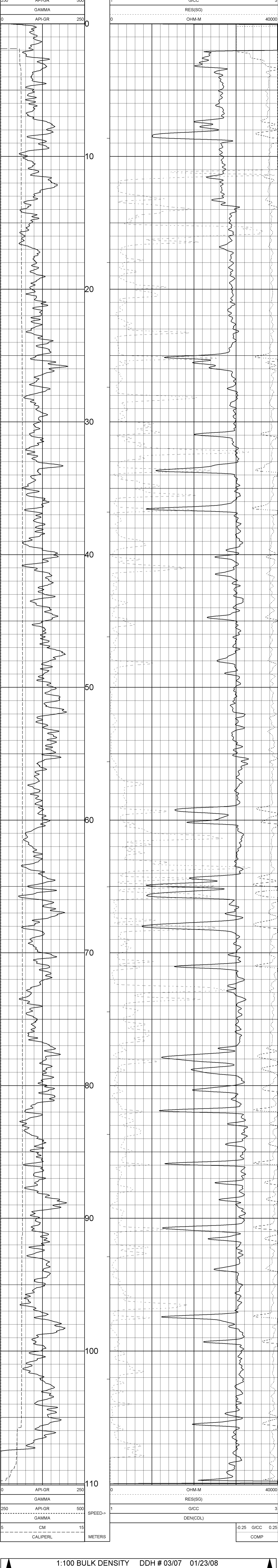


COMPANY	FIRST COAL	OTHER SERVICES
WELL	DDH # 03/07	NEUTRON
FIELD	BOULDER	
COUNTY	CANADA	
STATE	BRITISH COLUMBIA	
LOCATION	A1 LINE	
SECTION	N/A	
TOWNSHIP	N/A	
RANGE	N/A	
API NO.	N/A	
UNIQUE WELL ID.		
PERMANENT DATUM	GL	ELEVATION RG N/A
LOG MEASURED FROM	GL	ELEVATION DF N/A
DRL MEASURED FROM	GL	ELEVATION SL N/A
DATE	01/23/08	
DEPTH DRILLER	111.56	
BIT SIZE	10.16	
LOG TOP	-0.38	
LOG BOTTOM	110.07	
CASING OD	11.43	
CASING BOTTOM	4.57	
CASING TYPE	STEEL	
BOREHOLE FLUID	WATER	
RM TEMPERATURE	N/A	
MUD RES	N/A	
MUD WEIGHT	1.0	
WITNESSED BY	J. NEAL	
RECORDED BY	50 DEGREE	
REMARKS 1	AZIMUTH 230	
REMARKS 2		

1:100 BULK DENSITY DDH # 03/07 01/23/08

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21.0	ELECT. CUTOFF : 99999	BIT SIZE : 10.16
PRESENTATION NAME/DATE = 9239 PRC 2007.0 01/18/2008		VERSION = 3.64EK



1:100 BULK DENSITY DDH # 03/07 01/23/08

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21.0	ELECT. CUTOFF : 99999	BIT SIZE : 10.16
PRESENTATION NAME/DATE = 9239 PRC 2007.0 01/18/2008		VERSION = 3.64EK

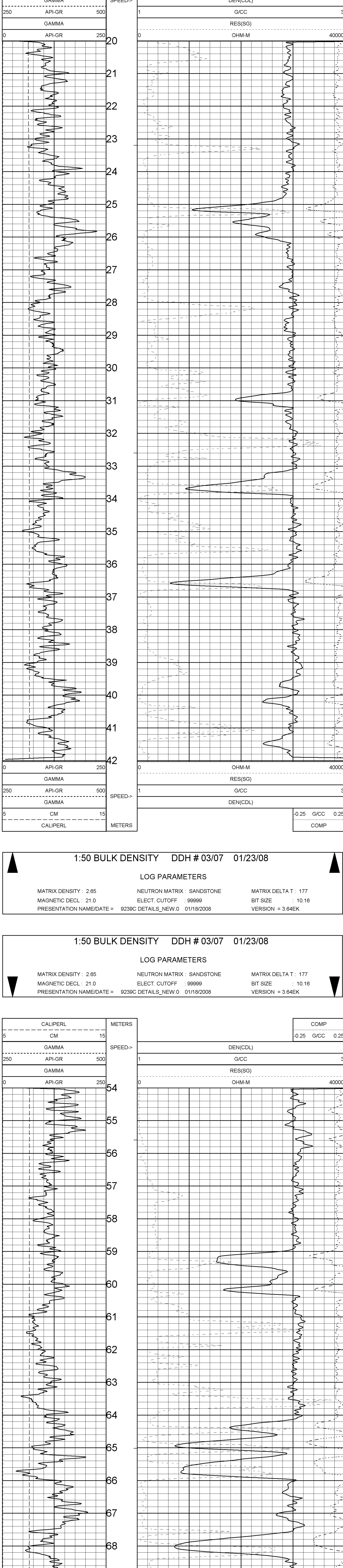
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Oct18,07 12:42:07	GAMMA	0.000 [API-GR ]	20.00 [CPS]
	Oct18,07 12:42:07	GAMMA	250.000 [API-GR ]	278.00 [CPS]
2	Aug09,08 11:09:11	VOLTAGE	0.000 [MV ]	4588.00 [CPS]
	Aug09,08 11:09:11	VOLTAGE	1987.000 [MV ]	271844.00 [CPS]
3	Aug09,08 11:09:45	CALIPER	8.890 [CM ]	176300.00 [CPS]
	Aug09,08 11:09:45	CALIPER	15.240 [CM ]	331000.00 [CPS]
4	Oct11,07 11:35:55	DEN(LS)	1.000 [G/CC ]	28937.00 [CPS]
	Oct11,07 11:35:55	DEN(LS)	2.323 [G/CC ]	48826.00 [CPS]
5	Jan20,08 07:04:24	DEN(SG)	1.000 [G/CC ]	16890.00 [CPS]
	Jan20,08 07:04:24	DEN(SG)	2.323 [G/CC ]	219880.00 [CPS]
6	May17,07 10:06:22	CALIPERL	15.750 [CM ]	304210.00 [CPS]
	May17,07 10:06:22	CALIPERL	32.200 [CM ]	5380.00 [CPS]
7	Aug09,08 11:10:56	CURRENT	0.000 [UA ]	28477.00 [CPS]
	Aug09,08 11:10:56	CURRENT	284.670 [UA ]	214750.00 [CPS]
8	Aug09,08 11:11:25	TEMP	45.550 [DEG C ]	430700.00 [CPS]
	Aug09,08 11:11:25	TEMP	9.720 [DEG C ]	
9	Aug09,08 11:08:22	X	Default	
	Aug09,08 11:08:22	X	Default	

COMPANY	FIRST COAL	OTHER SERVICES:
WELL	DDH # 03/07	NEUTRON
COUNTY	BOULDER	
STATE	CANADA	
STATE	BRITISH COLUMBIA	
LOCATION	AT LINE	
SECTION	N/A	
TOWNSHIP	N/A	
RANGE	N/A	
APNO.	N/A	
UNIQUE WELL ID.		
PERMANENT DATUM	GL	ELEVATION NB N/A
LOG MEASURED FROM GL		ELEVATION DF N/A
DATE MEASURED FROM GL		ELEVATION GI N/A
DATE	01/23/08	
DEPTH DILUER	111.56	
BIT SIZE	10.16	
LOG TOP	-30.28	
LOG BOTTOM	110.07	
CASING OD	11.43	
CASING BOTTOM	4.57	
CASING TYPE	STEEL	
ROBBERJULFUD	WATER	
ROBBERJULFUD	N/A	
ROBBERJULFUD	N/A	
MUD WEIGHT	1.0	
WITNESSED BY	J. NEAL	
RECORDED BY	50 DEGREE	
REMARKS 1	ACQUIN 230	
REMARKS 2		

1:50 BULK DENSITY DDH # 03/07 01/23/08

LOG PARAMETERS

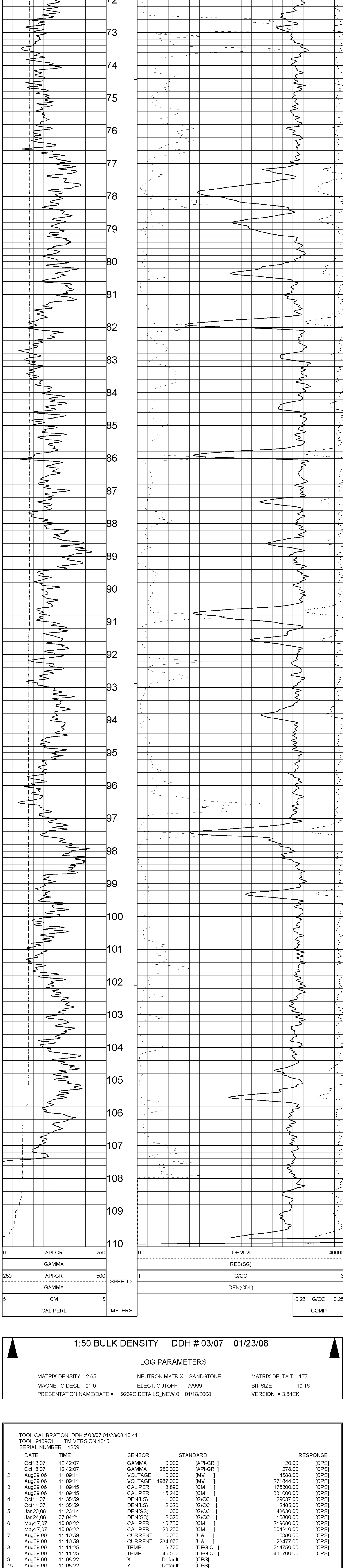
MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177  
MAGNETIC DECL : 21.0 ELECT. CUTOFF : 99999 BIT SIZE : 10.16  
PRESENTATION NAME/DATE = 9239C DETAILS\_NEW.0 01/18/2008 VERSION = 3.64EK



1:50 BULK DENSITY DDH # 03/07 01/23/08

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177  
MAGNETIC DECL : 21.0 ELECT. CUTOFF : 99999 BIT SIZE : 10.16  
PRESENTATION NAME/DATE = 9239C DETAILS\_NEW.0 01/18/2008 VERSION = 3.64EK



1:50 BULK DENSITY DDH # 03/07 01/23/08

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177  
MAGNETIC DECL : 21.0 ELECT. CUTOFF : 99999 BIT SIZE : 10.16  
PRESENTATION NAME/DATE = 9239C DETAILS\_NEW.0 01/18/2008 VERSION = 3.64EK

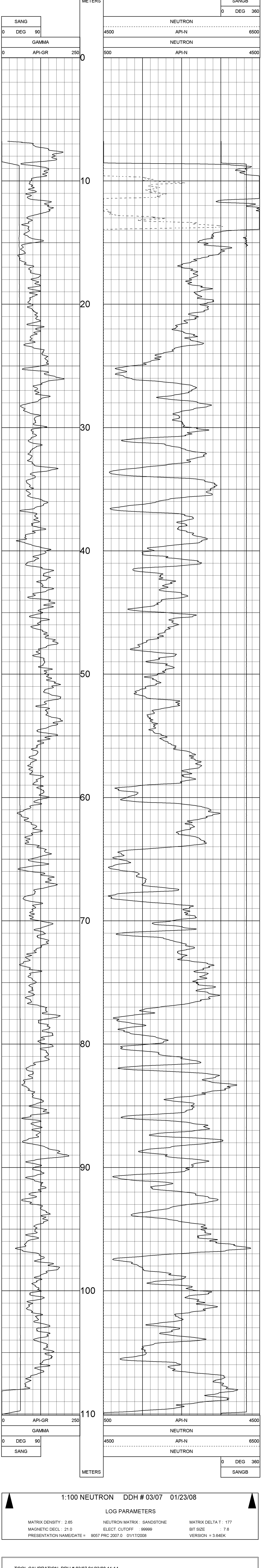
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Oct18.07 12:42:07	GAMMA	0.000 [API-GR ]	27.00 [CPS]
1	Oct18.07 12:42:07	GAMMA	250.000 [API-GR ]	208.00 [CPS]
2	Aug09.06 11:09:11	VOLTAGE	0.000 [MV ]	4588.00 [CPS]
2	Aug09.06 11:09:11	VOLTAGE	1987.000 [MV ]	271844.00 [CPS]
3	Aug09.06 11:09:45	CALIPER	8.890 [CM ]	176300.00 [CPS]
3	Aug09.06 11:09:45	CALIPER	15.240 [CM ]	331000.00 [CPS]
4	Oct11.07 11:35:59	DEN(LS)	1.000 [G/CC ]	29037.00 [CPS]
4	Oct11.07 11:35:59	DEN(LS)	2.323 [G/CC ]	2485.00 [CPS]
5	Jan20.08 11:23:14	DEN(SS)	1.000 [G/CC ]	48630.00 [CPS]
5	Jan24.08 07:04:21	DEN(SS)	2.323 [G/CC ]	16800.00 [CPS]
6	May17.07 10:06:22	CALIPERL	16.750 [CM ]	219680.00 [CPS]
6	May17.07 10:06:22	CALIPERL	23.200 [CM ]	304210.00 [CPS]
7	Aug09.06 11:10:59	CURRENT	0.000 [UA ]	5360.00 [CPS]
7	Aug09.06 11:10:59	CURRENT	284.670 [UA ]	28477.00 [CPS]
8	Aug09.06 11:11:25	TEMP	9.720 [DEG C ]	214750.00 [CPS]
8	Aug09.06 11:11:25	TEMP	45.550 [DEG C ]	430700.00 [CPS]
9	Aug09.06 11:08:22	X	Default [CPS]	
10	Aug09.06 11:08:22	Y	Default [CPS]	

COMPANY	FIRST COAL	OTHER SERVICES:
WELL	DDH # 03/07	DENSITY
FIELD	BOULDER	
COUNTRY	CANADA	
STATE	BRITISH COLUMBIA	
LOCATION	A1 LINE	
SECTION	N/A	
TOWNSHIP	N/A	
RANGE	N/A	
API NO.	N/A	
UNIQUE WELL ID.		
PERMANENT DATUM	GL	ELEVATION NS N/A
LOG MEASURED FROM	GL	ELEVATION DF N/A
DRL MEASURED FROM	GL	ELEVATION GL N/A
DATE	07/23/08	
DEPTH DRILLER	:111.56	
BIT SIZE	7.6	
LOG TOP	8.78	
LOG BOTTOM	:110.05	
CASING OD	:11.43	
CASING BOTTOM	4.57	
CASING TYPE	STEEL	
BOREHOLE FLUID	WATER	
RM TEMPERATURE	N/A	
MUD RES	N/A	
MUD WEIGHT	1.0	
WITNESSED BY	JT NEAL	
RECORDED BY		
REMARKS 1	50 DEGREE	
REMARKS 2	AZIMUTH 230	

**1:100 NEUTRON DDH # 03/07 01/23/08**

**LOG PARAMETERS**

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
 MAGNETIC DECL : 21.0      ELECT. CUTOFF : 99999      BIT SIZE : 7.6  
 PRESENTATION NAME/DATE = 9057 PRC 2007.0 01/17/2008      VERSION = 3.64EK



**1:100 NEUTRON DDH # 03/07 01/23/08**

**LOG PARAMETERS**

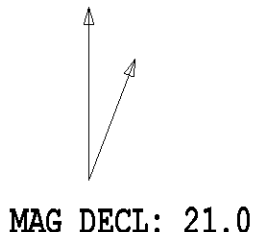
MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
 MAGNETIC DECL : 21.0      ELECT. CUTOFF : 99999      BIT SIZE : 7.6  
 PRESENTATION NAME/DATE = 9057 PRC 2007.0 01/17/2008      VERSION = 3.64EK

**TOOL CALIBRATION DDH # 03/07 01/23/08 11:14**  
 TOOL 9057A TM VERSION 5500  
 SERIAL NUMBER 4429

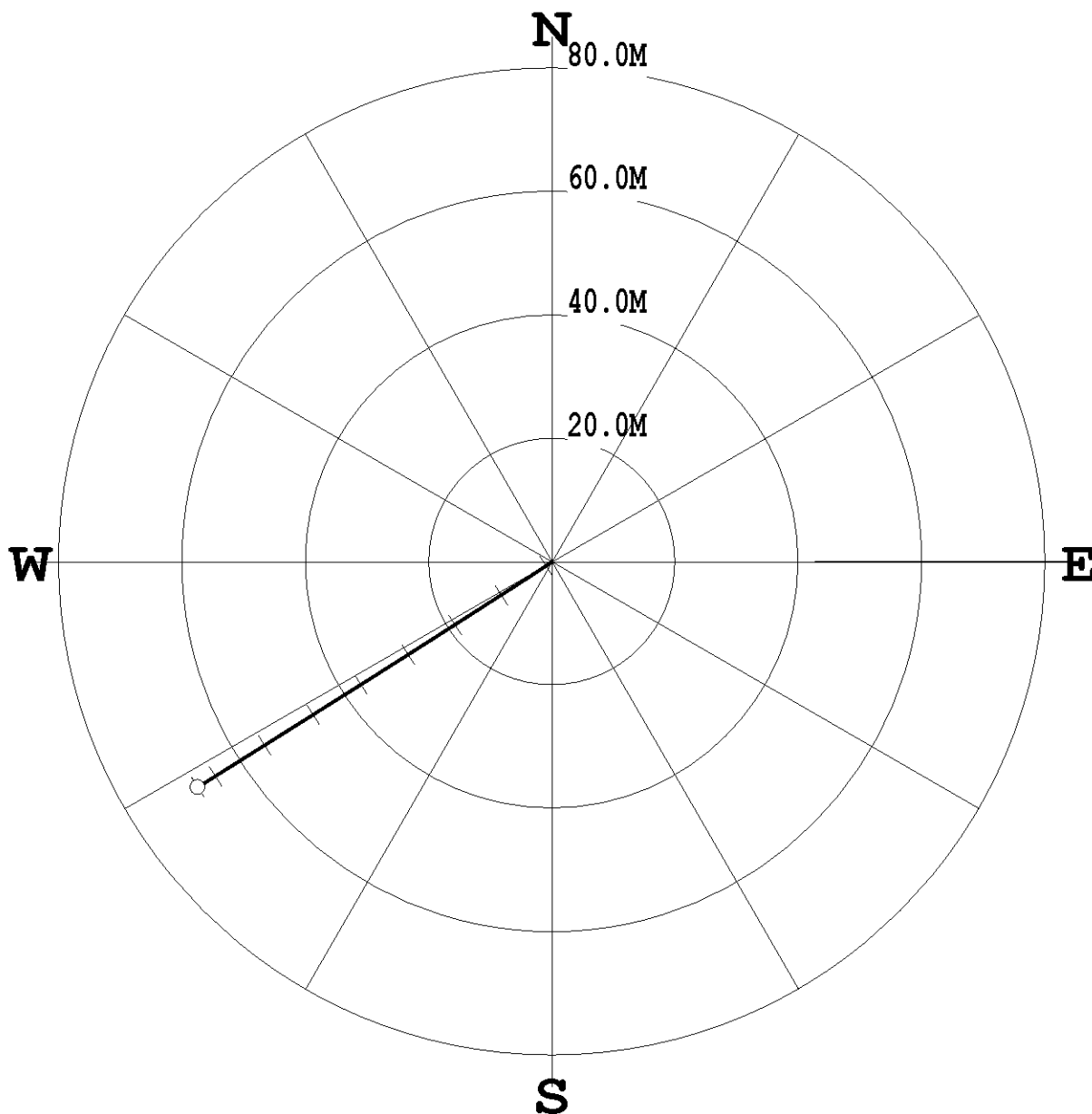
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Jul02.07 06:48:29	GAMMA	0.000 [API-GR ]	4.00 [CPS]
	Jul02.07 06:48:29	GAMMA	320.000 [API-GR ]	322.00 [CPS]
2	Jun27.07 04:18:03	NEUTROI	Default [CPS]	Default [CPS]
	Jun27.07 04:18:03	NEUTROI	Default [CPS]	Default [CPS]
3	Jul02.07 06:38:12	SP	0.000 [MV ]	340672.00 [CPS]
	Jul02.07 06:38:12	SP	357.000 [MV ]	171410.00 [CPS]
4	Jul10.07 04:41:27	RES(16N)	0.000 [OHM-M ]	5464.00 [CPS]
	Jul10.07 04:41:27	RES(16N)	1996.000 [OHM-M ]	422317.00 [CPS]
5	Jun27.07 04:27:01	RES(64N)	0.000 [OHM-M ]	4823.00 [CPS]
	Jun27.07 04:27:01	RES(64N)	1990.000 [OHM-M ]	418052.00 [CPS]
6	Jul02.07 06:45:45	TEMP	52.600 [DEG F ]	341402.00 [CPS]
	Jul02.07 06:45:45	TEMP	113.100 [DEG F ]	387139.00 [CPS]
7	Jul10.07 04:42:24	RES	0.000 [OHM ]	4956.00 [CPS]
	Jul10.07 04:42:24	RES	989.000 [OHM ]	162246.00 [CPS]

# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: FIRST COAL  
 LOCATION: BOULDER  
 HOLE ID: DDH # 03/07  
 DATE OF LOG: 01/23/08  
 PROBE: 9057A 4429



SCALE: 10 M/CM  
 TRUE DEPTH: 83.55 M  
 AZIMUTH: 237.6  
 DISTANCE: 68.0 M  
 + = 10 M INCR  
 ○ = BOTTOM OF HOLE



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

CLIENT : FIRST COAL	HOLE ID. : DDH # 03/07	
FIELD OFFICE : CENTURY GEO	DATE OF LOG : 01/23/08	
DATA FROM : N/A	PROBE : 9057A , 4429	
MAG. DECL. : 21.000	DEPTH UNITS : METERS	
LOG: DDH#03-07_01-23-08_11-14_9057A_.02_6.78_110.05_DEVI.log		

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
8.62	8.62	-0.01	-0.01	0.0	236.1	41.4	236.1
10.00	9.66	-0.50	-0.76	0.9	236.6	40.7	236.5
12.00	11.18	-1.22	-1.85	2.2	236.6	40.5	234.5
14.00	12.69	-1.93	-2.94	3.5	236.7	40.8	235.9
16.00	14.20	-2.63	-3.98	4.8	236.6	41.2	237.5
18.00	15.71	-3.34	-5.09	6.1	236.8	41.2	237.3
20.00	17.21	-4.05	-6.20	7.4	236.8	41.3	237.6
22.00	18.71	-4.76	-7.31	8.7	236.9	41.4	237.5
24.00	20.21	-5.48	-8.43	10.1	237.0	41.5	237.4
26.00	21.71	-6.20	-9.54	11.4	237.0	41.5	236.9
28.00	23.21	-6.91	-10.66	12.7	237.0	41.6	237.6
30.00	24.70	-7.63	-11.78	14.0	237.1	41.7	237.2
32.00	26.20	-8.35	-12.90	15.4	237.1	41.7	237.7
34.00	27.69	-9.07	-14.01	16.7	237.1	41.7	237.2
36.00	29.18	-9.79	-15.14	18.0	237.1	41.8	237.2
38.00	30.67	-10.50	-16.26	19.4	237.1	41.8	237.5
40.00	32.16	-11.22	-17.39	20.7	237.2	41.8	237.3
42.00	33.65	-11.94	-18.51	22.0	237.2	41.8	237.0
44.00	35.14	-12.66	-19.63	23.4	237.2	42.0	237.2
46.00	36.62	-13.38	-20.76	24.7	237.2	42.0	237.6
48.00	38.11	-14.10	-21.89	26.0	237.2	42.0	237.3
50.00	39.59	-14.82	-23.02	27.4	237.2	42.1	237.8
52.00	41.08	-15.54	-24.15	28.7	237.2	42.0	237.4
54.00	42.56	-16.26	-25.28	30.1	237.3	42.1	238.0
56.00	44.05	-16.98	-26.42	31.4	237.3	42.1	237.3
58.00	45.53	-17.70	-27.55	32.7	237.3	42.2	237.3
60.00	47.01	-18.42	-28.69	34.1	237.3	42.3	237.8
62.00	48.49	-19.14	-29.82	35.4	237.3	42.3	237.3
64.00	49.97	-19.86	-30.97	36.8	237.3	42.4	237.7
66.00	51.44	-20.57	-32.11	38.1	237.3	42.4	238.0
68.00	52.92	-21.29	-33.25	39.5	237.4	42.5	238.3
70.00	54.39	-22.01	-34.39	40.8	237.4	42.5	238.1
72.00	55.87	-22.73	-35.54	42.2	237.4	42.5	237.8
74.00	57.34	-23.45	-36.68	43.5	237.4	42.6	237.9
76.00	58.81	-24.17	-37.83	44.9	237.4	42.6	237.6
78.00	60.29	-24.90	-38.97	46.2	237.4	42.7	237.6
80.00	61.75	-25.62	-40.12	47.6	237.4	42.7	237.7
82.00	63.22	-26.35	-41.27	49.0	237.4	42.8	238.2
84.00	64.69	-27.07	-42.42	50.3	237.5	42.9	237.8
86.00	66.15	-27.80	-43.57	51.7	237.5	42.9	237.9
88.00	67.62	-28.52	-44.72	53.0	237.5	43.1	237.4
90.00	69.08	-29.25	-45.88	54.4	237.5	43.0	237.8
92.00	70.54	-29.97	-47.04	55.8	237.5	43.1	237.8
94.00	72.00	-30.70	-48.20	57.1	237.5	43.2	237.8
96.00	73.46	-31.43	-49.36	58.5	237.5	43.2	237.1
98.00	74.92	-32.16	-50.51	59.9	237.5	43.2	237.8
100.00	76.37	-32.89	-51.68	61.3	237.5	43.3	238.1
102.00	77.83	-33.61	-52.84	62.6	237.5	43.3	237.6
104.00	79.28	-34.34	-54.00	64.0	237.5	43.4	237.8
106.00	80.74	-35.08	-55.16	65.4	237.5	43.4	239.1
108.00	82.19	-35.81	-56.33	66.7	237.6	43.5	238.1
110.00	83.67	-36.50	-57.42	68.0	237.6	0.0	0.0
109.88	83.55	-36.50	-57.42	68.0	237.6	43.3	237.5

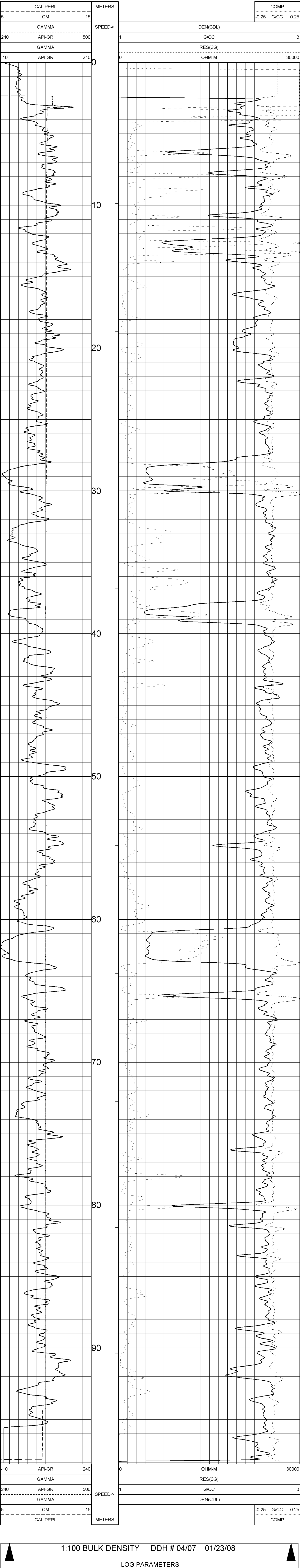


COMPANY	FIRST COAL	OTHER SERVICES:
WELL	DDH # 04/07	NEUTRON
COUNTY	BOULDER	
STATE	CANADA	
LOCATION	BRITISH COLUMBIA	
SECTION	A1 LINE	
TOWNSHIP	N/A	
RANGE	N/A	
API NO.	N/A	
UNIQUE WELL ID.	:	
PERMANENT DATUM	GL	ELEVATION KB N/A
LOG MEASURED FROM GL		ELEVATION DF N/A
DRL MEASURED FROM GL		ELEVATION GL N/A
DATE	01/23/08	
DEPTH DRILLER	98.36	
BIT SIZE	7.6	
LOG TOP	0.08	
LOG BOTTOM	98.07	
CASING OD	11.43	
CASING BOTTOM	4.57	
CASING TYPE	STEEL	
BOREHOLE FLUID	WATER	
RM TEMPERATURE	N/A	
MUD RES	N/A	
MUD WEIGHT	1.10	
WITNESSED BY	:	
RECORDED BY	J. NEAL	
REMARKS 1	50 DEGREE	
REMARKS 2	AZIMUTH 230	

1:100 BULK DENSITY DDH # 04/07 01/23/08

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177  
 MAGNETIC DECL : 21.0 ELECT. CUTOFF : 99999 BIT SIZE : 7.6  
 PRESENTATION NAME/DATE = 9239 PRC 2007.0 01/18/2008 VERSION = 3.64EK



1:100 BULK DENSITY DDH # 04/07 01/23/08

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177  
 MAGNETIC DECL : 21.0 ELECT. CUTOFF : 99999 BIT SIZE : 7.6  
 PRESENTATION NAME/DATE = 9239 PRC 2007.0 01/18/2008 VERSION = 3.64EK

TOOL CALIBRATION DDH # 04/07 01/23/08 12:02  
 TOOL 9139C1 TM VERSION 1015  
 SERIAL NUMBER 1269

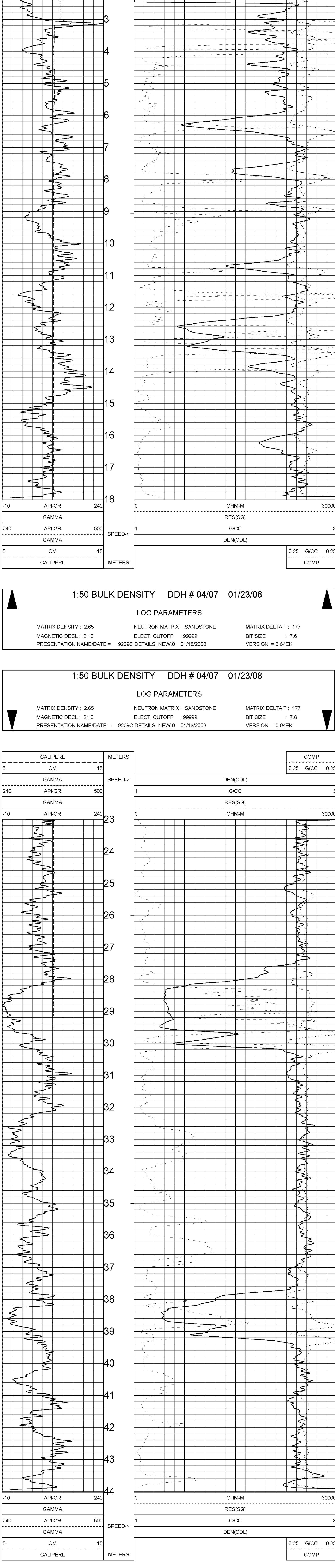
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Oct18,07 12:42:07	GAMMA	0.000 [API-GR ]	20.00 [CPS]
1	Oct18,07 12:42:07	GAMMA	250.000 [API-GR ]	278.00 [CPS]
2	Aug09,06 11:09:11	VOLTAGE	0.000 [MV ]	4588.00 [CPS]
2	Aug09,06 11:09:11	VOLTAGE	1987.000 [MV ]	271844.00 [CPS]
3	Aug09,06 11:09:45	CALIPER	8.890 [CM ]	176300.00 [CPS]
3	Aug09,06 11:09:45	CALIPER	15.240 [CM ]	331000.00 [CPS]
4	Oct11,07 11:35:59	DEN(LS)	1.000 [G/CC ]	29037.00 [CPS]
4	Oct11,07 11:35:59	DEN(LS)	2.323 [G/CC ]	2485.00 [CPS]
5	Jan20,08 11:23:14	DEN(SS)	1.000 [G/CC ]	48630.00 [CPS]
5	Jan20,08 11:23:14	DEN(SS)	2.323 [G/CC ]	20800.00 [CPS]
6	May17,07 10:06:22	CALIPER	16.750 [CM ]	219680.00 [CPS]
6	May17,07 10:06:22	CALIPER	23.200 [CM ]	304210.00 [CPS]
7	Aug09,06 11:10:59	CURRENT	0.000 [UA ]	5380.00 [CPS]
7	Aug09,06 11:10:59	CURRENT	284.670 [UA ]	28477.00 [CPS]
8	Aug09,06 11:11:25	TEMP	9.720 [DEG C ]	214750.00 [CPS]
8	Aug09,06 11:11:25	TEMP	45.550 [DEG C ]	430700.00 [CPS]
9	Aug09,06 11:08:22	X	Default [CPS]	
10	Aug09,06 11:08:22	Y	Default [CPS]	

COMPANY	FIRST COOL	OTHER SERVICES:	
WELL	DDH # 04/07	NEUTRON	
FIELD	BOULDER		
COUNTY	CANADA		
STATE	BRITISH COLUMBIA		
LOCATION	A11 LINE		
SECTION	N/A		
TOWNSHIP	N/A		
RANGE	N/A		
API NO.	N/A		
UNIQUE WELL ID			
PERMANENT DATUM	SL	ELEVATION RB N/A	
LOG MEASURED FROM SL		ELEVATION OF N/A	
DLL MEASURED FROM SL		ELEVATION GL N/A	
DATE	07/23/08		
DEPTH DRILLER	99 36		
BIT SIZE	7.6		
LOG TOP	0.08		
LOG BOTTOM	58.07		
CASING OD	11.43		
CASING BOTTOM	4.97		
CASING TYPE	STEEL		
BOREHOLE FLUID	WATER		
RM TEMPERATURE	N/A		
MUD RES	N/A		
MUD WEIGHT	1.10		
RECORDED BY	J. NEAL		
RECORDED BY	40 DEGREE		
REMARKS 1	AZIMUTH 330		
REMARKS 2			

1:50 BULK DENSITY DDH # 04/07 01/23/08

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21.0	ELECT. CUTOFF : 99999	BIT SIZE : 7.6
PRESENTATION NAME/DATE = 9239C DETAILS_NEW.0	01/18/2008	VERSION = 3.64EK



1:50 BULK DENSITY DDH # 04/07 01/23/08

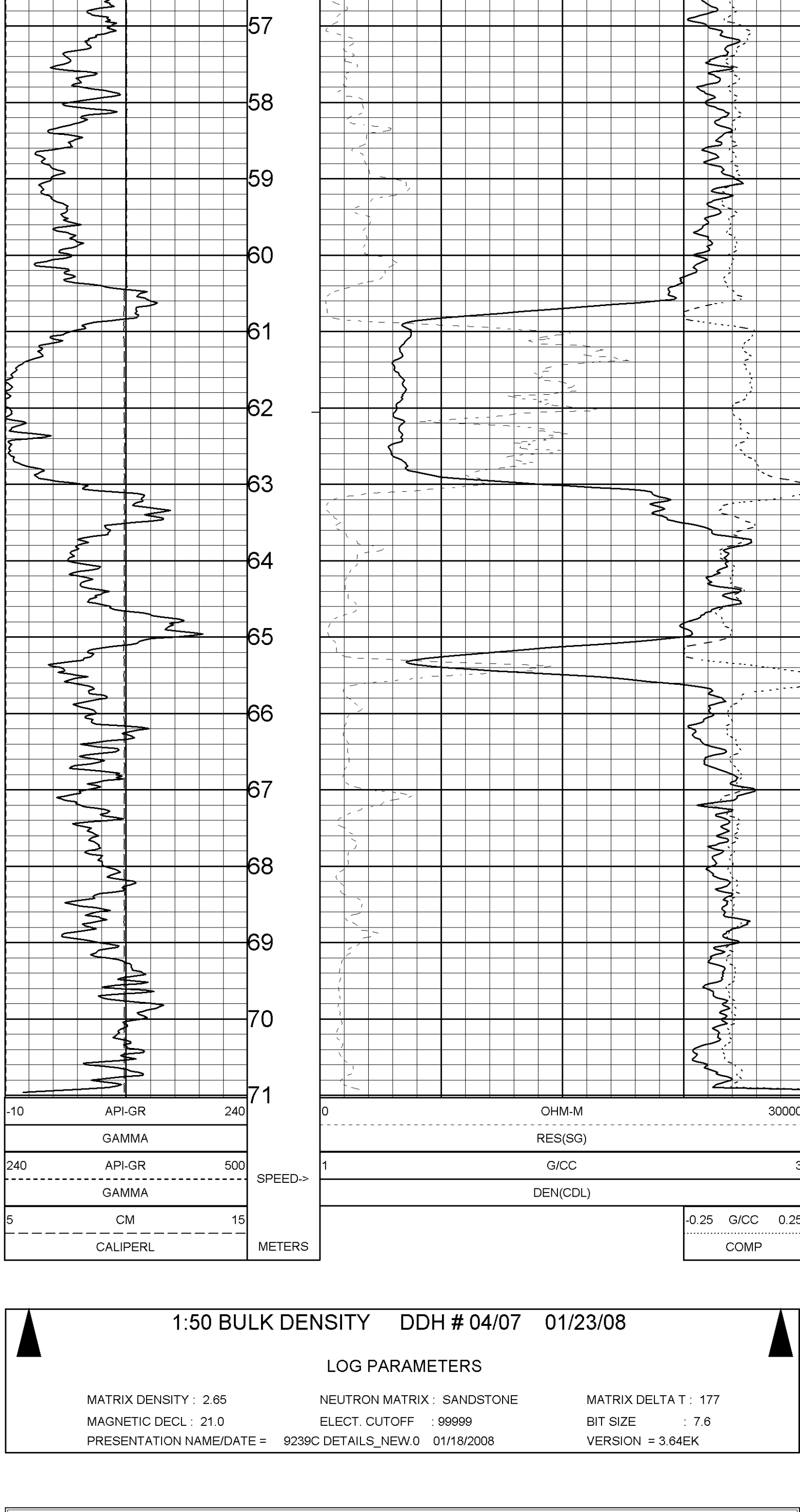
LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21.0	ELECT. CUTOFF : 99999	BIT SIZE : 7.6
PRESENTATION NAME/DATE = 9239C DETAILS_NEW.0	01/18/2008	VERSION = 3.64EK

1:50 BULK DENSITY DDH # 04/07 01/23/08

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21.0	ELECT. CUTOFF : 99999	BIT SIZE : 7.6
PRESENTATION NAME/DATE = 9239C DETAILS_NEW.0	01/18/2008	VERSION = 3.64EK



1:50 BULK DENSITY DDH # 04/07 01/23/08

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21.0	ELECT. CUTOFF : 99999	BIT SIZE : 7.6
PRESENTATION NAME/DATE = 9239C DETAILS_NEW.0	01/18/2008	VERSION = 3.64EK

1:50 BULK DENSITY DDH # 04/07 01/23/08

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21.0	ELECT. CUTOFF : 99999	BIT SIZE : 7.6
PRESENTATION NAME/DATE = 9239C DETAILS_NEW.0	01/18/2008	VERSION = 3.64EK



1:50 BULK DENSITY DDH # 04/07 01/23/08

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21.0	ELECT. CUTOFF : 99999	BIT SIZE : 7.6
PRESENTATION NAME/DATE = 9239C DETAILS_NEW.0	01/18/2008	VERSION = 3.64EK

TOOL CALIBRATION DDH # 04/07 01/23/08 12:02

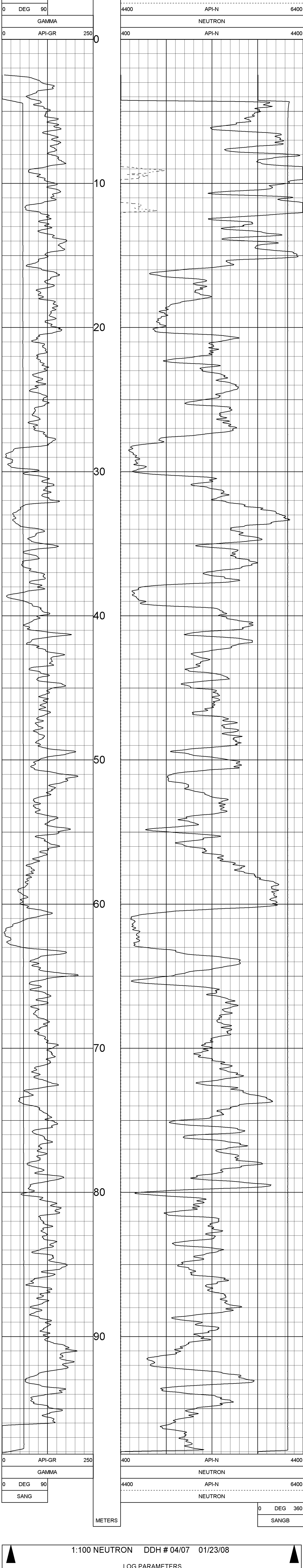
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Oct18,07	GAMMA	0.000 [API-GR ]	20.00 [CPS]
1	Oct18,07	GAMMA	250.000 [API-GR ]	278.00 [CPS]
2	Aug09,06	VOLTAGE	0.000 [MV ]	4588.00 [CPS]
2	Aug09,06	VOLTAGE	1987.000 [MV ]	271844.00 [CPS]
3	Aug09,06	CALIPER	8.890 [CM ]	176300.00 [CPS]
3	Aug09,06	CALIPER	15.240 [CM ]	331000.00 [CPS]
4	Oct11,07	DEN(LS)	1.000 [G/CC ]	29037.00 [CPS]
4	Oct11,07	DEN(LS)	2.323 [G/CC ]	2485.00 [CPS]
5	Jan20,08	DEN(SS)	1.000 [G/CC ]	48930.00 [CPS]
5	Jan20,08	DEN(SS)	2.323 [G/CC ]	20800.00 [CPS]
6	May17,07	CALIPERL	16.750 [CM ]	219880.00 [CPS]
6	May17,07	CALIPERL	23.200 [CM ]	304210.00 [CPS]
7	Aug09,06	CURRENT	0.000 [UA ]	5380.00 [CPS]
7	Aug09,06	CURRENT	284.670 [UA ]	28477.00 [CPS]
8	Aug09,06	TEMP	9.720 [DEG C ]	214750.00 [CPS]
8	Aug09,06	TEMP	45.550 [DEG C ]	430700.00 [CPS]
9	Aug09,06	X	Default [CPS]	
10	Aug09,06	Y	Default [CPS]	

COMPANY	FIRST COAL	OTHER SERVICES:
WELL	DDH # 04/07	DENSITY
FIELD	BOULDER	
COUNTY	CANADA	
STATE	BRITISH COLUMBIA	
LOCATION	A1 LINE	
SECTION	N/A	
TOWNSHIP	N/A	
RANGE	N/A	
API NO.	N/A	
UNIQUE WELL ID.	:	
PERMANENT DATUM	GL	ELEVATION KB N/A
LOG MEASURED FROM	GL	ELEVATION DF N/A
DRL MEASURED FROM	GL	ELEVATION QI N/A
DATE	01/23/08	
DEPTH DRILLER	98.36	
BIT SIZE	7.6	
LOG TOP	2.47	
LOG BOTTOM	98.11	
CASING OD	11.43	
CASING BOTTOM	4.57	
CASING TYPE	STEEL	
BOREHOLE FLUID	WATER	
RM TEMPERATURE	N/A	
MUD RES	N/A	
MUD WEIGHT	1.0	
WITNESSED BY	:	
RECORDED BY	J. NEAL	
REMARKS 1	50 DEGREE	
REMARKS 2	AZIMUTH 290	

**1:100 NEUTRON DDH # 04/07 01/23/08**

**LOG PARAMETERS**

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
 MAGNETIC DECL : 21.0      ELECT. CUTOFF : 99999      BIT SIZE : 7.6  
 PRESENTATION NAME/DATE = 9057 PRC 2007.0 01/17/2008      VERSION = 3.64EK



**1:100 NEUTRON DDH # 04/07 01/23/08**

**LOG PARAMETERS**

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
 MAGNETIC DECL : 21.0      ELECT. CUTOFF : 99999      BIT SIZE : 7.6  
 PRESENTATION NAME/DATE = 9057 PRC 2007.0 01/17/2008      VERSION = 3.64EK

TOOL CALIBRATION DDH # 04/07 01/23/08 11:40  
 TOOL 9057A TM VERSION 5500  
 SERIAL NUMBER 4429

DATE	TIME	SENSOR	STANDARD	RESPONSE
Jul02,07	06:48:29	GAMMA	0.000 [API-GR ]	4.00 [CPS]
Jul02,07	06:48:29	GAMMA	320.000 [API-GR ]	322.00 [CPS]
Jun27,07	04:18:03	NEUTRON	Default [CPS]	Default [CPS]
Jun27,07	04:18:03	NEUTRON	Default [CPS]	Default [CPS]
Jul02,07	06:38:12	SP	0.000 [MV ]	340672.00 [CPS]
Jul02,07	06:38:12	SP	357.000 [MV ]	171410.00 [CPS]
Jul10,07	04:41:27	RES(16N)	0.000 [OHM-M ]	5464.00 [CPS]
Jul10,07	04:41:27	RES(16N)	1996.000 [OHM-M ]	422317.00 [CPS]
Jun27,07	04:27:01	RES(64N)	0.000 [OHM-M ]	4823.00 [CPS]
Jun27,07	04:27:01	RES(64N)	1990.000 [OHM-M ]	418052.00 [CPS]
Jul02,07	06:45:45	TEMP	52.600 [DEG F ]	341402.00 [CPS]
Jul02,07	06:45:45	TEMP	113.100 [DEG F ]	387139.00 [CPS]
Jul10,07	04:42:24	RES	0.000 [OHM ]	4956.00 [CPS]
Jul10,07	04:42:24	RES	989.000 [OHM ]	162246.00 [CPS]

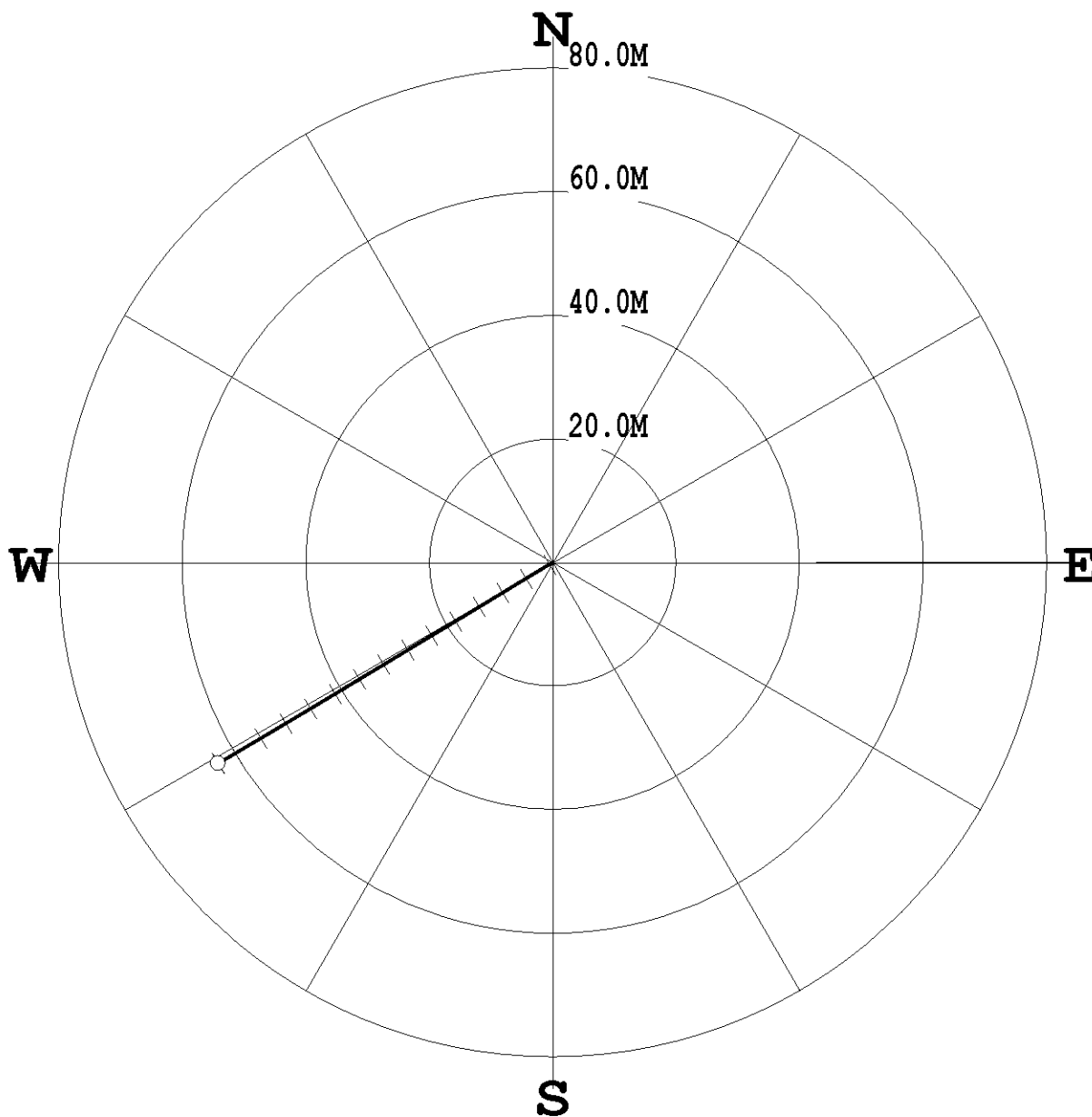
# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: FIRST COAL  
 LOCATION: BOULDER  
 HOLE ID: DDH # 04/07  
 DATE OF LOG: 01/23/08  
 PROBE: 9057A 4429



MAG DECL: 21.0

SCALE: 10 M/CM  
 TRUE DEPTH: 73.41 M  
 AZIMUTH: 239.1  
 DISTANCE: 63.2 M  
 + = 5 M INCR  
 ○ = BOTTOM OF HOLE



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

CLIENT	: FIRST COAL	HOLE ID.	: DDH # 04/07
FIELD OFFICE	: CENTURY GEO	DATE OF LOG	: 01/23/08
DATA FROM	: N/A	PROBE	: 9057A , 4429
MAG. DECL.	: 21.000	DEPTH UNITS	: METERS
LOG: DDH#04-07_01-23-08_11-40_9057A_.02_2.47_98.11_DEVI.log			

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
4.32	4.30	-0.00	-0.01	0.0	256.6	41.6	256.6
6.00	5.56	-0.52	-1.00	1.1	242.7	41.5	240.0
8.00	7.06	-1.19	-2.14	2.4	240.9	41.5	238.9
10.00	8.56	-1.87	-3.28	3.8	240.2	41.5	238.8
12.00	10.06	-2.56	-4.41	5.1	239.9	41.5	238.6
14.00	11.55	-3.25	-5.54	6.4	239.6	41.6	238.8
16.00	13.05	-3.93	-6.68	7.8	239.5	41.6	238.9
18.00	14.55	-4.62	-7.81	9.1	239.4	41.6	239.7
20.00	16.04	-5.31	-8.95	10.4	239.3	41.6	238.8
22.00	17.54	-6.00	-10.08	11.7	239.2	41.6	238.7
24.00	19.03	-6.69	-11.22	13.1	239.2	41.7	238.9
26.00	20.52	-7.38	-12.36	14.4	239.2	41.8	238.8
28.00	22.02	-8.07	-13.50	15.7	239.1	41.7	238.7
30.00	23.51	-8.76	-14.64	17.1	239.1	41.8	238.6
32.00	25.00	-9.45	-15.78	18.4	239.1	41.8	238.7
34.00	26.49	-10.14	-16.92	19.7	239.1	41.9	239.0
36.00	27.97	-10.83	-18.07	21.1	239.1	42.0	239.0
38.00	29.46	-11.52	-19.22	22.4	239.1	42.0	239.1
40.00	30.94	-12.21	-20.36	23.7	239.1	42.1	238.9
42.00	32.43	-12.90	-21.51	25.1	239.0	42.1	238.9
44.00	33.91	-13.59	-22.66	26.4	239.0	42.2	238.9
46.00	35.39	-14.29	-23.81	27.8	239.0	42.2	238.8
48.00	36.87	-14.98	-24.97	29.1	239.0	42.3	238.9
50.00	38.35	-15.68	-26.12	30.5	239.0	42.3	238.8
52.00	39.83	-16.38	-27.27	31.8	239.0	42.4	239.0
54.00	41.30	-17.07	-28.43	33.2	239.0	42.5	239.0
56.00	42.78	-17.77	-29.58	34.5	239.0	42.5	238.9
58.00	44.25	-18.47	-30.74	35.9	239.0	42.6	239.7
60.00	45.73	-19.17	-31.90	37.2	239.0	42.6	238.9
62.00	47.20	-19.86	-33.06	38.6	239.0	42.6	239.2
64.00	48.67	-20.56	-34.22	39.9	239.0	42.7	239.0
66.00	50.14	-21.26	-35.38	41.3	239.0	42.7	239.0
68.00	51.61	-21.96	-36.55	42.6	239.0	42.7	239.1
70.00	53.08	-22.66	-37.71	44.0	239.0	42.8	238.8
72.00	54.55	-23.36	-38.87	45.4	239.0	42.9	239.4
74.00	56.01	-24.06	-40.04	46.7	239.0	43.0	239.3
76.00	57.47	-24.76	-41.22	48.1	239.0	43.1	239.3
78.00	58.93	-25.46	-42.39	49.4	239.0	43.0	239.0
80.00	60.39	-26.16	-43.56	50.8	239.0	43.1	239.3
82.00	61.85	-26.86	-44.74	52.2	239.0	43.3	239.4
84.00	63.31	-27.56	-45.92	53.6	239.0	43.4	239.5
86.00	64.76	-28.26	-47.10	54.9	239.0	43.5	239.6
88.00	66.21	-28.96	-48.29	56.3	239.1	43.5	239.6
90.00	67.66	-29.65	-49.47	57.7	239.1	43.6	239.6
92.00	69.11	-30.35	-50.66	59.1	239.1	43.5	239.0
94.00	70.56	-31.05	-51.85	60.4	239.1	43.6	238.9
96.00	72.01	-31.75	-53.04	61.8	239.1	43.7	239.6
98.00	73.47	-32.43	-54.20	63.2	239.1	0.0	0.0
97.94	73.41	-32.43	-54.20	63.2	239.1	43.7	239.6



COMPANY	FIRST COAL	OTHER SERVICES
WELL	DDH # 05/07	NEUTRON
FIELD	BOULDER	
COUNTY	CANADA	
STATE	BRITISH COLUMBIA	

LOCATION	AT LINE
SECTION	N/A
TOWNSHIP	N/A
RANGE	N/A
API NO.	N/A
UNIQUE WELL ID.	

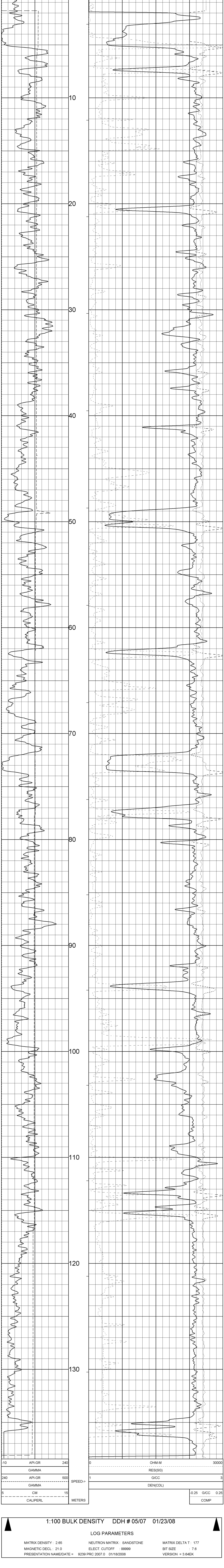
PERMANENT DATUM	GL	ELEVATION M/N/A
LOG MEASURED FROM	GL	ELEVATION OF N/A
DITL MEASURED FROM	GL	ELEVATION GL N/A

DATE	01/23/08
DEPTH DRILLER	14092
BIT SIZE	7.5
LOG TOP	-0.45
LOG BOTTOM	-138.42
CASING OD	1143
CASING BOTTOM	4.57
CASING TYPE	STEEL
BOREHOLE FLUID	WATER
RIM TEMPERATURE	N/A
MUD RES	N/A
MUD WEIGHT	1.0
WITNESSED BY	J. NEAL
RECORDED BY	
REMARKS 1	50 DEGREE
REMARKS 2	AZIMUTH 230

1:100 BULK DENSITY DDH # 05/07 01/23/08

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21.0	ELECT. CUTOFF : 99999	BIT SIZE : 7.6
PRESENTATION NAME/DATE = 9239 PRC 2007.0 01/18/2008		VERSION = 3.64EK



1:100 BULK DENSITY DDH # 05/07 01/23/08

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21.0	ELECT. CUTOFF : 99999	BIT SIZE : 7.6
PRESENTATION NAME/DATE = 9239 PRC 2007.0 01/18/2008		VERSION = 3.64EK

DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Oct18,07 12:42:07	GAMMA	0.000 [API-GR ]	27.00 [CPS]
	Oct18,07 12:42:07	GAMMA	250.000 [API-GR ]	278.00 [CPS]
2	Aug09,06 11:09:11	VOLTAGE	0.000 [MV ]	4588.00 [CPS]
	Aug09,06 11:09:11	VOLTAGE	1987.000 [MV ]	271844.00 [CPS]
3	Aug09,06 11:09:45	CALIPER	8.890 [CM ]	176300.00 [CPS]
	Aug09,06 11:09:45	CALIPER	15.240 [CM ]	331000.00 [CPS]
	Oct11,07 11:35:59	DEN(LS)	1.000 [G/CC ]	29037.00 [CPS]
	Oct11,07 11:35:59	DEN(LS)	2.323 [G/CC ]	2485.00 [CPS]
4	Jan20,08 11:10:59	DEN(SS)	1.000 [G/CC ]	48630.00 [CPS]
	Jan20,08 11:10:59	DEN(SS)	2.323 [G/CC ]	20800.00 [CPS]
5	Aug09,06 11:10:59	CALIPERL	16.750 [CM ]	219680.00 [CPS]
	Aug09,06 11:10:59	CALIPERL	23.200 [CM ]	304210.00 [CPS]
6	May17,07 10:06:22	CURRENT	0.000 [UA ]	5380.00 [CPS]
	May17,07 10:06:22	CURRENT	284.670 [UA ]	32877.00 [CPS]
7	Aug09,06 11:11:25	TEMP	9.720 [DEG C ]	214750.00 [CPS]
	Aug09,06 11:11:25	TEMP	45.550 [DEG C ]	430700.00 [CPS]
8	Aug09,06 11:08:22	X	Default [CPS]	
9				
10				



COMPANY: FIRST COAL  
WELL: DDH # 05/07  
COUNTY: BOULDER  
STATE: CANADA  
OTHER SERVICES: DENSITY

LOCATION: BRITISH COLUMBIA  
SECTION: AT LINE  
TOWNSHIP: N/A  
RANGE: N/A  
APN NO.: N/A

PERMANENT DATUM: GL  
LOG MEASURED FROM: GL  
DRL MEASURED FROM: GL  
UNIQUE WELL ID: ELEVATION TB N/A  
ELEVATION DF N/A  
ELEVATION GL N/A

DATE: 01/23/08  
DEPTH DRILLER: 7.8  
BIT SIZE: 140.92  
LOG TOP: 5.96  
LOG BOTTOM: 137.31  
CASING OD: 11.43  
CASING BOTTOM: 4.57

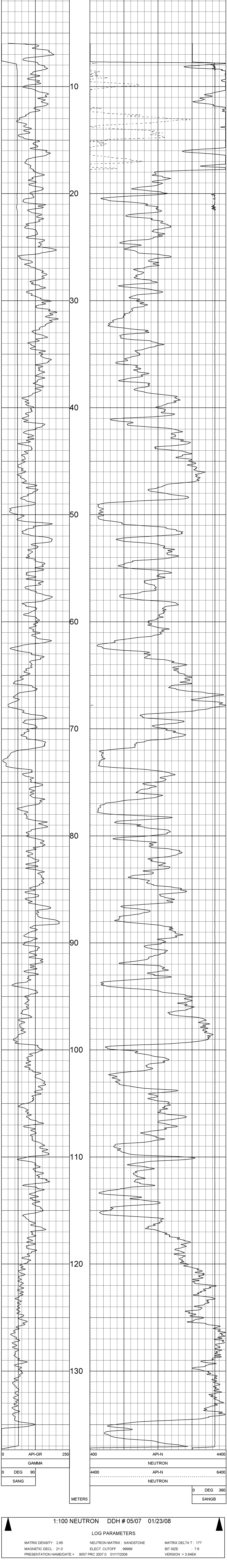
CASING TYPE: STEEL  
BOREHOLE FLUID: WATER  
RIM TEMPERATURE: N/A  
MUD RES: 1.0  
MUD WEIGHT: 1.0  
WITNESSED BY: T. NEAL  
RECORDED BY: 50 DEGREE  
REMARKS 1: AZIMUTH 230  
REMARKS 2:

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS.

**1:100 NEUTRON DDH # 05/07 01/23/08**

**LOG PARAMETERS**

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177  
MAGNETIC DECL : 21.0 ELECT. CUTOFF : 99999 BIT SIZE : 7.6  
PRESENTATION NAME/DATE = 9057 PRC 2007.0 01/17/2008 VERSION = 3.64EK



**1:100 NEUTRON DDH # 05/07 01/23/08**

**LOG PARAMETERS**

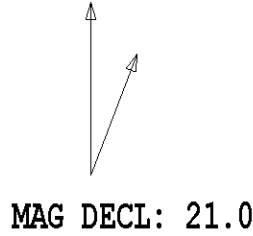
MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177  
MAGNETIC DECL : 21.0 ELECT. CUTOFF : 99999 BIT SIZE : 7.6  
PRESENTATION NAME/DATE = 9057 PRC 2007.0 01/17/2008 VERSION = 3.64EK

TOOL CALIBRATION DDH # 05/07 01/23/08 13:03  
TOOL 9057A TM VERSION 5500  
SERIAL NUMBER 4429

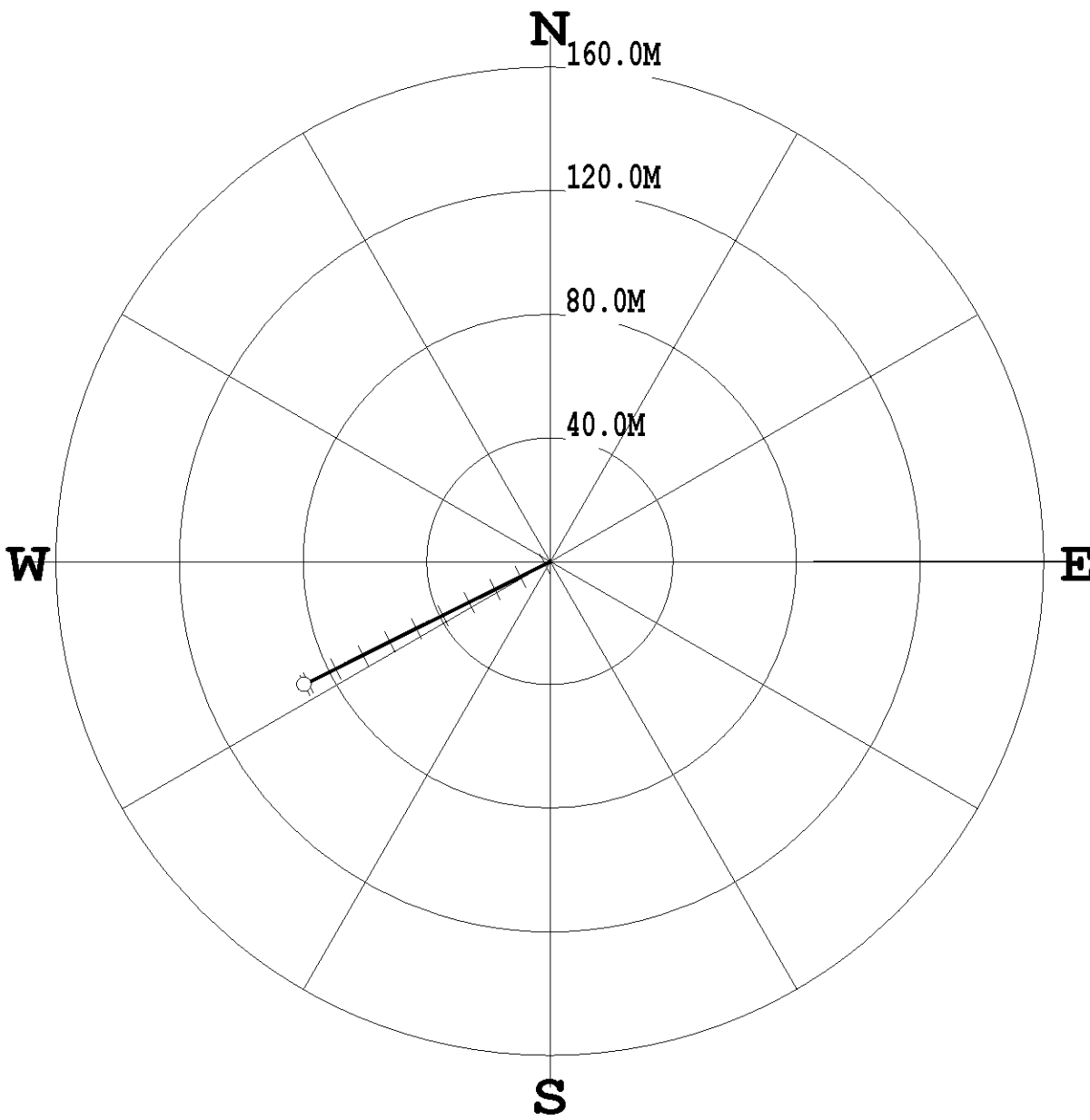
DATE	TIME	SENSOR	STANDARD	RESPONSE
Jul02,07	06:48:29	GAMMA	0.000 [API-GR ]	4.00 [CPS]
Jul02,07	06:48:29	GAMMA	320.000 [API-GR ]	322.00 [CPS]
Jun27,07	04:18:03	NEUTROI	Default [CPS]	Default [CPS]
Jun27,07	04:18:03	NEUTROI	Default [CPS]	Default [CPS]
Jul02,07	06:38:12	SP	0.000 [MV ]	340672.00 [CPS]
Jul02,07	06:38:12	SP	357.000 [MV ]	171410.00 [CPS]
Jul10,07	04:41:27	RES(16N)	0.000 [OHM-M ]	5464.00 [CPS]
Jul10,07	04:41:27	RES(16I)	1996.000 [OHM-M ]	422317.00 [CPS]
Jun27,07	04:27:01	RES(64N)	0.000 [OHM-M ]	4823.00 [CPS]
Jun27,07	04:27:01	RES(64I)	1990.000 [OHM-M ]	341402.00 [CPS]
Jul02,07	06:45:45	TEMP	52.600 [DEG F ]	387139.00 [CPS]
Jul02,07	06:45:45	TEMP	113.100 [DEG F ]	4956.00 [CPS]
Jul10,07	04:42:24	RES	0.000 [OHM ]	1925.00 [CPS]
Jul10,07	04:42:24	RES	989.000 [OHM ]	162246.00 [CPS]

# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: FIRST COAL  
 LOCATION: BOULDER  
 HOLE ID: DDH # 05/07  
 DATE OF LOG: 01/23/08  
 PROBE: 9057A 4429



SCALE: 20 M/CM  
 TRUE DEPTH: 101.44 M  
 AZIMUTH: 243.4  
 DISTANCE: 89.0 M  
 + = 10 M INCR  
 ○ = BOTTOM OF HOLE



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

CLIENT : FIRST COAL HOLE ID. : DDH # 05/07  
 FIELD OFFICE : CENTURY GEO DATE OF LOG : 01/23/08  
 DATA FROM : N/A PROBE : 9057A , 4429  
 MAG. DECL. : 21.000 DEPTH UNITS : METERS  
 LOG: DDH#05-07\_01-23-08\_13-03\_9057A\_.02\_5.96\_137.31\_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
7.78	7.77	-0.00	-0.01	0.0	249.1	42.1	249.1
8.00	7.94	-0.07	-0.10	0.1	235.1	39.1	262.4
10.00	9.43	-0.64	-1.24	1.4	242.7	41.9	243.3
12.00	10.91	-1.24	-2.45	2.7	243.1	42.0	243.6
14.00	12.40	-1.84	-3.65	4.1	243.3	42.2	243.4
16.00	13.88	-2.44	-4.85	5.4	243.3	42.3	243.5
18.00	15.35	-3.04	-6.06	6.8	243.4	42.4	243.5
20.00	16.83	-3.64	-7.27	8.1	243.4	42.5	245.9
22.00	18.32	-4.21	-8.30	9.3	243.1	42.4	243.3
24.00	19.79	-4.81	-9.51	10.7	243.2	42.5	242.4
26.00	21.27	-5.42	-10.72	12.0	243.2	42.6	243.2
28.00	22.74	-6.02	-11.93	13.4	243.2	42.6	244.0
30.00	24.22	-6.63	-13.14	14.7	243.2	42.6	242.9
32.00	25.69	-7.24	-14.35	16.1	243.2	42.6	244.0
34.00	27.16	-7.84	-15.56	17.4	243.2	42.7	243.1
36.00	28.63	-8.45	-16.77	18.8	243.3	42.7	243.5
38.00	30.10	-9.06	-17.98	20.1	243.3	42.8	243.6
40.00	31.57	-9.66	-19.20	21.5	243.3	42.8	243.7
42.00	33.03	-10.27	-20.42	22.9	243.3	42.9	243.4
44.00	34.50	-10.88	-21.64	24.2	243.3	43.0	243.8
46.00	35.96	-11.48	-22.86	25.6	243.3	43.1	244.2
48.00	37.42	-12.09	-24.08	26.9	243.4	43.2	243.8
50.00	38.88	-12.69	-25.31	28.3	243.4	43.3	243.7
52.00	40.33	-13.30	-26.54	29.7	243.4	43.3	242.9
54.00	41.79	-13.91	-27.77	31.1	243.4	43.3	243.6
56.00	43.24	-14.52	-29.00	32.4	243.4	43.4	243.4
58.00	44.70	-15.13	-30.23	33.8	243.4	43.4	243.6
60.00	46.15	-15.74	-31.46	35.2	243.4	43.5	243.6
62.00	47.60	-16.36	-32.69	36.6	243.4	43.5	244.0
64.00	49.05	-16.97	-33.93	37.9	243.4	43.5	243.3
66.00	50.50	-17.58	-35.16	39.3	243.4	43.6	243.8
68.00	51.95	-18.19	-36.40	40.7	243.4	43.7	243.8
70.00	53.39	-18.80	-37.64	42.1	243.5	43.8	244.0
72.00	54.84	-19.41	-38.88	43.5	243.5	43.7	243.9
74.00	56.28	-20.03	-40.12	44.8	243.5	43.8	243.8
76.00	57.73	-20.64	-41.36	46.2	243.5	43.8	243.4
78.00	59.17	-21.26	-42.60	47.6	243.5	43.8	243.6
80.00	60.61	-21.87	-43.84	49.0	243.5	43.8	243.8
82.00	62.06	-22.48	-45.08	50.4	243.5	43.8	243.7
84.00	63.50	-23.10	-46.32	51.8	243.5	43.9	243.6
86.00	64.94	-23.72	-47.56	53.1	243.5	43.9	243.9
88.00	66.38	-24.34	-48.80	54.5	243.5	43.8	243.3
90.00	67.82	-24.96	-50.04	55.9	243.5	44.0	243.7
92.00	69.26	-25.58	-51.29	57.3	243.5	44.0	243.7
94.00	70.70	-26.20	-52.53	58.7	243.5	44.0	243.5
96.00	72.14	-26.82	-53.77	60.1	243.5	44.1	243.8
98.00	73.58	-27.44	-55.02	61.5	243.5	44.1	243.5
100.00	75.01	-28.06	-56.26	62.9	243.5	44.2	245.3
102.00	76.45	-28.68	-57.51	64.3	243.5	44.3	243.5
104.00	77.88	-29.31	-58.76	65.7	243.5	44.2	243.8
106.00	79.31	-29.93	-60.01	67.1	243.5	44.3	243.3
108.00	80.74	-30.56	-61.26	68.5	243.5	44.3	243.5
110.00	82.17	-31.19	-62.50	69.9	243.5	44.3	243.2
112.00	83.60	-31.82	-63.75	71.3	243.5	44.4	242.9
114.00	85.03	-32.45	-65.00	72.6	243.5	44.4	243.2
116.00	86.46	-33.08	-66.25	74.0	243.5	44.4	243.0
118.00	87.89	-33.71	-67.50	75.4	243.5	44.5	242.9
120.00	89.32	-34.35	-68.75	76.9	243.5	44.5	243.3
122.00	90.74	-34.98	-70.00	78.3	243.4	44.7	243.1
124.00	92.16	-35.62	-71.26	79.7	243.4	44.8	243.3
126.00	93.58	-36.25	-72.51	81.1	243.4	44.8	243.0
128.00	95.00	-36.89	-73.77	82.5	243.4	45.0	243.3
130.00	96.41	-37.53	-75.04	83.9	243.4	45.1	243.3
132.00	97.82	-38.16	-76.31	85.3	243.4	45.2	243.6
134.00	99.23	-38.80	-77.57	86.7	243.4	45.2	243.1
136.00	100.64	-39.44	-78.84	88.2	243.4	45.2	243.3
137.14	101.44	-39.80	-79.57	89.0	243.4	45.2	243.3

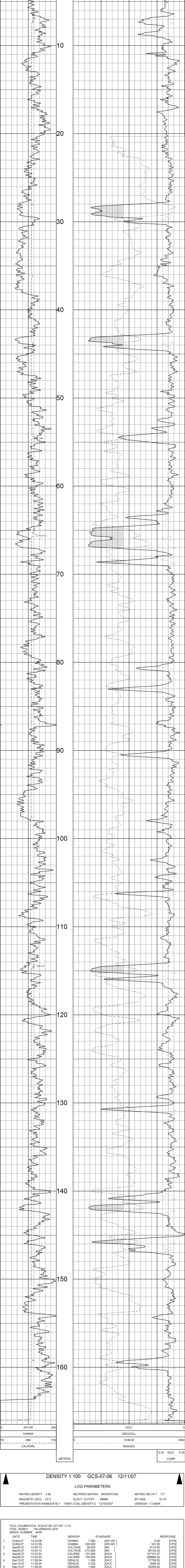


		<b>GAMMA - CALIPER - RESISTIVITY COMPENSATED DENSITY</b> GCS-07-06	
century-geo.com		OTHER SERVICES: DEVI	
COMPANY	FIRST COAL		
WELL	GCS-07-06		
COUNTRY	CANADA		
PROVINCE	BRITISH COLUMBIA		
LOCATION			
SECTION	N/A		
TOWNSHIP	N/A		
RANGE	N/A		
API NO.	N/A		
UNIQUE WELL ID			
PERMANENT DATUM	GL	ELEVATION KB	N/A
LOG MEASURED FROM	GL	ELEVATION DE	N/A
DRL MEASURED FROM	GL	ELEVATION QI	N/A
DATE	12/11/07		
DEPTH DRILLER	187.6		
BIT SIZE	10.16		
LOG TOP	0.47		
LOG BOTTOM	189.44		
CASING OD	7.62		
CASING BOTTOM	5		
CASING TYPE	STEEL		
BOREHOLE FLUID	WATER		
RHM TEMPERATURE	N/A		
MUD RES	N/A		
MUD WEIGHT	1.0		
WITNESSED BY	SNEIDER		
RECORDED BY	SNEIDER		
REMARKS 1	50 DEGREE HOLE		
REMARKS 2	TOOL STOPPED AROUND 9M, GOT STUCK ON CASING		
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS			

DENSITY 1:100 GCS-07-06 12/11/07

LOG PARAMETERS

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
 MAGNETIC DECL : 22.5      ELECT. CUTOFF : 99999      BIT SIZE : 10.16  
 PRESENTATION NAME/DATE = FIRST-COAL-DENSITY.0 12/10/2007      VERSION = 3.64EK



DENSITY 1:100 GCS-07-06 12/11/07

LOG PARAMETERS

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
 MAGNETIC DECL : 22.5      ELECT. CUTOFF : 99999      BIT SIZE : 10.16  
 PRESENTATION NAME/DATE = FIRST-COAL-DENSITY.0 12/10/2007      VERSION = 3.64EK

DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Oct04.07 14:22:06	GAMMA	7.000 [API-GR ]	0.00 [CPS]
1	Oct04.07 14:22:06	GAMMA	320.000 [API-GR ]	341.00 [CPS]
2	Sep30.07 13:04:13	VOLTAGE	28.000 [MV ]	8110.00 [CPS]
2	Sep30.07 13:04:13	VOLTAGE	572.000 [MV ]	80124.00 [CPS]
3	Sep30.07 13:02:50	CALIPER	101.600 [INCH ]	157151.47 [CPS]
3	Sep30.07 13:02:50	CALIPER	155.000 [INCH ]	269880.00 [CPS]
4	Dec13.07 11:50:04	DEN(LS)	1.000 [G/CC ]	27756.00 [CPS]
4	Dec13.07 11:50:04	DEN(LS)	2.320 [G/CC ]	2949.00 [CPS]
5	Dec13.07 11:50:04	DEN(SS)	1.000 [G/CC ]	55255.00 [CPS]
5	Dec13.07 11:50:04	DEN(SS)	2.320 [G/CC ]	22002.00 [CPS]
6	Oct04.07 14:23:08	CALIPER	101.600 [INCH ]	101149.00 [CPS]
6	Oct04.07 14:23:08	CALIPER	152.400 [INCH ]	168341.00 [CPS]
7	Aug29.07 17:33:59	CURRENT	12.100 [UA ]	5600.00 [CPS]
7	Aug29.07 17:33:59	CURRENT	243.400 [UA ]	23120.00 [CPS]
8	Aug17.07 14:21:05	F	Default [CPS]	
9	Aug17.07 14:21:10	X	Default [CPS]	

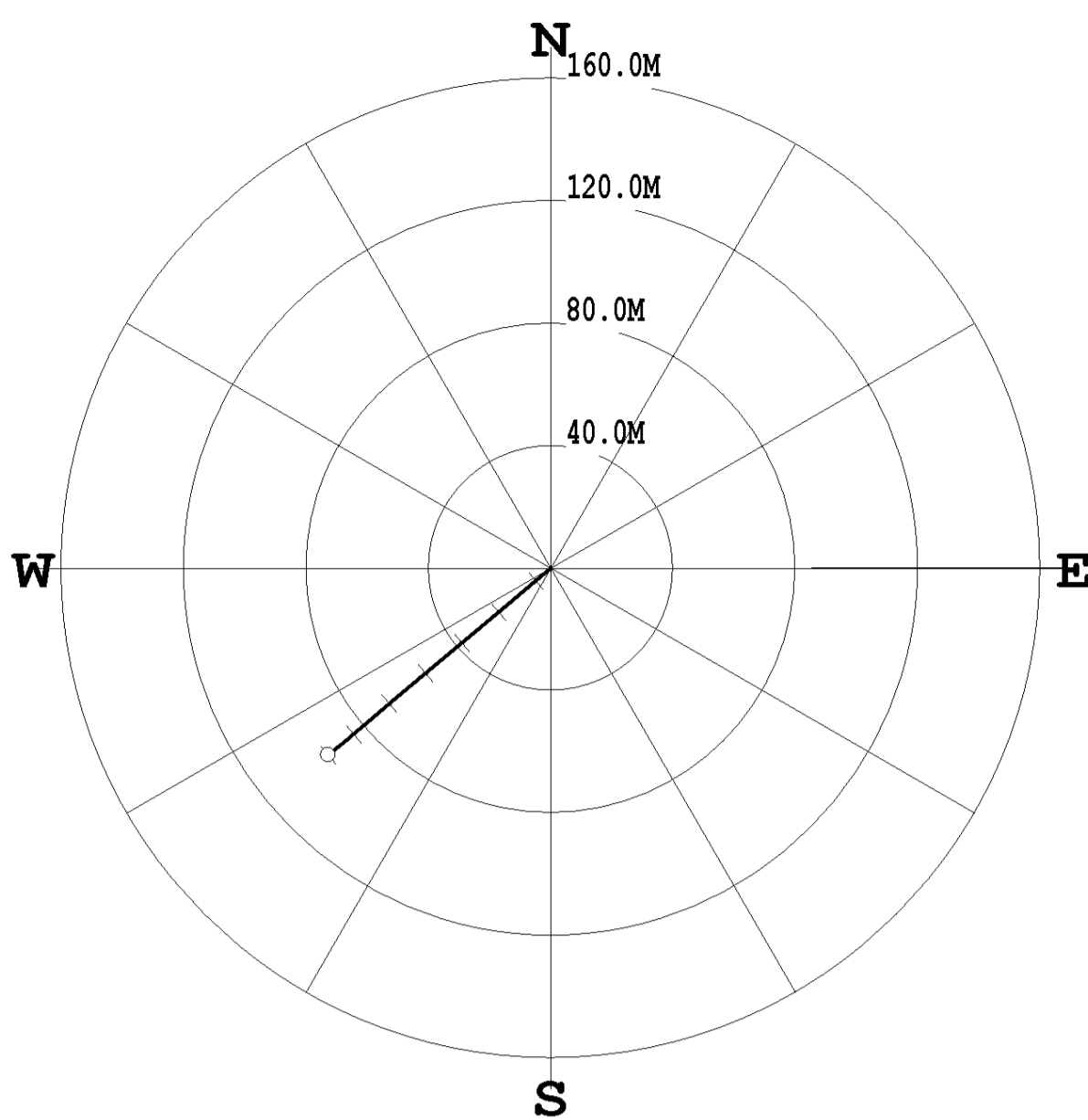


# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: FIRST COAL  
 LOCATION:  
 HOLE ID: GCS-07-06  
 DATE OF LOG: 12/11/07  
 PROBE: 9057A 4400

↑  
 ↗  
 MAG DECL: 22.5

SCALE: 20 M/CM  
 TRUE DEPTH: 133.85 M  
 AZIMUTH: 230.0  
 DISTANCE: 94.9 M  
 + = 20 M INCR  
 ○ = BOTTOM OF HOLE



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

CLIENT : FIRST COAL	HOLE ID. : GCS-07-06
FIELD OFFICE : CENTURY GEO	DATE OF LOG : 12/11/07
DATA FROM : N/A	PROBE : 9057A , 4400
MAG. DECL. : 22.500	DEPTH UNITS : METERS
LOG: GCS-07-06_12-11-07_11-13_9057A_02_12.00_166.64_DEVI_log	

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
12.02	12.02	-0.01	-0.01	0.0	230.2	38.7	230.2
13.00	12.78	-0.40	-0.48	0.6	230.2	38.7	229.9
14.00	13.56	-0.80	-0.96	1.2	230.2	38.7	230.2
15.00	14.34	-1.20	-1.44	1.9	230.1	38.7	230.0
16.00	15.12	-1.60	-1.92	2.5	230.1	38.6	229.7
17.00	15.90	-2.00	-2.40	3.1	230.1	38.7	229.9
18.00	16.69	-2.41	-2.87	3.7	230.1	38.6	229.7
19.00	17.47	-2.81	-3.35	4.4	230.1	38.6	229.9
20.00	18.25	-3.21	-3.83	5.0	230.1	38.6	229.9
21.00	19.03	-3.61	-4.31	5.6	230.0	38.6	229.4
22.00	19.81	-4.01	-4.79	6.2	230.0	38.6	229.8
23.00	20.59	-4.41	-5.26	6.9	230.0	38.6	229.8
24.00	21.37	-4.82	-5.74	7.5	230.0	38.6	229.7
25.00	22.16	-5.22	-6.22	8.1	230.0	38.6	229.8
26.00	22.94	-5.62	-6.69	8.7	230.0	38.6	229.8
27.00	23.72	-6.02	-7.17	9.4	230.0	38.6	229.8
28.00	24.50	-6.43	-7.64	10.0	230.0	38.6	229.9
29.00	25.28	-6.83	-8.12	10.6	229.9	38.5	230.1
30.00	26.07	-7.23	-8.60	11.2	229.9	38.5	230.3
31.00	26.85	-7.63	-9.07	11.9	229.9	38.5	230.0
32.00	27.63	-8.03	-9.55	12.5	229.9	38.4	229.9
33.00	28.42	-8.43	-10.02	13.1	229.9	38.4	229.8
34.00	29.20	-8.83	-10.50	13.7	229.9	38.4	229.5
35.00	29.98	-9.23	-10.97	14.3	229.9	38.4	229.5
36.00	30.77	-9.63	-11.45	15.0	229.9	38.4	229.3
37.00	31.55	-10.03	-11.92	15.6	229.9	38.3	229.7
38.00	32.33	-10.43	-12.39	16.2	229.9	38.3	231.4
39.00	33.12	-10.83	-12.87	16.8	229.9	38.4	230.0
40.00	33.90	-11.23	-13.34	17.4	229.9	38.4	229.7
41.00	34.69	-11.63	-13.82	18.1	229.9	38.4	229.9
42.00	35.47	-12.03	-14.29	18.7	229.9	38.3	230.0
43.00	36.26	-12.43	-14.77	19.3	229.9	38.3	229.9
44.00	37.04	-12.83	-15.24	19.9	229.9	38.2	229.7
45.00	37.83	-13.23	-15.72	20.5	229.9	38.3	229.9
46.00	38.61	-13.63	-16.19	21.2	229.9	38.3	229.5
47.00	39.40	-14.03	-16.66	21.8	229.9	38.3	229.9
48.00	40.18	-14.42	-17.14	22.4	229.9	38.3	230.0
49.00	40.97	-14.82	-17.61	23.0	229.9	38.4	230.3
50.00	41.75	-15.22	-18.09	23.6	229.9	38.3	230.0
51.00	42.54	-15.62	-18.56	24.3	229.9	38.2	229.9
52.00	43.32	-16.02	-19.03	24.9	229.9	38.3	230.2
53.00	44.11	-16.42	-19.51	25.5	229.9	38.2	229.9
54.00	44.89	-16.81	-19.98	26.1	229.9	38.1	229.9
55.00	45.68	-17.21	-20.45	26.7	229.9	38.1	230.1
56.00	46.47	-17.61	-20.93	27.3	229.9	38.0	230.2
57.00	47.26	-18.00	-21.40	28.0	229.9	38.0	230.1
58.00	48.04	-18.40	-21.87	28.6	229.9	38.1	230.2
59.00	48.83	-18.79	-22.35	29.2	229.9	38.1	230.1
60.00	49.62	-19.19	-22.82	29.8	229.9	38.1	230.2
61.00	50.40	-19.58	-23.29	30.4	229.9	38.0	230.1
62.00	51.19	-19.98	-23.76	31.0	229.9	38.1	230.0
63.00	51.98	-20.38	-24.24	31.7	229.9	38.0	229.8
64.00	52.77	-20.77	-24.71	32.3	229.9	38.0	230.0
65.00	53.56	-21.17	-25.18	32.9	229.9	37.8	231.5
66.00	54.35	-21.56	-25.65	33.5	230.0	37.9	230.4
67.00	55.13	-21.95	-26.12	34.1	230.0	37.9	229.0
68.00	55.92	-22.34	-26.60	34.7	230.0	37.9	230.2
69.00	56.71	-22.74	-27.07	35.4	230.0	37.8	230.3
70.00	57.50	-23.13	-27.54	36.0	230.0	37.8	230.1
71.00	58.29	-23.52	-28.01	36.6	230.0	37.8	230.2
72.00	59.08	-23.91	-28.48	37.2	230.0	37.8	230.0
73.00	59.87	-24.31	-28.95	37.8	230.0	37.8	230.3
74.00	60.66	-24.70	-29.42	38.4	230.0	37.8	230.3
75.00	61.45	-25.09	-29.89	39.0	230.0	37.8	230.2
76.00	62.24	-25.48	-30.37	39.6	230.0	37.8	230.0
77.00	63.03	-25.88	-30.84	40.3	230.0	37.8	230.2
78.00	63.82	-26.27	-31.31	40.9	230.0	37.9	230.2
79.00	64.61	-26.66	-31.78	41.5	230.0	37.9	230.0
80.00	65.40	-27.06	-32.25	42.1	230.0	37.9	230.0
81.00	66.19	-27.45	-32.72	42.7	230.0	37.9	230.2
82.00	66.98	-27.84	-33.19	43.3	230.0	37.9	230.1
83.00	67.77	-28.24	-33.67	43.9	230.0	37.8	230.5
84.00	68.56	-28.63	-34.14	44.6	230.0	37.8	230.0
85.00	69.35	-29.02	-34.61	45.2	230.0	37.8	230.4
86.00	70.14	-29.42	-35.08	45.8	230.0	37.8	230.3
87.00	70.93	-29.81	-35.55	46.4	230.0	37.8	230.7
88.00	71.72	-30.20	-36.02	47.0	230.0	37.7	230.3
89.00	72.51	-30.59	-36.49	47.6	230.0	37.8	230.2
90.00	73.30	-30.99	-36.96	48.2	230.0	37.8	230.1
91.00	74.09	-31.38	-37.43	48.8	230.0	37.8	230.1
92.00	74.88	-31.77	-37.90	49.5	230.0	37.7	230.7
93.00	75.67	-32.17	-38.36	50.1	230.0	37.7	230.0
94.00	76.46	-32.56	-38.83	50.7	230.0	37.7	230.0
95.00	77.25	-32.95	-39.30	51.3	230.0	37.7	230.4
96.00	78.05	-33.34	-39.77	51.9	230.0	37.8	230.3
97.00	78.84	-33.73	-40.24	52.5	230.0	37.8	229.5
98.00	79.63	-34.13	-40.71	53.1	230.0	37.8	229.4
99.00	80.42	-34.52	-41.18	53.7	230.0	37.8	231.6
100.00	81.21	-34.91	-41.65	54.3	230.0	37.8	229.5
101.00	82.00	-35.31	-42.12	55.0	230.0	37.7	229.8
102.00	82.79	-35.70	-42.59	55.6	230.0	37.7	230.2
103.00	83.58	-36.09	-43.06	56.2	230.0	37.7	230.4
104.00	84.37	-36.48	-43.53	56.8	230.0	37.7	230.5
105.00	85.16	-36.87	-44.00	57.4	230.0	37.7	231.0
106.00	85.95	-37.26	-44.47	58.0	230.0	37.7	229.9
107.00	86.75	-37.65	-44.94	58.6	230.0	37.7	229.7
108.00	87.54	-38.05	-45.41	59.2	230.0	37.6	231.1
109.00	88.33	-38.44	-45.88	59.9	230.0	37.8	230.1
110.00	89.12	-38.83	-46.35	60.5	230.0	37.7	229.9
111.00	89.91	-39.22	-46.81	61.1	230.0	37.7	230.0
112.00	90.70	-39.62	-47.28	61.7	230.0	37.6	230.3
113.00	91.50	-40.01	-47.75	62.3	230.0	37.6	229.5
114.00	92.29	-40.40	-48.22	62.9	230.0	37.6	230.3
115.00	93.08	-40.79	-48.68	63.5	230.0	37.5	231.1
116.00	93.87	-41.18	-49.15	64.1	230.0	37.4	229.5
117.00	94.67	-41.57	-49.62	64.7	230.0	37.5	229.2
118.00	95.46	-41.96	-50.08	65.3	230.0	37.6	231.4
119.00	96.25	-42.36	-50.55	65.9	230.0	37.6	230.1
120.00	97.05	-42.75	-51.01	66.6	230.0	37.5	229.4
121.00	97.84	-43.14	-51.47	67.2	230.0	37.6	229.2
122.00	98.63	-43.54	-51.94	67.8	230.0	37.5	229.7
123.00	99.43	-43.93	-52.40	68.4	230.0	37.5	229.7
124.00	100.22	-44.33	-52.87	69.0	230.0	37.5	229.9
125.00	101.01	-44.72	-53.33	69.6	230.0	37.5	229.4
126.00	101.80	-45.12	-53.80	70.2	230.0	37.5	229.6
127.00	102.60	-45.51	-54.26	70.8	230.0	37.5	229.7
128.00	103.39	-45.90	-54.73	71.4	230.0	37.8	230.1
129.00	104.18	-46.30	-55.19	72.0	230.0	37.5	229.1
130.00	104.98	-46.69	-55.66	72.6	230.0	37.5	230.2
131.00	105.77	-47.09	-56.12	73.3	230.0	37.6	228.1
132.00	106.56	-47.48	-56.58	73.9	230.0	37.5	229.8
133.00	107.36	-47.87	-57.05	74.5	230.0	37.5	230.2
134.00	108.15	-48.27	-57.51	75.1	230.0	37.5	229.5
135.00	108.94	-48.66	-57.97	75.7	230.0	37.5	229.6
136.00	109.73	-49.06	-58.44	76.3	230.0	37.5	229.5
137.00	110.53	-49.45	-58.90	76.9	230.0	37.6	229.7
138.00	111.32	-49.85	-59.37	77.5	230.0	37.6	229.9
139.00	112.11	-50.24	-59.83	78.1	230.0	37.6	229.3
140.00	112.91	-50.64	-60.30	78.7	230.0	37.6	229.6
141.00	113.70	-51.03	-60.76	79.4	230.0	37.6	229.4
142.00	114.49	-51.43	-61.23	80.0	230.0	37.5	229.8
143.00	115.28	-51.82	-61.69	80.6	230.0	37.5	230.4
144.00	116.08	-52.22	-62.16	81.2	230.0	37.6	229.1
145.00	116.87	-52.61	-62.62	81.8	230.0	37.6	230.1
146.00	117.66	-53.00	-63.09	82.4	230.0	37.6	227.9
147.00	118.45	-53.40	-63.55	83.0	230.0	37.6	229.7
148.00	119.25	-53.79	-64.02	83.6	230.0	37.7	227.8
149.00	120.04	-54.19	-64.48	84.2			

Century-geo.com  
COMPANY : FIRST COAL  
WELL : GCS07-07  
FIELD :  
COUNTRY : CANADA  
PROVINCE : BRITISH COLUMBIA  
OTHER SERVICES : DEV

LOCATION :  
SECTION :  
TOWNSHIP :  
RANGE :  
API NO. :  
UNIQUE WELL ID :

PERMANENT DATUM :  
LOG MEASURED FROM :  
DRL MEASURED FROM :  
ELEVATION KB :  
ELEVATION DE :  
ELEVATION GL :

DATE :  
DEPTH DRILLER :  
BIT SIZE :  
LOG TOP :  
LOG BOTTOM :  
CASING OD :  
CASING ID :

CASING BOTTOM :  
CASING TYPE :  
BOREHOLE FLUID :  
ROD TEMPERATURE :  
MUD RES :  
MUD WEIGHT :  
RECORDED BY :  
WITNESSED BY :  
SHELL :  
REMARKS 1 :  
REMARKS 2 :

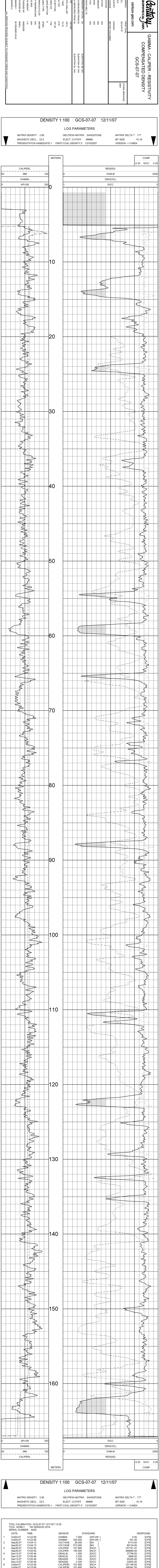
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

DENSITY 1:100 GCS-07-07 12/11/07

LOG PARAMETERS  
MATRIX DENSITY : 2.65  
MAGNETIC DECL : 22.5  
PRESENTATION NAME/DATE = FIRST-COAL-DENSITY.0 12/10/2007

NEUTRON MATRIX : SANDSTONE  
ELECT. CUTOFF : 99899  
FIRST-COAL-DENSITY.0 12/10/2007

MATRIX DELTA T : 177  
BIT SIZE : 10.16  
VERSION = 3.64EK



TOOL CALIBRATION GCS-07-07 12/11/07 13:30  
TOOL 9239C1 TM VERSION 2018  
SERIAL NUMBER 4428

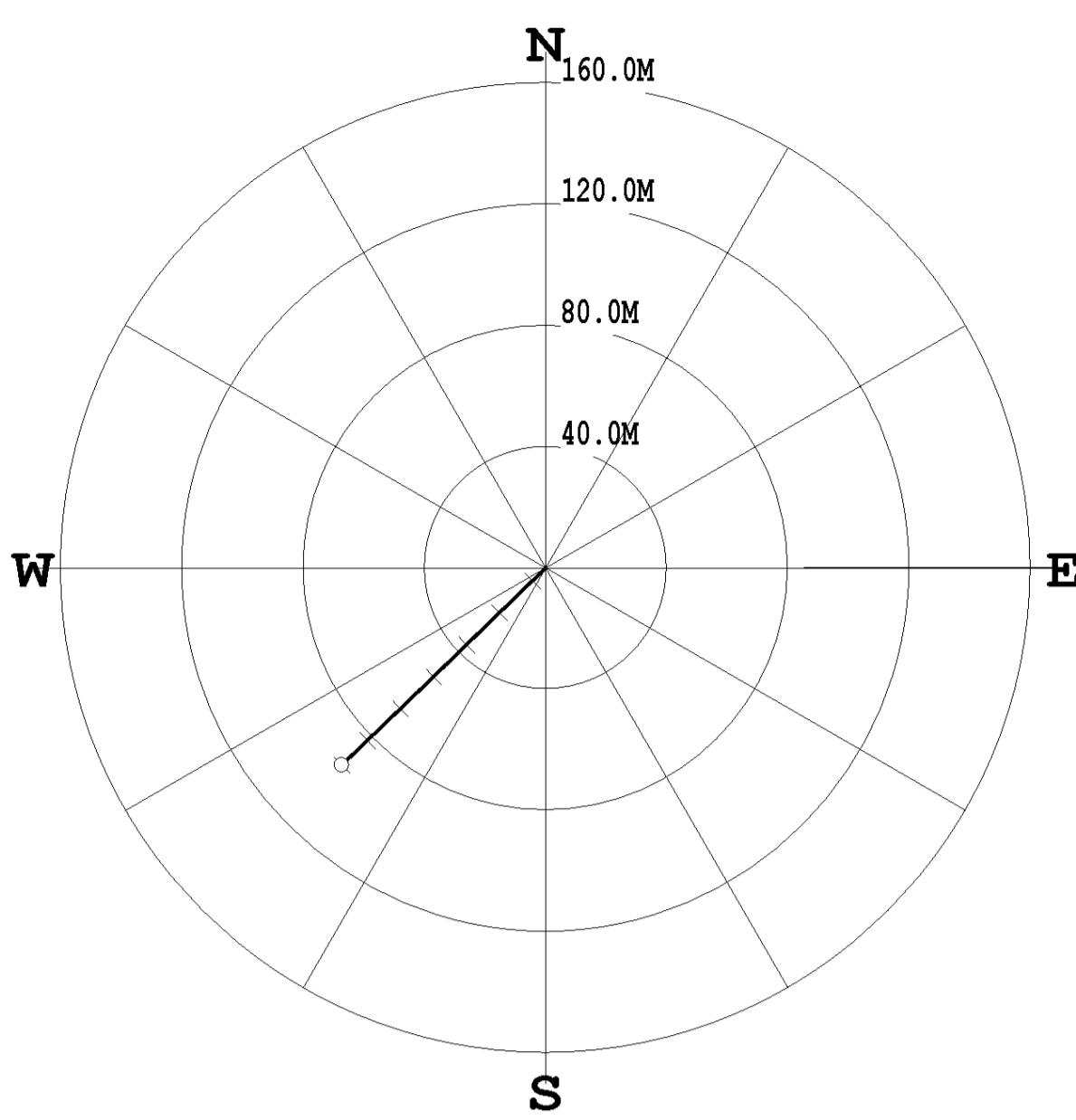
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Oct04.07 14:22:06	GAMMA	7.000 [API-GR ]	0.00 [CPS]
1	Oct04.07 14:22:06	GAMMA	320.000 [API-GR ]	341.00 [CPS]
2	Sep30.07 13:04:13	VOLTAGE	28.000 [MV ]	8110.00 [CPS]
2	Sep30.07 13:04:13	VOLTAGE	572.000 [MV ]	80124.00 [CPS]
3	Sep30.07 13:02:50	CALIPER	101.600 [INCH ]	157151.47 [CPS]
3	Sep30.07 13:02:50	CALIPER	155.000 [INCH ]	289880.00 [CPS]
4	Dec13.07 12:55:48	DEN(LS)	1.000 [G/CC ]	27756.00 [CPS]
4	Dec13.07 12:55:48	DEN(LS)	2.320 [G/CC ]	2949.00 [CPS]
5	Dec13.07 12:55:48	DEN(SS)	1.000 [G/CC ]	55255.00 [CPS]
5	Dec13.07 12:55:48	DEN(SS)	2.320 [G/CC ]	22002.00 [CPS]
6	Oct04.07 14:23:08	CALIPER	101.600 [INCH ]	101149.00 [CPS]
6	Oct04.07 14:23:08	CALIPER	152.400 [INCH ]	168341.00 [CPS]
7	Aug29.07 17:33:59	CURRENT	12.100 [UA ]	5600.00 [CPS]
7	Aug29.07 17:33:59	CURRENT	243.400 [UA ]	23120.00 [CPS]
8	Aug17.07 14:21:05	F	Default [CPS]	
9	Aug17.07 14:21:10	X	Default [CPS]	

# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: FIRST COAL  
 LOCATION:  
 HOLE ID: GCS-07-07  
 DATE OF LOG: 12/11/07  
 PROBE: 9057A 4400

SCALE: 20 M/CM  
 TRUE DEPTH: 135.50 M  
 AZIMUTH: 226.0  
 DISTANCE: 93.5 M  
 + = 20 M INCR  
 ○ = BOTTOM OF HOLE

MAG DECL: 22.5



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

CLIENT : FIRST COAL HOLE ID. : GCS-07-07  
 FIELD OFFICE : CENTURY GEO DATE OF LOG : 12/11/07  
 DATA FROM : N/A PROBE : 9057A , 4400  
 MAG. DECL. : 22.500 DEPTH UNITS : METERS  
 LOG: GCS-07-07\_12-11-07\_12-39\_9057A\_02\_12.00\_167.08\_DEVI.Log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
12.02	12.02	-0.01	-0.01	0.0	225.9	37.2	225.9
13.00	12.80	-0.42	-0.43	0.6	225.7	37.2	225.9
14.00	13.59	-0.85	-0.86	1.2	225.7	37.2	225.5
15.00	14.39	-1.27	-1.30	1.8	225.7	37.2	225.0
16.00	15.19	-1.69	-1.73	2.4	225.7	37.3	225.8
17.00	15.98	-2.11	-2.16	3.0	225.7	37.2	226.0
18.00	16.78	-2.54	-2.59	3.6	225.7	37.1	225.3
19.00	17.58	-2.96	-3.03	4.2	225.7	37.2	225.0
20.00	18.37	-3.38	-3.46	4.8	225.7	37.2	225.5
21.00	19.17	-3.80	-3.89	5.4	225.7	37.2	225.7
22.00	19.96	-4.22	-4.33	6.0	225.7	37.2	226.1
23.00	20.76	-4.64	-4.76	6.7	225.7	37.2	226.2
24.00	21.56	-5.07	-5.19	7.3	225.7	37.2	225.9
25.00	22.35	-5.49	-5.63	7.9	225.7	37.2	226.0
26.00	23.15	-5.91	-6.06	8.5	225.7	37.3	226.4
27.00	23.95	-6.33	-6.50	9.1	225.7	37.2	226.1
28.00	24.74	-6.75	-6.93	9.7	225.8	37.2	225.9
29.00	25.54	-7.17	-7.36	10.3	225.8	37.2	225.8
30.00	26.34	-7.59	-7.80	10.9	225.8	37.2	226.0
31.00	27.13	-8.01	-8.23	11.5	225.8	37.2	225.4
32.00	27.93	-8.43	-8.67	12.1	225.8	37.3	226.3
33.00	28.73	-8.85	-9.10	12.7	225.8	37.2	225.8
34.00	29.52	-9.27	-9.54	13.3	225.8	37.3	226.2
35.00	30.32	-9.70	-9.97	13.9	225.8	37.3	225.8
36.00	31.11	-10.12	-10.41	14.5	225.8	37.2	225.9
37.00	31.91	-10.54	-10.84	15.1	225.8	37.2	226.0
38.00	32.71	-10.96	-11.28	15.7	225.8	37.2	226.1
39.00	33.50	-11.38	-11.71	16.3	225.8	37.2	226.0
40.00	34.30	-11.80	-12.15	16.9	225.8	37.2	226.1
41.00	35.10	-12.22	-12.58	17.5	225.8	37.2	226.2
42.00	35.89	-12.64	-13.01	18.1	225.8	37.2	225.9
43.00	36.69	-13.06	-13.45	18.7	225.8	37.2	225.8
44.00	37.49	-13.48	-13.88	19.4	225.8	37.3	226.0
45.00	38.28	-13.90	-14.32	20.0	225.8	37.2	225.8
46.00	39.08	-14.32	-14.75	20.6	225.9	37.2	225.9
47.00	39.87	-14.74	-15.19	21.2	225.9	37.2	225.9
48.00	40.67	-15.16	-15.62	21.8	225.9	37.2	225.6
49.00	41.47	-15.58	-16.06	22.4	225.9	37.2	226.8
50.00	42.26	-16.00	-16.49	23.0	225.9	37.2	225.8
51.00	43.06	-16.42	-16.93	23.6	225.9	37.2	225.7
52.00	43.86	-16.84	-17.36	24.2	225.9	37.2	225.8
53.00	44.65	-17.26	-17.80	24.8	225.9	37.2	226.0
54.00	45.45	-17.69	-18.23	25.4	225.9	37.1	225.8
55.00	46.25	-18.11	-18.66	26.0	225.9	37.1	225.8
56.00	47.04	-18.53	-19.10	26.6	225.9	37.1	225.8
57.00	47.84	-18.94	-19.53	27.2	225.9	37.1	225.4
58.00	48.64	-19.36	-19.96	27.8	225.9	37.1	225.8
59.00	49.44	-19.78	-20.39	28.4	225.9	36.9	225.2
60.00	50.24	-20.20	-20.83	29.0	225.9	37.0	225.9
61.00	51.04	-20.62	-21.26	29.6	225.9	37.0	226.2
62.00	51.83	-21.04	-21.69	30.2	225.9	37.0	226.0
63.00	52.63	-21.46	-22.12	30.8	225.9	36.9	225.5
64.00	53.43	-21.88	-22.55	31.4	225.9	37.0	225.7
65.00	54.23	-22.30	-22.98	32.0	225.9	37.0	225.9
66.00	55.03	-22.72	-23.42	32.6	225.9	37.0	225.9
67.00	55.83	-23.14	-23.85	33.2	225.9	37.0	225.6
68.00	56.62	-23.56	-24.28	33.8	225.9	37.0	225.3
69.00	57.42	-23.98	-24.71	34.4	225.8	37.0	225.7
70.00	58.22	-24.40	-25.14	35.0	225.8	37.3	226.8
71.00	59.02	-24.82	-25.57	35.6	225.8	37.0	226.0
72.00	59.82	-25.24	-26.00	36.2	225.8	37.0	225.7
73.00	60.62	-25.66	-26.43	36.8	225.8	37.1	225.0
74.00	61.41	-26.08	-26.87	37.4	225.8	37.0	225.8
75.00	62.21	-26.50	-27.30	38.0	225.8	37.0	225.9
76.00	63.01	-26.92	-27.73	38.6	225.8	37.1	226.0
77.00	63.81	-27.34	-28.16	39.3	225.9	37.1	225.9
78.00	64.61	-27.76	-28.60	39.9	225.9	37.1	226.3
79.00	65.40	-28.18	-29.03	40.5	225.9	37.1	226.0
80.00	66.20	-28.60	-29.46	41.1	225.9	37.1	225.8
81.00	67.00	-29.02	-29.90	41.7	225.9	37.1	226.2
82.00	67.80	-29.44	-30.33	42.3	225.9	37.1	226.2
83.00	68.59	-29.86	-30.77	42.9	225.9	37.1	225.9
84.00	69.39	-30.28	-31.20	43.5	225.9	37.0	226.5
85.00	70.19	-30.70	-31.63	44.1	225.9	37.0	225.4
86.00	70.99	-31.12	-32.07	44.7	225.9	37.0	225.0
87.00	71.78	-31.54	-32.50	45.3	225.9	37.1	225.8
88.00	72.58	-31.96	-32.93	45.9	225.9	37.1	226.4
89.00	73.38	-32.38	-33.37	46.5	225.9	36.9	226.6
90.00	74.18	-32.80	-33.80	47.1	225.9	37.2	225.7
91.00	74.97	-33.22	-34.23	47.7	225.9	37.2	225.7
92.00	75.77	-33.64	-34.66	48.3	225.9	37.2	226.0
93.00	76.57	-34.06	-35.10	48.9	225.9	37.2	225.8
94.00	77.36	-34.49	-35.53	49.5	225.9	37.2	225.7
95.00	78.16	-34.91	-35.96	50.1	225.9	37.2	225.8
96.00	78.96	-35.33	-36.39	50.7	225.8	37.2	225.6
97.00	79.75	-35.75	-36.83	51.3	225.8	37.2	226.1
98.00	80.55	-36.17	-37.26	51.9	225.9	37.2	226.0
99.00	81.35	-36.59	-37.70	52.5	225.9	37.2	225.9
100.00	82.14	-37.01	-38.13	53.1	225.8	37.2	225.7
101.00	82.94	-37.44	-38.56	53.7	225.8	37.4	226.4
102.00	83.73	-37.86	-39.00	54.3	225.9	37.2	225.8
103.00	84.53	-38.28	-39.43	55.0	225.9	37.2	226.0
104.00	85.33	-38.70	-39.87	55.6	225.9	37.1	225.7
105.00	86.12	-39.12	-40.30	56.2	225.9	37.2	226.1
106.00	86.92	-39.54	-40.74	56.8	225.9	37.2	226.4
107.00	87.72	-39.95	-41.17	57.4	225.9	37.2	226.0
108.00	88.51	-40.37	-41.61	58.0	225.9	37.2	226.3
109.00	89.31	-40.79	-42.04	58.6	225.9	37.2	226.1
110.00	90.11	-41.21	-42.48	59.2	225.9	37.3	226.5
111.00	90.90	-41.63	-42.91	59.8	225.9	37.1	225.9
112.00	91.70	-42.05	-43.35	60.4	225.9	37.1	226.1
113.00	92.50	-42.47	-43.78	61.0	225.9	37.2	225.5
114.00	93.30	-42.89	-44.22	61.6	225.9	37.1	226.1
115.00	94.09	-43.31	-44.65	62.2	225.9	37.1	226.2
116.00	94.89	-43.73	-45.09	62.8	225.9	37.1	225.9
117.00	95.69	-44.14	-45.52	63.4	225.9	37.2	226.3
118.00	96.48	-44.56	-45.96	64.0	225.9	37.2	226.3
119.00	97.28	-44.98	-46.40	64.6	225.9	37.2	226.1
120.00	98.08	-45.40	-46.83	65.2	225.9	37.2	225.6
121.00	98.87	-45.82	-47.27	65.8	225.9	37.2	226.2
122.00	99.67	-46.23	-47.70	66.4	225.9	37.1	225.6
123.00	100.47	-46.65	-48.14	67.0	225.9	37.1	225.9
124.00	101.27	-47.07	-48.57	67.6	225.9	37.0	224.8
125.00	102.06	-47.49	-49.01	68.2	225.9	37.1	226.3
126.00	102.86	-47.90	-49.45	68.8	225.9	37.1	226.2
127.00	103.66	-48.32	-49.88	69.4	225.9	37.1	226.3
128.00	104.46	-48.74	-50.31	70.0	225.9	37.1	225.9
129.00	105.26	-49.16	-50.75	70.7	225.9	37.1	226.3
130.00	106.05	-49.57	-51.18	71.3	225.9	37.1	226.1
131.00	106.85	-49.99	-51.62	71.9	225.9	37.1	226.1
132.00	107.65	-50.41	-52.06	72.5	225.9	37.1	226.0
133.00	108.45	-50.82	-52.49	73.1	225.9	36.9	225.9
134.00	109.25	-51.24	-52.93	73.7	225.9	37.1	226.1
135.00	110.04	-51.66	-53.36	74.3	225.9	37.0	226.9
136.00	110.84	-52.08	-53.79	74.9	225.9	37.1	225.8
137.00	111.64	-52.49	-54.23	75.5	225.9	37.1	226.3
138.00	112.44	-52.91	-54.66	76.1	225.9	37.1	225.3
139.00	113.24	-53.33	-55.10	76.7	225.9	37.0	226.0
140.00	114.03	-53.75	-55.53	77.3	225.9	37.0	225.8
141.00	114.83	-54.17	-55.97	77.9	225.9	37.0	226.2
142.00	115.63	-54.58	-56.40	78.5	225.9	37.1	226.5
143.00	116.43	-55.00	-56.84	79.1	225.9	37.1	226.6
144.00	117.23	-55.42	-57.27	79.7	225.9	37.1	226.0
145.00	118.02	-55.83	-57.71	80.3	225.9	37.1	226.1
146.00	118.82	-56.25	-58.14	80.9	225.9	37.1	226.3
147.00	119.62	-56.67	-58.57	81.5	225.9	37.1	226.1
148.00	120.42	-57.09	-59.01	82.1	225.9	37.1	225.9
149.00	121.21	-57.51	-59.44	82.7	225.9	37.1	225.8
150.00	122.01	-57.93	-59.88	83.3	225.9	37.1	225.9

COMPANY : FIRST COAL

WELL : DDH-08

FIELD :

COUNTRY : CANADA

PROVINCE : BRITISH COLUMBIA

LOCATION :

SECTION : N/A

TOWNSHIP : N/A

RANGE : N/A

API NO. : N/A

UNIQUE WELL ID. :

PERMANENT DATUM : GL

LOG MEASUREMENT FROM : GL

DRL MEASURED FROM : GL

DATE : 12/18/07

DEPTH DRILLER : 167.64

BIT SIZE : 9.5

LOG TOP : 0.25

LOG BOTTOM : 50.15

CASING OD : 7.62

CASING BOTTOM : 3

CASING TYPE : STEEL

BOREHOLE FLUID : WATER

RM TEMPERATURE : N/A

MUD RES : N/A

MUD WEIGHT : 1.0

WITNESSED BY : SKENDER

RECORDED BY : SNELL

REMARKS 1 : 50 DEGREE HOLE

REMARKS 2 : HOLE BRIDGED AROUND 50M. NO DENSITY RECORDED

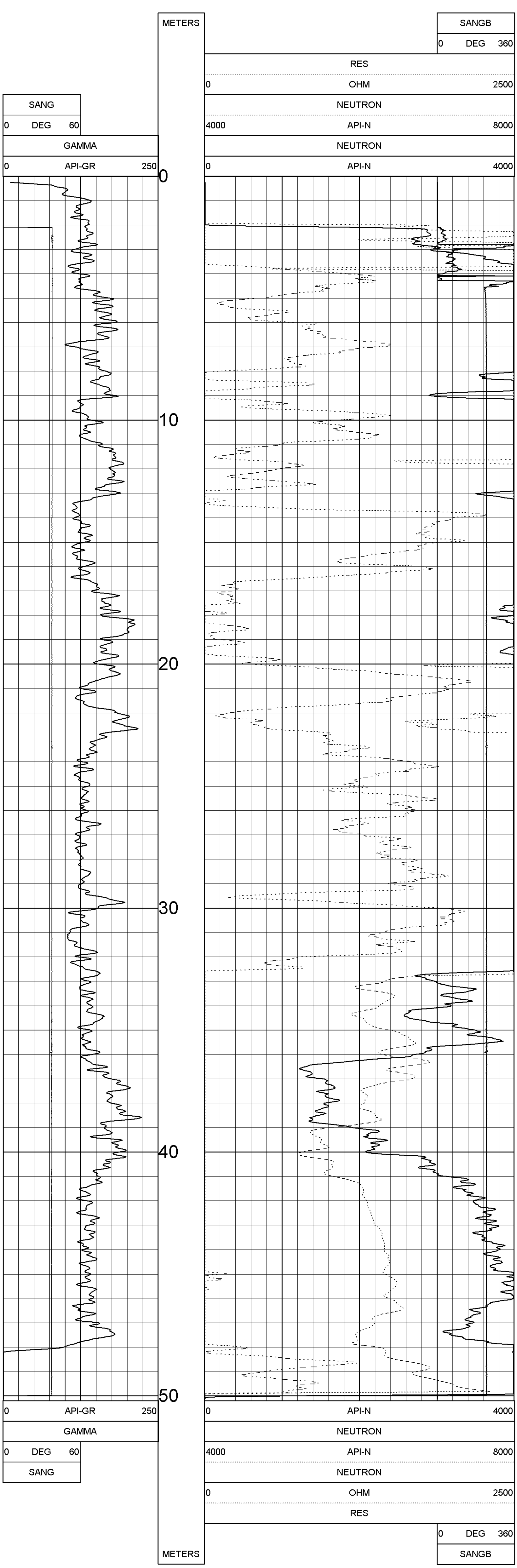
OTHER SERVICES:  
DENSITY  
DEVI

ELEVATION KB N/A  
ELEVATION DF N/A  
ELEVATION GL N/A

NEUTRON 1:100 DDH-08 12/18/07

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177  
MAGNETIC DECL : 22.5 ELECT. CUTOFF : 99999 BIT SIZE : 9.5  
PRESENTATION NAME/DATE = FIRST-COAL-NEUTRON-DEVIATION.0 12/10/2007 VERSION = 3.64EK



NEUTRON 1:100 DDH-08 12/18/07

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177  
MAGNETIC DECL : 22.5 ELECT. CUTOFF : 99999 BIT SIZE : 9.5  
PRESENTATION NAME/DATE = FIRST-COAL-NEUTRON-DEVIATION.0 12/10/2007 VERSION = 3.64EK

TOOL CALIBRATION DDH-08 12/18/07 15:32  
TOOL 9057A TM VERSION 1  
SERIAL NUMBER 4400

DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Sep10,07 14:38:19	GAMMA	0.000 [API-GR ]	2.00 [CPS]
	Sep10,07 14:38:19	GAMMA	320.000 [API-GR ]	345.00 [CPS]
2	Nov14,07 12:00:18	NEUTRON	Default [CPS]	Default [CPS]
	Nov14,07 12:00:18	NEUTRON	271.000 [API-N ]	83.00 [CPS]
3	Aug29,07 16:33:45	SP	0.000 [MV ]	325214.00 [CPS]
	Aug29,07 16:33:45	SP	337.500 [MV ]	152778.00 [CPS]
4	Aug29,07 16:33:52	RES(16N)	0.000 [OHM-M ]	5176.00 [CPS]
	Aug29,07 16:33:52	RES(16)	1996.000 [OHM-M ]	422358.00 [CPS]
5	Aug29,07 16:33:59	RES(64N)	0.000 [OHM-M ]	4855.00 [CPS]
	Aug29,07 16:33:59	RES(64)	1990.000 [OHM-M ]	418079.00 [CPS]
6	Aug29,07 16:34:06	TEMP	63.300 [DEG F ]	353180.00 [CPS]
	Aug29,07 16:34:06	TEMP	98.300 [DEG F ]	387606.00 [CPS]
7	Aug29,07 16:34:14	RES	0.000 [OHM ]	4821.00 [CPS]
	Aug29,07 16:34:14	RES	989.000 [OHM ]	161009.00 [CPS]

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS.



**Century**  
GEOPHYSICAL CORP.

**GAMMA - CALIPER - RESISTIVITY  
COMPENSATED DENSITY**  
DDH-09

Century-geo.com

COMPANY	FIRST COAL	OTHER SERVICES
WELL	DDH-09	NEUTRON DENI
FIELD		
COUNTRY	CANADA	
PROVINCE	BRITISH COLUMBIA	
LOCATION		
SECTION	N/A	
TOWNSHIP	N/A	
RANGE	N/A	
API NO.	N/A	
UNIQUE WELL ID.		
PERMANENT DATUM	GL	ELEVATION RB N/A
LOG MEASURED FROM GL		ELEVATION DF N/A
DRIL MEASURED FROM GL		ELEVATION GI N/A

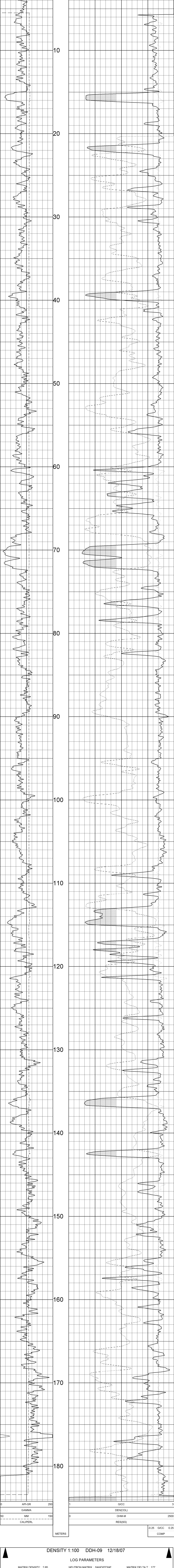
DATE	12/18/07
DEPTH DRIILLER	182.88
BIT SIZE	9.50
LOG TOP	0.31
LOG BOTTOM	184.17
CASING OD	7.62
CASING BOTTOM	3
CASING TYPE	STEEL
ROBBERJUL FLUID	WATER
ROD TEMPERATURE	N/A
MWD TEMPERATURE	N/A
MWD WEIGHT	1.0
WIRESS BY	SMELER
RECORDED BY	SMELER
REMARKS 1	50 DEGREE HOLE
REMARKS 2	

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

DENSITY 1:100 DDH-09 12/18/07

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177  
 MAGNETIC DECL : 22.5 ELECT. CUTOFF : 99999 BIT SIZE : 9.50  
 PRESENTATION NAME/DATE = FIRST-COAL-DENSITY 0 12/10/2007 VERSION = 3.64EK



DENSITY 1:100 DDH-09 12/18/07

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177  
 MAGNETIC DECL : 22.5 ELECT. CUTOFF : 99999 BIT SIZE : 9.50  
 PRESENTATION NAME/DATE = FIRST-COAL-DENSITY 0 12/10/2007 VERSION = 3.64EK

TOOL CALIBRATION DDH-09 12/18/07 13:55  
 TOOL 9239C1 TM VERSION 2016  
 SERIAL NUMBER 4426

DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Oct04.07 14:22:06	GAMMA	7.000 [API-GR ]	0.00 [CPS]
	Oct04.07 14:22:06	GAMMA	320.000 [API-GR ]	341.00 [CPS]
2	Dec12.07 13:58:25	VOLTAGE	0.000 [MV ]	4037.00 [CPS]
	Dec12.07 13:58:25	VOLTAGE	1989.000 [MV ]	270424.00 [CPS]
3	Sep30.07 13:02:50	CALIPER	101.600 [INCH ]	157151.47 [CPS]
	Sep30.07 13:02:50	CALIPER	155.000 [INCH ]	289980.00 [CPS]
4	Dec13.07 10:20:30	DEN(LS)	1.000 [G/CC ]	27756.00 [CPS]
	Dec13.07 10:20:30	DEN(LS)	2.320 [G/CC ]	2849.00 [CPS]
5	Dec18.07 13:43:15	DEN(SS)	1.000 [G/CC ]	55255.00 [CPS]
	Dec18.07 13:43:15	DEN(SS)	2.320 [G/CC ]	22002.00 [CPS]
6	Oct04.07 14:23:08	CALIPERL	101.600 [INCH ]	101149.00 [CPS]
	Oct04.07 14:23:08	CALIPERL	152.400 [INCH ]	168341.00 [CPS]
7	Dec12.07 13:58:49	CURRENT	0.000 [UA ]	5297.00 [CPS]
	Dec12.07 13:58:49	CURRENT	284.900 [UA ]	26.82 [CPS]
8	Aug17.07 14:21:05	F	Default [CPS]	
9	Aug17.07 14:21:10	X	Default [CPS]	

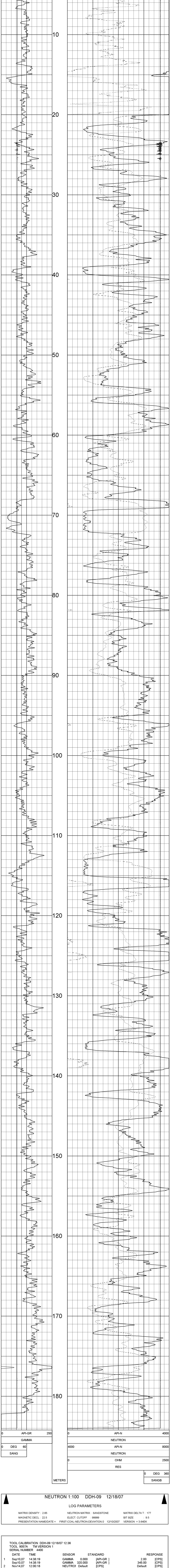


		<b>GAMMA - NEUTRON - RES</b>	
DDH-09		OTHER SERVICES: BRISTOL DEVI	
COMPANY: FIRST COAL WELL: DDH-09 FIELD: CANADA COUNTRY: BRITISH COLUMBIA PROVINCE:	CENTURY-geo.com		
LOCATION: N/A SECTION: N/A TOWNSHIP: N/A RANGE: N/A API NO: N/A UNIQUE WELL ID:	PERMANENT DATUM: GCL LOG MEASURED FROM: GL DRL MEASURED FROM: GL ELEVATION: N/A ELEVATION OF: N/A		
DATE: 12/18/07 DEPTH: 182.88 BIT SIZE: 9.5	NEUTRON MATRIX: SANDSTONE ELECT. CUTOFF: 99999 MATRIX DELTA T: 177		
LOG TOP: 0.31 LOG BOTTOM: -184.17 CASING O.D.: 7.82 CASING BOTTOM: 3	BIT SIZE: 9.5 MAGNETIC DECL: 22.5 PRESENTATION NAME/DATE: FIRST-COAL-NEUTRON-DEVIATION.0 12/10/2007 VERSION: 3.64EK		
CASING TYPE: STEEL BOREHOLE FLUID: WATER BOREHOLE TEMPERATURE: N/A MUD RES: N/A MUD WEIGHT: 11.0 WIREMESH BY: SENSER RECORDED BY: SHELL REMARKS 1: 50 DEGREE HOLE REMARKS 2:	ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS		

**NEUTRON 1:100 DDH-09 12/18/07**

**LOG PARAMETERS**

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
 MAGNETIC DECL : 22.5      ELECT. CUTOFF : 99999      BIT SIZE : 9.5  
 PRESENTATION NAME/DATE = FIRST-COAL-NEUTRON-DEVIATION.0 12/10/2007      VERSION = 3.64EK



**NEUTRON 1:100 DDH-09 12/18/07**

**LOG PARAMETERS**

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
 MAGNETIC DECL : 22.5      ELECT. CUTOFF : 99999      BIT SIZE : 9.5  
 PRESENTATION NAME/DATE = FIRST-COAL-NEUTRON-DEVIATION.0 12/10/2007      VERSION = 3.64EK

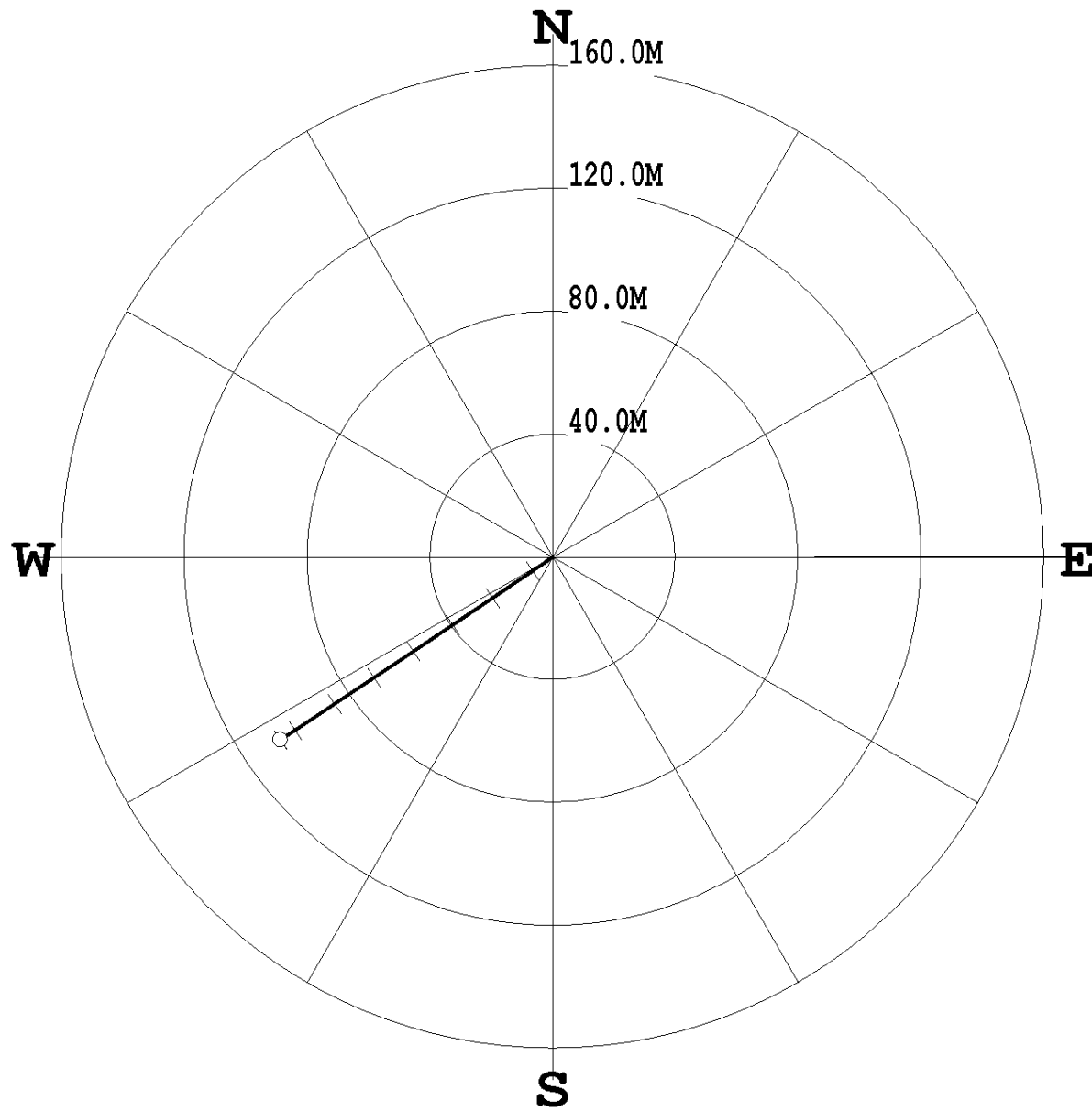
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Sep10,07 14:38:19	GAMMA	0.000 [API-GR ]	2.00 [CPS]
	Sep10,07 14:38:19	GAMMA	320.000 [API-GR ]	345.00 [CPS]
2	Nov14,07 12:00:18	NEUTRON	Default [CPS]	Default [CPS]
	Nov14,07 12:00:18	NEUTRON	271.000 [API-N ]	83.00 [CPS]
3	Aug29,07 16:33:45	SP	0.000 [MV ]	325214.00 [CPS]
	Aug29,07 16:33:45	SP	337.500 [MV ]	152778.00 [CPS]
4	Aug29,07 16:33:52	RES(16N)	0.000 [OHM-M ]	5178.00 [CPS]
	Aug29,07 16:33:52	RES(16N)	1996.000 [OHM-M ]	422358.00 [CPS]
5	Aug29,07 16:33:59	RES(64N)	0.000 [OHM-M ]	4855.00 [CPS]
	Aug29,07 16:33:59	RES(64N)	1990.000 [OHM-M ]	418079.00 [CPS]
6	Aug29,07 16:34:06	TEMP	63.300 [DEG F ]	353180.00 [CPS]
	Aug29,07 16:34:06	TEMP	98.300 [DEG F ]	387606.00 [CPS]
7	Aug29,07 16:34:14	RES	0.000 [OHM ]	4821.00 [CPS]
	Aug29,07 16:34:14	RES	989.000 [OHM ]	161009.00 [CPS]

# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: FIRST COAL  
 LOCATION:  
 HOLE ID: DDH-09  
 DATE OF LOG: 12/18/07  
 PROBE: 9057A 4400

MAG DECL: 22.5

SCALE: 20 M/CM  
 TRUE DEPTH: 147.37 M  
 AZIMUTH: 236.2  
 DISTANCE: 106.7 M  
 + = 20 M INCR  
 ○ = BOTTOM OF HOLE



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

CLIENT : FIRST COAL	HOLE ID. : DDH-09
FIELD OFFICE : CENTURY GEO	DATE OF LOG : 12/18/07
DATA FROM : N/A	PROBE : 9057A , 4400
MAG. DECL. : 22.500	DEPTH UNITS : METERS
LOG: DDH-09_12-18-07_12-36_9057A_.02_10.00_184.17_DEVI.log	

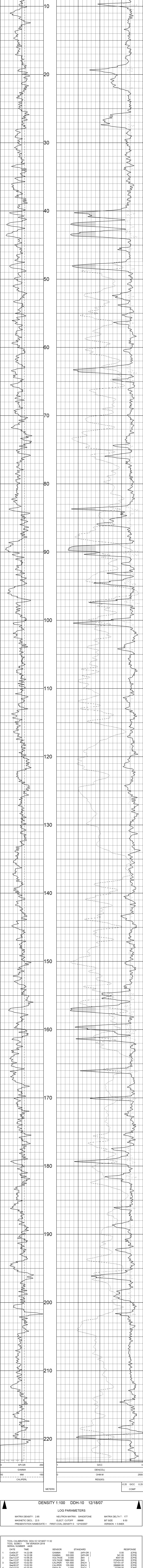
CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
10.02	10.02	-0.01	-0.01	0.0	235.8	38.6	235.8
11.00	10.78	-0.35	-0.52	0.6	235.7	38.6	235.6
12.00	11.56	-0.70	-1.03	1.2	235.6	38.5	235.1
13.00	12.35	-1.05	-1.55	1.9	235.7	38.4	234.6
14.00	13.13	-1.40	-2.06	2.5	235.8	38.4	235.2
15.00	13.91	-1.75	-2.58	3.1	235.8	38.5	235.9
16.00	14.69	-2.10	-3.09	3.7	235.8	38.5	235.8
17.00	15.48	-2.45	-3.61	4.4	235.8	38.5	235.9
18.00	16.26	-2.80	-4.12	5.0	235.8	38.5	235.8
19.00	17.04	-3.15	-4.64	5.6	235.8	38.6	236.1
20.00	17.82	-3.50	-5.15	6.2	235.8	38.5	235.6
21.00	18.61	-3.85	-5.67	6.9	235.8	38.5	236.3
22.00	19.39	-4.20	-6.18	7.5	235.8	38.5	236.3
23.00	20.17	-4.55	-6.70	8.1	235.8	38.5	235.9
24.00	20.96	-4.88	-7.18	8.7	235.8	38.0	254.6
25.00	21.74	-5.23	-7.65	9.3	235.7	37.7	232.9
26.00	22.52	-5.58	-8.15	9.9	235.6	38.4	235.6
27.00	23.31	-5.93	-8.67	10.5	235.6	38.4	236.9
28.00	24.09	-6.28	-9.18	11.1	235.6	38.4	235.6
29.00	24.87	-6.62	-9.70	11.7	235.7	38.4	235.8
30.00	25.66	-6.97	-10.21	12.4	235.7	38.4	232.7
31.00	26.44	-7.32	-10.73	13.0	235.7	38.4	236.3
32.00	27.23	-7.66	-11.24	13.6	235.7	38.3	235.8
33.00	28.01	-8.01	-11.76	14.2	235.7	38.3	235.4
34.00	28.79	-8.36	-12.27	14.8	235.7	38.4	236.5
35.00	29.58	-8.70	-12.78	15.5	235.8	38.4	236.4
36.00	30.36	-9.05	-13.30	16.1	235.8	38.4	236.2
37.00	31.15	-9.40	-13.81	16.7	235.8	38.3	236.1
38.00	31.93	-9.74	-14.33	17.3	235.8	38.3	236.4
39.00	32.72	-10.09	-14.84	17.9	235.8	38.3	236.3
40.00	33.50	-10.44	-15.36	18.6	235.8	38.3	237.1
41.00	34.29	-10.78	-15.87	19.2	235.8	38.2	235.8
42.00	35.07	-11.13	-16.38	19.8	235.8	38.3	236.6
43.00	35.86	-11.47	-16.89	20.4	235.8	38.2	236.3
44.00	36.64	-11.82	-17.41	21.0	235.8	38.2	236.4
45.00	37.43	-12.17	-17.92	21.7	235.8	38.2	235.9
46.00	38.22	-12.51	-18.43	22.3	235.8	38.2	236.5
47.00	39.00	-12.86	-18.95	22.9	235.8	38.2	235.8
48.00	39.79	-13.20	-19.46	23.5	235.8	38.2	236.0
49.00	40.57	-13.55	-19.97	24.1	235.8	38.2	236.6
50.00	41.36	-13.90	-20.48	24.8	235.8	38.2	236.0
51.00	42.15	-14.24	-20.99	25.4	235.9	38.2	236.0
52.00	42.93	-14.59	-21.51	26.0	235.9	38.2	236.3
53.00	43.72	-14.93	-22.02	26.6	235.9	38.2	236.0
54.00	44.51	-15.28	-22.53	27.2	235.9	38.2	236.5
55.00	45.29	-15.62	-23.05	27.8	235.9	38.2	236.0
56.00	46.08	-15.97	-23.56	28.5	235.9	38.1	235.7
57.00	46.86	-16.31	-24.07	29.1	235.9	38.1	236.1
58.00	47.65	-16.66	-24.58	29.7	235.9	38.1	236.1
59.00	48.44	-17.00	-25.09	30.3	235.9	38.1	235.9
60.00	49.22	-17.35	-25.61	30.9	235.9	38.1	236.3
61.00	50.01	-17.69	-26.12	31.5	235.9	38.1	236.6
62.00	50.80	-18.03	-26.63	32.2	235.9	38.0	235.8
63.00	51.59	-18.38	-27.14	32.8	235.9	38.1	235.7
64.00	52.37	-18.72	-27.65	33.4	235.9	38.1	236.5
65.00	53.16	-19.07	-28.16	34.0	235.9	38.0	235.5
66.00	53.95	-19.41	-28.67	34.6	235.9	38.0	235.6
67.00	54.74	-19.76	-29.18	35.2	235.9	38.0	236.6
68.00	55.53	-20.10	-29.69	35.9	235.9	38.0	236.0
69.00	56.32	-20.45	-30.20	36.5	235.9	37.9	235.5
70.00	57.10	-20.79	-30.71	37.1	235.9	38.0	235.6
71.00	57.89	-21.13	-31.22	37.7	235.9	37.9	235.6
72.00	58.68	-21.48	-31.73	38.3	235.9	37.9	236.5
73.00	59.47	-21.82	-32.24	38.9	235.9	37.9	235.8
74.00	60.26	-22.16	-32.75	39.5	235.9	37.9	236.5
75.00	61.05	-22.51	-33.26	40.2	235.9	37.8	236.0
76.00	61.84	-22.85	-33.76	40.8	235.9	37.8	235.9
77.00	62.63	-23.19	-34.27	41.4	235.9	37.8	235.7
78.00	63.42	-23.54	-34.78	42.0	235.9	37.8	236.8
79.00	64.21	-23.88	-35.29	42.6	235.9	37.7	235.6
80.00	65.00	-24.22	-35.79	43.2	235.9	37.8	236.0
81.00	65.79	-24.56	-36.30	43.8	235.9	37.8	235.8
82.00	66.58	-24.91	-36.81	44.4	235.9	37.7	235.7
83.00	67.37	-25.25	-37.32	45.1	235.9	37.7	235.6
84.00	68.16	-25.59	-37.82	45.7	235.9	37.8	236.6
85.00	68.96	-25.93	-38.33	46.3	235.9	37.8	236.0
86.00	69.75	-26.28	-38.84	46.9	235.9	37.7	235.9
87.00	70.54	-26.62	-39.34	47.5	235.9	37.7	236.2
88.00	71.33	-26.96	-39.85	48.1	235.9	37.7	235.8
89.00	72.12	-27.30	-40.36	48.7	235.9	37.6	236.0
90.00	72.91	-27.64	-40.86	49.3	235.9	37.6	236.1
91.00	73.71	-27.98	-41.37	49.9	235.9	37.6	236.2
92.00	74.50	-28.32	-41.88	50.6	235.9	37.6	236.1
93.00	75.29	-28.66	-42.39	51.2	235.9	37.7	236.2
94.00	76.08	-29.00	-42.89	51.8	235.9	37.7	236.1
95.00	76.87	-29.34	-43.40	52.4	235.9	37.6	235.9
96.00	77.66	-29.68	-43.91	53.0	235.9	37.6	236.2
97.00	78.45	-30.03	-44.41	53.6	235.9	37.7	236.1
98.00	79.24	-30.37	-44.92	54.2	235.9	37.7	236.3
99.00	80.04	-30.71	-45.43	54.8	235.9	37.7	236.5
100.00	80.83	-31.05	-45.94	55.4	235.9	37.7	236.3
101.00	81.62	-31.39	-46.44	56.1	235.9	37.7	236.2
102.00	82.41	-31.73	-46.95	56.7	236.0	37.6	235.9
103.00	83.21	-32.07	-47.46	57.3	236.0	37.7	236.2
104.00	84.00	-32.41	-47.97	57.9	236.0	37.7	236.4
105.00	84.79	-32.75	-48.47	58.5	236.0	37.7	236.2
106.00	85.58	-33.09	-48.98	59.1	236.0	37.7	236.2
107.00	86.37	-33.43	-49.49	59.7	236.0	37.7	236.2
108.00	87.16	-33.77	-50.00	60.3	236.0	37.7	236.5
109.00	87.96	-34.11	-50.51	60.9	236.0	37.6	236.2
110.00	88.75	-34.44	-51.01	61.6	236.0	37.6	236.1
111.00	89.54	-34.78	-51.52	62.2	236.0	37.6	236.4
112.00	90.33	-35.12	-52.03	62.8	236.0	37.6	236.3
113.00	91.12	-35.46	-52.54	63.4	236.0	37.6	236.7
114.00	91.92	-35.80	-53.04	64.0	236.0	37.5	236.1
115.00	92.71	-36.14	-53.55	64.6	236.0	37.5	236.4
116.00	93.50	-36.48	-54.06	65.2	236.0	37.5	236.3
117.00	94.29	-36.82	-54.56	65.8	236.0	37.5	236.2
118.00	95.09	-37.16	-55.07	66.4	236.0	37.3	235.2
119.00	95.88	-37.49	-55.57	67.0	236.0	37.4	235.5
120.00	96.68	-37.83	-56.08	67.6	236.0	37.4	235.8
121.00	97.47	-38.17	-56.59	68.3	236.0	37.5	236.1
122.00	98.26	-38.51	-57.09	68.9	236.0	37.4	236.1
123.00	99.06	-38.84	-57.60	69.5	236.0	37.5	236.5
124.00	99.85	-39.18	-58.10	70.1	236.0	37.5	236.8
125.00	100.64	-39.52	-58.61	70.7	236.0	37.5	236.3
126.00	101.44	-39.86	-59.12	71.3	236.0	37.6	237.2
127.00	102.23	-40.19	-59.63	71.9	236.0	37.5	236.5
128.00	103.02	-40.53	-60.13	72.5	236.0	37.5	236.2
129.00	103.81	-40.87	-60.64	73.1	236.0	37.5	236.7
130.00	104.61	-41.20	-61.15	73.7	236.0	37.5	236.3
131.00	105.40	-41.54	-61.65	74.3	236.0	37.5	236.6
132.00	106.20	-41.88	-62.16	75.0	236.0	37.5	236.5
133.00	106.99	-42.21	-62.67	75.6	236.0	37.5	236.2
134.00	107.78	-42.55	-63.18	76.2	236.0	37.5	237.2
135.00	108.57	-42.89	-63.68	76.8	236.0	37.6	236.5
136.00	109.37	-43.23	-64.19	77.4	236.0	37.5	236.4
137.00	110.16	-43.56	-64.70	78.0	236.0	37.6	236.6
138.00	110.95	-43.90	-65.21	78.6	236.0	37.6	237.1
139.00	111.75	-44.24	-65.71	79.2	236.1	37.6	236.3
140.00	112.54	-44.58	-66.22	79.8	236.1	37.6	236.3
141.00	113.33	-44.91	-66.73	80.4	236.1	37.6	236.4
142.00	114.12	-45.25	-67.24	81.0	236.1	37.6	236.6
143.00	114.91	-45.59	-67.75	81.7	236.1	37.7	236.2
144.00	115.71	-45.93	-68.26	82.3	236.1	37.7	236.1
145.00	116.50	-46.27	-68.77	82.9	236.1	37.7	236.4
146.00	117.29	-46.60	-69.28	83.5	236.1	37.6	235.8
147.00	118.08	-46.94	-69.78	84.1	236.1	37.6	236.5
148.00	118.						

		<b>GAMMA - CALIPER - RESISTIVITY COMPENSATED DENSITY</b> <b>DDH-10</b>	
COMPANY	century_geo.com	OTHER SERVICES	NEUTRON DEN
WELL	FIRST COAL	DDH-10	
COUNTRY	CANADA	PROVINCE	BRITISH COLUMBIA
LOCATION	N/A	SECTION	N/A
TOWNSHIP	N/A	RANGE	N/A
API NO	N/A	API NO	N/A
UNIQUE WELL ID			
PERMANENT DATA	GL	ELEVATION NB	N/A
LOG MEASURED FROM	GL	ELEVATION DF	N/A
DRI MEASURED FROM	GL	ELEVATION GL	N/A
DATE	12/18/07	DEPTH DRILLER	228.8
BIT SIZE	9.50	LOG TOP	-0.00
LOG BOTTOM	223.42	CASING OD	7.62
CASING BOTTOM	3	CASING TYPE	STEEL
BOREHOLE FLUID	WATER	BOREHOLE FLUID	N/A
NM TEMPERATURE	N/A	NM TEMPERATURE	N/A
MOD RES	1.0	MOD RES	1.0
MOD WEIGHT	SKEWER	MOD WEIGHT	SKEWER
RECORDED BY	SHELL	RECORDED BY	SHELL
REMARKS 1	50 DEGREE HOLE	REMARKS 2	

DENSITY 1:100 DDH-10 12/18/07

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177  
MAGNETIC DECL : 22.5 ELECT. CUTOFF : 99999 BIT SIZE : 9.50  
PRESENTATION NAME/DATE = FIRST-COAL-DENSITY.0 12/10/2007 VERSION = 3.64EK



DENSITY 1:100 DDH-10 12/18/07

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177  
MAGNETIC DECL : 22.5 ELECT. CUTOFF : 99999 BIT SIZE : 9.50  
PRESENTATION NAME/DATE = FIRST-COAL-DENSITY.0 12/10/2007 VERSION = 3.64EK

DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Oct04.07 14:22:06	GAMMA	7.000 [API-GR ]	0.00 [CPS]
1	Oct04.07 14:22:06	GAMMA	320.000 [API-GR ]	341.00 [CPS]
2	Dec12.07 13:58:25	VOLTAGE	0.000 [MV ]	4037.00 [CPS]
2	Dec12.07 13:58:25	VOLTAGE	1989.000 [MV ]	270424.00 [CPS]
3	Sep30.07 13:02:50	CALIPER	101.600 [INCH ]	157151.47 [CPS]
3	Sep30.07 13:02:50	CALIPER	155.000 [INCH ]	268680.00 [CPS]
4	Dec13.07 10:20:30	DEN(LS)	1.000 [G/CC ]	27756.00 [CPS]
4	Dec13.07 10:20:30	DEN(LS)	2.320 [G/CC ]	2949.00 [CPS]
5	Dec13.07 10:21:28	DEN(SS)	1.000 [G/CC ]	55255.00 [CPS]
5	Dec13.07 10:21:28	DEN(SS)	2.320 [G/CC ]	22002.00 [CPS]
6	Oct04.07 14:23:08	CALIPERL	101.600 [INCH ]	101149.00 [CPS]
6	Oct04.07 14:23:08	CALIPERL	152.400 [INCH ]	168341.00 [CPS]
7	Dec12.07 13:58:49	CURRENT	0.000 [UA ]	5297.00 [CPS]
7	Dec12.07 13:58:49	CURRENT	284.900 [UA ]	28.82 [CPS]
8	Aug17.07 14:21:05	F	Default	
9	Aug17.07 14:21:10	X	Default	

TOOL CALIBRATION DDH-10 12/18/07 11:32  
TOOL 9239C1 TM VERSION 2018  
SERIAL NUMBER 4428

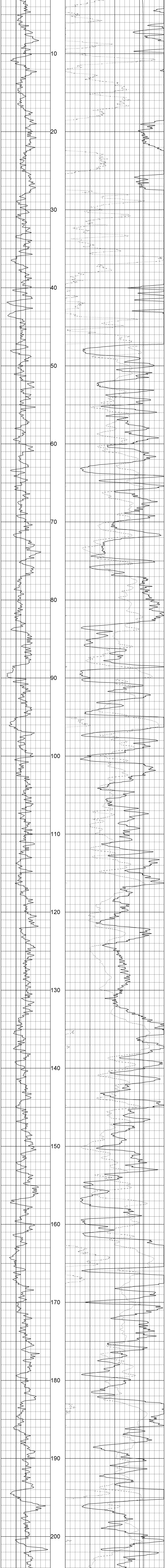


<b>century geo.com</b>		<b>century GEOPHYSICAL CORP.</b>		<b>GAMMA - NEUTRON - RES</b>	
COMPANY	FIRST COAL	WELL	DDH-10	OTHER SERVICES	
COUNTRY	CANADA	PROVINCE	BRITISH COLUMBIA	DEPTH	RES
LOCATION	N/A	SECTION	N/A	NEUTRON	
TOWNSHIP	N/A	RANGE	N/A	API-N	
RANGE	N/A	API-N	N/A	NEUTRON	
UNIQUE WELL ID		PERMANENT DATA	GL	ELEVATION NB MA	
		LOG MEASURED FROM	GL	ELEVATION DF MA	
		DATE	12/18/07	ELEVATION OF MA	
		DEPTH DRIER	228.8		
		BIT SIZE	9.5		
LOG TOP		LOG BOTTOM	7.82		
CASING OD		CASING ID	223.08		
CASING BOTTOM		CASING TYPE	3		
		BOREHOLE FLUID	WATER		
		BARRELS PER HOUR	N/A		
		ROTARY SPEED	N/A		
		LOG MEASUREMENT	N/A		
		WITNESSED BY	SENDER		
		RECORDED BY	SHELL		
		REMARKS 1	50 DEGREE HOLE		
		REMARKS 2			
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS					

**NEUTRON 1:100 DDH-10 12/18/07**

**LOG PARAMETERS**

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177  
MAGNETIC DECL : 22.5 ELECT. CUTOFF : 99999 BIT SIZE : 9.5  
PRESENTATION NAME/DATE = FIRST-COAL-NEUTRON-DEVIATION 0 12/10/2007 VERSION = 3.64EK



**NEUTRON 1:100 DDH-10 12/18/07**

**LOG PARAMETERS**

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177  
MAGNETIC DECL : 22.5 ELECT. CUTOFF : 99999 BIT SIZE : 9.5  
PRESENTATION NAME/DATE = FIRST-COAL-NEUTRON-DEVIATION 0 12/10/2007 VERSION = 3.64EK

**TOOL CALIBRATION DDH-10 12/18/07 10:36**  
**TOOL 9057A TM VERSION 1**  
**SERIAL NUMBER 4400**

DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Sep10.07 14:38:19	GAMMA	0.000 [API-GR ]	2.00 [CPS]
1	Sep10.07 14:38:19	GAMMA	320.000 [API-GR ]	345.00 [CPS]
2	Nov14.07 12:00:18	NEUTRON	Default [CPS]	Default [CPS]
2	Nov14.07 12:00:18	NEUTRON	271.000 [API-N ]	83.00 [CPS]
3	Aug29.07 16:33:45	SP	0.000 [MV ]	325214.00 [CPS]
3	Aug29.07 16:33:45	SP	337.500 [MV ]	152778.00 [CPS]
4	Aug29.07 16:33:52	RES(16N)	0.000 [OHM-M ]	5176.00 [CPS]
4	Aug29.07 16:33:52	RES(16N)	1996.000 [OHM-M ]	422358.00 [CPS]
5	Aug29.07 16:33:59	RES(64N)	0.000 [OHM-M ]	4855.00 [CPS]
5	Aug29.07 16:33:59	RES(64N)	1990.000 [OHM-M ]	418079.00 [CPS]
6	Aug29.07 16:34:06	TEMP	83.300 [DEG F ]	353180.00 [CPS]
6	Aug29.07 16:34:06	TEMP	98.300 [DEG F ]	387606.00 [CPS]
7	Aug29.07 16:34:14	RES	0.000 [OHM ]	4821.00 [CPS]
7	Aug29.07 16:34:14	RES	989.000 [OHM ]	161009.00 [CPS]



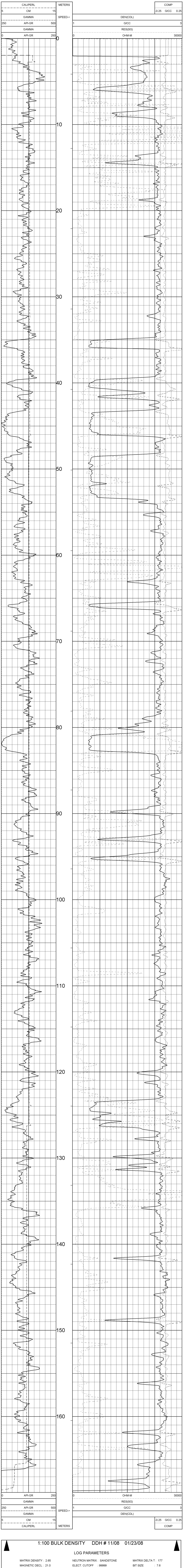


COMPANY	FIRST COAL	OTHER SERVICES
WELL	DDH # 1108	NEUTRON
FIELD	BOULDER	
COUNTY	CANADA	
STATE	BRITISH COLUMBIA	
LOCATION	C LINE	
SECTION	N/A	
TOWNSHIP	N/A	
RANGE	N/A	
API NO.	N/A	
UNIQUE WELL ID		

PERMANENT DATUM	GL	ELEVATION M	N/A
LOG MEASURED FROM	GL	ELEVATION FT	N/A
DELTA MEASURED FROM	GL	ELEVATION GL	N/A
DATE	01/23/08		
DEPTH DRIWER	189.6		
BIT SIZE	7.6		
LOG TOP	-0.28		
LOG BOTTOM	-11.43		
CASING O.D.	168.77		
CASING O.D.	11.43		
CASING BOTTOM	4.67		
CASING TYPE	STEEL		
BOREHOLE FLUID	WATER		
ROI TEMPERATURE	N/A		
ROI WEIGHT	N/A		
MILD RES	1.0		
WITNESSED BY	J. NEAL		
RECORDED BY	50 DEGREE		
REMARKS 1	ACMIU 230		
REMARKS 2			

LOG PARAMETERS

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
 MAGNETIC DECL : 21.0      ELECT. CUTOFF : 99999      BIT SIZE : 7.6  
 PRESENTATION NAME/DATE = 9239 PRC 2007.0 01/18/2008      VERSION = 3.64EK



TOOL CALIBRATION DDH # 11/08 01/23/08 13:52  
 TOOL 9139C1 TM VERSION 1015  
 SERIAL NUMBER 1269

DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Oct18,07 12:42:07	GAMMA	0.000 [API-GR ]	20.00 [CPS]
1	Oct18,07 12:42:07	GAMMA	250.000 [API-GR ]	278.00 [CPS]
2	Aug09,06 11:09:11	VOLTAGE	0.000 [MV ]	4588.00 [CPS]
2	Aug09,06 11:09:11	VOLTAGE	1987.000 [MV ]	271844.00 [CPS]
3	Aug09,06 11:09:45	CALIPER	8.890 [CM ]	178300.00 [CPS]
3	Aug09,06 11:09:45	CALIPER	15.240 [CM ]	331000.00 [CPS]
4	Oct11,07 11:35:59	DEN(LS)	1.000 [G/CC ]	29037.00 [CPS]
4	Oct11,07 11:35:59	DEN(LS)	2.323 [G/CC ]	2485.00 [CPS]
5	Jan20,08 11:23:14	DEN(SS)	1.000 [G/CC ]	48630.00 [CPS]
5	Jan20,08 11:23:14	DEN(SS)	2.323 [G/CC ]	20800.00 [CPS]
6	May17,07 10:06:22	CALIPER	15.250 [CM ]	219880.00 [CPS]
6	May17,07 10:06:22	CALIPER	23.200 [CM ]	304210.00 [CPS]
7	Aug09,06 11:10:59	CURRENT	0.000 [UA ]	5380.00 [CPS]
7	Aug09,06 11:10:59	CURRENT	284.670 [UA ]	28477.00 [CPS]
8	Aug09,06 11:11:25	TEMP	9.720 [DEG C ]	214750.00 [CPS]
8	Aug09,06 11:11:25	TEMP	45.550 [DEG C ]	430700.00 [CPS]
9	Aug09,06 11:08:22	X	Default	



COMPANY	FIRST COAL	OTHER SERVICES
WELL	DDH # 1108	DENSITY
FIELD	BOULDER	
COUNTY	CANADA	
STATE	BRITISH COLUMBIA	
LOCATION	C LINE	
SECTION	N/A	
TOWNSHIP	N/A	
RANGE	N/A	
AP NO.	N/A	
UNIQUE WELL ID		

PERMANENT DATUM	93	ELEVATION KB N/A
LOG MEASURED FROM GL		ELEVATION DF N/A
DELTA MEASURED FROM GL		ELEVATION GL N/A

DATE	01/23/08
DEPTH DILLER	199.6
BIT SIZE	7.6
LOG TOP	8.91
LOG BOTTOM	168.87
CASING OD	11.43
CASING BOTTOM	4.57

CASING TYPE	STEEL
BOREHOLE FLUID	WATER
ROI TEMPERATURE	N/A
MUD RES	N/A
MUD WEIGHT	1.0
RECORDED BY	J. NEAL
REMARKS 1	50 DEGREE
REMARKS 2	ACMOUTH 200

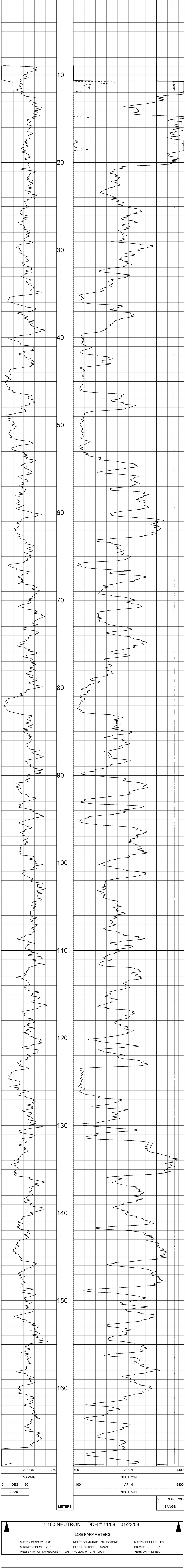
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**1:100 NEUTRON DDH # 11/08 01/23/08**

**LOG PARAMETERS**

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21.0	ELECT. CUTOFF : 99999	BIT SIZE : 7.6
PRESENTATION NAME/DATE = 9057 PRC 2007.0 01/17/2008		VERSION = 3.64EK



**1:100 NEUTRON DDH # 11/08 01/23/08**

**LOG PARAMETERS**

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21.0	ELECT. CUTOFF : 99999	BIT SIZE : 7.6
PRESENTATION NAME/DATE = 9057 PRC 2007.0 01/17/2008		VERSION = 3.64EK

**TOOL CALIBRATION DDH # 11/08 01/23/08 14:28**

TOOL 9057A TM VERSION 5500 SERIAL NUMBER 4429

DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Jul02.07 06:48:29	GAMMA	0.000 [API-GR ]	4.00 [CPS]
1	Jul02.07 06:48:29	GAMMA	320.000 [API-GR ]	322.00 [CPS]
2	Jun27.07 04:18:03	NEUTRON	Default [CPS]	Default [CPS]
2	Jun27.07 04:18:03	NEUTRON	Default [CPS]	Default [CPS]
3	Jul02.07 06:38:12	SP	0.000 [MV ]	340672.00 [CPS]
3	Jul02.07 06:38:12	SP	357.000 [MV ]	171410.00 [CPS]
4	Jul10.07 04:41:27	RES(16N)	0.000 [OHM-M ]	5464.00 [CPS]
4	Jul10.07 04:41:27	RES(16N)	1996.000 [OHM-M ]	422317.00 [CPS]
5	Jun27.07 04:27:01	RES(64N)	0.000 [OHM-M ]	4823.00 [CPS]
5	Jun27.07 04:27:01	RES(64N)	1990.000 [OHM-M ]	418052.00 [CPS]
6	Jul02.07 06:45:45	TEMP	52.600 [DEG F ]	341402.00 [CPS]
6	Jul02.07 06:45:45	TEMP	113.100 [DEG F ]	387139.00 [CPS]
7	Jul10.07 04:42:24	RES	0.000 [OHM ]	4956.00 [CPS]
7	Jul10.07 04:42:24	RES	989.000 [OHM ]	162246.00 [CPS]



