROM	GL	
DR. MEASURED FROM	GL	
ELEVATION: WA		
ELEVATION: VA		
ELEVATION: G		

DATE	07/06/08
DEPTH DRILLER	281
BIT SIZE	13.870
LOG TOP	0.29
LOG BOTTOM	261.25
CASING OD	17.78
CASING BOTTOM	9
CASING TYPE	STEEL
BORINGHOLE FLUID	WATER
RTM TEMPERATURE	NA
WAD RES	NA
WAD WEIGHT	NA
RECORDED BY	PKR
MARKS 1	512-748-1070
MARKS 2	

PLOT RATIO 200 RH #29-08 07/06/08
 MATRIX DENSITY : 2.68
 MAGNETIC DECL : 17.0
 LOG PARAMETERS
 NEUTRON MATRIX : SANDSTONE
 ELECT. CUTOFF : 00000
 MATRIX DELTA T : 140
 BIT SIZE : 13.970

711
to
272.9



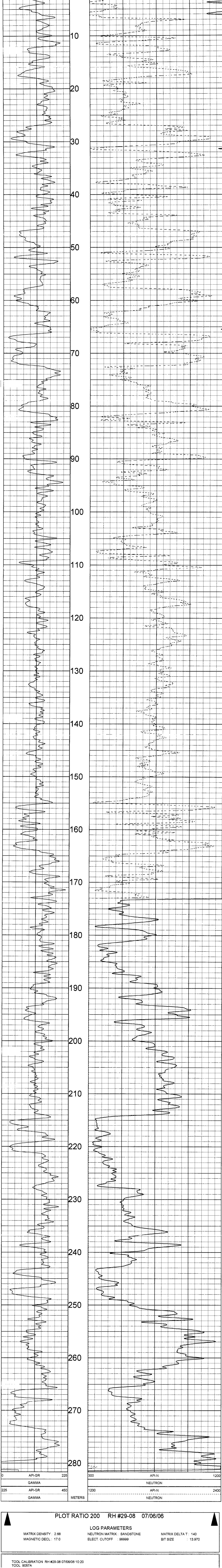
CALIPERL	CM	30
GAMMA	API-GR	450
GAMMA	API-GR	225
SPEED	VOLUME	

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

Century-geo.com		OTHER SERVICES
COMPANY	ELK VALLEY COAL	9061
WELL	RH #29-08	9067
FIELD	N/A	9239
MUNICIPALITY	ELKTON	
PROVINCE	BRITISH COLUMBIA	
LOCATION	CASTLE MTN	
SECTION	N/A	
TOWNSHIP	N/A	
RANGE	N/A	
API NO	N/A	
UNIQUE WELL ID	N/A	
PERMANENT DATA	N/A	ELEVATION AB N/A
LOG MEASURED FROM	CL	ELEVATION OF N/A
DWL MEASURED FROM	GL	ELEVATION OF N/A
DATE	07/06/06	
DEPTH DRILLER	281	
BIT SIZE	13.970	
LOG TOP	0.29	
LOG BOTTOM	281.55	
CASING OD	17.78	
CASING BOTTOM	6	
CASING TYPE	STEEL	
BOREHOLE FLUID	WATER	
RAM TEMPERATURE	N/A	
MUD WEIGHT	N/A	
RECORDED BY	R HECK	
REMARKS 1	5/2 1/8 TO TD	
REMARKS 2		

PLOT RATIO 200 RH #29-08 07/06/06

LOG PARAMETERS
 MATRIX DENSITY : 2.68 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 140
 MAGNETIC DECL : 17.0 ELECT. CUTOFF : 99999 BIT SIZE : 13.970



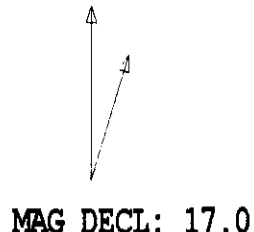
PLOT RATIO 200 RH #29-08 07/06/06

LOG PARAMETERS
 MATRIX DENSITY : 2.68 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 140
 MAGNETIC DECL : 17.0 ELECT. CUTOFF : 99999 BIT SIZE : 13.970

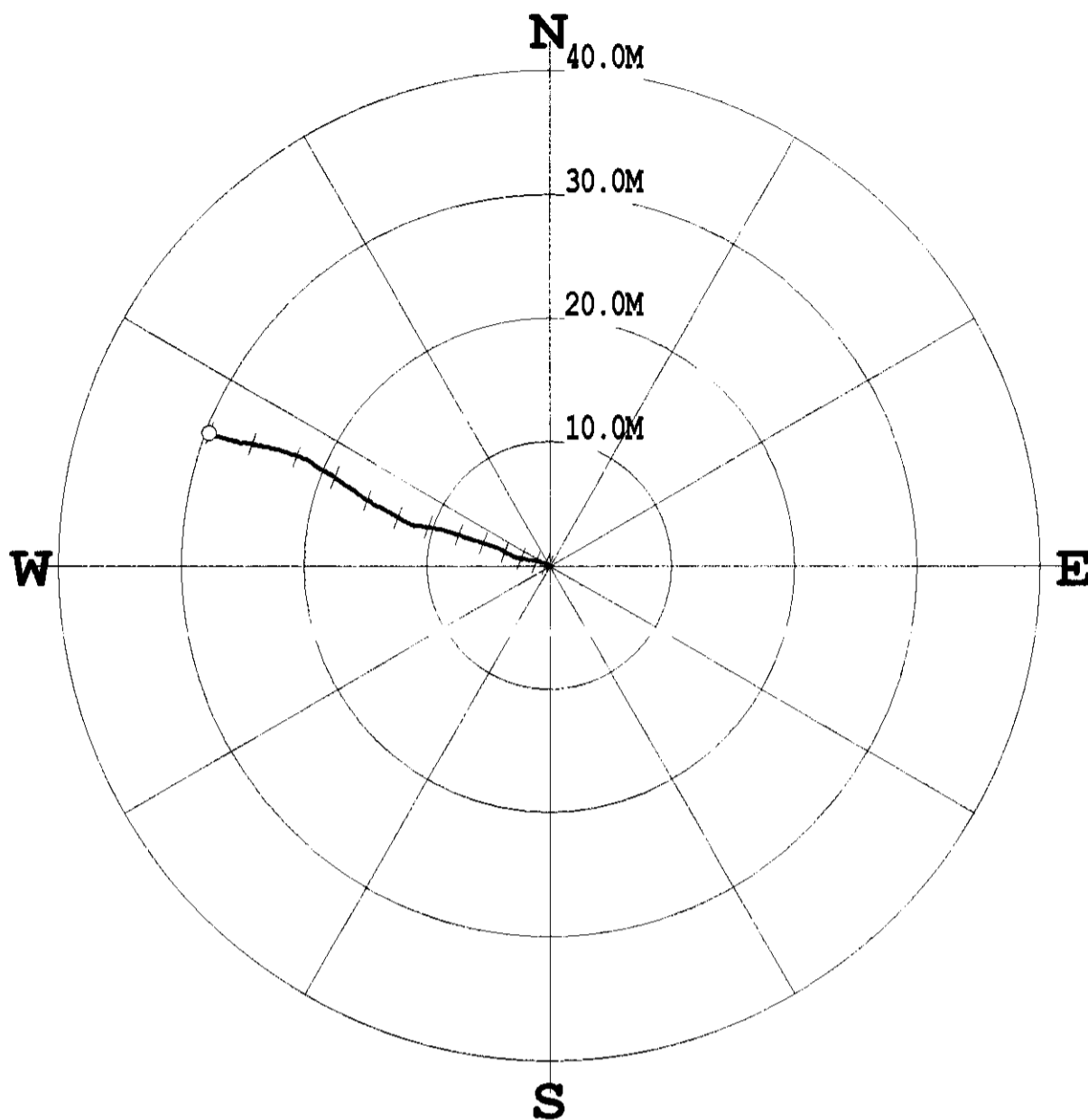
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	May22.06	GAMMA	0.000 [API-GR]	1.00 [CPS]
	May22.06	GAMMA	325.000 [API-GR]	325.00 [CPS]
2	Oct24.05	NEUTRON	Default [CPS]	Default [CPS]
	Oct24.05	NEUTRON	152.000 [API-N]	167.00 [CPS]
3	Dec01.05	SP	Default [CPS]	Default [CPS]
	Dec01.05	SP	Default [CPS]	Default [CPS]
4	Dec01.05	RES(16N)	Default [CPS]	Default [CPS]
	Dec01.05	RES(16N)	Default [CPS]	Default [CPS]
5	Dec01.05	RES(64N)	Default [CPS]	Default [CPS]
	Dec01.05	RES(64N)	Default [CPS]	Default [CPS]
6	Dec01.05	TEMP	Default [CPS]	Default [CPS]
	Dec01.05	TEMP	Default [CPS]	Default [CPS]
7	Dec01.05	RES	Default [CPS]	Default [CPS]
	Dec01.05	RES	Default [CPS]	Default [CPS]
8	Apr12.02	POR(NEU)	100.000 [PERCENT]	178.00 [CPS]

PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION: N/A
 HOLE ID: RH #29-08
 DATE OF LOG: 07/06/06
 PROBE: 9057A 1067



SCALE: 5 M/CM
 TRUE DEPTH: 279.14 M
 AZIMUTH: 291.0
 DISTANCE: 29.7 M
 + = 20 M INCR
 ○ = BOTTOM OF HOLE



* * * * * COMPU-LOG - VERTICAL DEVIATION * * * * *

CLIENT : ELK VALLEY COAL HOLE ID. : RH #29-08
 FIELD OFFICE : DATE OF LOG : 07/06/06
 DATA FROM : N/A PROBE : 9057A , 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: \RH#29-08_07-06-06_10-20_9057A_.02_6.00_281.55_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
6.0	6.02	0.00	-0.00	0.0	320.4	0.4	320.4
16.0	16.00	0.04	-0.05	0.1	311.2	0.4	301.0
26.0	26.00	0.10	-0.12	0.2	310.4	0.7	313.3
36.0	36.00	0.20	-0.24	0.3	309.5	1.2	306.9
46.0	45.99	0.31	-0.50	0.6	302.3	2.1	284.2
56.0	55.99	0.39	-0.89	1.0	293.8	3.2	285.7
66.0	65.97	0.50	-1.45	1.5	289.0	3.6	267.1
76.0	75.95	0.59	-2.07	2.2	285.8	3.1	274.0
86.0	85.92	0.70	-2.73	2.8	284.5	4.2	307.8
96.0	95.89	1.04	-3.38	3.5	287.1	4.4	271.0
106.0	105.86	1.45	-4.14	4.4	289.3	5.0	286.0
116.0	115.81	1.79	-5.03	5.3	289.5	5.6	299.3
126.0	125.76	2.08	-5.95	6.3	289.2	5.5	271.9
136.0	135.71	2.40	-6.93	7.3	289.1	6.9	293.0
146.0	145.64	2.77	-8.06	8.5	289.0	7.7	295.9
156.0	155.55	3.08	-9.33	9.8	288.3	6.4	278.7
166.0	165.46	3.31	-10.60	11.1	287.3	7.3	270.2
176.0	175.37	3.65	-11.82	12.4	287.2	7.9	297.9
186.0	185.28	4.36	-12.99	13.7	288.5	8.2	296.9
196.0	195.17	4.98	-14.24	15.1	289.3	8.3	283.9
206.0	205.05	5.75	-15.51	16.5	290.3	8.9	271.4
216.0	214.92	6.66	-16.81	18.1	291.6	9.5	307.2
226.0	224.78	7.54	-18.18	19.7	292.5	10.1	313.6
236.0	234.61	8.51	-19.67	21.4	293.4	11.3	312.4
246.0	244.42	9.12	-21.42	23.3	293.1	11.1	286.4
256.0	254.23	9.57	-23.21	25.1	292.4	10.9	275.2
266.0	264.05	9.90	-24.96	26.9	291.6	11.2	259.1
276.0	273.86	10.32	-26.77	28.7	291.1	10.9	282.9
281.4	279.14	10.64	-27.69	29.7	291.0	10.9	274.2

GAMMA LS DENSITY

RH #29-09

2909

25C992E
1443955 N
17940 m

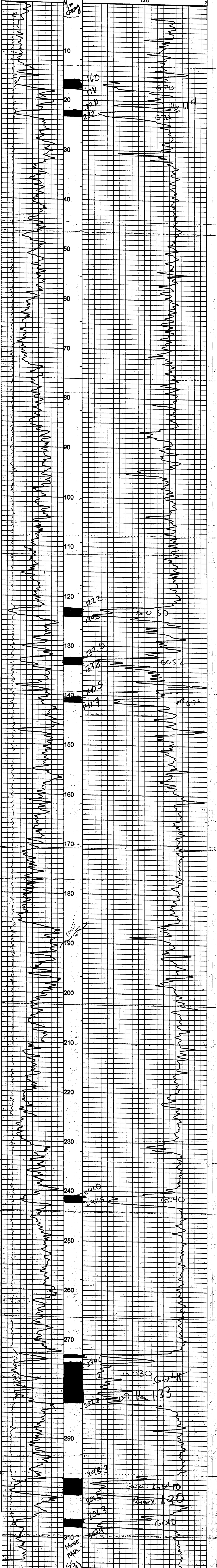
Century-geo.com
 COMPANY : ELWALLEY COAL
 WELL : RH29-09
 FIELD : NA
 MINICIPALITY : ELWALD
 PROVINCE : BRITISH COLUMBIA
 LOCATION : CASTLE MTN
 SECTION : NA
 TOWNSHIP : NA
 RANGE : NA
 API NO. : NA
 UNIQUE WELL ID : NA
 PERMAMENT DATUM : NA
 ELEVATION IN : NA
 LOG MEASURED FROM : G.L.
 ELEVATION G.L. : NA
 DATE : 01/20/06
 DEPTH DRILLER : 317
 BIT SIZE : 13.335
 LOG TOP : 0.32
 LOG BOTTOM : 317.35
 CASING OD : 17.75
 CASING BOTTOM : 3
 CASING TYPE : STEEL
 BOREHOLE FLUID : WATER
 MUD TEMPERATURE : NA
 MUD RES : NA
 MUD WEIGHT : NA
 RECORDED BY : R. Wick
 REMARKS 1 : 51Z - HB TO 288M 514F - HB TO TD
 REMARKS 2 :
 ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

200 F

20/06

MATRIX DENSITY : 2.66
MAGNETIC DECL : 17.0

MATRIX DELTA : 140
BIT SIZE : 13.335



COMPANY : ELK VALLEY COAL
WELL : RH #29-09
FIELD : N/A
LOCALITY : ELK FORD
MUNICIPALITY : BRITISH COLUMBIA
PROVINCE : CASTLE MTN

OTHER SERVICES : 3067
3067
8239

SECTION : N/A
TOWNSHIP : N/A
RANGE : N/A
API NO : N/A
UNIQUE WELL ID : N/A
PERMANENT DATUM : N/A
LOG MEASURED FROM : G.L.
DRL MEASURED FROM : G.L.
ELEVATION : N/A
ELEVATION OF : N/A

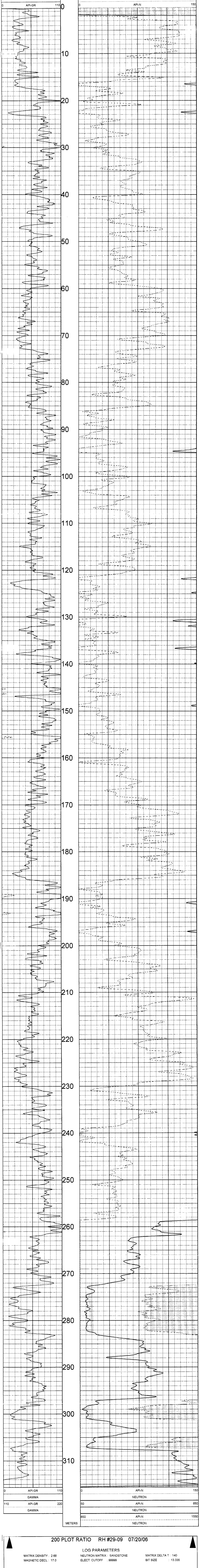
LOG TOP : 0.32
LOG BOTTOM : 319.61
CASING OD : 17.78
CASING ID : 3
BORING TYPE : WATER
BORING FLUID : N/A
RM TEMPERATURE : N/A
MUD RES : N/A
MUD WEIGHT : N/A

RECORDED BY : RHECK
REMARKS 1 : 512 - HB TO 289M 51/4" HB TO TD
REMARKS 2 : LOG THRU DRILL PIPE
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS.

200 PLOT RATIO RH #29-09 07/20/06

LOG PARAMETERS

MATRIX DENSITY : 2.68 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 140
MAGNETIC DECL : 17.0 ELECT. CUTOFF : 99999 BIT SIZE : 13.335



200 PLOT RATIO RH #29-09 07/20/06

LOG PARAMETERS

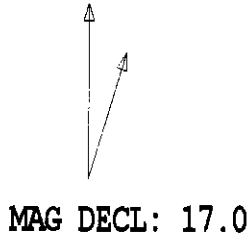
MATRIX DENSITY : 2.68 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 140
MAGNETIC DECL : 17.0 ELECT. CUTOFF : 99999 BIT SIZE : 13.335

TOOL CALIBRATION RH #29-09 07/20/06 06 07			
TOOL 9087A			
SERIAL NUMBER 530			
DATE	TIME	SENSOR	STANDARD
1	Jul12,06 18:07:53	GAMMA	1 000 [API-GR]
	Jul12,06 18:07:53	GAMMA	250 000 [API-GR]
2	Jul08,06 14:23:13	NEUTRON	1 000 [API-N]
	Jul08,06 14:23:13	NEUTRON	500 000 [API-N]

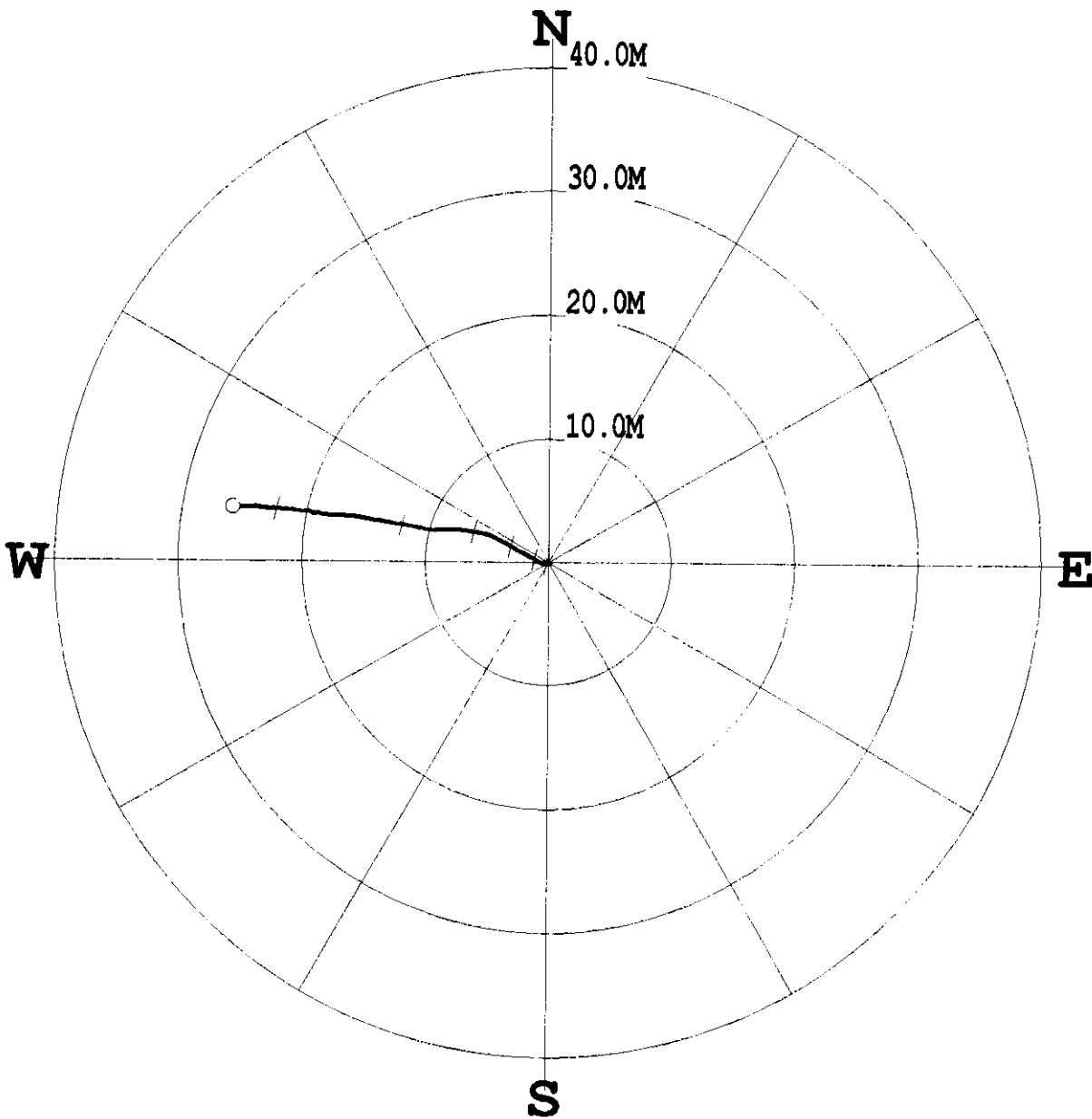
RESPONSE	
1.00	[CPS]
80.00	[CPS]
1.00	[CPS]
500.00	[CPS]

PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION: N/A
 HOLE ID: RH #29-09
 DATE OF LOG: 07/20/06
 PROBE: 9057A 1067



SCALE: 5 M/CM
 TRUE DEPTH: 315.18 M
 AZIMUTH: 279.7
 DISTANCE: 26.0 M
 + = 50 M INCR
 ○ = BOTTOM OF HOLE



***** COMPU-LOG - VERTICAL DEVIATION *****

CLIENT : ELK VALLEY COAL HOLE ID. : RH #29-09
 FIELD OFFICE : DATE OF LOG : 07/20/06
 DATA FROM : N/A PROBE : 9057A , 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: \RH#29-09_07-20-06_09-45_9057A_.02_3.00_317.40_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGE
3.0	3.02	-0.00	-0.00	0.0	240.1	0.2	240.1
13.0	13.00	-0.04	-0.02	0.0	202.3	0.3	195.0
23.0	23.00	-0.06	-0.04	0.1	212.6	0.1	351.6
33.0	33.00	-0.04	-0.05	0.1	231.5	0.2	339.9
43.0	43.00	-0.03	-0.07	0.1	246.0	0.2	244.8
53.0	53.00	-0.03	-0.14	0.1	259.7	0.6	268.0
63.0	63.00	-0.04	-0.29	0.3	262.0	1.1	253.0
73.0	73.00	-0.03	-0.49	0.5	266.6	1.1	272.0
83.0	82.99	0.03	-0.69	0.7	272.5	1.4	295.9
93.0	92.99	0.16	-0.94	1.0	279.5	1.6	312.9
103.0	102.98	0.34	-1.23	1.3	285.3	2.2	299.3
113.0	112.98	0.50	-1.55	1.6	288.0	2.4	292.4
123.0	122.97	0.67	-1.89	2.0	289.6	2.2	288.6
133.0	132.96	0.84	-2.29	2.4	290.2	3.1	306.0
143.0	142.95	1.09	-2.73	2.9	291.6	2.9	301.4
153.0	152.93	1.34	-3.17	3.4	293.0	2.7	301.6
163.0	162.92	1.61	-3.62	4.0	293.9	3.2	297.7
173.0	172.90	1.85	-4.12	4.5	294.2	3.6	301.8
183.0	182.88	2.17	-4.77	5.2	294.4	4.3	290.7
193.0	192.85	2.33	-5.50	6.0	293.0	4.4	286.8
203.0	202.82	2.47	-6.30	6.8	291.4	5.2	285.8
213.0	212.77	2.60	-7.08	7.7	289.7	6.0	272.4
223.0	222.71	2.59	-8.36	8.7	287.2	6.3	284.8
233.0	232.63	2.58	-9.54	9.9	285.2	7.3	285.0
243.0	242.55	2.81	-10.79	11.1	284.6	7.5	272.5
253.0	252.43	3.04	-12.27	12.6	283.9	8.9	271.3
263.0	262.28	3.32	-13.98	14.4	283.4	10.7	278.8
273.0	272.08	3.65	-15.92	16.3	282.9	12.1	263.5
283.0	281.86	3.77	-17.99	18.4	281.8	12.5	271.8
293.0	291.61	4.04	-20.14	20.5	281.4	12.8	275.5
303.0	301.34	4.26	-22.38	22.8	280.8	13.7	277.6
313.0	311.07	4.35	-24.62	25.0	280.0	13.4	273.4
317.2	315.18	4.36	-25.59	26.0	279.7	13.4	273.5



GAMMA LS DENSITY

RH #29-10

Century-geo.com

COMPANY : ELK VALLEY COAL
 WELL : RH 29-10
 FIELD : N/A
 MUNICIPALITY : ELK FORD
 PROVINCE : BRITISH COLUMBIA

LOCATION : CASTLE MTN
 SECTION : N/A
 TOWNSHIP : N/A
 RANGE : N/A
 API NO. : N/A
 UMLIQUE WELL ID. : N/A

2910
 26611.7 E
 144,505.2 N
 1863.3 m

LOG MEASURED FROM : G.L.
 DRILL MEASURED FROM : G.L.
 DATE : 07/27/06
 DEPTH DRILLER :
 BIT SIZE : 12.70
 LOG TOP : 0.32
 LOG BOTTOM : 291.5
 CASING CD : 17.78
 CASING BOTTOM : 3

PERMANENT DATA : N/A
 ELEVATION KB : N/A
 ELEVATION LC : N/A
 ELEVATION GL : N/A

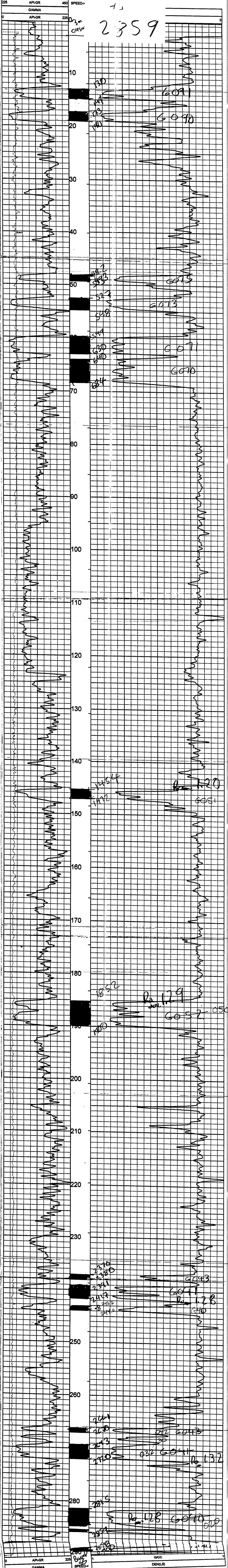
BOREHOLE FLUID : WATER
 MUD RES : N/A
 MUD WEIGHT : N/A
 RM TEMPERATURE : N/A

RECORDED BY : R. HECK
 REMARKS 1 : 51Z - H8 TO 177 M, 6.07 RB TO TD
 REMARKS 2 : LOG THRU DRILL PIPE

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

200 PLOT RATIO GAMMA LS DENSITY RH #29-10 07/27/06

MATRIX DENSITY : 2.68
 MAGNETIC DECL. : 17.0
 LOG PARAMETERS
 NEUTRON MATRIX : SANDSTONE
 ELECT. CUTOFF : 99999
 MATRIX DELTA T : 140
 BIT SIZE : 12.70



10	CM	30	<-VOLUME
225	API-GR	450	GAMMA
225	API-GR	450	GAMMA
10	CM	30	<-VOLUME

**GAMMA - NEUTRON
LOG THRU DRILL PIPE
RH #29-10**

century-geo.com

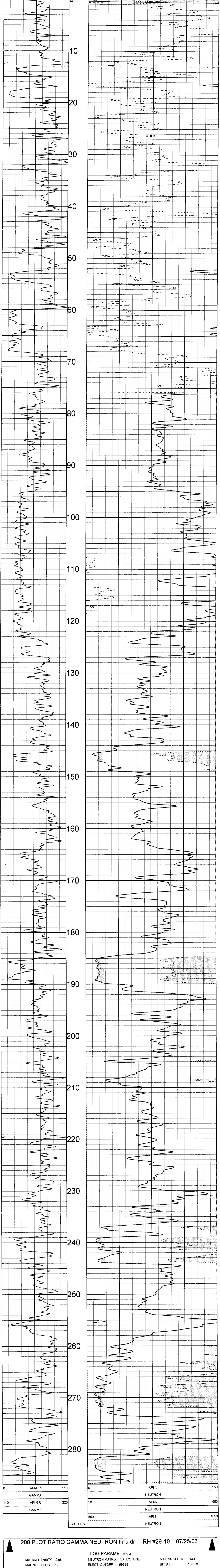
COMPANY	ELK VALLEY COAL	OTHER SERVICES	967
WELL	RH #29-10	967	967
FIELD	N/A	967	967
MUNICIPALITY	ELIZABETH	967	967
PROVINCE	BRITISH COLUMBIA	967	967
LOCATION	CASTLE MTR	967	967
SECTION	N/A	967	967
TOWNSHIP	N/A	967	967
RANGE	N/A	967	967
API NO.	N/A	967	967
UNIQUE WELL ID	N/A	967	967
PERMANENT DATA	N/A	ELEVATION NS	N/A
LOG MEASURED FROM	G.L.	ELEVATION OF	N/A
DATE	07/25/06		
DEPTH DRILLER	291.5		
BIT SIZE	13.018		
LOG TOP	0.00		
LOG BOTTOM	286.71		
CASING OD	17.78		
CASING BOTTOM	3		
CASING TYPE	STEEL		
ROPERIC FLUID	WATER		
MUD RES	N/A		
MUD WEIGHT	N/A		
RECORDED BY	R HECK		
REMARKS 1	LOG THRU DRILL PIPE		
REMARKS 2			

200 PLOT RATIO GAMMA NEUTRON thru dr RH #29-10 07/25/06

MATRIX DENSITY : 2.68
MAGNETIC DECL : 17.0

LOG PARAMETERS
NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 99999

MATRIX DELTA T : 140
BIT SIZE : 13.018



200 PLOT RATIO GAMMA NEUTRON thru dr RH #29-10 07/25/06

MATRIX DENSITY : 2.68
MAGNETIC DECL : 17.0

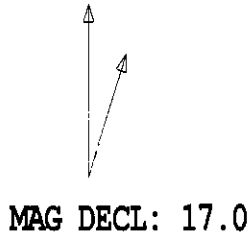
LOG PARAMETERS
NEUTRON MATRIX : SANDSTONE
ELECT CUTOFF : 99999

MATRIX DELTA T : 140
BIT SIZE : 13.018

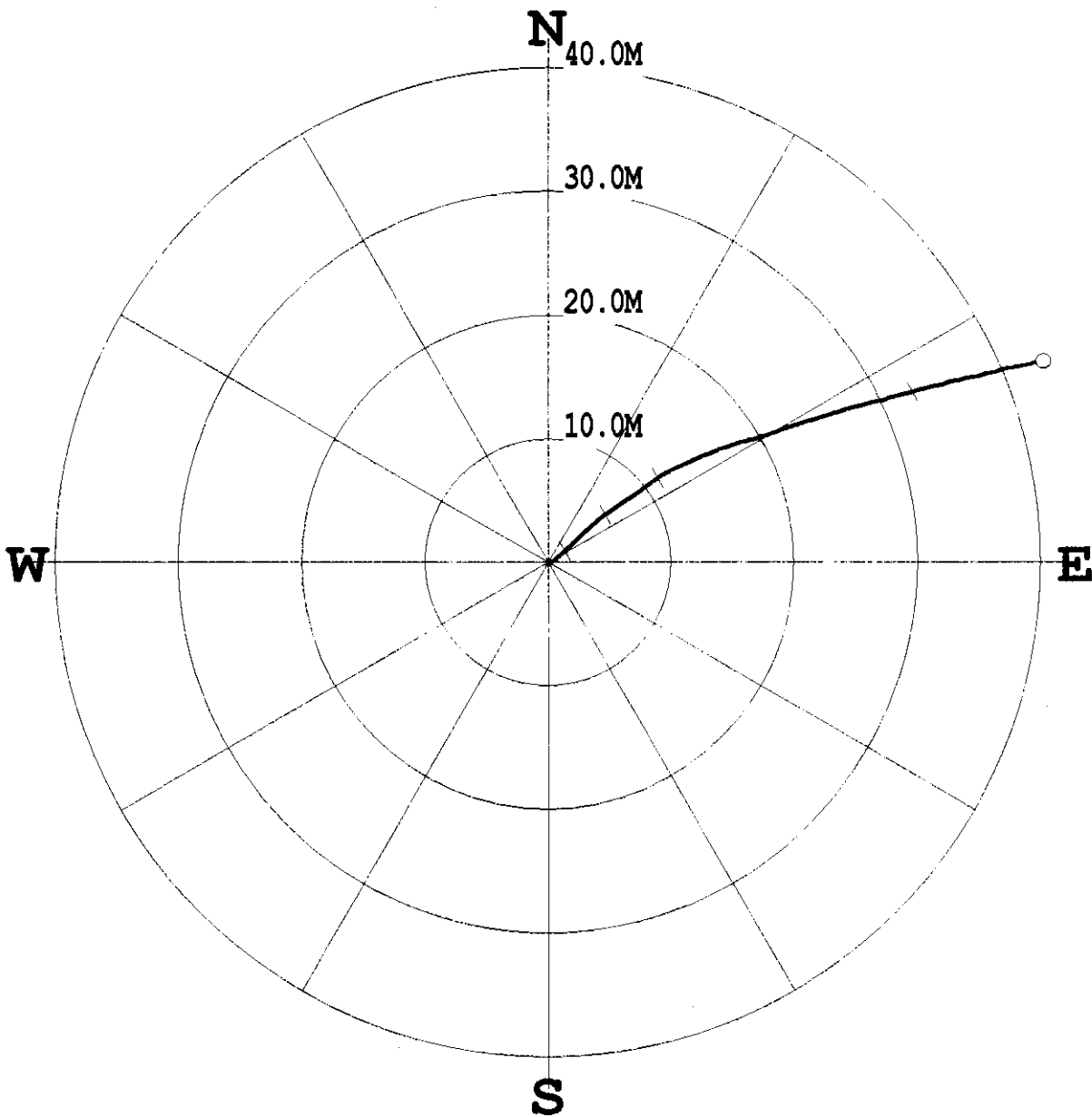
TOOL CALIBRATION RH #29-10 07/25/06 23:49			
TOOL: 9387A			
SERIAL NUMBER 530			
DATE	TIME	SENSOR	STANDARD
1	Jul12,06	18:07:53	GAMMA 1.000 [API-GR]
	Jul12,06	18:07:53	GAMMA 250.000 [API-GR]
	Jul08,06	14:23:13	NEUTRON 1.000 [API-N]
2	Jul08,06	14:23:13	NEUTRON 500.000 [API-N]

PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION: N/A
 HOLE ID: RH #29-10
 DATE OF LOG: 07/27/06
 PROBE: 9057A 1067



SCALE: 5 M/CM
 TRUE DEPTH: 285.89 M
 AZIMUTH: 68.0
 DISTANCE: 43.4 M
 + = 50 M INCR
 ○ = BOTTOM OF HOLE



***** COMPU-LOG - VERTICAL DEVIATION *****

CLIENT : ELK VALLEY COAL HOLE ID. : RH #29-10
 FIELD OFFICE : DATE OF LOG : 07/27/06
 DATA FROM : N/A PROBE : 9057A , 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: RH#29-10_07-27-06_09-22_9057A_.02_3.00_290.72_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
3.0	3.02	0.00	0.00	0.0	52.1	0.2	52.1
13.0	13.00	0.02	0.08	0.1	77.7	1.1	69.1
23.0	23.00	0.05	0.25	0.3	78.3	1.5	70.6
33.0	32.99	0.26	0.60	0.7	66.5	3.1	41.8
43.0	42.97	0.65	1.00	1.2	57.1	3.4	45.3
53.0	52.95	1.09	1.47	1.8	53.5	4.2	47.6
63.0	62.92	1.60	2.02	2.6	51.6	4.8	43.0
73.0	72.89	2.19	2.62	3.4	50.2	4.9	47.1
83.0	82.85	2.78	3.29	4.3	49.8	5.4	46.9
93.0	92.80	3.43	4.01	5.3	49.5	5.1	51.4
103.0	102.74	4.07	4.84	6.3	49.9	6.2	44.4
113.0	112.69	4.64	5.65	7.3	50.6	5.8	68.9
123.0	122.65	5.17	6.44	8.3	51.2	5.6	72.9
133.0	132.59	5.71	7.28	9.3	51.9	6.0	51.9
143.0	142.54	6.37	8.14	10.3	51.9	6.6	68.6
153.0	152.46	7.07	9.13	11.5	52.3	7.0	60.6
163.0	162.36	7.72	10.35	12.9	53.3	9.0	65.2
173.0	172.23	8.37	11.83	14.5	54.7	10.0	67.5
183.0	182.06	9.06	13.50	16.3	56.1	11.4	71.3
193.0	191.86	9.71	15.39	18.2	57.8	12.4	71.7
203.0	201.63	10.26	17.45	20.2	59.5	12.7	81.9
213.0	211.36	11.00	19.60	22.5	60.7	13.9	71.9
223.0	221.06	11.72	21.94	24.9	61.9	14.6	66.9
233.0	230.72	12.46	24.39	27.4	62.9	16.8	70.7
243.0	240.37	13.11	26.92	29.9	64.0	15.4	86.0
253.0	250.00	13.80	29.51	32.6	64.9	14.8	75.0
263.0	259.60	14.49	32.24	35.3	65.8	16.7	61.4
273.0	269.15	15.12	35.09	38.2	66.7	17.1	68.2
283.0	278.70	15.81	37.97	41.1	67.4	17.5	81.2
290.5	285.89	16.25	40.18	43.3	68.0	17.4	63.7

Century-geo.com
RH #29-11

COMPANY : ELK VALLEY COAL
WELL : RH #29-11
FIELD : N/A
MUNICIPALITY : ELK FORD
PROVINCE : BRITISH COLUMBIA

OTHER SERVICES
9057
9057
9239

2911
268044 E
1444727
1978.0 m

LOCATION : CASTLE MTN.
SECTION : N/A
TOWNSHIP : N/A
RANGE : N/A
AP NO. : N/A
UNIQUE WELL ID. : N/A
PERMANENT DATUM : N/A
LOG MEASURED FROM : G.L.
DRL MEASURED FROM : G.L.

ELEVATION RB: N/A
ELEVATION DF: N/A
ELEVATION GL: N/A

DATE : 07/08/06
DEPTH DRILLER : 197
BIT SIZE : 13.335
LOG TOP : 0.27
LOG BOTTOM : 197.15
CASING OD : 17.78
CASING BOTTOM : 6
CASING TYPE : STEEL
BOREHOLE FLUID : WATER
RM TEMPERATURE : N/A
MUD RES : N/A
MUD WEIGHT :
RECORDED BY : R. HECK
REMARKS 1 : 914 HB PD TD
REMARKS 2 : *See Remarks 10-07-06*

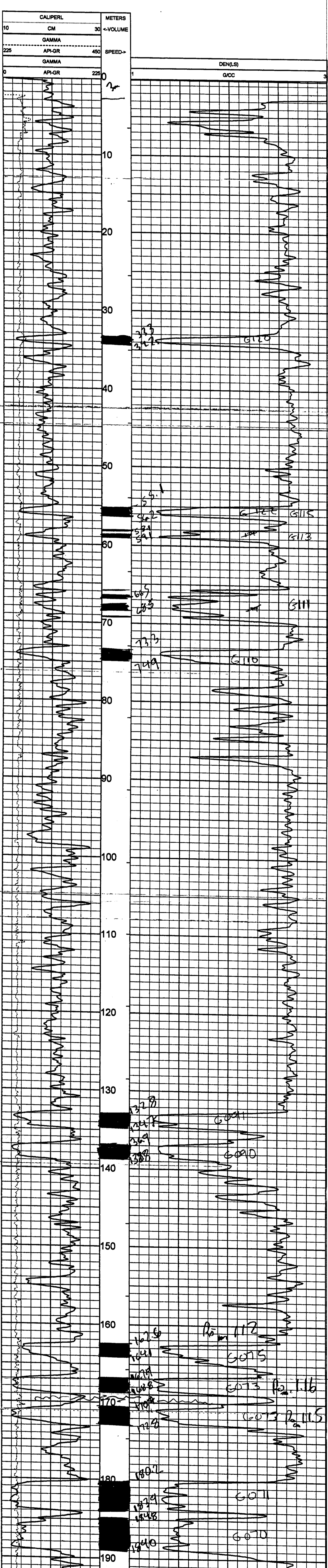
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

07/08/06

PLC

MATRIX DENSITY : 2.68
MAGNETIC DECL : 17.0

MATRIX DELTA T : 140
BIT SIZE : 13.335



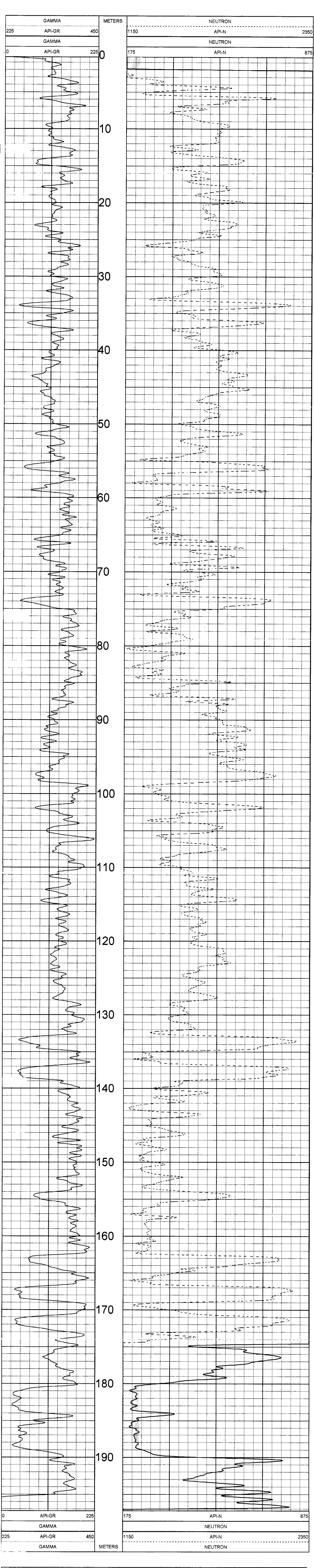
COMPANY	ELK VALLEY COAL	OTHER SERVICES	9067
WELL	RH #29-11		9057
FIELD	N/A		9239
MUNICIPALITY	ELK FORD		
PROVINCE	BRITISH COLUMBIA		
LOCATION	CASTLE MTN.		
SECTION	N/A		
TOWNSHIP	N/A		
RANGE	N/A		
API NO.	N/A		
UNIQUE WELL ID.	N/A	ELEVATION RB	N/A
PERMANENT DATUM	N/A	ELEVATION DF	N/A
LOG MEASURED FROM	G.L.	ELEVATION G.	N/A
DATE	07/08/06		
DEPTH DRILLER	197		
BIT SIZE	13.335		
LOG TOP	0.27		
LOG BOTTOM	197.19		
CASING OD	17.78		
CASING TYPE	STEEL		
BOREHOLE FLUID	WATER		
FM TEMPERATURE	N/A		
MUD RES	N/A		
MUD WEIGHT	N/A		
RECORDED BY	R HECK		
REMARKS 1	5/4" HB TO TD		
REMARKS 2			

PLOT RATIO = 200 RH #29-11 07/08/06

MATRIX DENSITY : 2.68
MAGNETIC DECL : 17.0

LOG PARAMETERS
NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 99999

MATRIX DELTA T : 140
BIT SIZE : 13.335



PLOT RATIO = 200 RH #29-11 07/08/06

MATRIX DENSITY : 2.68
MAGNETIC DECL : 17.0

LOG PARAMETERS
NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 99999

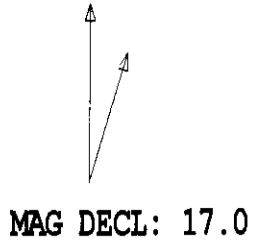
MATRIX DELTA T : 140
BIT SIZE : 13.335

TOOL CALIBRATION RH #29-11 07/08/06 11:56
TOOL 9057A
SERIAL NUMBER 1067

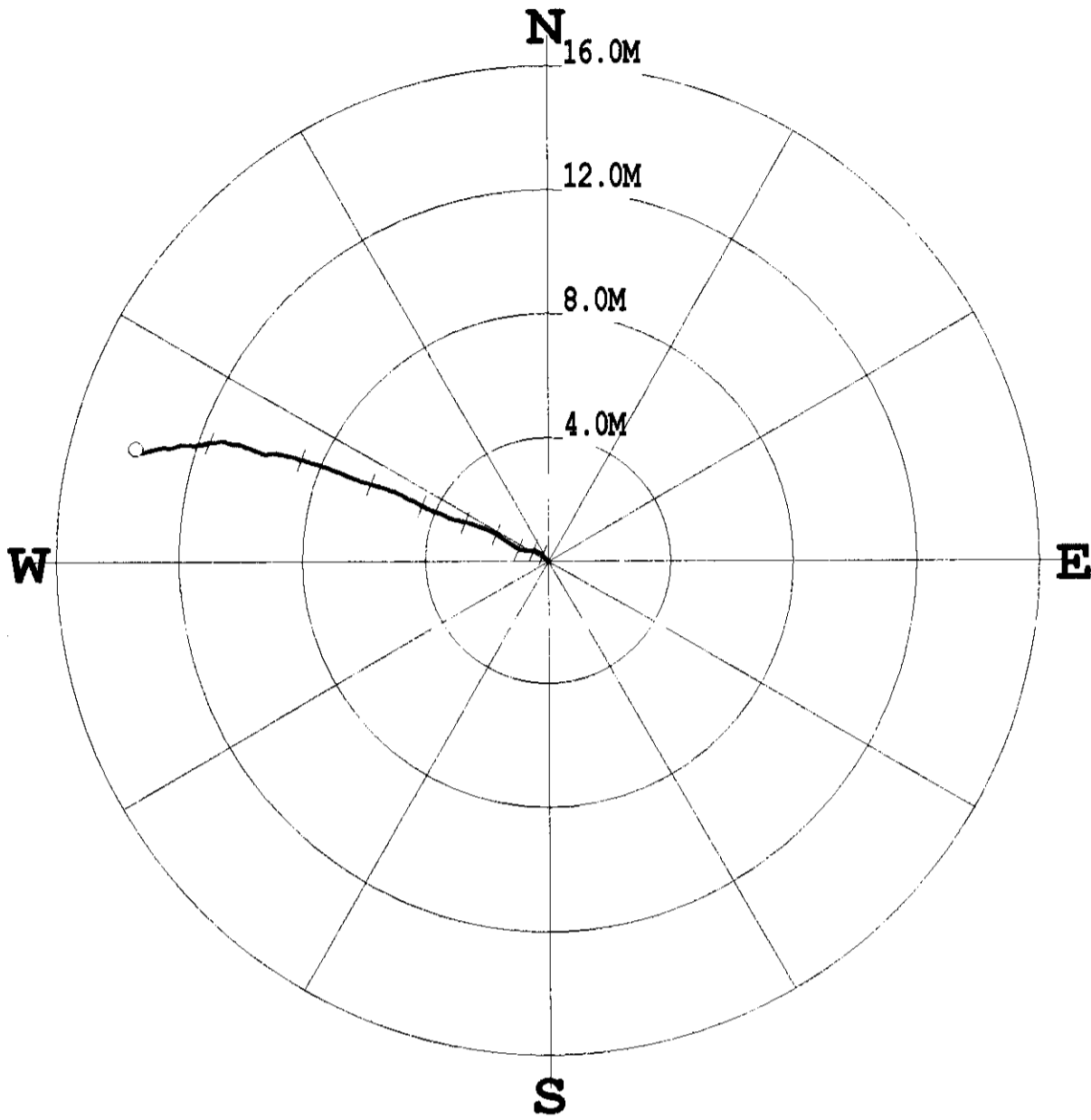
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	May22,06	GAMMA	0.000 [API-GR]	1.00 [CPS]
	May22,06	GAMMA	325.000 [API-GR]	325.00 [CPS]
2	Oct24,05	NEUTRON	Default [CPS]	Default [CPS]
	Oct24,05	NEUTRON	152.000 [API-N]	167.00 [CPS]
3	Dec01,05	SP	Default [CPS]	Default [CPS]
	Dec01,05	SP	Default [CPS]	Default [CPS]
4	Dec01,05	RES(16N)	Default [CPS]	Default [CPS]
	Dec01,05	RES(16N)	Default [CPS]	Default [CPS]
	Dec01,05	RES(64N)	Default [CPS]	Default [CPS]
5	Dec01,05	RES(64N)	Default [CPS]	Default [CPS]
	Dec01,05	RES(64N)	Default [CPS]	Default [CPS]
6	Dec01,05	TEMP	Default [CPS]	Default [CPS]
	Dec01,05	TEMP	Default [CPS]	Default [CPS]
7	Dec01,05	RES	Default [CPS]	Default [CPS]
	Dec01,05	RES	Default [CPS]	Default [CPS]
8	Apr12,02	POR(NEU)	100.000 [PERCENT]	178.00 [CPS]

PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION: N/A
 HOLE ID: RH #29-11
 DATE OF LOG: 07/08/06
 PROBE: 9057A 1067



SCALE: 2 M/CM
 TRUE DEPTH: 196.24 M
 AZIMUTH: 285.2
 DISTANCE: 13.9 M
 + = 20 M INCR
 ○ = BOTTOM OF HOLE



* * * * * COMPU-LOG - VERTICAL DEVIATION * * * * *

CLIENT : ELK VALLEY COAL HOLE ID. : RH #29-11
 FIELD OFFICE : DATE OF LOG : 07/08/06
 DATA FROM : N/A PROBE : 9057A , 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: \RH#29-11_07-08-06_11-56_9057A_.02_3.00_197.19_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
3.0	3.02	0.00	-0.00	0.0	328.9	0.5	328.9
13.0	13.00	0.10	-0.09	0.1	320.2	1.1	314.8
23.0	23.00	0.25	-0.23	0.3	317.1	1.1	306.5
33.0	33.00	0.34	-0.39	0.5	311.3	0.8	303.9
43.0	42.99	0.35	-0.54	0.6	302.9	1.2	256.9
53.0	52.99	0.36	-0.79	0.9	294.8	1.9	292.7
63.0	62.99	0.47	-1.07	1.2	293.6	1.9	290.2
73.0	72.98	0.69	-1.41	1.6	296.0	2.6	300.7
83.0	82.97	0.95	-1.82	2.1	297.5	2.7	292.3
93.0	92.95	1.15	-2.31	2.6	296.5	3.2	286.6
103.0	102.93	1.31	-2.88	3.2	294.4	4.1	306.7
113.0	112.90	1.56	-3.58	3.9	293.5	4.6	281.3
123.0	122.87	1.91	-4.31	4.7	293.9	4.6	302.5
133.0	132.83	2.28	-5.12	5.6	294.0	5.2	283.8
143.0	142.78	2.57	-6.02	6.5	293.1	5.8	285.6
153.0	152.72	2.97	-7.08	7.7	292.8	7.4	292.9
163.0	162.62	3.39	-8.40	9.1	292.0	8.5	276.2
173.0	172.50	3.72	-9.86	10.5	290.7	9.0	289.7
183.0	182.38	3.79	-11.37	12.0	288.4	8.9	264.8
193.0	192.26	3.62	-12.84	13.3	285.7	8.6	247.5
197.0	196.24	3.64	-13.39	13.9	285.2	8.9	296.6

Century-950.com
RH #29-12

OTHER SERVICES:
WELL: RH #29-12
FIELD: N/A
MANUFACTURE: ELK FORD
PROVINCE: BRITISH COLUMBIA

2912
25973.2E
1446919.2E
1866.9m

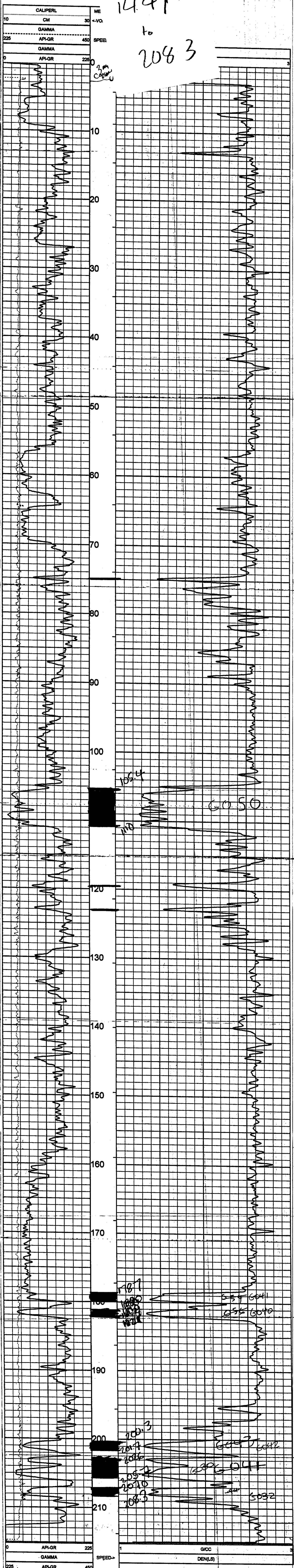
PERMANENT DATUM: N/A
LOG MEASURED FROM: G.L.
DATE: 07/12/06
DEPTH DRILLER: 215
BT SIZE: 13.335
LOG TOP: 0.27
LOG BOTTOM: 215.14

CASING TYPE: STEEL
BORING TYPE: WATER
BORING FLUID: WATER
MUD RES: N/A
MUD WEIGHT: N/A
RECORDED BY: J. HICK
REMARKS 1: 614 HB TO TD
REMARKS 2:
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

200 PLOT RATIO RH #29-12 07/12/06

MATRIX DENSITY: 2.68
MAGNETIC DECL: 17.0
LOG PARAMETERS
NEUTRON MATRIX: SANDSTONE
ELECT. CUTOFF: 99999
MATRIX DELTA T: 140
BIT SIZE: 13.335

14.41
to
2083



105.4

108.7

200.3

205.7

208.6

205.7

201.0

208.3

60.50

65.51

65.51

65.51

65.51

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65.51

65.51

65.51

65.51

65.51

65.51

65.51

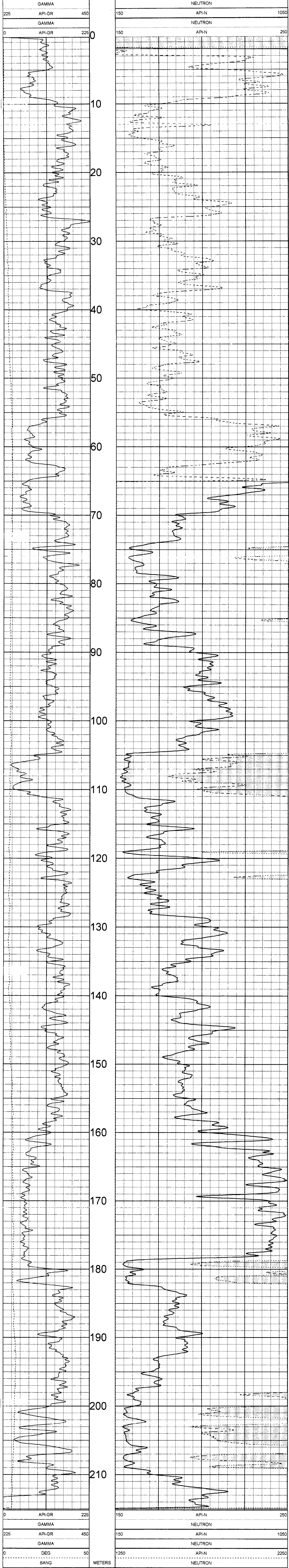
65.51

65.51

COMPANY	ELK VALLEY COAL	OTHER SERVICES	
WELL	RH #29-12	9057	
FIELD	N/A	9057	
MUNICIPALITY	ELK FORD	9239	
PROVINCE	BRITISH COLUMBIA		
LOCATION	CASTLE MTN		
SECTION	N/A		
TOWNSHIP	N/A		
RANGE	N/A		
API NO	N/A		
UNIQUE WELL ID	N/A		
PERMANENT DATUM	N/A	ELEVATION KG	N/A
LOG MEASURED FROM	GL	ELEVATION DF	N/A
DR. MEASURED FROM	G.L.	ELEVATION GL	N/A
DATE	07/12/06		
DEPTH DRILLER	215		
BIT SIZE	13.335		
LOG TOP	0.27		
LOG BOTTOM	215.14		
CASING OD	17.78		
CASING BOTTOM	6		
CASING TYPE	STEEL		
BOREHOLE FLUID	WATER		
FM TEMPERATURE	N/A		
MUD RES	N/A		
MUD WEIGHT	N/A		
RECORDED BY	R HECK		
REMARKS 1	514 - HB TO TD		
REMARKS 2			

200 PLOT RATIO RH #29-12 07/12/06

LOG PARAMETERS
 NEUTRON MATRIX : SANDSTONE
 ELECT. CUTOFF : 99999
 MATRIX DELTA T : 140
 BIT SIZE : 13.335
 MATRIX DENSITY : 2.68
 MAGNETIC DECL : 17.0



200 PLOT RATIO RH #29-12 07/12/06

LOG PARAMETERS
 NEUTRON MATRIX : SANDSTONE
 ELECT. CUTOFF : 99999
 MATRIX DELTA T : 140
 BIT SIZE : 13.335
 MATRIX DENSITY : 2.68
 MAGNETIC DECL : 17.0

TOOL CALIBRATION RH #29-12 07/12/06 14.11
 TOOL 9057A
 SERIAL NUMBER 1087

DATE	TIME	SENSOR	STANDARD	RESPONSE
1	May22.06	GAMMA	0.000 [API-GR]	1.00 [CPS]
2	May22.06	GAMMA	325.000 [API-GR]	325.00 [CPS]
3	Oct24.05	NEUTRON	Default [CPS]	Default [CPS]
4	Oct24.05	NEUTRON	152.000 [API-N]	167.00 [CPS]
5	Dec01.05	SP	Default [CPS]	Default [CPS]
6	Dec01.05	SP	Default [CPS]	Default [CPS]
7	Dec01.05	RES(16N)	Default [CPS]	Default [CPS]
8	Dec01.05	RES(16N)	Default [CPS]	Default [CPS]
9	Dec01.05	RES(64N)	Default [CPS]	Default [CPS]
10	Dec01.05	RES(64N)	Default [CPS]	Default [CPS]
11	Dec01.05	TEMP	Default [CPS]	Default [CPS]
12	Dec01.05	TEMP	Default [CPS]	Default [CPS]
13	Dec01.05	RES	Default [CPS]	Default [CPS]
14	Dec01.05	RES	Default [CPS]	Default [CPS]
15	Apr12.02	POR(NEU)	100.000 [PERCENT]	178.00 [CPS]

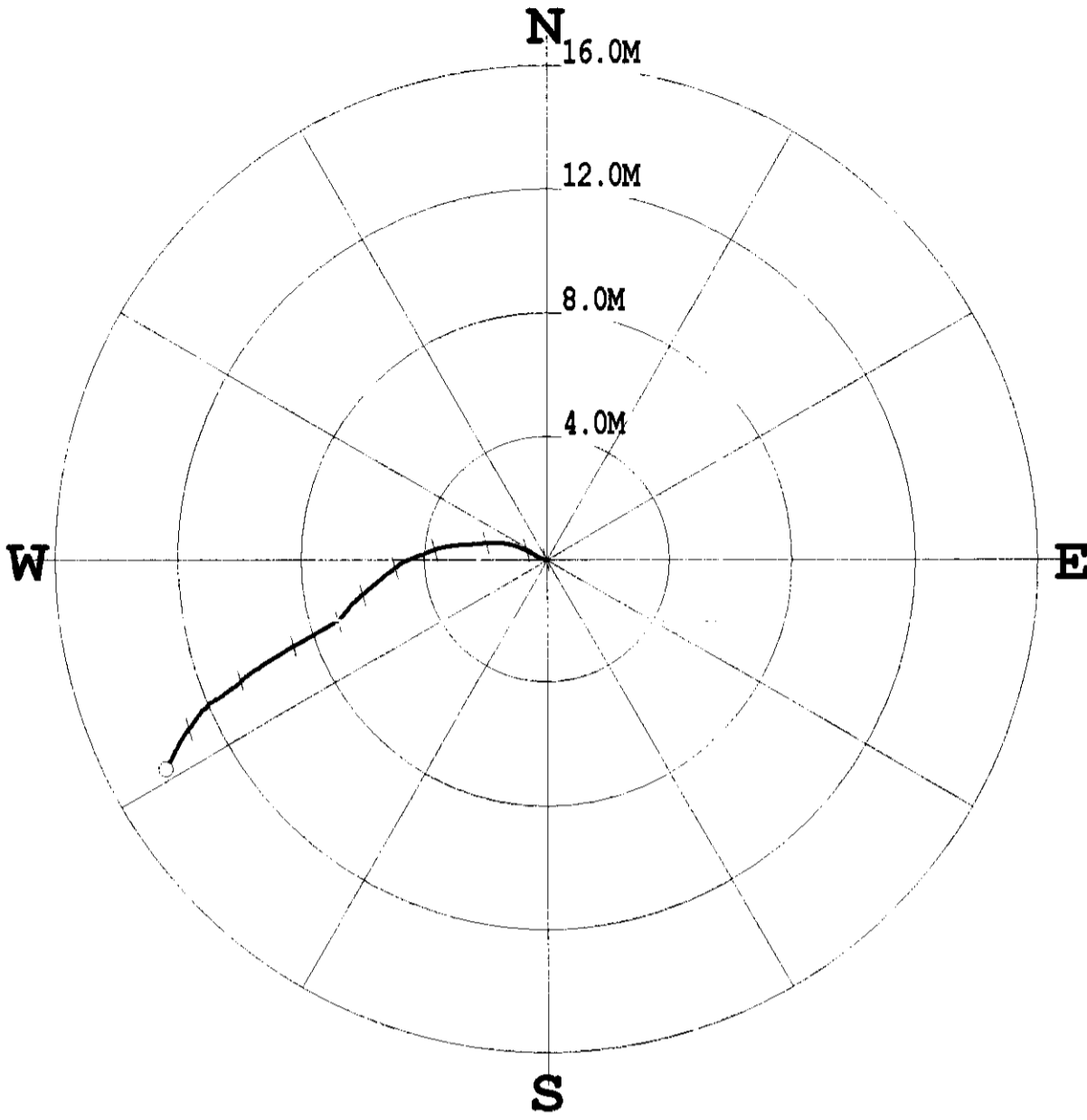
PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION: N/A
 HOLE ID: RH #29-12
 DATE OF LOG: 07/12/06
 PROBE: 9057A 1067



MAG DECL: 17.0

SCALE: 2 M/CM
 TRUE DEPTH: 214.29 M
 AZIMUTH: 241.4
 DISTANCE: 14.1 M
 + = 20 M INCR
 ○ = BOTTOM OF HOLE



***** COMPU-LOG - VERTICAL DEVIATION *****

CLIENT : ELK VALLEY COAL HOLE ID. : RH #29-12
 FIELD OFFICE : DATE OF LOG : 07/12/06
 DATA FROM : N/A PROBE : 9057A , 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: \RH#29-12_07-12-06_14-11_9057A_.02_5.00_215.14_DEV1.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
6.0	6.02	0.00	0.00	0.0	34.2	0.5	34.2
16.0	16.00	0.02	6.01	0.0	30.8	0.4	259.5
26.0	26.00	0.04	-0.15	0.2	286.9	1.5	280.5
36.0	35.99	0.21	-0.49	0.5	293.0	2.9	299.7
46.0	45.98	0.42	-0.95	1.0	294.0	3.4	287.2
56.0	55.95	0.55	-1.64	1.7	288.6	4.9	269.0
66.0	65.92	0.50	-2.49	2.5	281.4	5.0	269.5
76.0	75.88	0.42	-3.34	3.4	277.1	4.6	261.4
86.0	85.85	0.18	-4.05	4.1	272.5	3.9	247.6
96.0	95.83	-0.07	-4.69	4.7	269.1	4.3	232.6
106.0	105.80	-0.51	-5.29	5.3	264.5	4.1	234.7
116.0	115.77	-0.94	-5.81	5.9	260.8	3.8	230.8
126.0	125.76	-1.34	-6.26	6.4	257.9	3.3	235.1
136.0	135.74	-1.79	-6.64	6.9	254.9	3.6	218.2
146.0	145.72	-2.18	-7.15	7.5	253.1	4.1	247.9
156.0	155.68	-2.59	-7.89	8.3	251.8	5.4	238.9
166.0	165.63	-3.11	-8.75	9.3	250.4	5.7	236.5
176.0	175.57	-3.67	-9.63	10.3	249.1	5.6	228.8
186.0	185.52	-4.30	-10.42	11.3	247.6	6.7	247.8
196.0	195.45	-5.04	-11.34	12.4	246.0	7.3	224.3
206.0	205.38	-6.00	-12.00	13.4	243.4	6.3	203.8
215.0	214.29	-6.77	-12.40	14.1	241.4	5.0	200.4



GEOMETRICAL CORP.

century-geo.com

GAMMA LS DENSITY

RH #29-13

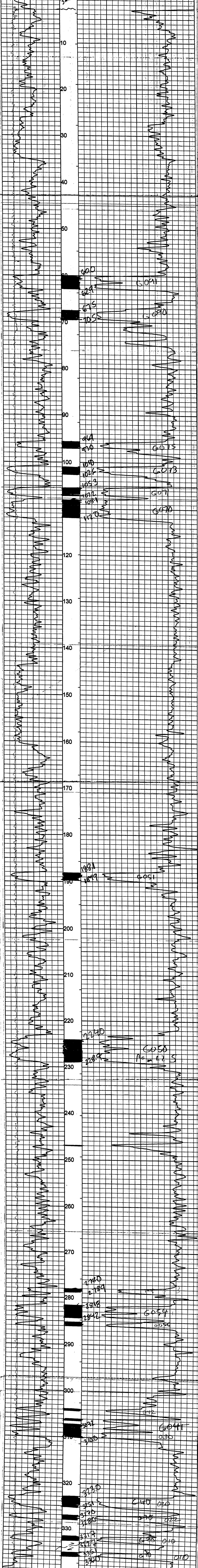
2913

264802E
14706.1N
1924.9-

COMPANY : ELK VALLEY COAL
WELL : RH #29-13
FIELD :
LOCALITY : ELK FORD
MUNICIPALITY : BRITISH COLUMBIA
PROVINCE :
CITY : CASTLE MTN
LOCATION :
SECTION : WA
TOWNSHIP : WA
RANGE : WA
APRNO : WA
ANNUAL WELL ID : WA
PERMITS/DATA : WA
LOG MEASURED FROM : G.L.
ELEVATION OF NA :
ELEVATION OF NA :
DATE : 07/11/06
DEPTH DRAFTER : JAL
BIT SIZE : 13.975
LOG TOP : 0.34
LOG BOTTOM : 341.25
CASING OD : 17.78
CASING BOTTOM : 3
CASING TYPE : STEEL
BOREHOLE FLUID : WATER
RIM TEMPERATURE : WA
MUD RES : WA
MUD WEIGHT :
RECORDED BY : K HECK
REMARKS 1 :
REMARKS 2 :
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

PLOT RATIO = 200 RH #29-13 07/11/06

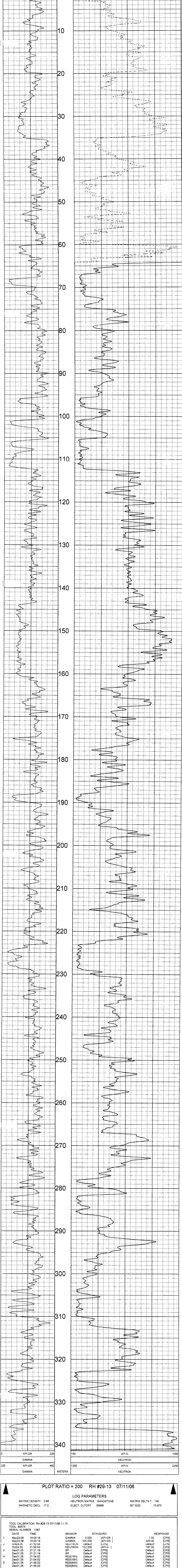
MATRIX DENSITY : 2.88
MAGNETIC DECL : 17.0
LOG PARAMETERS
NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 99999
MATRIX DELTA T : 140
BIT SIZE : 13.975



COMPANY	ELK VALLEY COAL	OTHER SERVICES	
WELL	RH #29-13	9067	
DEPTH (M)	N/A	9067	
MUNICIPALITY	ELK FORD	9239	
PROVINCE	BRITISH COLUMBIA		
LOCATION	CASTLE MTN		
SECTION	N/A		
TOWNSHIP	N/A		
RANGE	N/A		
API NO	N/A		
UNIQUE WELL ID	N/A		
PERMANENT DATUM	N/A		
LOG MEASURED FROM	G.L.		
ELEVATION OF	N/A		
ELEVATION OF	N/A		
DATE	07/11/06		
DEPTH (M)	341		
LOG TOP	13970		
BIT SIZE	0.34		
LOG BOTTOM	341.34		
CASING OD	1778		
CASING ID	3		
CASING BOTTOM	STEEL		
BORING TYPE	WATER		
BORING HOLE FLUID	N/A		
RM TEMPERATURE	N/A		
MUD WEIGHT	N/A		
RECORDED BY	R.CHECK		
REMARKS 1	512 - 18 TO TD		
REMARKS 2			

PLOT RATIO = 200 RH #29-13 07/11/06

LOG PARAMETERS
 NEUTRON MATRIX SANDSTONE
 ELECT. CUTOFF 99999
 MATRIX DENSITY 2.68
 MAGNETIC DECL 17.0
 MATRIX DELTA T 140
 BIT SIZE 13.970



PLOT RATIO = 200 RH #29-13 07/11/06

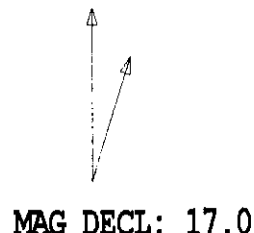
LOG PARAMETERS
 NEUTRON MATRIX SANDSTONE
 ELECT. CUTOFF 99999
 MATRIX DENSITY 2.68
 MAGNETIC DECL 17.0
 MATRIX DELTA T 140
 BIT SIZE 13.970

TOOL CALIBRATION RH #29-13 07/11/06 11:13
 TOOL 9057A
 SERIAL NUMBER 1087

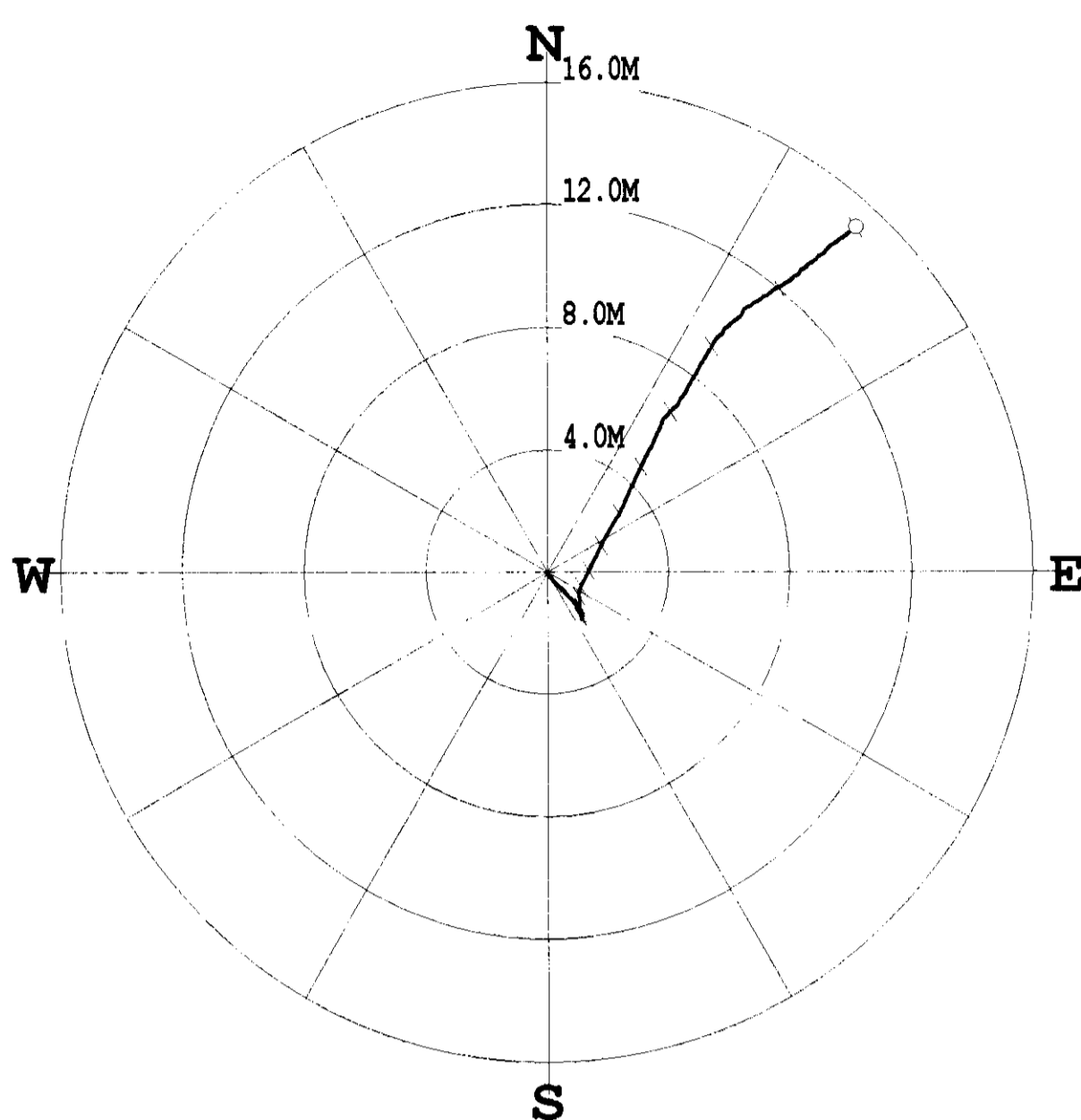
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	May22.06	15:03:18	GAMMA	0.000 [API-GR] 1.00 [CPS]
2	May22.06	15:03:18	GAMMA	325.000 [API-GR] 325.00 [CPS]
3	Oct04.05	21:30:34	NEUTRON	Linear 167.00 [L-N] 167.00 [CPS]
4	Oct04.05	21:50:54	NEUTRON	152.000 [API-N] 167.00 [CPS]
5	Dec01.05	21:21:19	SP	Default [CPS] Default [CPS]
6	Dec01.05	21:21:19	RES(16N)	Default [CPS] Default [CPS]
7	Dec01.05	21:54:52	RES(16N)	Default [CPS] Default [CPS]
8	Dec01.05	21:55:00	RES(64N)	Default [CPS] Default [CPS]
9	Dec01.05	21:55:00	RES(64N)	Default [CPS] Default [CPS]
10	Dec01.05	21:55:07	TEMP	Default [CPS] Default [CPS]
11	Dec01.05	21:55:07	TEMP	Default [CPS] Default [CPS]
12	Dec01.05	21:55:17	RES	Default [CPS] Default [CPS]
13	Dec01.05	21:55:17	RES	Default [CPS] Default [CPS]
14	Apr12.02	00:42:07	POR(NEU)	100.000 [PERCENT] 178.00 [CPS]

PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION: N/A
 HOLE ID: RH #29-13
 DATE OF LOG: 07/11/06
 PROBE: 9057A 1067



SCALE: 2 M/CM
 TRUE DEPTH: 340.23 M
 AZIMUTH: 42.1
 DISTANCE: 15.2 M
 + = 20 M INCR
 ○ = BOTTOM OF HOLE



* * * * * COMPU-LOG - VERTICAL DEVIATION * * * * *

CLIENT : ELK VALLEY COAL HOLE ID. : RH #29-13
 FIELD OFFICE : DATE OF LOG : 07/11/06
 DATA FROM : N/A PROBE : 9057A , 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: RH#29-13_07-11-06_11-13_9057A_02_3.00_341.34_DEVI.log

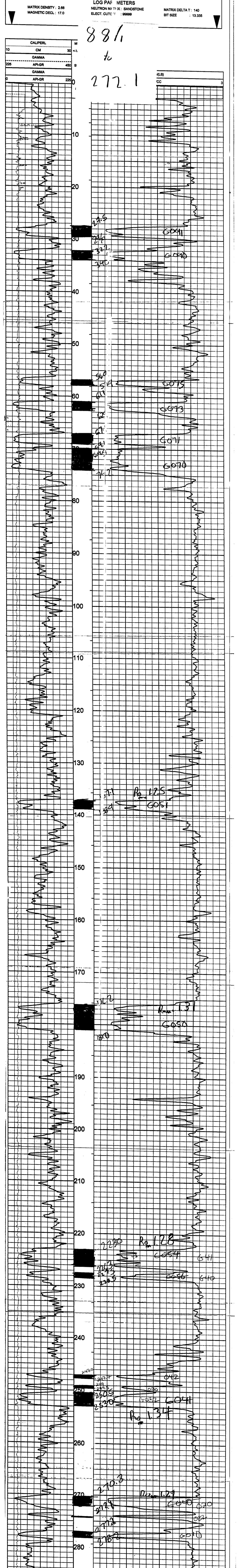
CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
3.0	3.00	0.00	0.00	0.0	34.1	1.4	34.1
13.0	13.00	-0.19	0.11	0.2	148.6	1.7	137.7
23.0	22.99	-0.40	0.30	0.5	142.4	1.6	128.2
33.0	32.99	-0.59	0.52	0.8	138.6	1.6	129.2
43.0	42.98	-0.80	0.72	1.1	137.9	1.6	142.6
53.0	52.98	-0.99	0.91	1.3	137.5	1.6	137.9
63.0	62.98	-1.19	1.07	1.6	138.2	1.4	134.6
73.0	72.98	-1.37	1.13	1.8	140.5	0.6	186.4
83.0	82.97	-1.47	1.11	1.8	143.1	0.4	190.3
93.0	92.97	-1.50	1.11	1.9	143.6	0.2	326.1
103.0	102.97	-1.45	1.09	1.8	143.0	0.3	22.7
113.0	112.97	-1.37	1.07	1.7	141.9	0.5	347.1
123.0	122.97	-1.28	1.06	1.7	140.4	0.5	351.0
133.0	132.97	-1.18	1.05	1.6	138.3	0.8	3.5
143.0	142.97	-1.04	1.05	1.5	134.8	1.0	2.0
153.0	152.97	-0.89	1.04	1.4	130.6	1.0	354.5
163.0	162.97	-0.74	1.03	1.3	125.8	1.1	3.6
173.0	172.97	-0.58	1.04	1.2	119.2	0.7	39.9
183.0	182.97	-0.40	1.11	1.2	109.6	1.4	34.4
193.0	192.96	-0.16	1.24	1.3	97.2	1.4	29.5
203.0	202.96	0.15	1.40	1.4	84.0	2.5	19.6
213.0	212.95	0.52	1.61	1.7	72.2	2.6	30.6
223.0	222.93	1.01	1.84	2.1	61.2	3.3	27.9
233.0	232.91	1.52	2.12	2.6	54.3	3.8	22.6
243.0	242.89	2.10	2.46	3.2	49.5	3.8	44.3
253.0	252.86	2.84	2.80	4.0	44.6	4.7	33.3
263.0	262.81	3.68	3.19	4.9	40.9	5.9	19.0
273.0	272.76	4.57	3.63	5.8	38.5	5.9	39.9
283.0	282.70	5.43	4.28	6.9	38.3	5.8	39.5
293.0	292.63	6.47	4.90	8.1	37.1	7.6	24.7
303.0	302.53	7.67	5.61	9.5	36.2	8.4	47.1
313.0	312.42	8.67	6.64	10.9	37.4	8.7	62.8
323.0	322.30	9.48	7.92	12.4	39.9	8.4	66.5
333.0	332.18	10.44	9.14	13.9	41.2	9.3	40.4
341.2	340.23	11.25	10.16	15.2	42.1	9.4	55.7

CENTURY-990.COM
ELK VALLEY COAL
RH #29-14
OTHER SERVICES
9057
9057
8239

INCIPALITY: ELK FORD
BRITISH COLUMBIA
CASTLE MTN.
N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A
ELEVATION OF N/A
ELEVATION OF N/A
ELEVATION OF N/A

WELL ID: 26707.1 E
14465.4 N
18833.2 ~

DATE: 07/22/06
TH DRILLER: 287
SIZE: 13.335
TOP: 0.30
BOTTOM: 287.16
ING OD: 17.78
ING BOTTOM: 8
ING TYPE: STEEL
HOLE FLUID: WATER
TEMPERATURE: N/A
PRESS: N/A
WEIGHT: N/A
CORDED BY: [Signature]
DAYS 1: 28-07-06
DAYS 2: 1 HR TO 91M, 51R, 98 TO TD



API-GR 225
GAMMA
SPEED
GICC
DENSITY

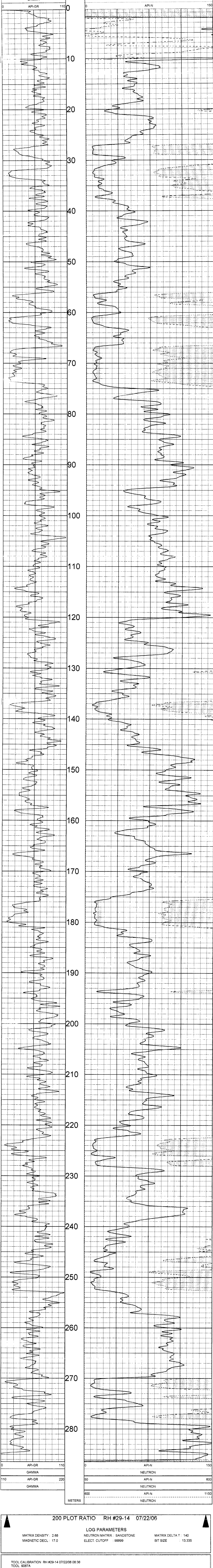
COMPANY	ELK VALLEY COAL	OTHER SERVICES
WELL	RH #29-14	9067
FIELD	N/A	9057
MUNICIPALITY	ELK FORD	9298
PROVINCE	BRITISH COLUMBIA	
LOCATION	CASTLE MTN	
SECTION	N/A	
TOWNSHIP	N/A	
RANGE	N/A	
API NO.	N/A	
UNIQUE WELL ID.	N/A	
PERMANENT DATUM	N/A	ELEVATION NS N/A
LOG MEASURED FROM	GL	ELEVATION OF N/A
DRL MEASURED FROM	GL	ELEVATION GL N/A
DATE	07/22/06	
DEPTH DRILLER	287	
BIT SIZE	13.335	
LOG TOP	0.32	
LOG BOTTOM	286.38	
CASING OD	17.78	
CASING BOTTOM	6	
CASING TYPE	STEEL	
BOREHOLE FLUID	WATER	
RM TEMPERATURE	N/A	
MUD RES	N/A	
MUD WEIGHT	N/A	
RECORDED BY	R HECK	
REMARKS 1	4 HB TO 81M 51/8" RB TO TD	
REMARKS 2	LOG THRU DRILL PIPE	

200 PLOT RATIO RH #29-14 07/22/06

MATRIX DENSITY : 2.88
MAGNETIC DECL : 17.0

LOG PARAMETERS
NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 99999

MATRIX DELTA T : 140
BIT SIZE : 13.335



200 PLOT RATIO RH #29-14 07/22/06

MATRIX DENSITY : 2.88
MAGNETIC DECL : 17.0

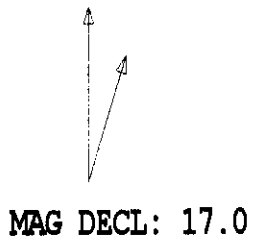
LOG PARAMETERS
NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 99999

MATRIX DELTA T : 140
BIT SIZE : 13.335

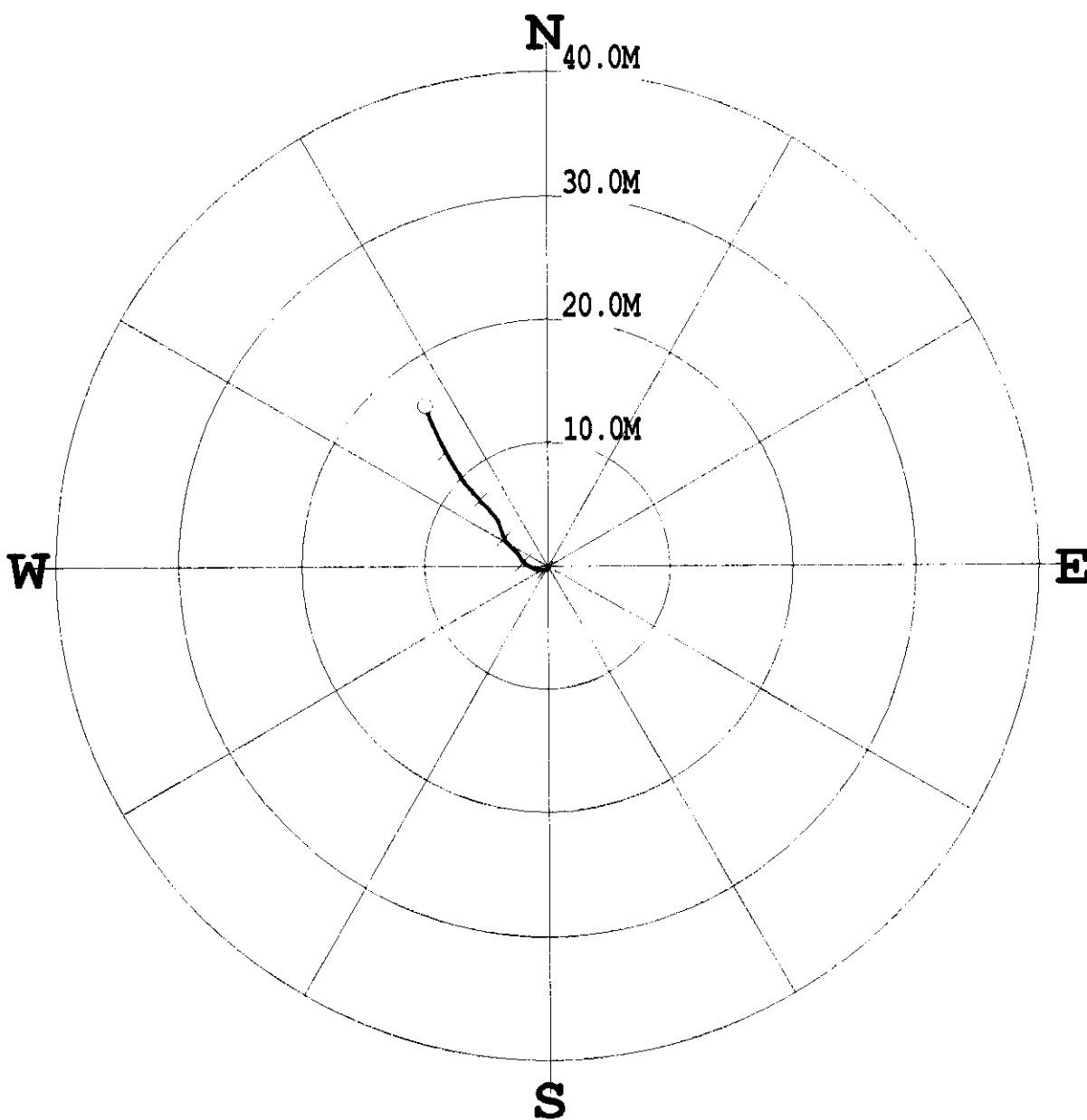
TOOL CALIBRATION RH #29-14 07/22/06 08:38			
TOOL 9087A			
SERIAL NUMBER 530			
DATE	TIME	SENSOR	STANDARD
1	Jul12.06	18:07:53	GAMMA 1.000 [API-GR]
	Jul12.06	18:07:53	GAMMA 250.000 [API-GR]
2	Jul108.06	14:23:13	NEUTRON 1.000 [API-N]
	Jul108.06	14:23:13	NEUTRON 500.000 [API-N]
			RESPONSE
			1.00 [CPS]
			80.00 [CPS]
			1.00 [CPS]
			500.00 [CPS]

PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION: N/A
 HOLE ID: RH #29-14
 DATE OF LOG: 07/22/06
 PROBE: 9057A 1067



SCALE: 5 M/CM
 TRUE DEPTH: 286.31 M
 AZIMUTH: 322.6
 DISTANCE: 16.3 M
 + = 50 M INCR
 ○ = BOTTOM OF HOLE



* * * * * COMPU-LOG - VERTICAL DEVIATION * * * * *

CLIENT : ELK VALLEY COAL HOLE ID. : RH #29-14
 FIELD OFFICE : DATE OF LOG : 07/22/06
 DATA FROM : N/A PROBE : 9057A , 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: RH#29-14_07-22-06_12-22_9057A_.02_6.00_287.20_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGE
6.0	6.02	0.00	0.00	0.0	49.1	0.3	49.1
16.0	16.00	-0.09	0.05	0.1	150.4	0.5	170.5
26.0	26.00	-0.17	0.04	0.2	168.3	0.6	203.7
36.0	36.00	-0.23	-0.01	0.2	181.3	0.4	229.2
46.0	46.00	-0.28	-0.13	0.3	205.4	1.2	253.5
56.0	55.99	-0.28	-0.39	0.5	233.9	1.7	269.4
66.0	65.99	-0.23	-0.72	0.8	251.9	2.0	285.8
76.0	75.98	-0.19	-1.09	1.1	260.2	2.3	283.8
86.0	85.97	-0.00	-1.47	1.5	270.0	2.5	307.1
96.0	95.96	0.23	-1.84	1.9	277.2	2.4	313.5
106.0	105.95	0.54	-2.13	2.2	284.2	2.4	325.3
116.0	115.94	0.98	-2.40	2.6	292.2	3.3	322.8
126.0	125.93	1.35	-2.74	3.1	296.2	2.9	309.1
136.0	135.91	1.68	-3.10	3.5	298.4	2.7	313.2
146.0	145.90	2.07	-3.47	4.0	300.8	3.3	333.6
156.0	155.88	2.68	-3.70	4.6	306.0	3.8	337
166.0	165.85	3.35	-3.92	5.2	310.5	4.2	338.3
176.0	175.83	3.99	-4.25	5.8	313.2	4.3	321.5
186.0	185.80	4.54	-4.73	6.6	313.8	4.2	319.5
196.0	195.77	5.12	-5.27	7.3	314.2	4.5	308.1
206.0	205.73	5.74	-5.83	8.2	314.6	4.7	296.7
216.0	215.69	6.41	-6.43	9.1	314.9	5.5	306.7
226.0	225.65	7.15	-7.02	10.0	315.5	5.6	344.3
236.0	235.60	7.99	-7.53	11.0	316.7	5.7	328.9
246.0	245.54	8.87	-8.06	12.0	317.7	6.0	333.1
256.0	255.49	9.77	-8.55	13.0	318.8	5.8	328.9
266.0	265.43	10.74	-9.02	14.0	320.0	6.4	334.8
276.0	275.37	11.78	-9.49	15.1	321.1	6.5	340.0
286.0	285.30	12.85	-9.88	16.2	322.4	6.7	341.2
287.0	286.31	12.96	-9.93	16.3	322.6	7.0	337.7

COMPANY : ELK VALLEY COAL
WELL : RH 29-15
FIELD : N/A
MUNICIPALITY : ELK FORD
PROVINCE : BRITISH COLUMBIA
LOCATION : CASTLE MTN.
SECTION : N/A
TOWNSHIP : N/A
RANGE : N/A
APN NO. : N/A
LINCOLN WELL ID. : N/A
PERMANENT TATUM : N/A
LOG MEASURED FROM : G.L.
DATE : 07/09/06
DEPTH DRILLER : 203
BIT SIZE : 13.633
LOG TOP : 0.26
LOG BOTTOM : 203.26
CASING OD : 17.75
CASING BOTTOM : 3
CLOGGING TYPE : STEEL
BOREHOLE FLUID : WATER
RIM TEMPERATURE : N/A
MUD RES : N/A
MUD WEIGHT : N/A
RECORDED BY : R. Beck
REMARKS 1 : 568' HB TO TD
REMARKS 2 :
OTHER SERVICES : 2915 9097 8228

28864 SE
144618 N
19518

10-07-06
10-07-06

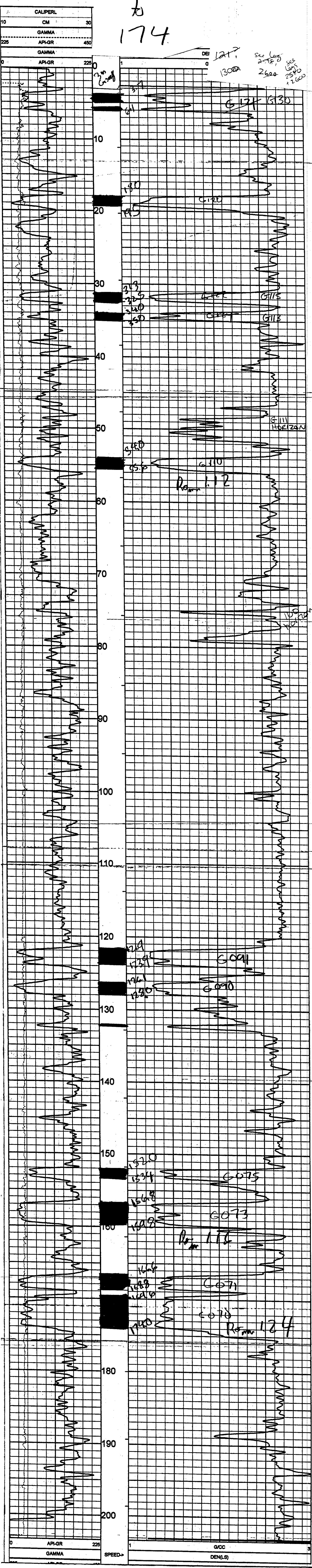
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

PLOT RATIO = 200 RH #29-15 07/09/06

MATRIX DENSITY : 2.68
MAGNETIC DECL. : 17.0

MATRIX DELTA T : 140
BIT SIZE : 13.633

761
to
174

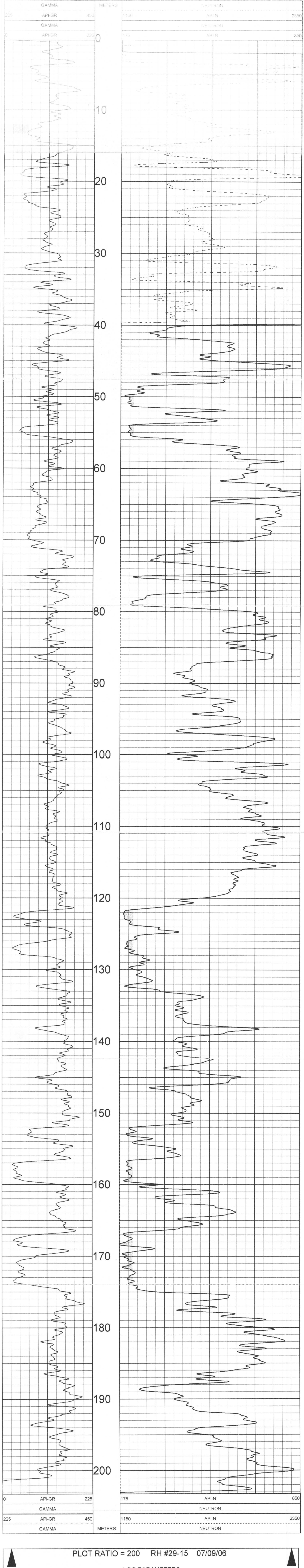


PLOT RATIO = 200 RH #29-15 07/09/06

MATRIX DENSITY : 2.68
MAGNETIC DECL : 17.0

LOG PARAMETERS
NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 99999

MATRIX DELTA T : 140
BIT SIZE : 13.653



PLOT RATIO = 200 RH #29-15 07/09/06

MATRIX DENSITY : 2.68
MAGNETIC DECL : 17.0

LOG PARAMETERS
NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 99999

MATRIX DELTA T : 140
BIT SIZE : 13.653

TOOL CALIBRATION RH #29-15 07/09/06 12:14
TOOL 9057A
SERIAL NUMBER 1067

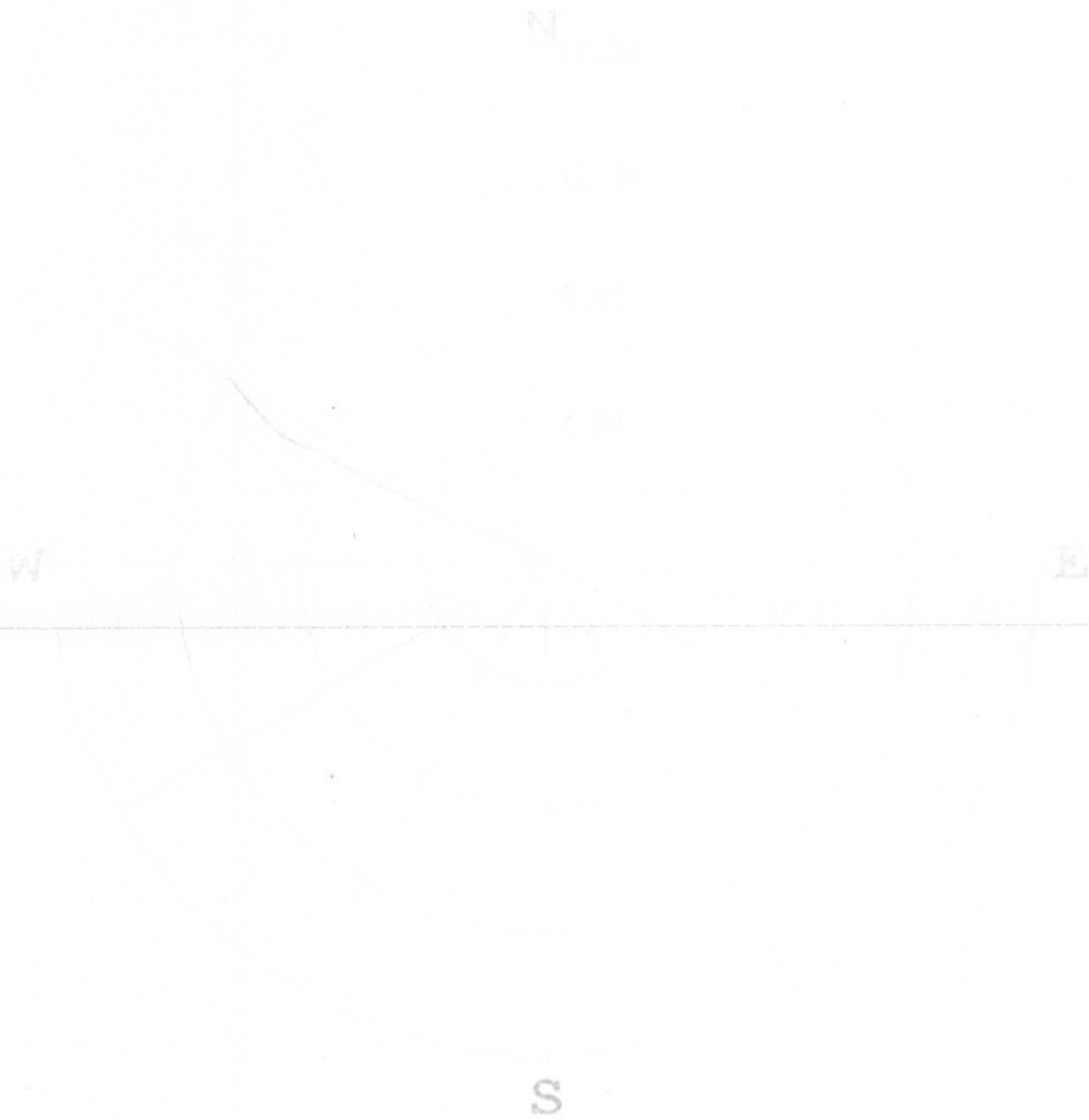
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	May22.06 15:03:18	GAMMA	0.000 [API-GR]	1.00 [CPS]
2	May22.06 15:03:18	GAMMA	325.000 [API-GR]	325.00 [CPS]
3	Oct24.05 21:50:54	NEUTRON	Default [CPS]	Default [CPS]
4	Oct24.05 21:50:54	NEUTRON	152.000 [API-N]	167.00 [CPS]
5	Dec01.05 21:21:19	SP	Default [CPS]	Default [CPS]
6	Dec01.05 21:21:19	SP	Default [CPS]	Default [CPS]
7	Dec01.05 21:54:52	RES(16N)	Default [CPS]	Default [CPS]
8	Dec01.05 21:54:52	RES(16N)	Default [CPS]	Default [CPS]
9	Dec01.05 21:55:00	RES(64N)	Default [CPS]	Default [CPS]
10	Dec01.05 21:55:00	RES(64N)	Default [CPS]	Default [CPS]
11	Dec01.05 21:55:07	TEMP	Default [CPS]	Default [CPS]
12	Dec01.05 21:55:07	TEMP	Default [CPS]	Default [CPS]
13	Dec01.05 21:55:17	RES	Default [CPS]	Default [CPS]
14	Dec01.05 21:55:17	RES	Default [CPS]	Default [CPS]
15	Dec01.05 21:55:17	RES	Default [CPS]	Default [CPS]
16	Apr12.02 00:42:07	POR(NEU)	100.000 [PERCENT]	178.00 [CPS]

PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ELK VALLEY COAL
 LOCATION: N/A
 HOLE ID: RH #29-15
 DATE OF LOG: 07/09/06
 PROBE: 9057A 1067

SCALE: 2 M/CM
 TRUE DEPTH: 202.60 M
 AZIMUTH: 299.8
 DISTANCE: 12.2 M
 + = 20 M INCR
 = BOTTOM OF HOLE

MAG DECL: 17.0



***** COMPU-LOG - VERTICAL DEVIATION *****

CLIENT : ELK VALLEY COAL HOLE ID. : RH #29-15
 FIELD OFFICE : DATE OF LOG : 07/09/06
 DATA FROM : N/A PROBE : 9057A , 1067
 MAG. DECL. : 17.000 DEPTH UNITS : METERS
 LOG: \RH#29-15_07-09-06_12-14_9057A_02_3.00_202.60_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
3.0	3.02	0.00	0.00	0.0	86.4	1.0	86.4
13.0	13.00	0.09	-0.18	0.2	296.8	1.3	293.2
23.0	22.99	0.23	-0.45	0.5	296.7	2.0	298.5
33.0	32.99	0.40	-0.79	0.9	296.9	2.2	288.5
43.0	42.98	0.60	-1.20	1.3	296.4	2.8	298.4
53.0	52.96	0.84	-1.64	1.8	297.2	3.1	297.1
63.0	62.95	1.07	-2.16	2.4	296.3	3.2	292.8
73.0	72.93	1.27	-2.72	3.0	295.0	3.3	280.2
83.0	82.91	1.44	-3.28	3.6	293.7	3.3	295.6
93.0	92.89	1.66	-3.84	4.2	293.3	3.6	295.9
103.0	102.87	2.00	-4.41	4.8	294.4	3.7	297.5
113.0	112.85	2.29	-4.98	5.5	294.7	3.6	297.8
123.0	122.83	2.58	-5.54	6.1	294.9	3.4	295.1
133.0	132.81	2.88	-6.13	6.8	295.1	3.8	302.2
143.0	142.78	3.20	-6.73	7.5	295.4	3.9	293.0
153.0	152.75	3.56	-7.40	8.2	295.7	4.2	286.5
163.0	162.72	3.84	-8.11	8.9	295.3	4.4	306.5
173.0	172.69	4.29	-8.75	9.7	295.1	4.9	314.4
183.0	182.66	4.88	-9.32	10.5	297.6	5.1	329.8
193.0	192.62	5.53	-9.89	11.3	299.2	5.2	327.8
203.0	202.58	6.06	-10.56	12.2	299.9	5.3	309.2
203.6	202.60	6.06	-10.56	12.2	299.8	5.3	309.3