QUINTETTE

#880

From

≈ 234 logs

GP

880

Seems to be Coal

File 746 ??

QUINTETTE COAL LIMITED

1988 GEOLOGICAL REPORT

TRANSFER, GRIZZLY, PERRY CREEK , MARMOT AND

WOLVERINE VALLEY SOUTH AREAS

ADDENDUM I

Prepared by Technical Services Department
Quintette Coal Limited

Century #880

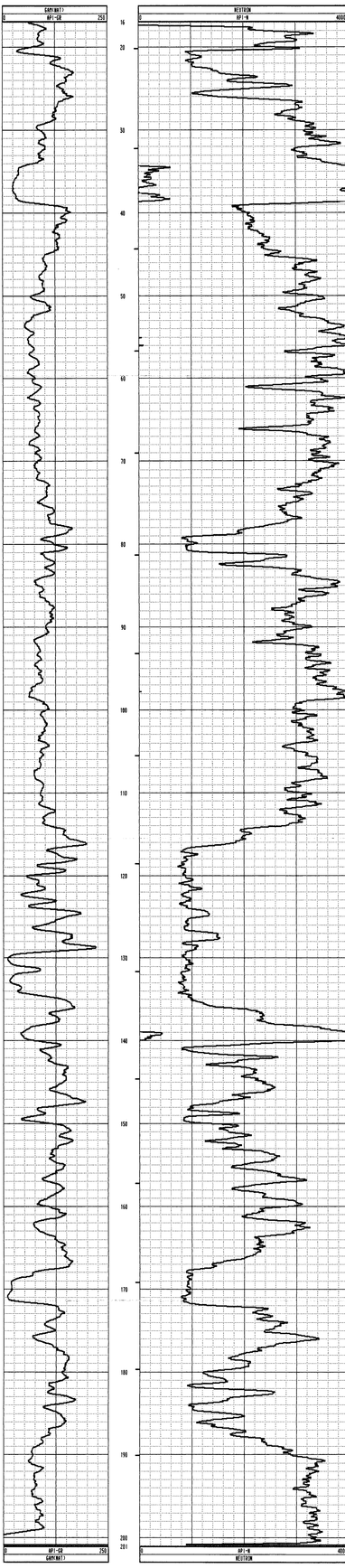
QHR 88002 GAMMA-NEUTRON

COMPANY	: QUINTETTE COAL LTD.		
WELL	: QHR 88002 GAMMA-NEUTRON		
LOCATION/FIELD	: BS 2035G15L31800/HABORS ROAD		
COUNTY	:		
STATE	: BRITISH COLUMBIA		
SECTION	: TOWNSHIP	:	RANGE :

OTHER SERVICES:
DEN.NEUT
GAM.RES.
CAL.DEV

DATE	: 08/04/88	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	: 200 M	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	: 200.94	LOG MEASURED FROM:	GL	DF	:
LOG TOP	: 16.12	DRL MEASURED FROM:		GL	:
CASING DRILLER	: 11	LOGGING UNIT	: 62		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: 0	RECORDED BY	: W. STROEBEL		
BIT SIZE	: 13.34	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 24.5	RM	: 0	TYPE	: 9055A
MATRIX DENSITY	: 2.68	RM TEMPERATURE	: 0	LOG	: 1
FLUID DENSITY	: 1.0	MATRIX DELTA T	: 173	PLOT	: QUIN 2
NEUTRON MATRIX	: SANDSTONE	FLUID DELTA T	: 690	THRESH	: 2500
REMARKS	:				

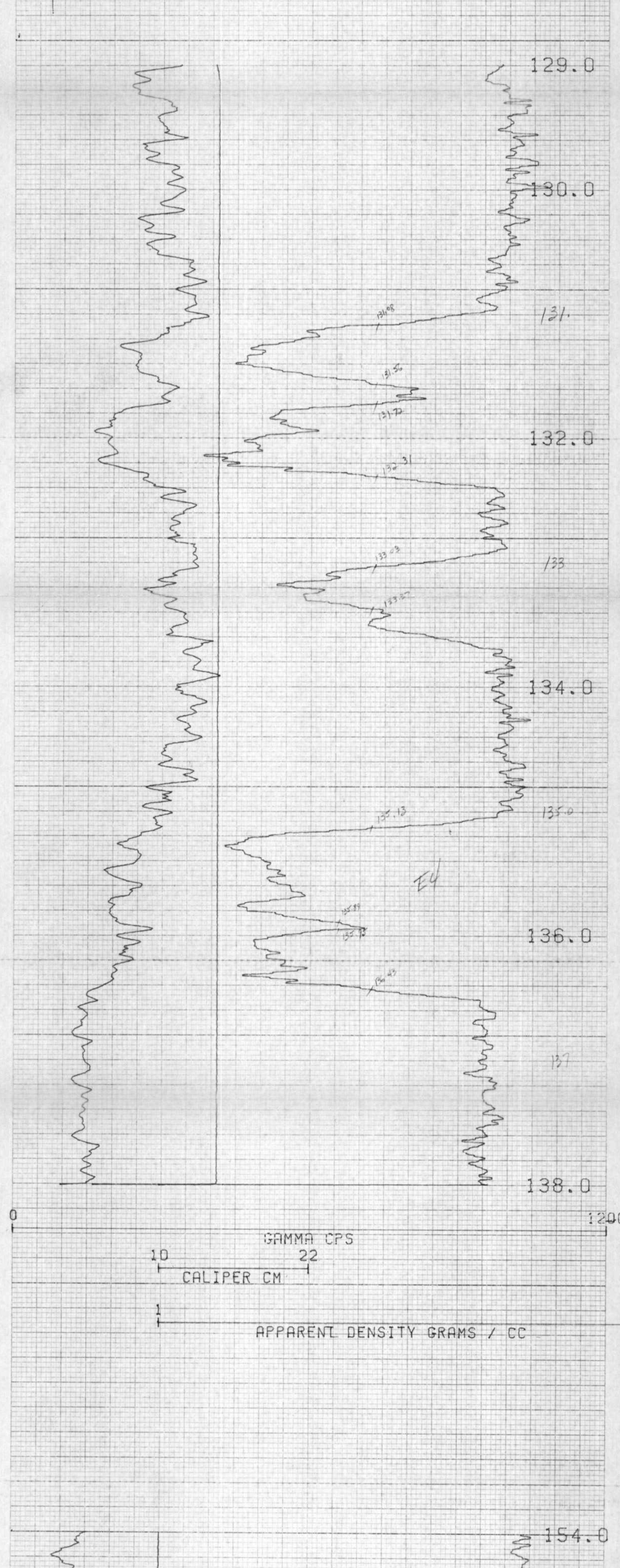
ALL SERVICES PROVIDED SUBJECT TO CGC STANDARD TERMS AND CONDITIONS

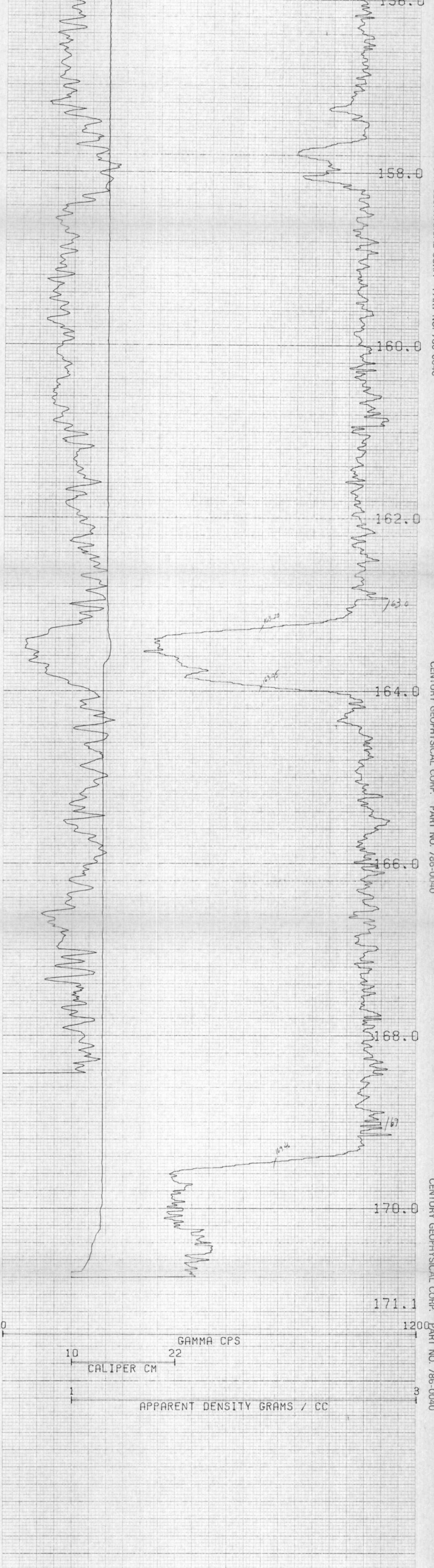


TOOL CALIBRATION TOOL = 9055A SERIAL NUMBER = 46

	CAL-DATE	CAL-TIME	SECS	SENSOR	RESPONSE	STANDARD
0	07/28/88	15:07:18	0	GAM(NAT)	0.000 CPS	0.000 API-GR
1	07/28/88	15:07:18	0	GAM(NAT)	0.000 CPS	0.000 API-GR
2	07/28/88	15:20:10	0	POROSITY	0.000 CPS	190.000 CPS
3	07/28/88	15:07:18	0	RES	0.000 CPS	0.000 OHM
4	07/28/88	15:07:18	0	RES	0.000 CPS	0.000 OHM
5	07/28/88	15:07:18	0	SP	0.000 CPS	0.000 MV
6	07/28/88	15:07:18	0	SP	0.000 CPS	0.000 MV
7	07/28/88	15:19:56	0	NEUTRON	0.000 CPS	0.000 API-N
8	07/28/88	15:19:56	0	NEUTRON	190.000 CPS	271.000 API-N

1.0
2.0
4.0
6.0
8.0
10.0
12.0
14.0
16.0
18.0
20.0
21.0
0
GAMMA CPS
1200
10
CALIPER CM
22
APPARENT DENSITY GRAMS / CC.
26.0
28.0
30.0
31.0
66.0
68.0
70.0
72.0
74.0
76.0
78.0
80.0
82.0
83.0
109.0
110.0
112.0
114.0
CENTURY GEOPHYSICAL CORP. PART NO. 7BE-0060





COMPU-LOG V8L2 PLOT 06-03-80

#880

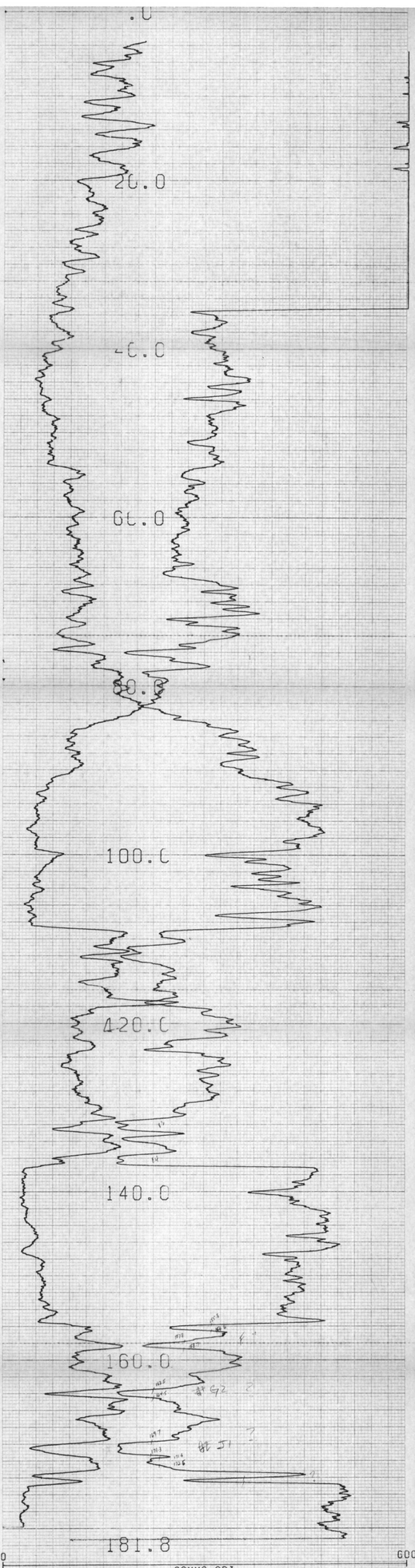
QPR 88001 (2 of 2)

GAMMA DENSITY CALIPR

PERRY CREEK

HOLE DIAMETER : 13.1
PROBE # 9030A1- 403
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 7500
SENSOR #4 CAL BIAS = 98
DATA V8L2*A TRUCK # 604
MIKE APPL.#1708L1

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040



COMPU-LOG V8L2 PLOT 05-24-88

#880

QPR88001
GAMMA-NEUTRON(DEV)
PERRY CREEK

HOLE DIAMETER : 13.0
PROBE # 9055A - 079
SENSOR #4 CAL STD CPS = 152
SENSOR #4 CAL RUN CPS = 186
SENSOR #4 CAL BIAS = 0
DATA V8L2WA TRUCK # 646
L.Y APPL.#7 L1

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORPORATION

* * * * * * * * VERTICAL DEVIATION * * * * * * * *

COMPU-LOG V8L1 DEVIATION

CLIENT : GAMMA-NEUTRON(DEV)
LOCATION : PERRY CREEK
DATA FROM : V8L2*A

HOLE ID : QPR88001
DATE OF LOG : 05-24-80
PROBE : 9055A 0079

TD = TOTAL DEPTH
T = TOP OF ZONE
B = BOTTOM OF ZONE

DEPTH	TRUE DEPTH	NORTH DEV	EAST DEV	DISTANCE	AZIMUTH	SA	SAB
.00	.00	.00	.00	.00	.0	.0	.0
10.00	9.98	.20	-.11	.23	331.1	1.3	331.0
20.00	19.98	.22	.03	.22	8.1	.8	83.5
30.00	29.97	.20	.34	.39	59.3	1.7	93.4
40.00	39.97	-.06	.54	.55	96.6	1.9	142.1
50.00	49.96	-.33	.64	.73	117.3	1.6	159.8
60.00	59.96	-.47	.77	.90	121.7	1.0	139.2
70.00	69.95	-.58	.94	1.11	121.9	1.1	122.9
80.00	79.95	-.62	1.13	1.29	118.8	1.1	100.1
90.00	89.94	-.47	1.50	1.57	107.6	2.2	67.9
100.00	99.89	-.01	2.17	2.17	90.4	4.6	55.7
110.00	109.72	.81	3.34	3.44	76.4	8.2	54.7
120.00	119.67	1.41	4.04	4.28	70.8	5.2	49.5
130.00	129.63	2.01	4.62	5.04	66.5	4.7	43.6
140.00	139.59	2.61	5.28	5.89	63.7	5.1	47.6
150.00	149.55	3.23	5.89	6.72	61.2	4.9	44.5
160.00	159.48	4.01	6.61	7.74	58.7	6.1	42.6
170.00	169.43	4.74	7.26	8.67	56.8	5.5	41.5
180.00	179.35	5.59	8.07	9.82	55.3	6.7	43.8
TD 181.70	181.04	5.70	8.17	9.96	55.1	5.2	40.8

088#

CENTURY GEOPHYSICAL CORPORATION

* * * * * * * * VERTICAL DEVIATION * * * * * * * *

COMPU-LOG V8L1 DEVIATION

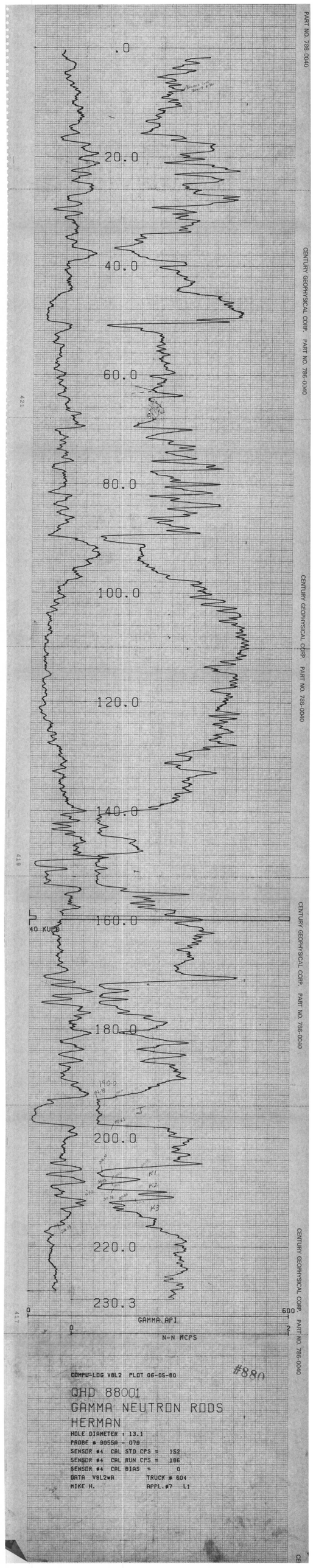
CLIENT : GAMMA NEUTRON DEV.
LOCATION : HERMAN
DATA FROM : V8L2*A

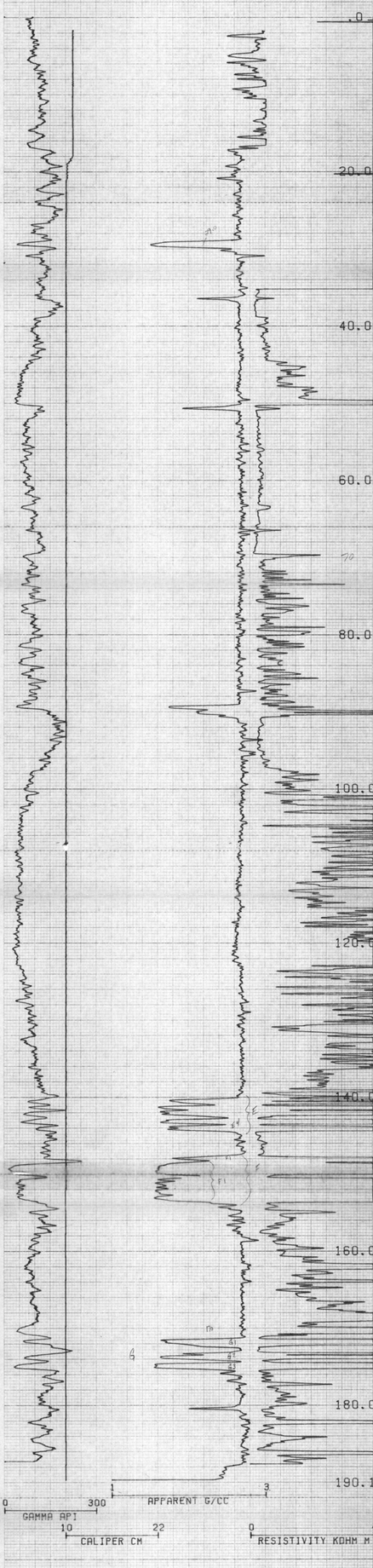
HOLE ID : QHD 88001
DATE OF LOG : 06-05-90
PROBE : 9055A 0079

#880

TD = TOTAL DEPTH
T = TOP OF ZONE
B = BOTTOM OF ZONE

DEPTH	TRUE DEPTH	NORTH DEV	EAST DEV	DISTANCE	AZIMUTH	SA	SAB
.00	.00	.00	.00	.00	.0	.0	.0
10.00	8.79	-4.07	-2.46	4.75	211.2	28.4	211.1
20.00	17.58	-8.13	-4.96	9.52	211.4	28.5	211.7
30.00	26.25	-12.02	-8.07	14.48	213.9	29.8	218.5
40.00	34.93	-15.83	-11.24	19.42	215.4	29.7	219.7
50.00	43.62	-19.64	-14.37	24.34	216.2	29.5	219.4
60.00	52.34	-23.43	-17.49	29.24	216.7	29.3	219.4
70.00	61.08	-27.14	-20.63	34.09	217.2	29.0	220.1
80.00	69.83	-30.80	-23.78	38.92	217.7	28.9	220.8
90.00	78.60	-34.48	-26.88	43.72	217.9	28.7	220.1
100.00	87.39	-38.09	-29.98	48.48	218.2	28.4	220.6
110.00	96.20	-41.68	-33.09	53.22	218.5	28.3	220.9
120.00	105.01	-45.21	-36.22	57.93	218.7	28.1	221.4
130.00	113.83	-48.74	-39.34	62.63	218.9	28.0	221.4
140.00	122.67	-52.24	-42.45	67.32	219.1	27.9	221.5
150.00	131.52	-55.68	-45.59	71.96	219.3	27.7	222.4
160.00	140.39	-59.14	-48.64	76.57	219.4	27.4	221.4
170.00	149.27	-62.54	-51.74	81.17	219.6	27.4	222.2
180.00	158.15	-65.95	-54.82	85.76	219.7	27.3	222.1
190.00	167.03	-69.33	-57.93	90.35	219.9	27.3	222.5
TD 191.30	168.19	-69.78	-58.31	90.94	219.9	27.0	220.2


PART NO. 786-0040
CENTURY GEOPHYSICAL CORP.
.0
20.0
40.0
60.0
80.0
100.0
120.0
140.0
160.0
40 KUPS
180.0
190.0
200.0
K1
K2
K3
220.0
230.3
0
600
GAMMA API
0
2
N-N KCPS
COMPU-LOG V8L2 PLOT 06-05-80
#880
QHD 88001
GAMMA NEUTRON RODS
HERMAN
HOLE DIAMETER : 13.1
PROBE # 8055A - 079
SENSOR #4 CAL STD CPS = 152
SENSOR #4 CAL RUN CPS = 186
SENSOR #4 CAL BIAS = 0
DATA V8L2WA TRUCK # 604
MIKE H. APPL.#7 L1



CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORP.

#880

COMPU-LOG V8L2 PLOT 06-05-80

QHD 88001

GAMMA DENSITY CALIPR

HERMAN

HOLE DIAMETER : 13.1

PROBE # 8030A1- 403

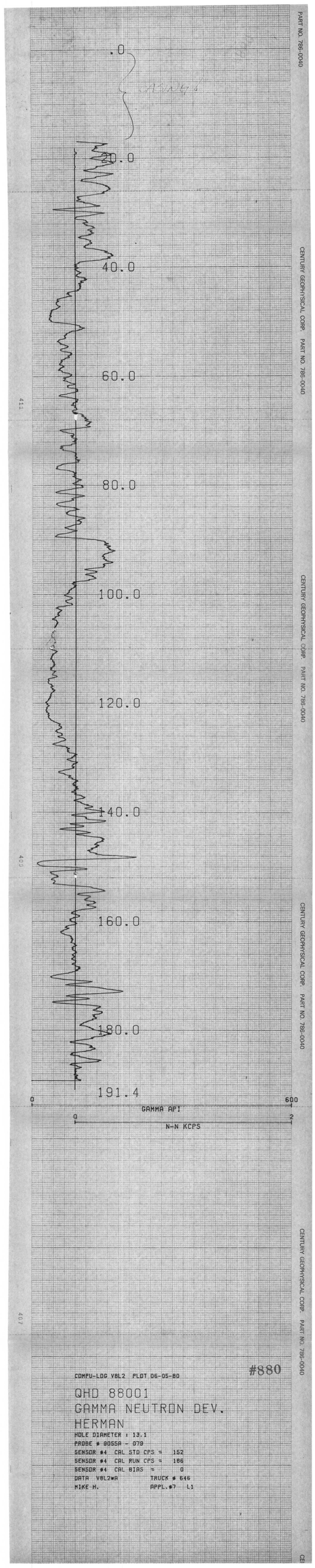
SENSOR #4 CAL STD CPS = 6588

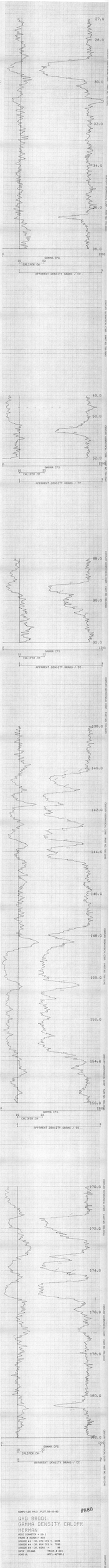
SENSOR #4 CAL RUN CPS = 7500

SENSOR #4 CAL BIAS = 98

DATA V8L2WA TRUCK # 604

MIKE H. APPL.#30 L1


PART NO. 786-0040
CENTURY GEOPHYSICAL CORP.
.0
20.0
40.0
60.0
80.0
100.0
120.0
140.0
160.0
180.0
191.4
0
600
GAMMA API
0
2
N-N KCPS
#880
COMPU-LOG V8L2 PLOT 06-05-80
QHD 88001
GAMMA NEUTRON DEV.
HERMAN
HOLE DIAMETER : 13.1
PROBE # 9055A - 079
SENSOR #4 CAL STD CPS = 152
SENSOR #4 CAL RUN CPS = 186
SENSOR #4 CAL BIAS = 0
DATA V8L2WR
TRUCK # 646
MIKE H.
APPL.#7 L1


27.0
28.0
30.0
32.0
34.0
36.0
GAMMA CPS
CALIPER CM
APPARENT DENSITY GRAMS / CC
40.0
50.0
52.0
GAMMA CPS
CALIPER CM
APPARENT DENSITY GRAMS / CC
88.0
90.0
92.0
GAMMA CPS
CALIPER CM
APPARENT DENSITY GRAMS / CC
138.0
140.0
142.0
144.0
146.0
148.0
150.0
152.0
154.0
156.0
GAMMA CPS
CALIPER CM
APPARENT DENSITY GRAMS / CC
170.0
172.0
174.0
176.0
178.0
180.0
182.0
GAMMA CPS
CALIPER CM
APPARENT DENSITY GRAMS / CC
COMPU-LOG V6.2 PLOT:06-05-93
#880
QHD 88001
GAMMA DENSITY CALIPR
HERMAN
HOLE DIAMETER = 13.1
SONDE DIAMETER = 5.0
SENSOR #1 CDL ZTD CTR % 6200
SENSOR #2 CDL ZDA TTD % 7000
SENSOR #3 CDL BIAS % 30
DATE: 06/24/93 TRACK # 004 |
HOLE #: DATE: 07/08/1 |

VERTICAL DEVIATION

COMPU-LOG V8L1 DEVIATION
DATA FROM : V8L2*A

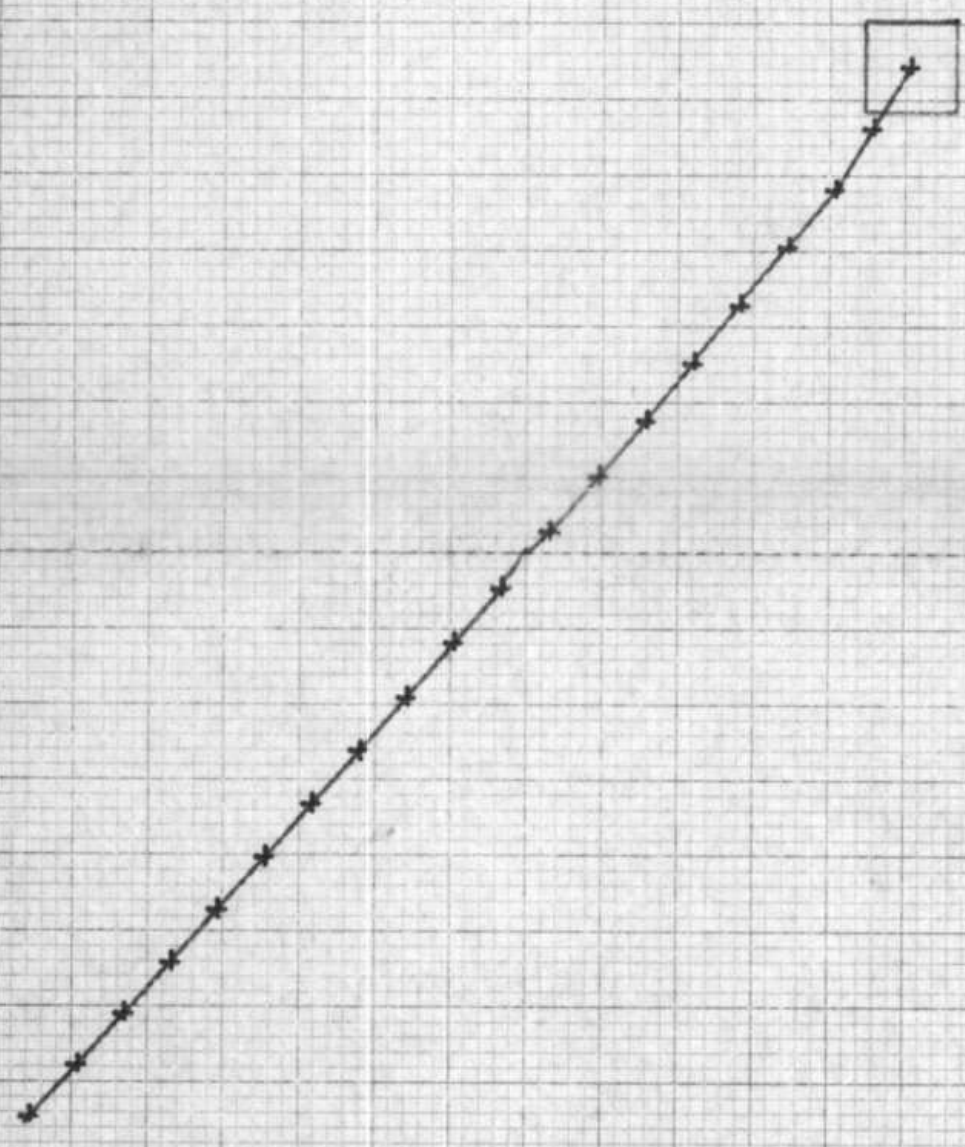
#880

CLIENT : GAMMA NEUTRON DEV.
LOCATION : HERMAN
[redacted]
DATE OF LOG : 06-05-80
PROBE : 9055A 0079

SCALE: 5.00 M/DIV
MAG DECL: 24.5
TRUE DEPTH: 168.2 M
AZIMUTH: 219.9
DISTANCE: 90.94 M

+ = 10.0 M INCR
Δ = TOP OF ZONE
◇ = BOTTOM OF ZONE

TRUE NORTH ↑



CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORP. PART NO.

CGC

Century #880

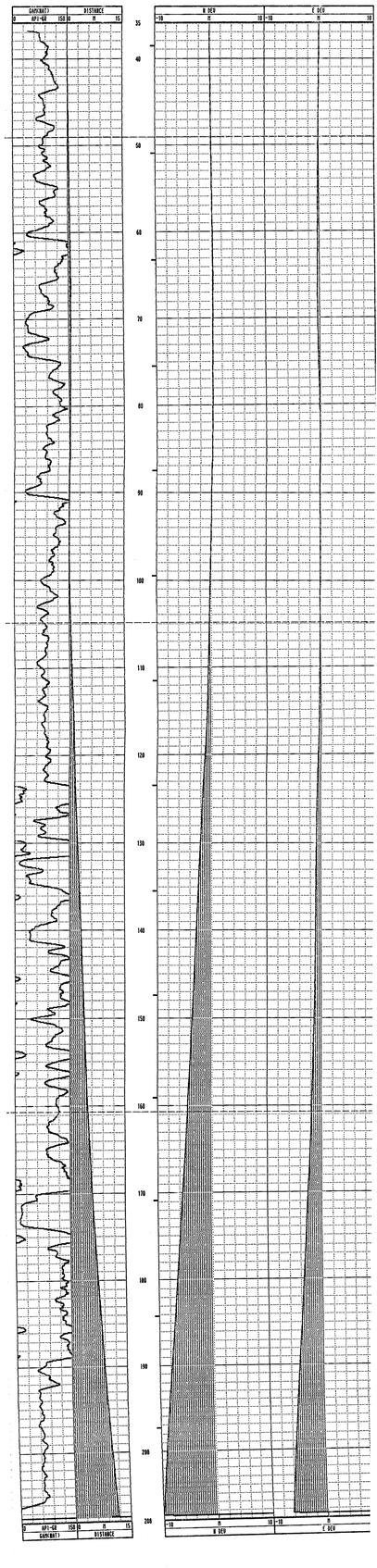
QHR88001 DEVIATION

COMPANY	: QUINTETTE COAL LTD.		
WELL	: QHR88001 DEVIATION		
LOCATION/FIELD	: BL 20.000:SL 31.600/NABORS RD		
COUNTY	:		
STATE	: B. C.		
SECTION	:	TOWNSHIP	:
RANGE	:		

OTHER SERVICES:
GAM.DEN.
RES.CAL.
NEUT.DEV

DATE	: 08/01/88	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	: 210	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	: 207.60	LOG MEASURED FROM:	GL	DF	:
LOG TOP	: 36.86	DRL MEASURED FROM:	GL	GL	:
CASING DRILLER	: 32.04	LOGGING UNIT	: 62		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: 00	RECORDED BY	: W. STROEBEL		
BIT SIZE	: 12.7	BOREHOLE FLUID	: WATER	FILE	: PROCESSED
MAGNETIC DECL.	: 24.500	RM	: 0	TYPE	: 9055A
MATRIX DENSITY	: 2.68	RM TEMPERATURE	: 0	LOG	: 7
FLUID DENSITY	: 1.0	MATRIX DELTA T	: 173	PLOT	: 9055-D 1
NEUTRON MATRIX	: SANDSTONE	FLUID DELTA T	: 690	THRESH:	2500
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO CGC STANDARD TERMS AND CONDITIONS



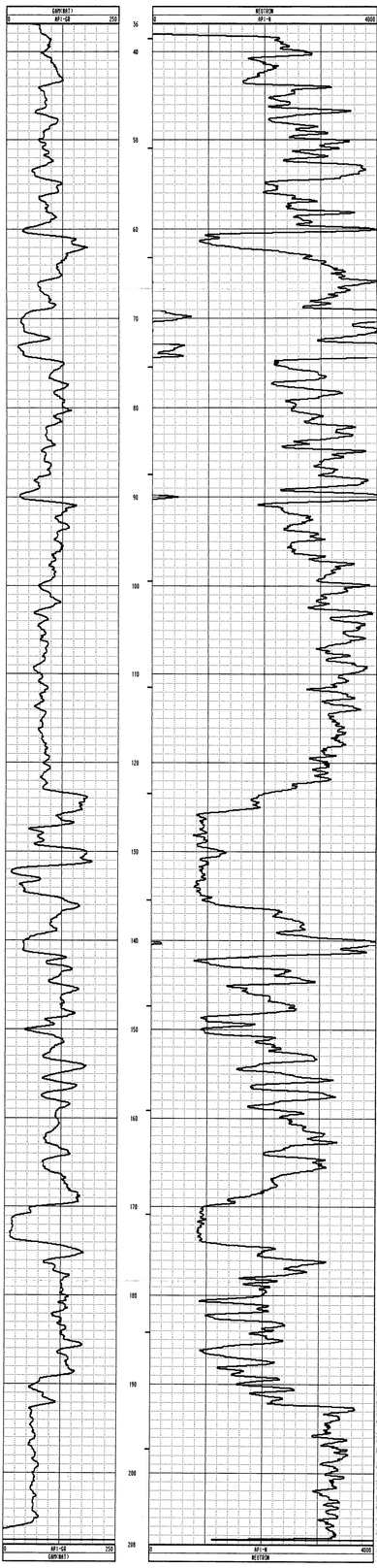
#680

Century

QHR88001 GAMMA-NEUTRON

COMPANY	: QUINTETTE COAL LTD.			OTHER SERVICES:	
WELL	: QHR88001 GAMMA-NEUTRON			GAM.DEN.	
LOCATION/FIELD	: BL 20.000:SL 51.800/NABORS RD			RES.CAL.	
COUNTY	:			NEUT.DEV	
STATE	: B. C.				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 08/01/88	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	: 210	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	: 207.60	LOG MEASURED FROM:	GL	DF	:
LOG TOP	: 36.86	DRL MEASURED FROM:	GL	GL	:
CASING DRILLER	: 32.04	LOGGING UNIT	: 62		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS:	00	RECORDED BY	: W. STROEBEL		
BIT SIZE	: 12.7	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 24.5	RM	: 0	TYPE	: 9055A
MATRIX DENSITY	: 2.68	RM TEMPERATURE	: 0	LOG	: 0
FLUID DENSITY	: 1.0	MATRIX DELTA T	: 173	PLOT	: QUIN 2
NEUTRON MATRIX	: SANDSTONE	FLUID DELTA T	: 690	THRESH:	2500
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO CGC STANDARD TERMS AND CONDITIONS



TOOL CALIBRATION TOOL = 9055A SERIAL NUMBER = 46

	CAL-DATE	CAL-TIME	SRCE	SENSOR	RESPONSE	STANDARD
0	07/28/88	15:07:18	0	GAM(NAT)	0.000 CPS	0.000 API-GR
1	07/28/88	15:07:18	0	GAM(NAT)	0.000 CPS	0.000 API-GR
2	07/28/88	15:20:10	0	POROSITY	0.000 CPS	190.000 CPS
3	07/28/88	15:07:18	0	RES	0.000 CPS	0.000 OHM
4	07/28/88	15:07:18	0	RES	0.000 CPS	0.000 OHM
5	07/28/88	15:07:18	0	SP	0.000 CPS	0.000 MV
6	07/28/88	15:07:18	0	SP	0.000 CPS	0.000 MV
7	07/28/88	15:19:56	0	NEUTRON	0.000 CPS	0.000 API-N
8	07/28/88	15:19:56	0	NEUTRON	190.000 CPS	271.000 API-N

Century

#880

QHR88001 GAMMA-DENSITY

COMPANY	: QUINTETTE COAL LTD.			OTHER SERVICES: GAM.DEN. RES.CAL. NEUT.DEV	
WELL	: QHR88001 GAMMA-DENSITY				
LOCATION/FIELD	: BL 20.000;SL 31,800/NABORS RD				
COUNTY	:				
STATE	: B. C.				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 08/01/88	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	: 210	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 208.28	LOG MEASURED FROM	: GL	DF	:
LOG TOP	: 0.80	DRL MEASURED FROM	: GL	GL	:
CASING DRILLER	: 32.04	LOGGING UNIT	: 62		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: 00	RECORDED BY	: W. STROEBEL		
BIT SIZE	: 12.7	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 24.5	RM	: 0	TYPE	: 9030AA
MATRIX DENSITY	: 2.68	RM TEMPERATURE	: 0	LOG	: 5
FLUID DENSITY	: 1.0	MATRIX DELTA T	: 173	PLOT	: 9030 16
NEUTRON MATRIX	: SANDSTONE	FLUID DELTA T	: 690	THRESH	: 2500
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO CGC STANDARD TERMS AND CONDITIONS

TOOL CALIBRATION TOOL = 9030AA SERIAL NUMBER = 445

	CAL-DATE	CAL-TIME	SRCE	SENSOR	RESPONSE	STANDARD
0	07/28/88	12:57:25	0	GAM(NAT)	0.000 CPS	0.000 API-GR
1	07/28/88	12:57:25	0	GAM(NAT)	0.000 CPS	0.000 API-GR
2	07/28/88	13:35:38	0	DENSITY	5432.600 CPS	1.106 G/CC
3	07/28/88	13:35:38	0	DENSITY	2144.000 CPS	2.120 G/CC
4	07/28/88	12:57:25	0	RES(MG)	0.000 CPS	0.000 OHM-M
5	07/28/88	12:57:25	0	RES(MG)	0.000 CPS	0.000 OHM-M
6	07/28/88	15:53:48	0	CALIPER	208.200 CPS	7.600 CM
7	07/28/88	15:53:48	0	CALIPER	1790.500 CPS	17.800 CM
8	07/28/88	12:57:25	0	DENSITYH	0.000 CPS	0.000 G/CC
9	07/28/88	12:57:25	0	DENSITYH	0.000 CPS	0.000 G/CC
10	07/28/88	12:57:25	0	CALIPERL	0.000 CPS	0.000 CM
11	07/28/88	12:57:25	0	CALIPERL	0.000 CPS	0.000 CM

#880

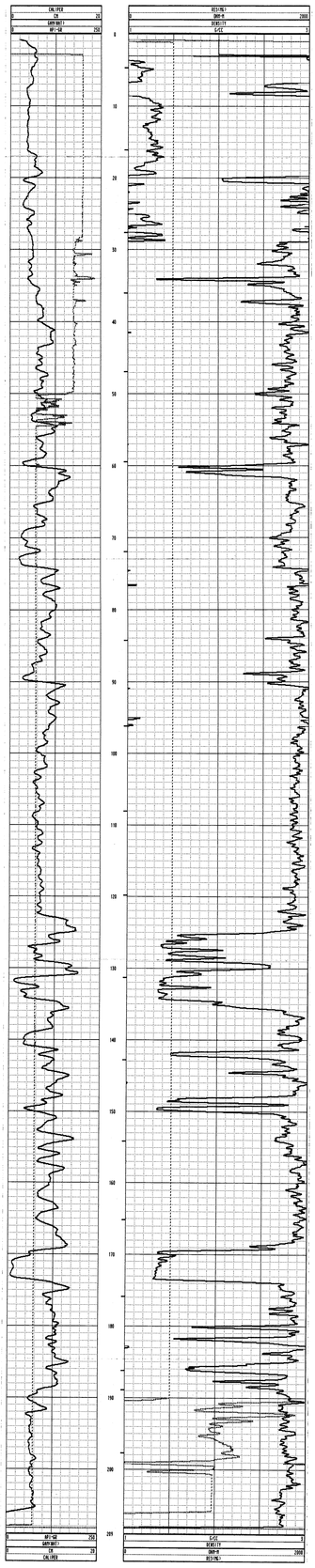
Century

QHR88001 GAMMA-DENSITY

COMPANY	: QUINTETTE COAL LTD.		OTHER SERVICES:
WELL	: QHR88001 GAMMA-DENSITY		GAM.DEN.
LOCATION/FIELD	: BL 20.000ISL 31.000/NABORS RD		RES.CAL.
COUNTY	:		NEUT.DEG
STATE	: B. C.		
SECTION	:	TOWNSHIP :	RANGE :

DATE	: 08/01/88	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	: 210	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	: 208.20	LOG MEASURED FROM:	GL	DF	:
LOG TOP	: 0.00	DRL MEASURED FROM:	GL	GL	:
CASING DRILLER	: 52.04	LOGGING UNIT	: 62		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS:	00	RECORDED BY	: W. STROEBEL		
BIT SIZE	: 12.7	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 24.5	RM	: 0	TYPE	: 9030AA
MATRIX DENSITY	: 2.68	RM TEMPERATURE	: 0	LOG	: 0
FLUID DENSITY	: 1.0	MATRIX DELTA T	: 173	PLOT	: QUIK 3
NEUTRON MATRIX	: SANDSTONE	FLUID DELTA T	: 690	THRESH:	2500
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO CGC STANDARD TERMS AND CONDITIONS



TOOL CALIBRATION TOOL : 9030AA SERIAL NUMBER : 445

	CAL-DATE	CAL-TIME	SRCE	SENSOR	RESPONSE	STANDARD
0	07/28/88	12:57:25	0	GAMMAN1	0.000 CPS	0.000 API-GR
1	07/28/88	12:57:25	0	GAMMAN1	0.000 CPS	0.000 API-GR
2	07/28/88	13:35:18	0	DENSITY	5432.600 CPS	1.106 G/CC
3	07/28/88	13:35:18	0	DENSITY	2144.000 CPS	2.120 G/CC
4	07/28/88	12:57:25	0	RESIM1	0.000 CPS	0.000 OHM-M
5	07/28/88	12:57:25	0	RESIM1	0.000 CPS	0.000 OHM-M
6	07/28/88	15:55:48	0	CALIPER	208.200 CPS	7.600 CM
7	07/28/88	15:55:48	0	CALIPER	1790.500 CPS	17.800 CM
8	07/28/88	12:57:25	0	DENSITYH	0.000 CPS	0.000 G/CC
9	07/28/88	12:57:25	0	DENSITYH	0.000 CPS	0.000 G/CC
10	07/28/88	12:57:25	0	CALIPER1	0.000 CPS	0.000 CM
11	07/28/88	12:57:25	0	CALIPER1	0.000 CPS	0.000 CM

VERTICAL DEVIATION

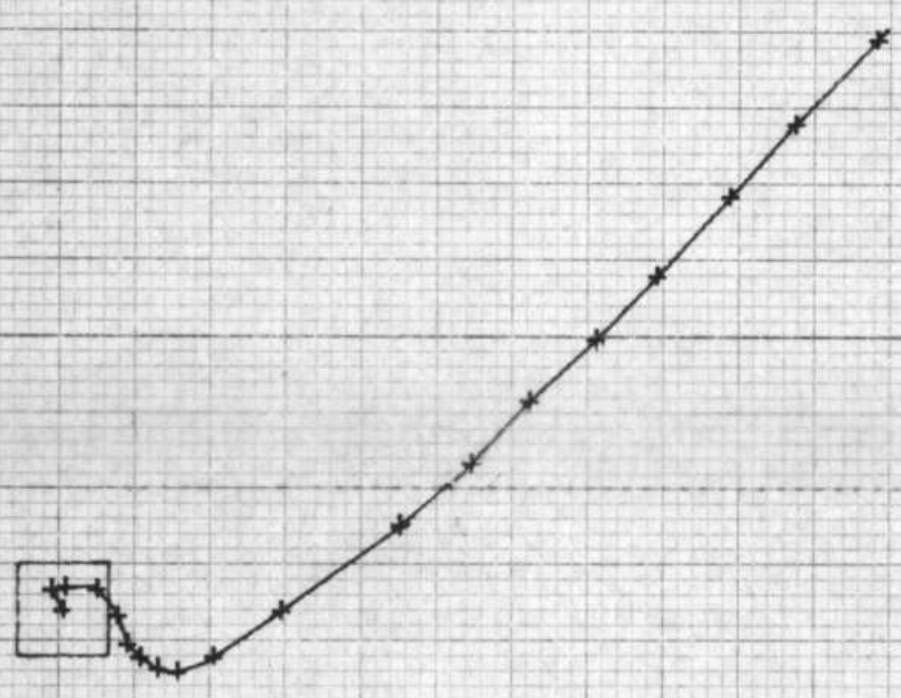
COMPU-LOG V8L1 DEVIATION
DATA FROM : V8L2*A

CLIENT : GAMMA-NEUTRON(DEV)
LOCATION : PERRY CREEK
HOLE ID : QPR88001
DATE OF LOG : 05-24-88
PROBE : 9055A 0079

SCALE: .75 M/DIV
MAG DECL: 24.5
TRUE DEPTH: 181.0 M
AZIMUTH: 55.1
DISTANCE: 9.96 M

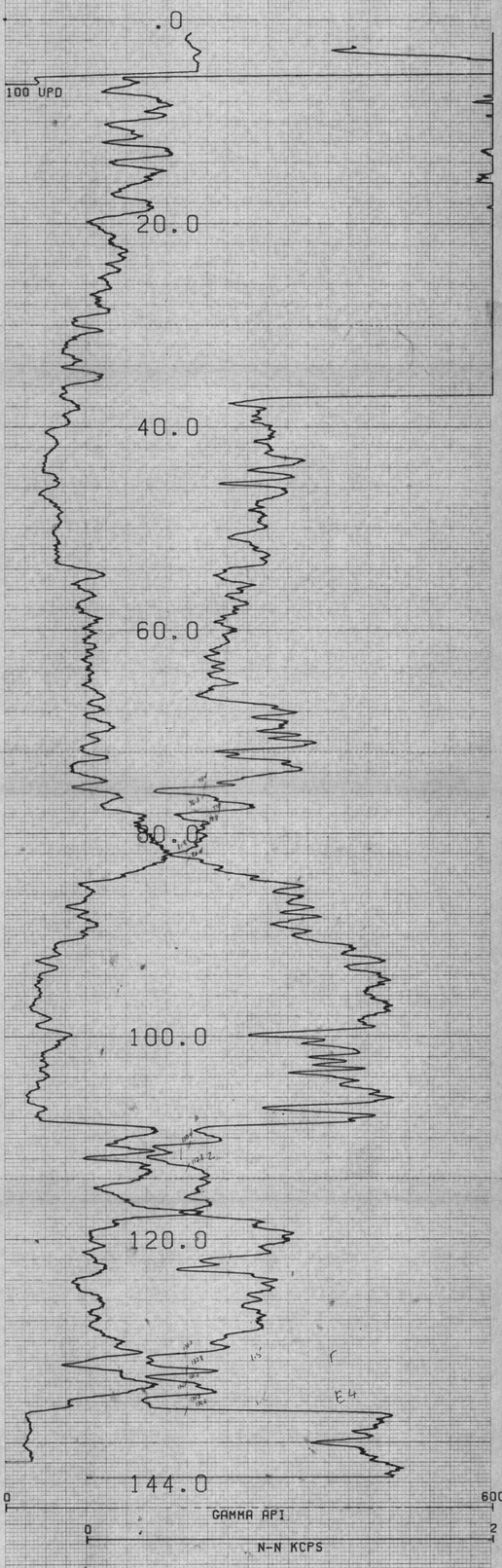
+ = 10.0 M INCR
Δ = TOP OF ZONE
◇ = BOTTOM OF ZONE

TRUE NORTH ↑



CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040



COMPU-LOG V8L2 PLOT 05-22-80

#880

QPR88001

GAMMA-NEUTRON(DEV)

PERRY CREEK

HOLE DIAMETER : 13.0

PROBE # 9055A - 079

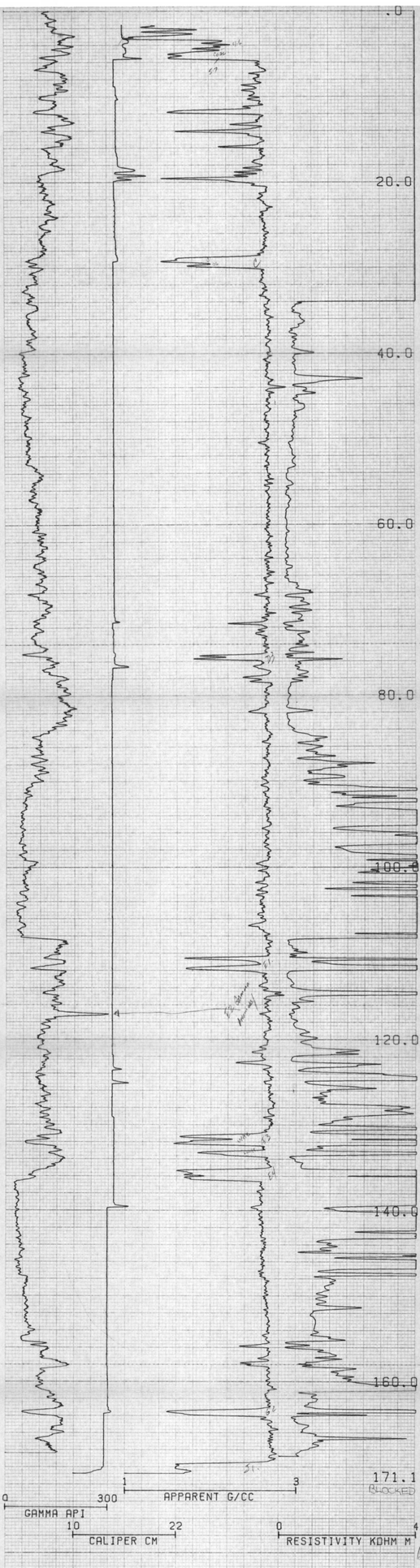
SENSOR #4 CAL STD CPS = 152

SENSOR #4 CAL RUN CPS = 186

SENSOR #4 CAL BIAS = 0

DATA V8L2=A TRUCK # 604

L.Y APPL.#7 L1



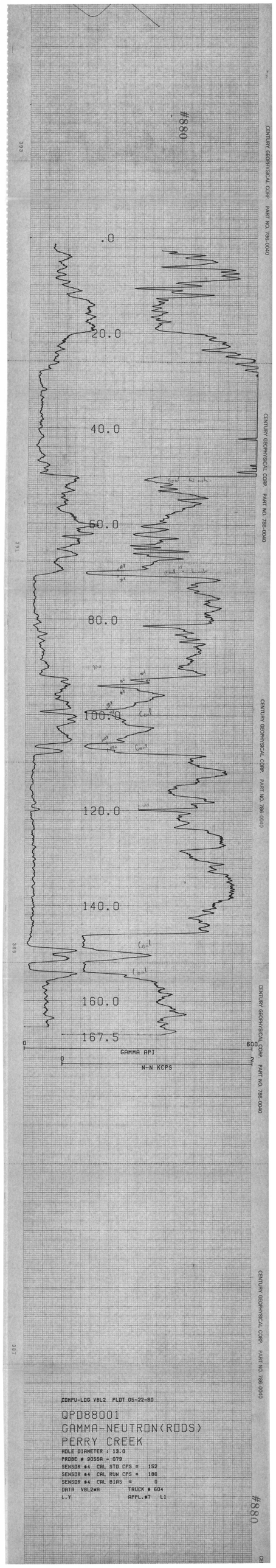
COMPU-LOG V8L2 PLOT 06-03-80

QPR 88001
GAMMA DENSITY CALIPR
PERRY CREEK

HOLE DIAMETER : 13.1
PROBE # 9030A1- 403
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 7500
SENSOR #4 CAL BIAS = 98
DATA V8L2*A TRUCK # 604
MIKE APPL.#30 L1

#880

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040


CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
#880
.0
20.0
40.0
60.0
80.0
100.0
120.0
140.0
160.0
167.5
0
600
GAMMA API
0
2
N-N KCPS
COMPU-LOG V8L2 PLOT 05-22-80
QPD88001
GAMMA-NEUTRON(RODS)
PERRY CREEK
HOLE DIAMETER : 13.0
PROBE # 9055A - 079
SENSOR #4 CAL STD CPS = 152
SENSOR #4 CAL RUN CPS = 186
SENSOR #4 CAL BIAS = 0
DATA V8L2WA TRUCK # 604
L.Y APPL.#7 L1
#880

VERTICAL DEVIATION

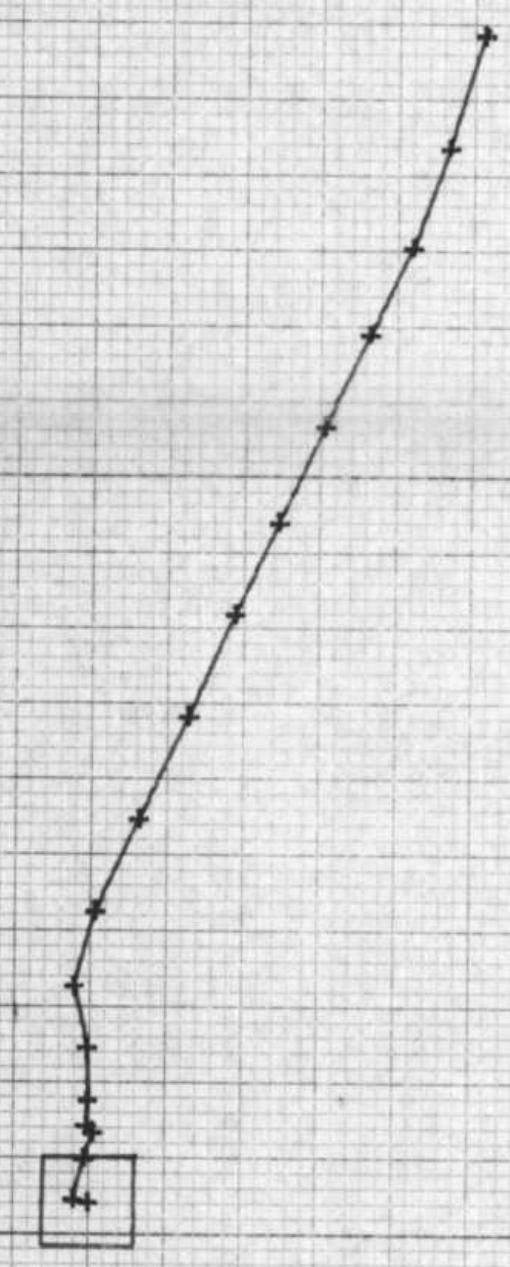
COMPU-LOG V8L1 DEVIATION
DATA FROM : V8L2*A

CLIENT : GAMMA-NEUTRON(DEV)
LOCATION : PERRY CREEK
HOLE ID : QPD88001
DATE OF LOG : 05-22-80
PROBE : 9055A 0079

SCALE: .25 M/DIV
MAG DECL: 24.5
TRUE DEPTH: 170.8 M
AZIMUTH: 18.4
DISTANCE: 4.08 M

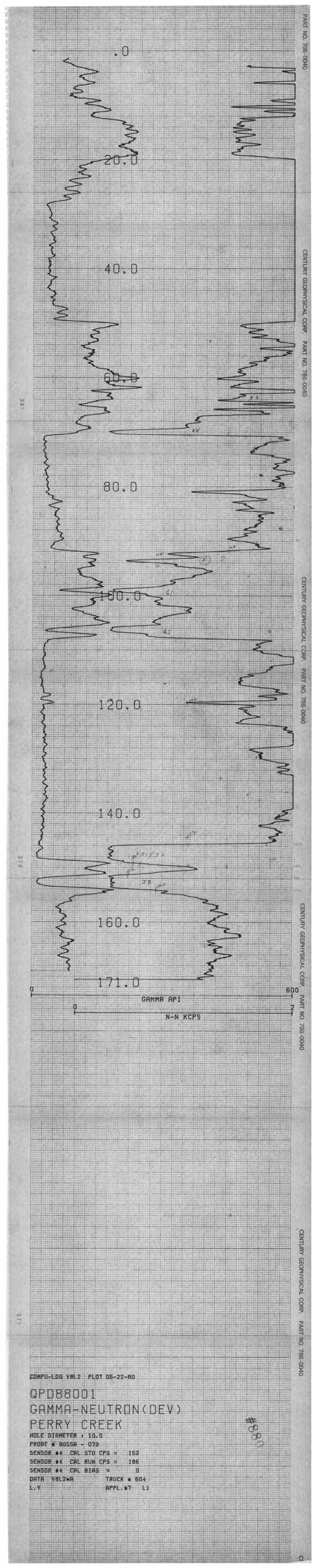
+ = 10.0 M INCR
Δ = TOP OF ZONE
◇ = BOTTOM OF ZONE

TRUE NORTH ↑



#880

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040


PART NO. 786-0040
CENTURY GEOPHYSICAL CORP.
.0
20.0
40.0
60.0
80.0
100.0
120.0
140.0
160.0
171.0
0
600
GAMMA API
0
2
N-N KCPS
COMPU-LOG V8L2 PLOT 05-22-80
QPD88001
GAMMA-NEUTRON(DEV)
PERRY CREEK
HOLE DIAMETER : 10.0
PROBE # 9055A - 079
SENSOR #4 CAL STD CPS = 152
SENSOR #4 CAL RUN CPS = 186
SENSOR #4 CAL BIAS = 0
DATA V8L2WA TRUCK # 604
L.Y APPL.#7 L1
#880

#880

COMPU-LOG V8L2 PLOT 06-03-80

QPD 88001
GAMMA DENSITY CALIPR
PERRY CREEK
HOLE DIAMETER : 13.1
PROBE # 9030A1- 403
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 7500
SENSOR #4 CAL BIAS = 98
DATA V8L2*A TRUCK # 604
MIKE H. APPL.#708 L1

#880

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

#880

#880

#880

COMPU-LOG V8L2 PLOT 06-03-80

QPD 88001

GAMMA DENSITY CALIPR

PERRY CREEK

HOLE DIAMETER : 13.1

PROBE # 9030A1- 403

SENSOR #4 CAL STD CPS = 6588

SENSOR #4 CAL RUN CPS = 7500

SENSOR #4 CAL BIAS = 98

DATA V8L2WA TRUCK # 604

MIKE H. APPL.#30 L1

Density Details
ØSD88001
Copy

#880

CENTURY GEOPHYSICAL CORPORATION

* * * * * * * * VERTICAL DEVIATION * * * * * * * *

COMPU-LOG VSL1 DEVIATION

CLIENT : GAMMA-NEUTRON(DEV)
LOCATION : PERRY CREEK
DATA FROM : VBL3*A

HOLE ID : QPD88001
DATE OF LOG : 05-22-80
PROBE : 9055A 0079

#880

TD = TOTAL DEPTH
T = TOP OF ZONE
B = BOTTOM OF ZONE

DEPTH	TRUE DEPTH	NORTH DEV	EAST DEV	DISTANCE	AZIMUTH	SA	SAB
.00	.00	.00	.00	.00	.0	.0	.0
10.00	9.99	.01	-.05	.05	282.5	.2	282.4
20.00	19.99	.14	-.01	.14	354.5	.8	15.0
30.00	29.99	.23	.01	.23	3.5	.5	17.8
40.00	39.99	.25	-.00	.25	358.1	.1	313.0
50.00	49.99	.33	-.00	.33	359.5	.4	3.7
60.00	59.99	.51	-.00	.51	359.1	1.0	358.4
70.00	69.99	.71	-.05	.71	355.8	1.1	347.3
80.00	79.98	.96	.01	.96	1.0	1.4	15.7
90.00	89.98	1.26	.15	1.27	7.2	1.9	25.3
100.00	99.97	1.60	.32	1.63	11.4	2.1	25.5
110.00	109.96	1.93	.47	1.99	13.7	2.1	24.0
120.00	119.96	2.24	.61	2.32	15.3	1.9	25.0
130.00	129.95	2.55	.76	2.66	16.6	2.0	24.9
140.00	139.95	2.86	.90	3.00	17.6	1.9	25.6
150.00	149.94	3.15	1.04	3.32	18.4	1.8	25.7
160.00	159.94	3.48	1.16	3.67	18.5	1.9	19.9
170.00	169.93	3.85	1.28	4.06	18.4	2.2	17.0
TD 170.90	170.83	3.87	1.29	4.08	18.4	1.5	26.8

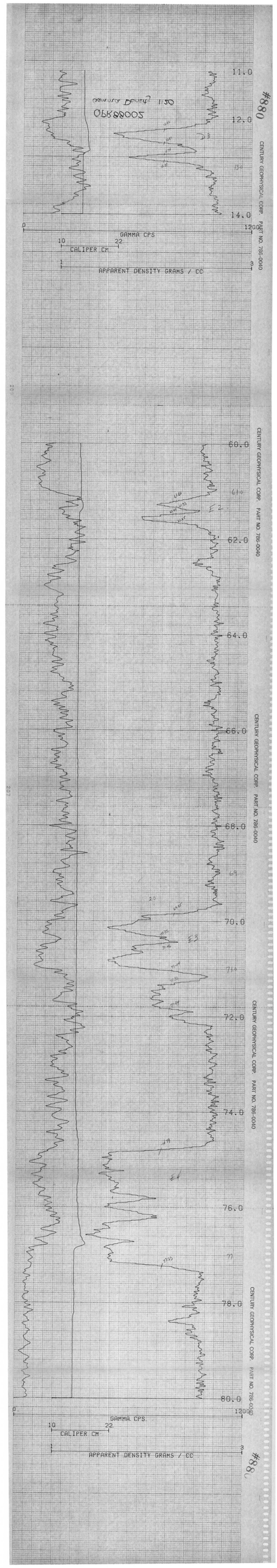
COMPU-LOG V8L2 PLOT 05-27-80

QPR 88002
GAMMA NEUTRON DEV.
PERRY CREEK

#880

HOLE DIAMETER : 13.1
PROBE # 9055A - 079
SENSOR #4 CPS STD CPS = 15?

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040


#880
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
11.0
12.0
14.0
0
120
GAMMA CPS
10
22
CALIPER CM
1
3
APPARENT DENSITY GRAMS / CC
60.0
62.0
64.0
66.0
68.0
70.0
72.0
74.0
76.0
78.0
80.0
#880

#880

VERTICAL DEVIATION

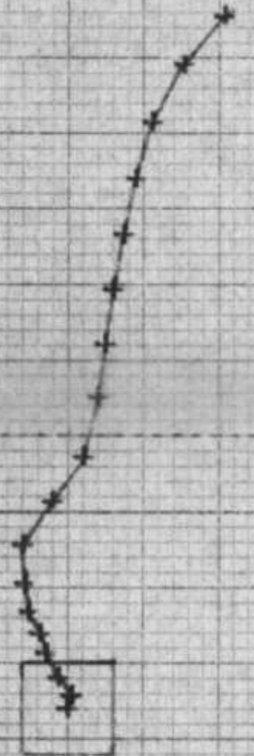
COMPU-LOG V8L1 DEVIATION
DATA FROM : V8L2*A

CLIENT : GAMMA NEUTRON DEV.
LOCATION : PERRY CREEK
[redacted]
DATE OF LOG : 05-27-80
PROBE : 9055A 0079

SCALE: 1.50 M/DIV
MAG DECL: 24.5
TRUE DEPTH: 170.4 M
AZIMUTH: 13.2
DISTANCE: 14.19 M

+ = 10.0 M INCR
Δ = TOP OF ZONE
◇ = BOTTOM OF ZONE

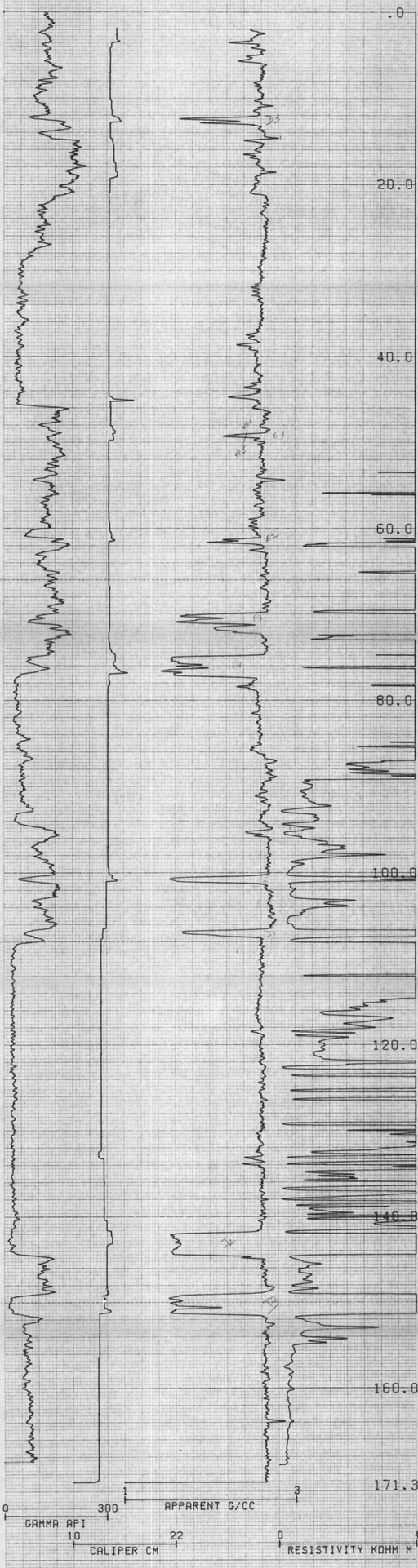
TRUE NORTH ↑



BOLLN GLOSK

ØBB 88005

NO. 786-0040
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040



CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

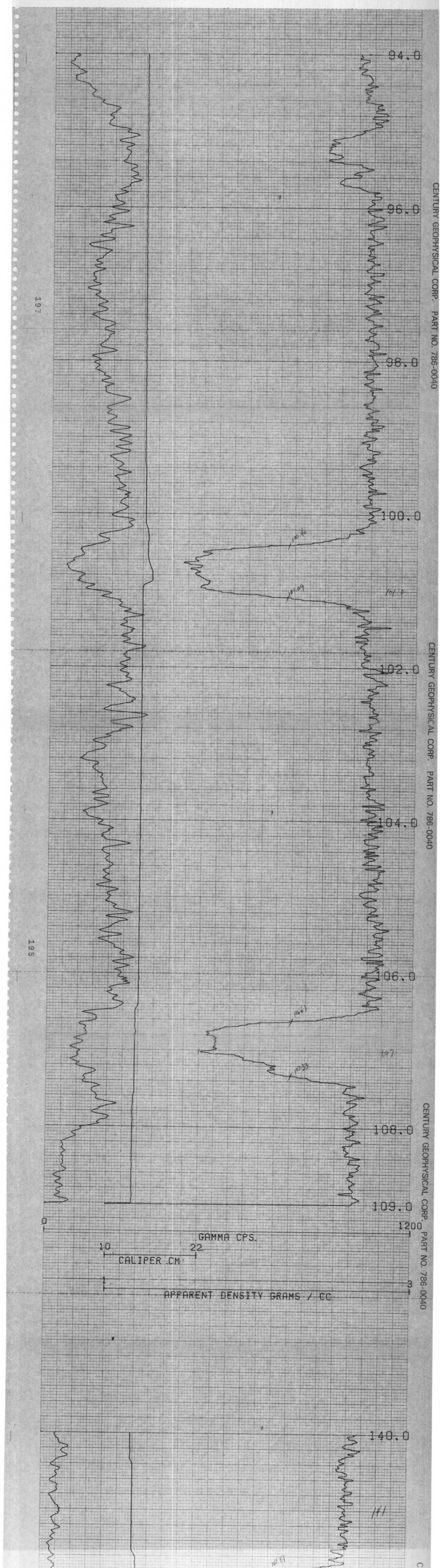
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

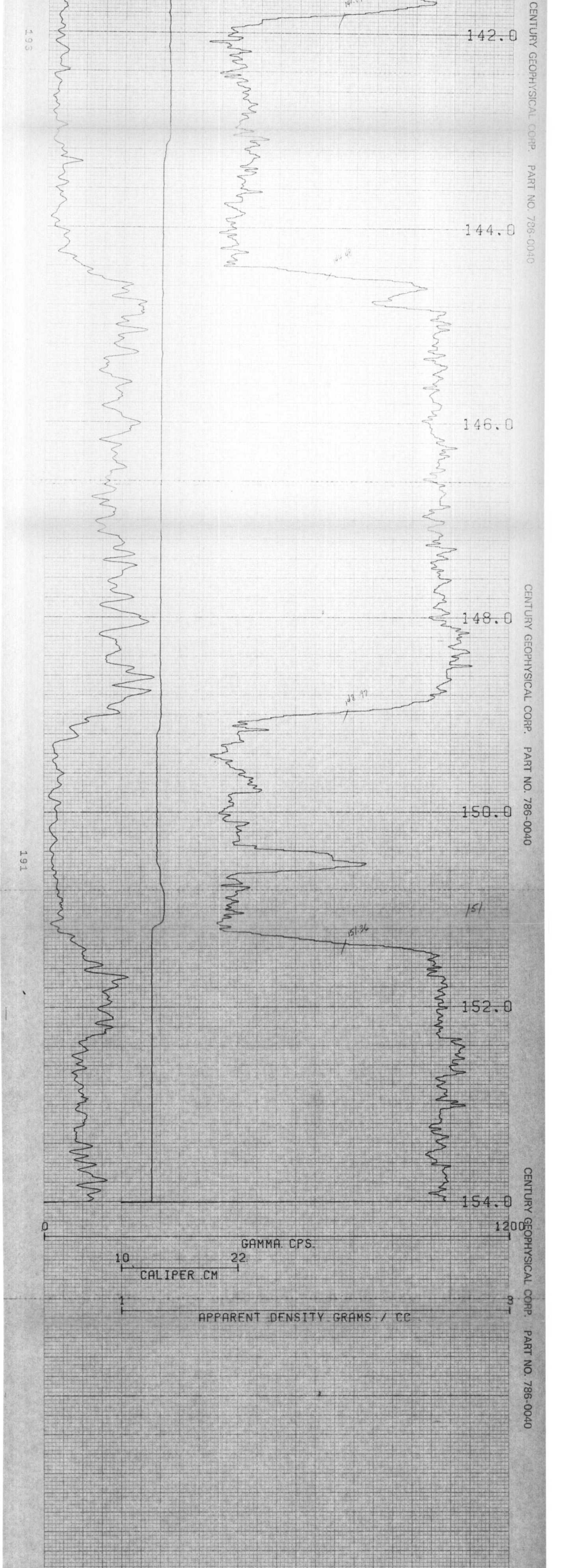
#880

COMPU-LOG V8L2 PLOT 06-03-80

QPR 88002
GAMMA DENSITY CALIPR
PERRY CREEK

HOLE DIAMETER : 13.1
PROBE # 9030A1- 403
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 7500
SENSOR #4 CAL BIAS = 98
DATA V8L2=A TRUCK # 604
MIKE H. APPL.#30 L1





MARKED

COMPU-LOG V8L2 PLOT 06-03-80

#880

QPR 88002
GAMMA DENSITY CALIPR
PERRY CREEK

HOLE DIAMETER : 13.1
PROBE # 9030A1- 403
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 7500
SENSOR #4 CAL BIAS = 88
DATA V8L2*A TRUCK # 604
MIKE H. APPL.#1708L1

1:20 Expanded Log over
Coal Seams

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

#880

CENTURY GEOPHYSICAL CORPORATION

* * * * * * * * * VERTICAL DEVIATION * * * * * * * * *

COMPU-LOG VSLI DEVIATION

CLIENT : GAMMA NEUTRON DEV.

HOLE ID : OPR 08002

LOCATION : PERRY CREEK

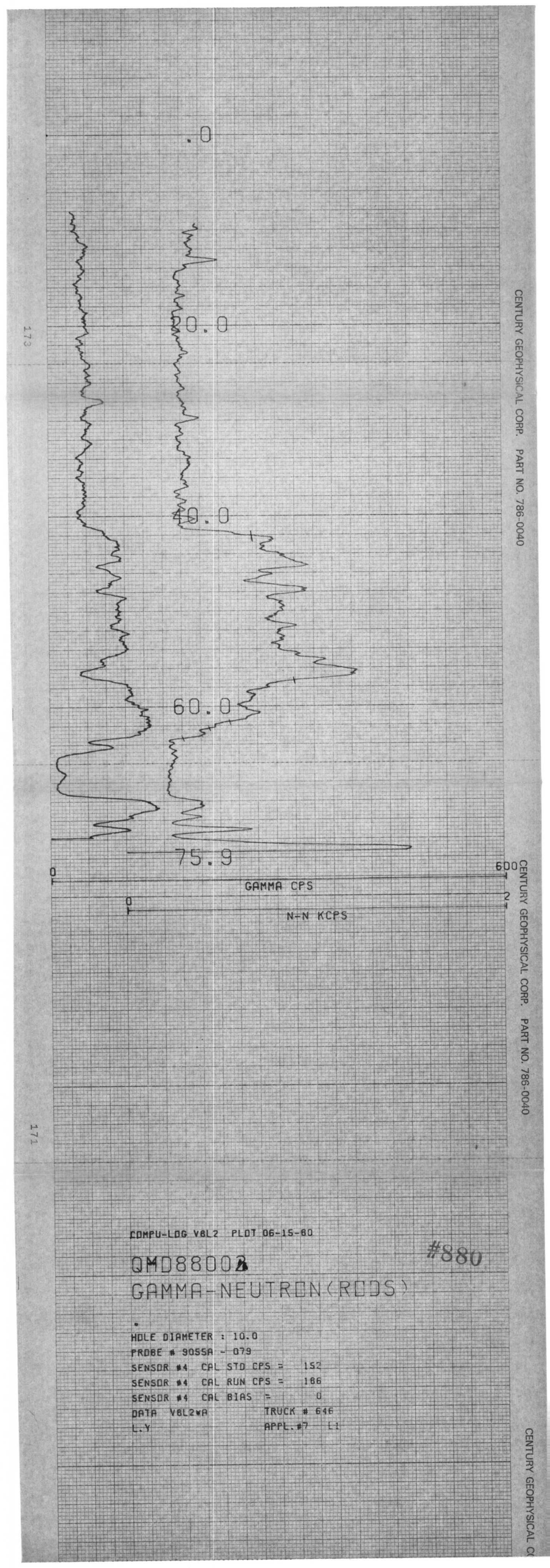
DATE OF LOG : 05-27-80

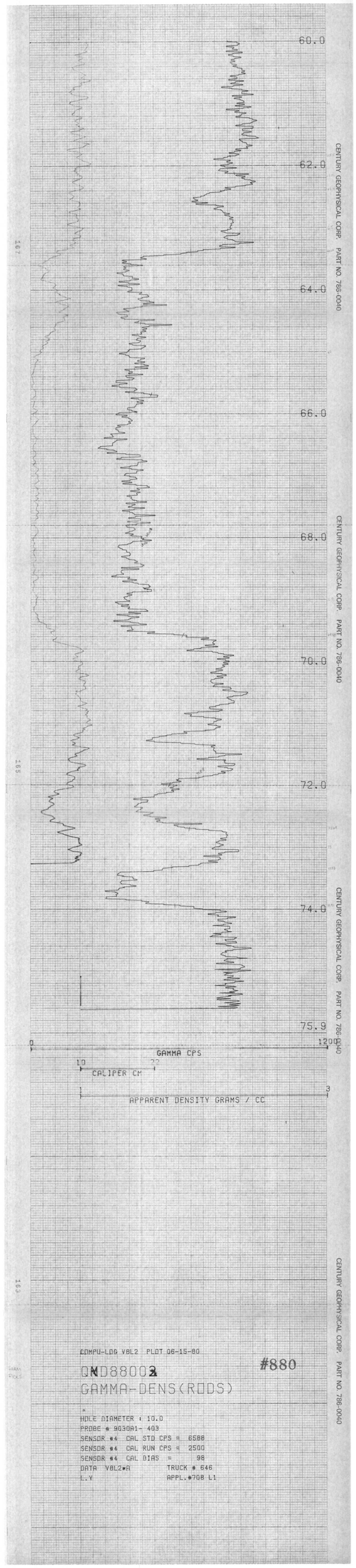
DATA FROM : VSL2*A

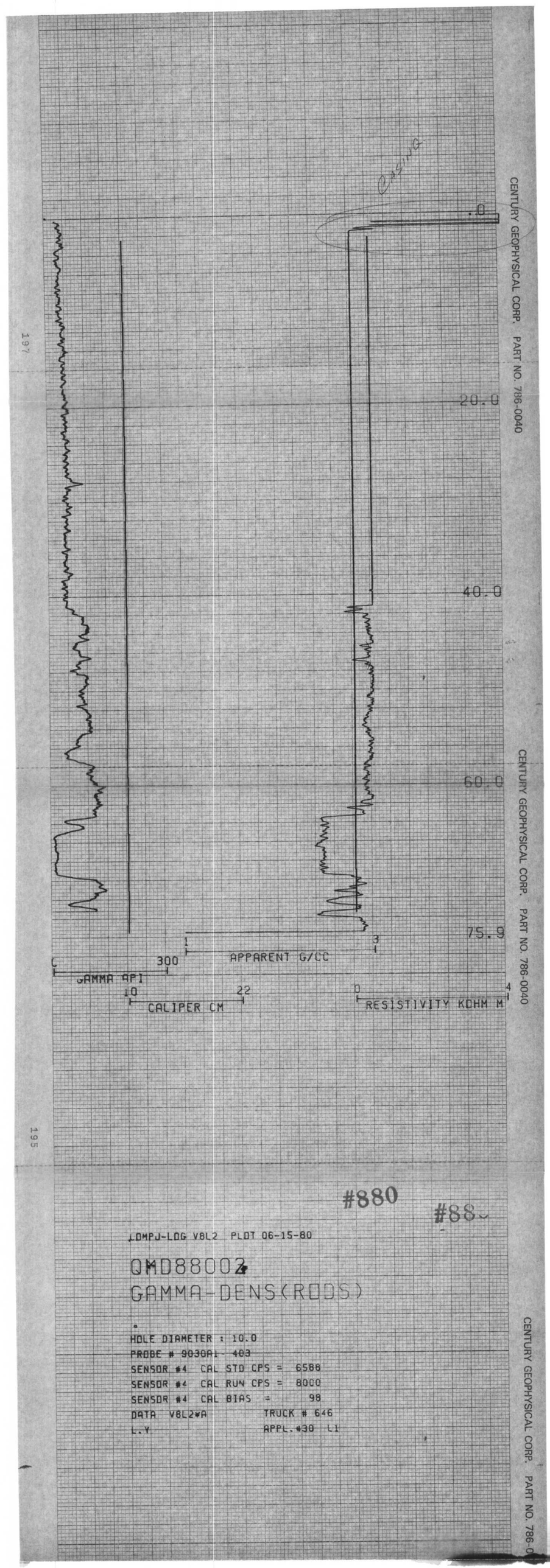
PROBE : 9055A 0079

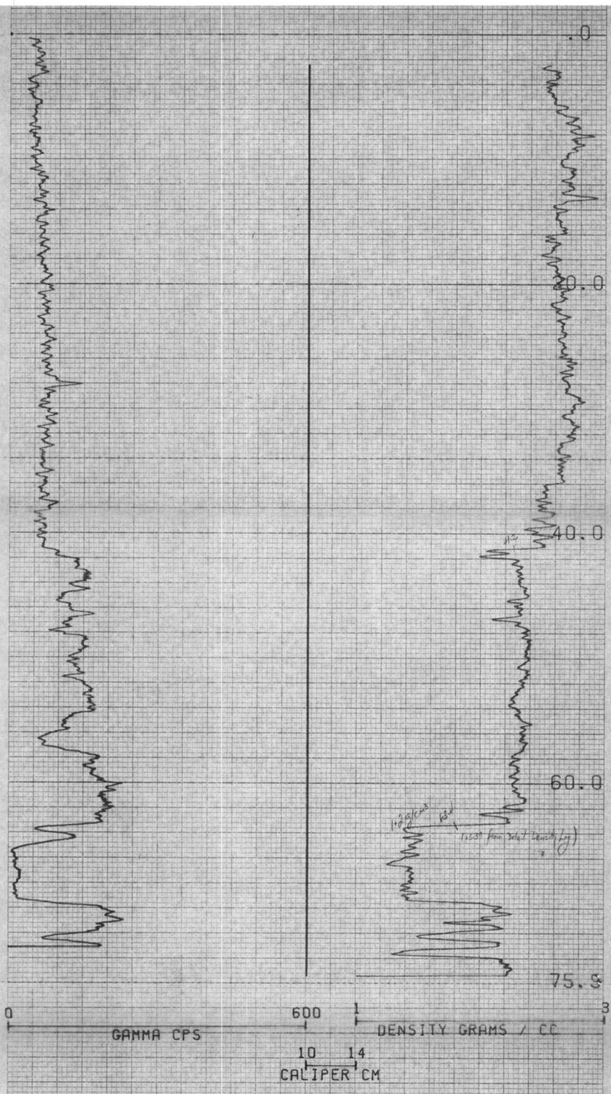
TD = TOTAL DEPTH
T = TOP OF ZONE
B = BOTTOM OF ZONE

	DEPTH	TRUE DEPTH	NORTH DEV	EAST DEV	DISTANCE	AZIMUTH	SA	SAB
	.00	.00	.00	.00	.00	.0	.0	.0
	10.00	9.99	.25	.09	.27	20.2	1.5	20.1
	20.00	19.97	.60	-.17	.63	343.9	2.5	322.4
	30.00	29.96	1.08	-.42	1.16	338.6	3.0	332.4
	40.00	39.95	1.47	-.54	1.56	339.8	2.3	343.2
	50.00	49.93	1.89	-.76	2.04	338.0	2.7	332.2
	60.00	59.91	2.46	-.94	2.60	341.1	3.2	352.1
	70.00	69.88	3.22	-.97	3.33	344.8	4.3	357.6
	80.00	79.82	4.08	-.28	4.09	356.0	5.9	34.5
	90.00	89.76	4.97	.33	4.98	3.8	6.2	34.6
	100.00	99.69	6.13	.61	6.16	5.7	6.8	13.5
	110.00	109.63	7.18	.75	7.22	6.0	6.1	7.7
	120.00	119.57	8.26	.91	8.31	6.3	6.2	8.3
	130.00	129.51	9.34	1.12	9.41	6.9	6.3	10.9
	140.00	139.44	10.46	1.36	10.55	7.4	6.5	12.1
	150.00	149.37	11.60	1.70	11.72	8.3	6.7	16.4
	160.00	159.29	12.73	2.31	12.94	10.3	7.4	28.5
	170.00	169.19	13.70	3.13	14.05	12.9	7.2	40.1
TD	171.20	170.38	13.81	3.24	14.19	13.2	7.7	45.6


.0
20.0
40.0
60.0
75.9
0
600
GAMMA CPS
0
N+N KCPS
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
CENTURY GEOPHYSICAL C
COMPU-LOG V8L2 PLOT 06-15-80
QMD8800
#880
GAMMA-NEUTRON(RODS)
HOLE DIAMETER : 10.0
PROBE # 9055A - 079
SENSOR #4 CAL STD CPS = 152
SENSOR #4 CAL RUN CPS = 186
SENSOR #4 CAL BIAS = 0
DATA V8L2WA TRUCK # 646
L.Y APPL.#7 L1


60.0
62.0
64.0
66.0
68.0
70.0
72.0
74.0
75.9
0
120
GAMMA CPS
10
22
CALIPER CM
1
3
APPARENT DENSITY GRAMS / CC
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
COMPU-LOG VBL2 PLOT 06-15-80
QND88002
#880
GAMMA-DENS(RODS)
HOLE DIAMETER : 10.0
PROBE # 9030A1- 403
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 2500
SENSOR #4 CAL BIAS = .98
DATA VBL2*A TRUCK # 646
L.Y APPL.#708 L1


CASING
.0
20.0
40.0
60.0
75.9
1
3
APPARENT G/CC
0
300
GAMMA API
10
22
CALIPER CM
0
4
RESISTIVITY KOHM M
#880
#88
COMPJ-LOG V8L2 PLOT 06-15-80
QMD88002
GAMMA-DENS(RODS)
HOLE DIAMETER : 10.0
PROBE # 9030A1- 403
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 8000
SENSOR #4 CAL BIAS = 98
DATA V8L2*A TRUCK # 646
L.Y APPL.#30 L1
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
CENTURY GEOPHYSICAL CORP. PART NO. 786-0
197
195



COMPU-LOG V8L2 PLOT 06-15-88

#880

QMD88003

GAMMA-DENS(RODS)

HOLE DIAMETER : 10.0
PROBE # 9030A1- 403
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 2500
SENSOR #4 CAL BIAS = 98
DATA V8L2wA TRUCK # 646
L.Y APPL.#707 L1

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

Century #880

QGR 88002 GAMMA-DENSITY

COMPANY	: QUINSETTE COAL LTD.			OTHER SERVICES:	
WELL	: QGR 88002 GAMMA-DENSITY			DEN.NEUT	
LOCATION/FIELD	: 20350:SL51000/NABORS ROAD			GAM.RES.	
COUNTY	:			CAL.DEV	
STATE	: BRITISH COLUMBIA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 08/06/88	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	: 200 M	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 200.18	LOG MEASURED FROM	: GL	DF	:
LOG TOP	: 1.18	DRL MEASURED FROM	: GL	GL	:
CASING DRILLER	: 11	LOGGING UNIT	: 62		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: 0	RECORDED BY	: W. STROBEL		
BIT SIZE	: 15.34	BOREHOLE FLUID	: WATER	FILE	: PROCESSED
MAGNETIC DECL.	: 21.5	RM	: 0	TYPE	: 9036HA
MATRIX DENSITY	: 2.68	RM TEMPERATURE	: 0	LOG	: 0
FLUID DENSITY	: 1.0	MATRIX DELTA T	: 173	PLOT	: 9036 10
NEUTRON MATRIX	: SANDSTONE	FLUID DELTA T	: 690	THRESH	: 2500
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO CGC STANDARD TERMS AND CONDITIONS

Century #880

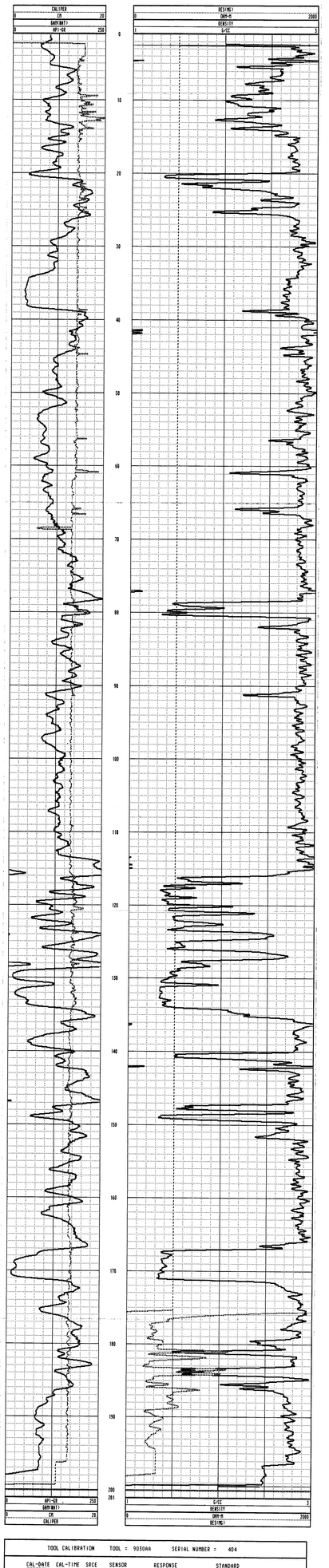
QHR 88002 GAMMA-DENSITY

COMPANY	: QUINTETTE COAL LTD.		
WELL	: QHR 88002 GAMMA-DENSITY		
LOCATION/FIELD	: BS 2035S01SL51800D/NABORS ROAD		
COUNTY	:		
STATE	: BRITISH COLUMBIA		
SECTION	:	TOWNSHIP	:
RANGE	:		

OTHER SERVICES:
DEN.NEUT
GAM.RES.
CAL.DEV

DATE	: 08/08/88	PERMANENT DATUM :	ELEVATIONS
DEPTH DRILLER	: 200 M	ELEV. PERM. DATUM:	KB :
LOG BOTTOM	: 200.18	LOG MEASURED FROM: GL	DF :
LOG TOP	: 1.18	DRL MEASURED FROM:	GL :
CASING DRILLER	: 11	LOGGING UNIT : 62	
CASING TYPE	: STEEL	FIELD OFFICE : CALGARY	
CASING THICKNESS: 0		RECORDED BY : W. STROEBEL	
BIT SIZE	: 13.34	BOREHOLE FLUID : WATER	FILE : PROCESSED
MAGNETIC DECL.	: 24.5	RM : 0	TYPE : 9030AA
MATRIX DENSITY	: 2.68	RM TEMPERATURE : 0	LOG : 1
FLUID DENSITY	: 1.0	MATRIX DELTA T : 173	PLOT : QUIN 3
NEUTRON MATRIX	: SANDSTONE	FLUID DELTA T : 690	THRESH: 2500
REMARKS	:		

ALL SERVICES PROVIDED SUBJECT TO CGC STANDARD TERMS AND CONDITIONS



TOOL CALIBRATION TOOL = 9030AA SERIAL NUMBER = 404

	CAL-DATE	CAL-TIME	SRCE	SENSOR	RESPONSE	STANDARD
0	07/28/88	13:56:46	0	GAM(NAT)	0.000 CPS	0.000 API-GR
1	07/28/88	13:56:46	0	GAM(NAT)	0.000 CPS	0.000 API-GR
2	07/28/88	14:13:46	0	DENSITY	5615.000 CPS	1.106 G/CC
3	07/28/88	14:13:46	0	DENSITY	2230.500 CPS	2.120 G/CC
4	07/28/88	13:56:46	0	RES(MG)	0.000 CPS	0.000 OHM-M
5	07/28/88	13:56:46	0	RES(MG)	0.000 CPS	0.000 OHM-M
6	07/28/88	15:42:06	0	CALIPER	213.400 CPS	7.600 CM
7	07/28/88	15:42:06	0	CALIPER	1842.500 CPS	17.800 CM
8	07/28/88	13:56:46	0	DENSITYH	0.000 CPS	0.000 G/CC
9	07/28/88	13:56:46	0	DENSITYH	0.000 CPS	0.000 G/CC
10	07/28/88	13:56:46	0	CALIPERL	0.000 CPS	0.000 CM
11	07/28/88	13:56:46	0	CALIPERL	0.000 CPS	0.000 CM

Century

#800

QHR 88002 DEVIATION

COMPANY : QUINTETTE COAL LTD.
WELL : QHR 88002 DEVIATION
LOCATION/FIELD : BS 20350;SL31800/NABORS ROAD
COUNTY :
STATE : BRITISH COLUMBIA
SECTION : TOWNSHIP : RANGE :

OTHER SERVICES:
DEN.NEUT
GAM.RES.
CAL.DEV

DATE : 08/06/88
DEPTH DRILLER : 200 M
LOG BOTTOM : 200.94
LOG TOP : 16.12

PERMANENT DATUM :
ELEV. PERM. DATUM:
LOG MEASURED FROM: GL
DRL MEASURED FROM:

ELEVATIONS
KB :
DF :
GL :

CASING DRILLER : 11
CASING TYPE : STEEL
CASING THICKNESS: 0

LOGGING UNIT : 62
FIELD OFFICE : CALGARY
RECORDED BY : W. STROEBEL

BIT SIZE : 13.34
MAGNETIC DECL. : 24.500
MATRIX DENSITY : 2.68
FLUID DENSITY : 1.0
NEUTRON MATRIX : SANDSTONE
REMARKS :

BOREHOLE FLUID : WATER
RM : 0
RM TEMPERATURE : 0
MATRIX DELTA T : 173
FLUID DELTA T : 690

FILE : PROCESSED
TYPE : 9055A
LOG : 0
PLOT : 9055-D 1
THRESH: 2500

ALL SERVICES PROVIDED SUBJECT TO CGC STANDARD TERMS AND CONDITIONS

PAGE 1 Century Geophysical Corp. 9055A -PROCESSED

DEPTH (M)	T DEPTH M	D DIFF M	N DEV M	E DEV M	DISTANCE M	AZIMUTH DEG	SANG DEG	SANGB DEG
15.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20.00	20.0	-.0	0.0	0.0	0.0	-.0	1.2	36.1
25.00	25.0	-.0	0.1	0.1	0.2	34.4	1.3	32.6
30.00	30.0	-.0	0.2	0.1	0.2	39.9	0.8	174.6
35.00	35.0	-.0	0.1	0.2	0.2	66.0	1.2	155.2
40.00	40.0	-.0	-.0	0.2	0.2	97.0	1.3	154.8
45.00	45.0	-.0	-.1	0.3	0.3	116.5	1.5	148.4
50.00	50.0	-.0	-.2	0.3	0.4	125.8	1.7	143.4
55.00	55.0	-.0	-.4	0.4	0.6	130.9	1.7	148.1
60.00	60.0	-.0	-.5	0.5	0.7	134.5	2.0	146.5
65.00	65.0	-.0	-.6	0.6	0.9	137.8	1.9	157.7
70.00	70.0	-.0	-.8	0.6	1.0	140.8	2.2	163.7
75.00	75.0	-.0	-1.0	0.7	1.2	144.2	2.7	162.0
80.00	80.0	-.0	-1.2	0.8	1.4	147.0	3.0	154.2
85.00	85.0	-.0	-1.4	0.9	1.7	146.9	3.3	144.7
90.00	89.9	-.0	-1.7	1.1	2.0	146.5	3.2	144.4
95.00	94.9	-.1	-1.9	1.3	2.3	146.5	3.4	149.2
100.00	99.9	-.1	-2.2	1.4	2.6	147.2	4.0	153.9
105.00	104.9	-.1	-2.5	1.6	3.0	147.9	4.5	151.6
110.00	109.9	-.1	-2.9	1.8	3.4	148.2	5.0	149.8
115.00	114.9	-.1	-3.3	2.0	3.8	148.5	5.7	151.1
120.00	119.9	-.1	-3.7	2.2	4.3	148.8	5.9	152.0
125.00	124.8	-.2	-4.1	2.5	4.8	148.8	5.8	143.2
130.00	129.8	-.2	-4.5	2.8	5.3	148.2	5.6	145.1
135.00	134.8	-.2	-4.9	3.1	5.8	148.0	5.7	146.4
140.00	139.8	-.2	-5.3	3.3	6.3	147.9	5.1	147.7
145.00	144.7	-.2	-5.7	3.5	6.7	148.1	5.2	153.1
150.00	149.7	-.3	-6.1	3.7	7.2	149.0	5.5	168.4
155.00	154.7	-.3	-6.6	3.8	7.6	150.3	6.0	171.8
160.00	159.7	-.3	-7.2	3.8	8.1	151.9	6.7	179.6
165.00	164.6	-.4	-7.8	3.8	8.6	153.8	7.3	180.0
170.00	169.6	-.4	-8.4	3.8	9.2	155.5	7.3	179.0
175.00	174.5	-.5	-9.0	3.8	9.8	157.0	7.6	179.3
180.00	179.5	-.5	-9.7	3.8	10.4	158.5	8.4	181.3
185.00	184.4	-.6	-10.5	3.8	11.1	160.0	9.0	182.1
190.00	189.4	-.6	-11.3	3.8	11.9	161.4	9.4	179.1
195.00	194.3	-.7	-12.1	3.8	12.7	162.5	9.4	179.9
200.00	198.5	-.8	-12.7	3.8	13.3	163.3	9.3	175.2

COMPU-LOG V8L2 PLOT 06-10-80

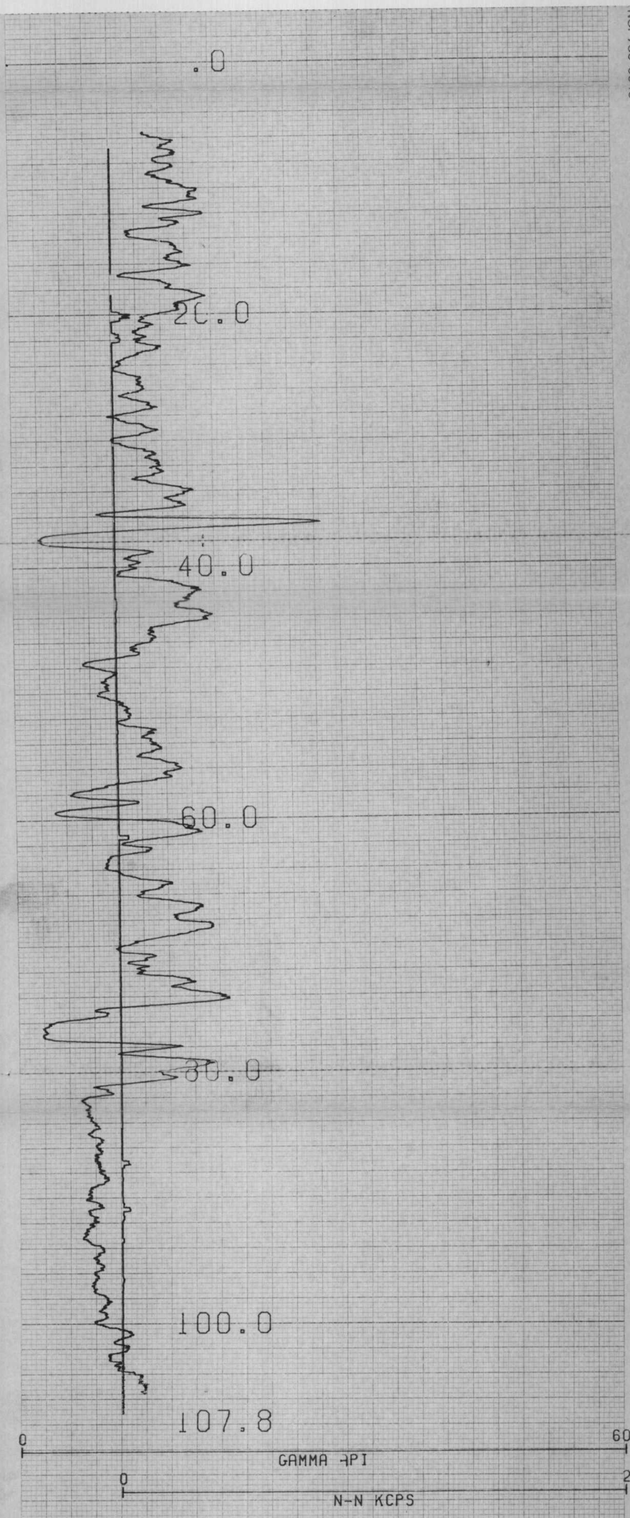
#880

QHD 88002

GAMMA DENSITY RODS

HERMAN

HOLE DIAMETER : 13.1
PROBE # 9030A1- 403
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 7500
SENSOR #4 CAL BIAS = 98
DATA V8L2*A TRUCK # 646
MIKE H. APPL.#1708L1



COMPU-LOG V8L2 PLOT 06-10-80

#880

QHD 88002

GAMMA NEUTRON DEV.

HEPMAN

HOLE DIAMETER : 13.1

PROBE # 9055A - 079

SENSOR #4 CAL STD CPS = 152

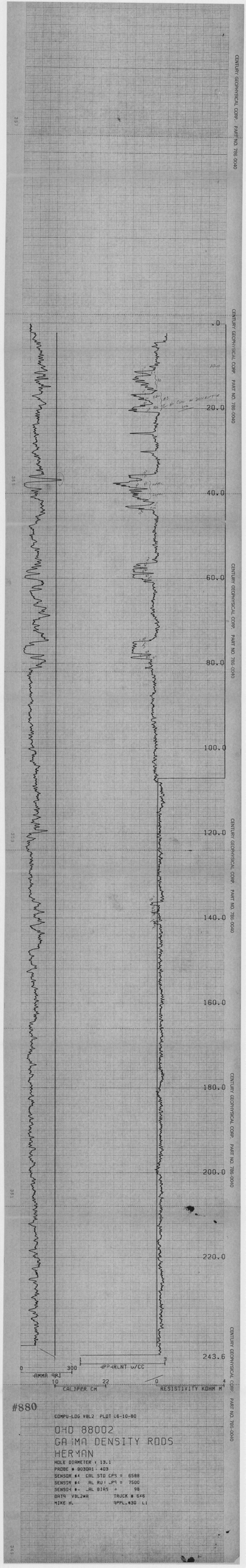
SENSOR #4 CAL RUN CPS = 186

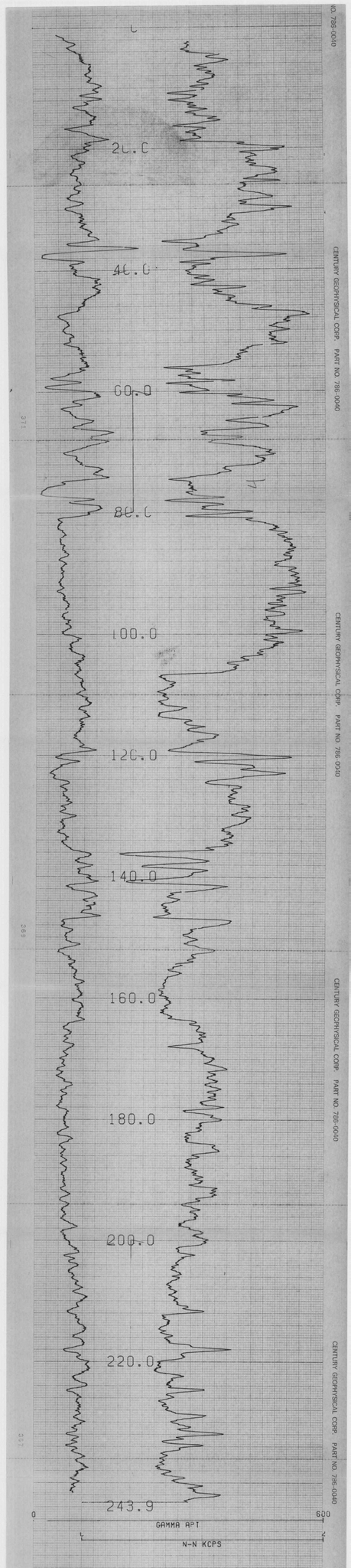
SENSOR #4 CAL BIAS = 0

DATA V8L2*A TRUCK # 646

MIKE H. APPL.#7 L1

NO. 786-0040
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
CENTURY GEOP


CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
.0
20.0
40.0
60.0
80.0
100.0
120.0
140.0
160.0
180.0
200.0
220.0
243.6
0
300
APPARENT G/CC
GAMMA API
10
22
0
4
CALIPER CM
RESISTIVITY KOHM M
#880
COMPU-LOG V8L2 PLOT 06-10-80
OHD 88002
GAMMA DENSITY RODS
HERMAN
HOLE DIAMETER : 13.1
PROBE # 9030R1 : 403
SENSOR #4 CAL STD CPS = 8588
SENSOR #4 AL RUN CPS = 7500
SENSOR #4 AL BIAS = 98
DATA V8L2WR TRUCK # 646
MIKE H. OPPL.#30 L1



#600

COMPU-LOG V8L2 PLOT 06-10-80

QHD 88002

GAMMA NEUTRON RODS

FEPMN

HOLE DIAMETER : 13.1

PROBE # 90559 - 079

SENSOR #4 CAL STD CPS = 152

SENSOR #4 CAL RUN CPS = 188

SENSOR #4 CAL BIAS = 0

DATA /8L2WA TRUCK # 646

MIKE H. A-PL.#7 L1

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

VERTICAL DEVIATION

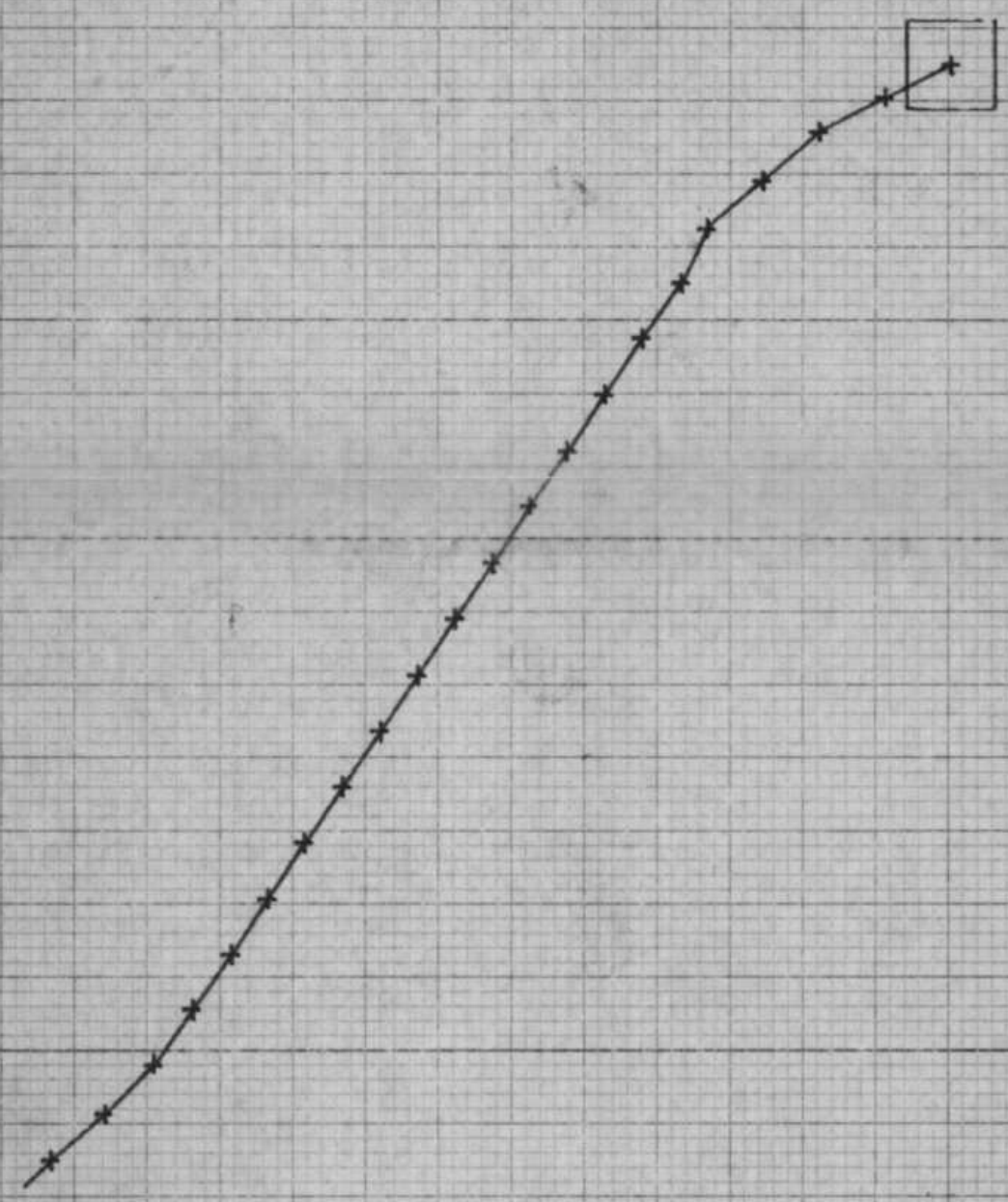
COMPU-LOG V8L1 DEVIATION
DATA FROM : V8L2*A

CLIENT : GAMMA NEUTRON DEV.
LOCATION : HERMAN
HOLE ID : QHD 88002
DATE OF LOG : 06-10-80
PROBE : 9055A 0079

SCALE: 2.50 M/DIV
MAG DECL: 24.5
TRUE DEPTH: 94.9 M
AZIMUTH: 219.7
DISTANCE: 49.70 M

+ = 5.0 M INCR
△ = TOP OF ZONE
◇ = BOTTOM OF ZONE

TRUE NORTH ↑



CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORPORATION

* * * * * * * * VERTICAL DEVIATION * * * * * * * *

COMPU-LOG V8L1 DEVIATION

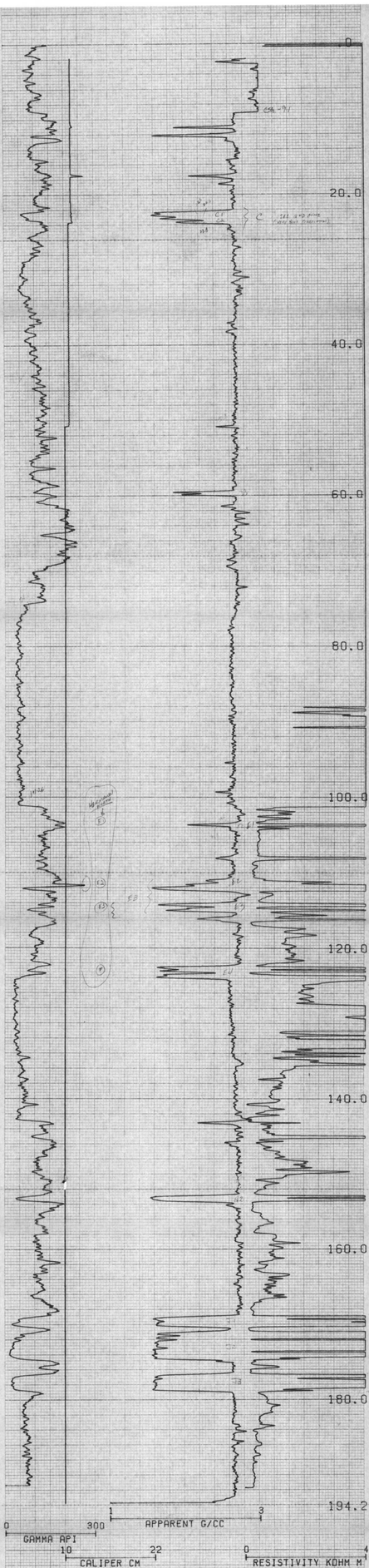
CLIENT : GAMMA NEUTRON DEV.
LOCATION : HERMAN
DATA FROM : V8L2*A

HOLE ID : OHD 88002
DATE OF LOG : 06-10-80
PROBE : 9055A 0079

TD = TOTAL DEPTH
T = TOP OF ZONE
B = BOTTOM OF ZONE

#880

DEPTH	TRUE DEPTH	NORTH DEV	EAST DEV	DISTANCE	AZIMUTH	SA	SAB
.00	.00	.00	.00	.00	.0	.0	.0
5.00	4.30	-1.12	-2.26	2.52	243.5	30.4	243.5
10.00	8.60	-2.28	-4.50	5.05	243.1	30.4	242.6
15.00	12.90	-3.96	-6.43	7.55	238.4	30.6	228.9
20.00	17.21	-5.59	-8.33	10.03	236.1	30.2	229.2
25.00	21.59	-7.45	-9.22	11.86	231.0	25.2	205.6
30.00	26.02	-9.35	-10.55	14.10	228.5	27.6	215.0
35.00	30.45	-11.27	-11.83	16.34	226.4	27.5	213.6
40.00	34.88	-13.21	-13.09	18.60	224.7	27.5	212.9
45.00	39.32	-15.12	-14.38	20.87	223.6	27.4	214.1
50.00	43.76	-17.03	-15.65	23.13	222.6	27.3	213.4
55.00	48.20	-18.93	-16.94	25.41	221.8	27.3	214.2
60.00	52.64	-20.84	-18.23	27.69	221.2	27.3	213.9
65.00	57.09	-22.75	-19.50	29.96	220.6	27.2	213.8
70.00	61.53	-24.64	-20.79	32.24	220.2	27.2	214.2
75.00	65.97	-26.53	-22.09	34.53	219.8	27.3	214.3
80.00	70.42	-28.44	-23.36	36.80	219.4	27.2	213.7
85.00	74.86	-30.35	-24.60	39.07	219.0	27.1	213.0
90.00	79.31	-32.22	-25.93	41.36	218.8	27.2	215.4
95.00	83.75	-34.09	-27.27	43.66	218.7	27.4	215.5
100.00	88.13	-35.77	-28.95	46.02	219.0	28.4	225.0
105.00	92.50	-37.35	-30.79	48.41	219.5	29.0	229.2
TD 107.70	94.86	-38.25	-31.73	49.70	219.7	28.7	226.1



JL2 PLOT 06-03-80

QPD 88002

GAMMA DENSITY CALIPR

PERRY CREEK

HOLE DIAMETER : 13.1

PROBE # 30A1- 403

SENSOR #4 CAL STD CPS = 6588

SENSOR #4 CAL RUN CPS = 7500

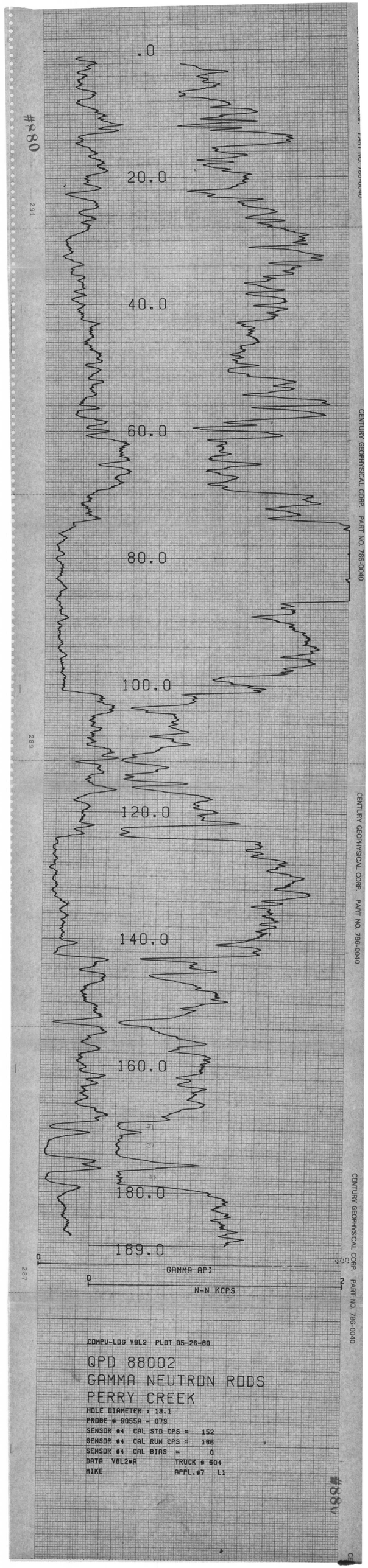
SENSOR #4 CAL BIAS = 98

DATA V8L2#A TRUCK # 604

MIKE H. APPL.#30 L1

#880

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040


CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
#880
.0
20.0
40.0
60.0
80.0
100.0
120.0
140.0
160.0
180.0
189.0
GAMMA API
N-N KCPS
COMPU-LOG V8L2 PLOT 05-26-80
QPD 88002
GAMMA NEUTRON RODS
PERRY CREEK
HOLE DIAMETER : 13.1
PROBE # 9055A - 079
SENSOR #4 CAL STD CPS = 152
SENSOR #4 CAL RUN CPS = 166
SENSOR #4 CAL BIAS = 0
DATA V8L2#A TRUCK # 604
MIKE APPL.#7 L1

VERTICAL DEVIATION

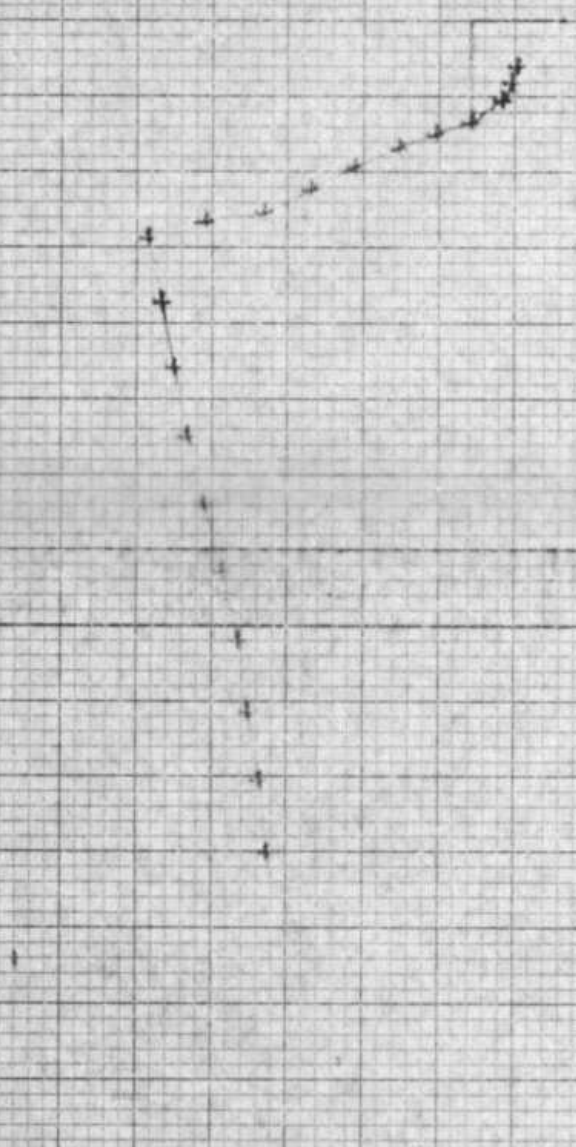
COMPU-LOG V8L1 DEVIATION
DATA FROM : V8L2*A

CLIENT : GAMMA NEUTRON DEV.
LOCATION : PERRY CREEK
[redacted]
DATE OF LOG : 05-26-80
PROBE : 9055A 0079

SCALE: .50 M/DIV
MAG DECL: 24.5
TRUE DEPTH: 193.9 M
AZIMUTH: 196.7
DISTANCE: 5.63 M

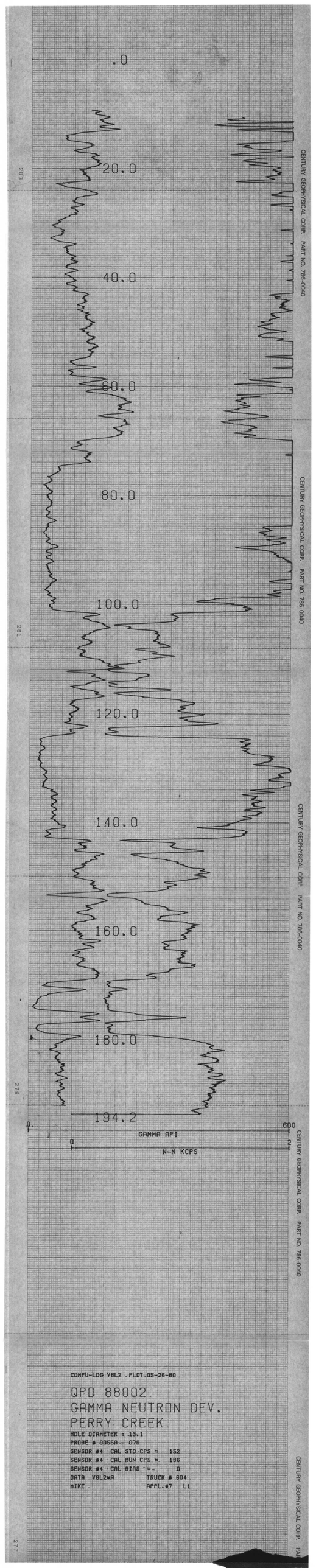
+ = 10.0 M DEPTH
△ = TOP OF ZONE
◇ = BOTTOM OF ZONE

TRUE NORTH ↑



#880

NO. 786-0040
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040


.0
20.0
40.0
60.0
80.0
100.0
120.0
140.0
160.0
180.0
194.2
0
600
GAMMA API
0
N-N KCPS
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
COMPU-LOG V8L2 . PLOT_05-26-80
QPD 88002.
GAMMA NEUTRON DEV.
PERRY CREEK.
HOLE DIAMETER : 13.1
PROBE # 8055A - 079
SENSOR #4 CAL STD CPS = 152
SENSOR #4 CAL RUN CPS = 186
SENSOR #4 CAL BIAS = 0
DATA V8L2#A TRUCK # 804.
MIKE . APPL.#7 L1

HYSICAL CORP. PART NO. 786-0040
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
#880
.0
20.0
40.0
60.0
80.0
100.0
120.0
140.0
160.0
180.0
189.0
0
600
GAMMA API
0
2
#880
#880

GAMMA CPS
CALIPER CM
APPARENT DENSITY GRAMS / CC
COMPU-LOG V8L2 PLOT 06-03-80
QPD 88002
GAMMA DENSITY CALIPR
PERRY CREEK
HOLE DIAMETER : 13.1
PROBE # 9030A1- 403
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 7500
SENSOR #4 CAL BIAS = 98
DATA V8L2*A TRUCK # 604
MIKE H. APPL.#708 L1
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
#880

CENTURY GEOPHYSICAL CORPORATION

* * * * * * * * VERTICAL DEVIATION * * * * * * * *

COMPU-LOG V8L1 DEVIATION

CLIENT : GAMMA NEUTRON DEV.
LOCATION : PERRY CREEK
DATA FROM : V8L2*A

HOLE ID : QPD 88002
DATE OF LOG : 05-26-80
PROBE : 9055A 0079

TD = TOTAL DEPTH
T = TOP OF ZONE
B = BOTTOM OF ZONE

DEPTH	TRUE DEPTH	NORTH DEV	EAST DEV	DISTANCE	AZIMUTH	SA	SAB
.00	.00	.00	.00	.00	.0	.0	.0
10.00	9.99	-.10	-.04	.11	201.7	.6	201.6
20.00	19.99	-.21	-.09	.24	204.5	.7	207.1
30.00	29.99	-.37	-.30	.48	219.7	1.4	233.7
40.00	39.99	-.44	-.53	.70	230.2	1.4	251.2
50.00	49.98	-.54	-.78	.95	235.5	1.5	249.7
60.00	59.98	-.66	-1.07	1.26	238.1	1.7	246.2
70.00	69.97	-.81	-1.36	1.58	239.2	1.8	243.4
80.00	79.97	-.96	-1.67	1.93	239.9	1.9	243.2
90.00	89.96	-1.02	-2.05	2.29	243.6	2.2	261.9
100.00	99.95	-1.12	-2.43	2.68	245.1	2.2	254.1
110.00	109.94	-1.54	-2.33	2.80	236.5	2.4	167.5
120.00	119.93	-1.99	-2.25	3.01	228.6	2.5	169.7
130.00	129.92	-2.44	-2.17	3.27	221.6	2.6	169.1
140.00	139.90	-2.90	-2.06	3.55	215.4	2.6	166.5
150.00	149.89	-3.34	-1.94	3.86	210.2	2.6	165.3
160.00	159.88	-3.80	-1.83	4.22	205.8	2.7	166.3
170.00	169.87	-4.27	-1.77	4.62	202.5	2.7	172.0
180.00	179.86	-4.72	-1.69	5.02	199.7	2.6	170.1
190.00	189.85	-5.20	-1.64	5.45	197.5	2.7	174.2
TD 194.10	193.94	-5.40	-1.61	5.63	196.7	2.7	172.9

#880

Century — CGC

QPR88003 DEVIATION

COMPANY	: QUINTETTE COAL LTD.			OTHER SERVICES: DEN.NEUT GAM.RES. CAL.DEV	
WELL	: QPR88003 DEVIATION				
LOCATION/FIELD	: PERRY CREEK				
COUNTY	:				
STATE	: BRITISH COLUMBIA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 10/19/88	PERMANENT DATUM	: 0	ELEVATIONS	
DEPTH DRILLER	: 138	ELEV. PERM. DATUM	: 0	KB	: 0
LOG BOTTOM	: 134.96	LOG MEASURED FROM	: 0	DF	: 0
LOG TOP	: 0.66	DRL MEASURED FROM	: 0	GL	: 0
CASING DRILLER	: 0	LOGGING UNIT	: 8401		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: 0.5	RECORDED BY	: G.PHILLIPS		
BIT SIZE	: 15.6	BOREHOLE FLUID	: WATER	FILE	: PROCESSED
MAGNETIC DECL.	: 24.500	RM	: 0	TYPE	: 9055A
MATRIX DENSITY	: 2.68	RM TEMPERATURE	: 0	LOG	: 7
FLUID DENSITY	: 1.0	MATRIX DELTA T	: 173	PLOT	: Q 1
NEUTRON MATRIX	: SANDSTONE	FLUID DELTA T	: 690	THRESH	: 9000
REMARKS	:				

VERTICAL

LOGGED OPEN HOLE BL23650/SL42225

ALL SERVICES PROVIDED SUBJECT TO CGC STANDARD TERMS AND CONDITIONS

* * * * * * * * * * COMPUTER - VERTICAL DEVIATION * * * * * * * * * * * * *

CLIENT	: QUINTETTE COAL LTD.	HOLE ID.	: QPR88003 DEVI
FIELD OFFICE	: CALGARY	DATE OF LOG	: 10/19/88
DATA FROM	:	PROBE	: 9055A , 46
MAG. DECL.	: 24.500	DEPTH UNITS	: FEET LOG 7

Cable Depth	True Depth	North Dev.	East Dev.	Distance	Azimuth	SANG	SANGB
0.0	0.00	[illegible]	0.00	0.0	0.0	0.0	0.0
10.0	10.00	[illegible]	-.02	0.0	235.0	0.6	102.4
20.0	20.00	[illegible]	0.05	0.1	28.1	1.6	27.1
30.0	29.99	[illegible]	-.01	0.2	358.3	0.6	167.4
40.0	39.99	[illegible]	0.07	0.3	12.5	1.2	7.8
50.0	49.99	0.13	0.13	0.4	17.4	1.6	24.4
60.0	59.99	[illegible]	0.20	0.6	18.6	1.3	71.9
70.0	69.99	[illegible]	0.41	0.8	30.1	2.1	52.0
80.0	79.98	[illegible]	0.68	1.2	34.6	2.3	41.3
90.0	89.97	1.26	0.85	1.5	34.0	1.3	53.6
100.0	99.97	[illegible]	1.15	1.8	39.1	2.8	49.0
110.0	109.95	[illegible]	1.45	2.3	39.6	2.6	37.1
120.0	119.94	2.11	1.76	2.7	39.9	2.8	43.2
130.0	129.92	[illegible]	2.29	3.4	42.4	4.3	45.7
135.0	134.87	[illegible]	2.59	3.7	43.8	0.0	0.0

Century

#880

QPR88003 GAMMA DENSITY

COMPANY	: QUINTETTE COAL LTD.			OTHER SERVICES: DEN.NEUT GAM.RES. CAL.DEV	
WELL	: QPR88003 GAMMA DENSITY				
LOCATION/FIELD	: PERRY CREEK				
COUNTY	:				
STATE	: BRITISH COLUMBIA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 10/19/88	PERMANENT DATUM	: 0	ELEVATIONS	
DEPTH DRILLER	: 138	ELEV. PERM. DATUM	: 0	KB	: 0
LOG BOTTOM	: 137.10	LOG MEASURED FROM	: 0	DF	: 0
LOG TOP	: 0.38	DRL MEASURED FROM	: 0	GL	: 0
CASING DRILLER	: 0	LOGGING UNIT	: 8401		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: 0.5	RECORDED BY	: G.PHILLIPS		
BIT SIZE	: 15.6	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 24.500	RM	: 0	TYPE	: 9030AA
MATRIX DENSITY	: 2.68	RM TEMPERATURE	: 0	LOG	: 6
FLUID DENSITY	: 1.0	MATRIX DELTA T	: 173	PLOT	: QUIN 5
NEUTRON MATRIX	: SANDSTONE	FLUID DELTA T	: 690	THRESH	: 9000

REMARKS :
VERTICAL
LOGGED OPEN HOLE BL23650/SL42225

ALL SERVICES PROVIDED SUBJECT TO CGC STANDARD TERMS AND CONDITIONS

#880

Century

CGC

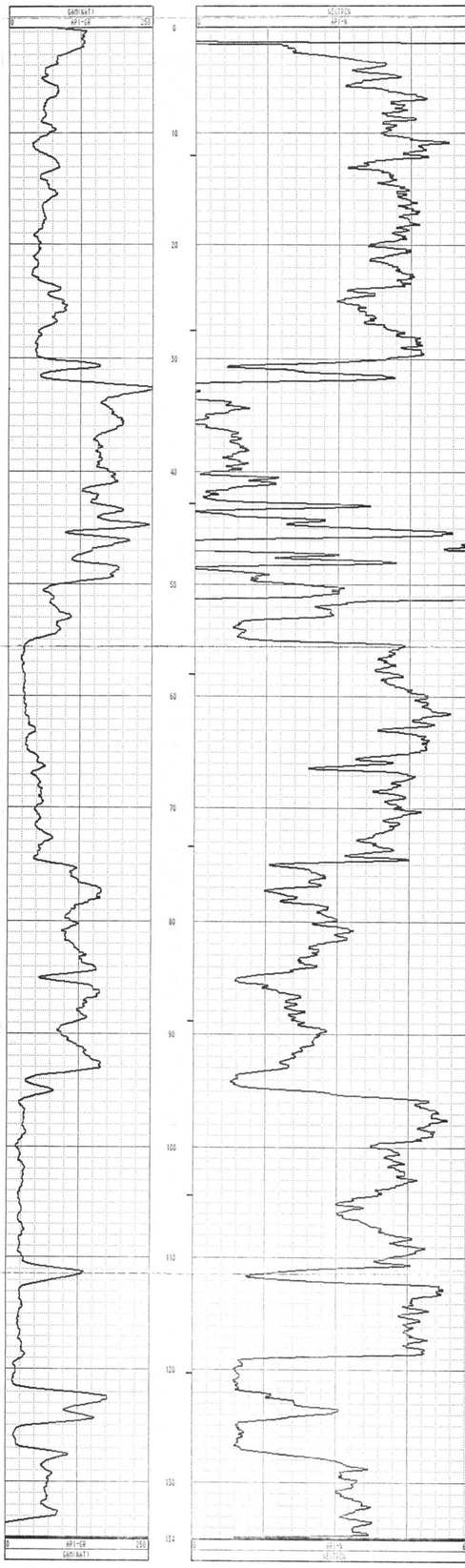
QPR88003 GAMMA NEUTRON

COMPANY	: QUINTETTE COAL LTD.		
WELL	: QPR88003 GAMMA NEUTRON		
LOCATION/FIELD	: PERRY CREEK		
COUNTY	:		
STATE	: BRITISH COLUMBIA		
SECTION	:	TOWNSHIP :	RANGE :

OTHER SERVICES:
DEN.NEUT
GAM.RES.
CAL.DEV

DATE	: 10/19/88	PERMANENT DATUM	: 0	ELEVATIONS	
DEPTH DRILLER	: 138	ELEV. PERM. DATUM:	0	KB	: 0
LOG BOTTOM	: 134.96	LOG MEASURED FROM:	0	DF	: 0
LOG TOP	: 0.66	DRL MEASURED FROM:	0	GL	: 0
CASING DRILLER	: 0	LOGGING UNIT	: 8401		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS:	0.5	RECORDED BY	: G.PHILLIPS		
BIT SIZE	: 15.6	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 24.500	RM	: 0	TYPE	: 9055A
MATRIX DENSITY	: 2.68	RM TEMPERATURE	: 0	LOG	: 4
FLUID DENSITY	: 1.0	MATRIX DELTA T	: 173	PLOT	: 0 0
NEUTRON MATRIX	: SANDSTONE	FLUID DELTA T	: 690	THRESH:	9000

REMARKS :
VERTICAL
LOGGED OPEN HOLE BL23650/SL42205
ALL SERVICES PROVIDED SUBJECT TO CGC STANDARD TERMS AND CONDITIONS



TOOL CALIBRATION TOOL : 9055A SERIAL NUMBER : 46

	CAL-DATE	CAL-TIME	SRCE	SENSOR	DESCONSE	STANDARD
0	07/28/88	15:07:18	0	GAMMA(API)	0.000 CPS	0.000 API-GR
1	07/28/88	15:07:18	0	GAMMA(API)	0.000 CPS	0.000 API-GR
2	10/05/88	12:07:01	0	POROSITY	0.000 CPS	190.000 CPS
3	07/28/88	15:07:18	0	RES	0.000 CPS	0.000 OHM
4	07/28/88	15:07:18	0	RES	0.000 CPS	0.000 OHM
5	07/28/88	15:07:18	0	SP	0.000 CPS	0.000 MV
6	07/28/88	15:07:18	0	SP	0.000 CPS	0.000 MV
7	07/28/88	15:19:56	0	NEUTRON	0.000 CPS	0.000 API-N
8	07/28/88	15:19:56	0	NEUTRON	190.000 CPS	271.000 API-N

#880 1:200 MARKED

Century

QPR88003 GAMMA DENSITY

COMPANY : QUINTETTE COAL LTD.
WELL : QPR88003 GAMMA DENSITY
LOCATION/FIELD : PERRY CREEK
COUNTY :
STATE : BRITISH COLUMBIA
SECTION : TOWNSHIP : RANGE :

OTHER SERVICES:
DEN.NEUT
GAM.RES.
CAL.DEN

DATE : 10/19/88
DEPTH DRILLER : 138
LOG BOTTOM : 137.10
LOG TOP : 0.38

PERMANENT DATUM : 0
ELEV. PERM. DATUM: 0
LOG MEASURED FROM: 0
DRL MEASURED FROM: 0

ELEVATIONS
KB : 0
DF : 0
GL : 0

CASING DRILLER : 0
CASING TYPE : STEEL
CASING THICKNESS: 0.5

LOGGING UNIT : 8401
FIELD OFFICE : CALGARY
RECORDED BY : G.PHILLIPS

BIT SIZE : 15.6
MAGNETIC DECL. : 24.500
MATRIX DENSITY : 2.68
FLUID DENSITY : 1.0
NEUTRON MATRIX : SANDSTONE
REMARKS :
VERTICAL
LOGGED OPEN HOLE BL23650/SL42235

BOREHOLE FLUID : WATER
RM : 0
RM TEMPERATURE : 0
MATRIX DELTA T : 173
FLUID DELTA T : 690

FILE : ORIGINAL
TYPE : 9030AA
LOG : 6
PLOT : 0 2
THRESH: 9000

ALL SERVICES PROVIDED SUBJECT TO CGC STANDARD TERMS AND CONDITIONS

TOOL CALIBRATION TOOL = 9030AA SERIAL NUMBER = 420

	CAL-DATE	CAL-TIME	SRCE	SENSOR	RESPONSE	STANDARD
0	09/22/88	16:44:23	0	GAM(NAT)	0.000 CPS	0.000 API-GR
1	09/17/88	17:36:16	0	GAM(NAT)	0.000 CPS	0.000 API-GR
2	09/17/88	17:39:01	0	DENSITY	5615.000 CPS	1.106 G/CC
3	09/17/88	17:39:01	0	DENSITY	2230.500 CPS	2.120 G/CC
4	09/17/88	17:36:16	0	RES(MG)	0.000 CPS	0.000 OHM-M
5	09/17/88	17:36:16	0	RES(MG)	0.000 CPS	0.000 OHM-M
6	09/22/88	13:37:32	0	CALIPER	213.400 CPS	7.600 CM
7	09/22/88	13:37:32	0	CALIPER	1842.500 CPS	17.800 CM
8	09/17/88	17:36:16	0	DENSITYH	0.000 CPS	0.000 G/CC
9	09/17/88	17:36:16	0	DENSITYH	0.000 CPS	0.000 G/CC
10	09/22/88	13:37:57	0	CALIPERL	0.000 CPS	0.000 CM
11	09/22/88	13:37:57	0	CALIPERL	0.000 CPS	0.000 CM

#880

COMPU-LOG V8L2 PLOT 07-11-80

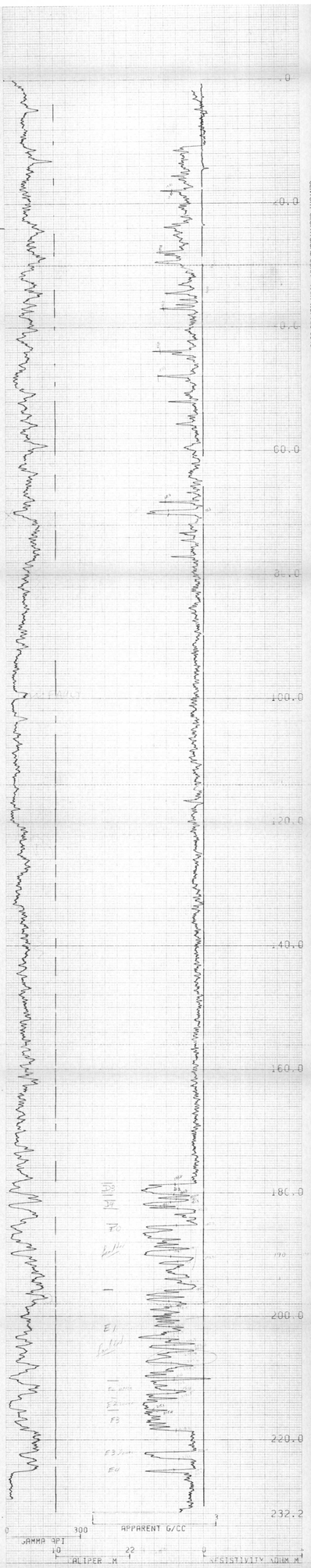
QMD88003

GAMMA-DENSITY(CAL)

MESA EXT

HOLE DIAMETER : 10.0
PROBE # 9032C - 958
SENSOR #4 CAL STD CPS = 7127
SENSOR #4 CAL RUN CPS = 2500
SENSOR #4 CAL BIAS = -1
DATA V8L2*A TRUCK # 646
L.Y APPL.#1708L1

CENTURY GEOPHYSICAL CORP. PART NO. 786-00



#880

COMPU-LOG V8L2 PLOT 07-11-80

CMD88003

GAMMA-DENSITY(CAL)

MESA EXT

HOLE DIAMETER : 10.0

PROBE # 9032C 956

SENSOR #4 CAL STD CPS = 7123

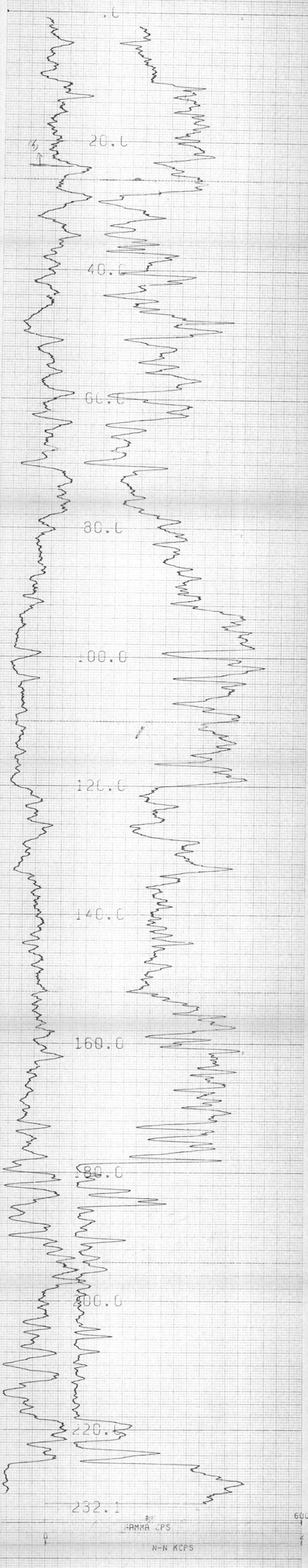
SENSOR #4 CAL RUN CPS = 2500

SENSOR #4 CAL BIAS = 1

DATA 78L2WR TRUCK # 646

APPL.#30 L1

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040



#880

COMPU-LOG V8L2 PLOT 07-11-80

QMD88003

GAMMA-NEUTRON(RONS)

MESA EX

HOLE DIAMETER : 10.0

PROBE # 9055A - 079

SENSOR #4 CAL STD CPS = 152

SENSOR #4 CAL RUN CPS = 186

SENSOR #4 CAL BIAS = 0

DATA V8L2#A TRUCK # 646

L.Y APPL.#7 L1

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

Century #880

DIGITAL COMPUTER LOG

COMPANY	: QUINTETTE COAL LTD.			OTHER SERVICES:	
WELL	: QMD 88003 DEVIATION				
LOCATION/FIELD	:				
COUNTY	:				
STATE	: BRITISH COLUMBIA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 07/31/88	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	:	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 146.88	LOG MEASURED FROM	: GL	DF	:
LOG TOP	: 0.92	DRL MEASURED FROM	: GL	GL	:
CASING DRILLER	: 296	LOGGING UNIT	: 8602		
CASING TYPE	:	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: .2	RECORDED BY	: R. WHITTAKER		
BIT SIZE	: 13.34	BOREHOLE FLUID	: WATER	FILE	: PROCESSED
MAGNETIC DECL.	: 24.500	RM	: 0	TYPE	: 9055A
MATRIX DENSITY	: 2.68	RM TEMPERATURE	: 0	LOG	: 1
FLUID DENSITY	: 1.0	MATRIX DELTA T	: 173	PLOT	: DEFAULT 0
NEUTRON MATRIX	: SANDSTONE	FLUID DELTA T	: 690	THRESH	: 2500
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO CGC STANDARD TERMS AND CONDITIONS

Century Geophysical Corp. 9055A -PROCESSED

DEPTH (M)	T DEPTH M	D DIFF M	N DEV M	E DEV M	DISTANCE M	AZIMUTH DEG	SANG DEG	SANGB DEG
0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.00	4.7	-.3	0.4	-.4	0.7	291.8	29.8	160.9
10.00	9.0	-1.0	1.0	0.0	1.0	156.9	30.0	139.5
15.00	13.3	-1.7	1.0	-.6	1.3	269.3	29.8	222.7
20.00	17.7	-2.3	-.8	-2.2	2.4	251.7	29.7	221.6
25.00	22.0	-3.0	-2.7	-3.9	4.7	235.7	29.4	221.3
30.00	26.4	-3.6	-4.5	-5.5	7.1	230.5	29.4	220.9
35.00	30.7	-4.3	-6.1	-6.9	9.2	228.9	29.1	172.3
40.00	35.1	-4.9	-5.3	-6.3	8.3	229.8	29.3	83.7
45.00	39.5	-5.5	-3.8	-5.2	6.5	233.9	29.3	63.9
50.00	43.8	-6.2	-1.8	-4.1	4.5	246.1	29.5	30.4
55.00	48.2	-6.8	0.2	-3.3	3.4	274.3	29.3	96.4
60.00	52.5	-7.5	2.1	-2.1	3.1	315.4	29.3	39.6
65.00	56.9	-8.1	4.2	-.8	4.3	348.2	29.3	36.7
70.00	61.3	-8.7	5.5	0.9	5.6	16.1	29.1	73.1
75.00	65.6	-9.4	6.5	2.3	6.9	19.4	28.9	106.4
80.00	70.0	-10.0	7.3	3.1	7.9	23.2	28.8	50.7
85.00	74.4	-10.6	9.3	4.4	10.2	25.4	28.6	30.9
90.00	78.8	-11.2	11.2	5.6	12.6	26.6	28.6	34.9
95.00	83.2	-11.8	13.2	6.8	14.9	27.5	28.7	35.5
100.00	87.5	-12.4	15.3	7.9	17.2	27.4	28.9	27.9
105.00	91.9	-13.1	17.4	9.0	19.6	27.4	29.1	49.9
110.00	96.3	-13.7	19.3	10.1	21.8	27.6	29.0	55.7
115.00	100.7	-14.3	21.3	11.2	24.1	27.9	29.1	22.8
120.00	105.0	-15.0	23.5	12.2	26.5	27.5	29.0	26.5
125.00	109.4	-15.6	25.6	13.4	28.9	27.6	28.8	28.7
130.00	113.8	-16.2	27.7	14.5	31.3	27.5	28.7	30.7
135.00	118.2	-16.8	29.7	15.8	33.6	28.1	28.7	63.3
140.00	122.6	-17.4	30.6	16.7	34.8	28.6	28.7	72.3
145.00	126.7	-18.0	32.2	17.8	36.8	28.9	28.3	53.8

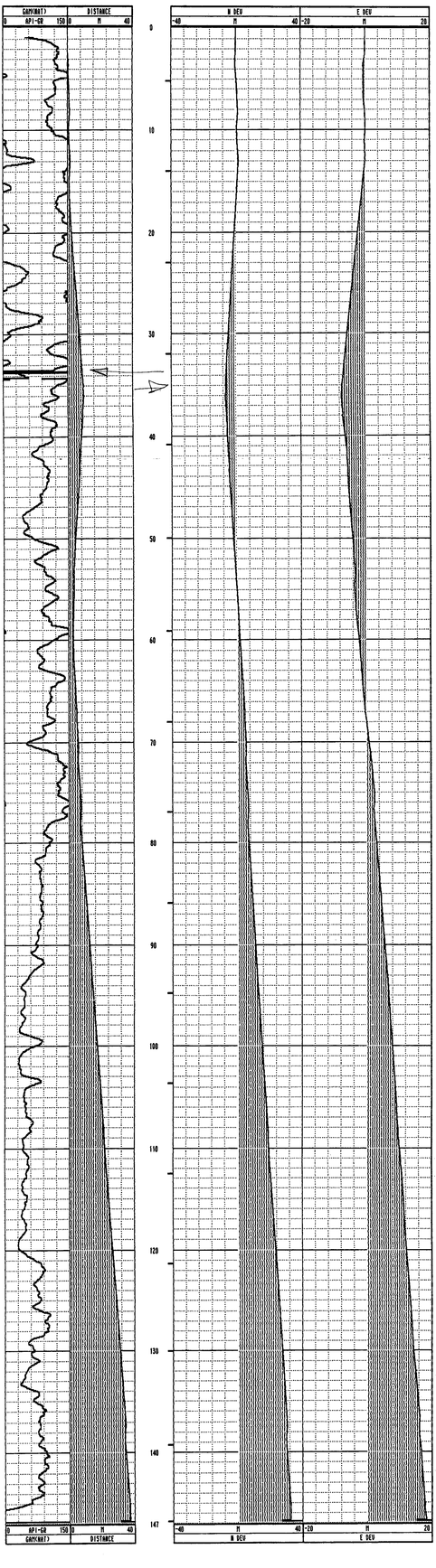
#880

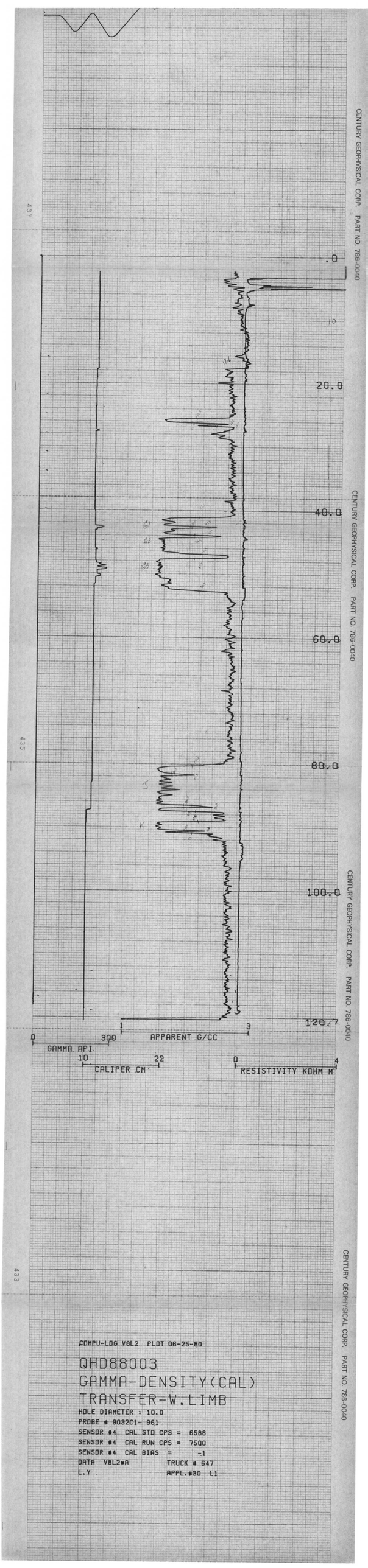
Century

QMD 88003 DEVIATION

COMPANY	: QUINTETTE COAL LTD.			OTHER SERVICES:	
WELL	: QMD 88003 DEVIATION				
LOCATION/FIELD	:				
COUNTY	:				
STATE	: BRITISH COLUMBIA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 07/31/88	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	:	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	: 146.88	LOG MEASURED FROM:	GL	DF	:
LOG TOP	: 0.92	DRL MEASURED FROM:	GL	GL	:
CASING DRILLER	: 296	LOGGING UNIT	: 8602		
CASING TYPE	:	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: .2	RECORDED BY	: R. WHITTAKER		
BIT SIZE	: 13.34	BOREHOLE FLUID	: WATER	FILE	: PROCESSED
MAGNETIC DECL.	: 24.500	RM	: 0	TYPE	: 9055A
MATRIX DENSITY	: 2.68	RM TEMPERATURE	: 0	LOG	: 1
FLUID DENSITY	: 1.0	MATRIX DELTA T	: 173	PLOT	: 9055-D 1
NEUTRON MATRIX	: SANDSTONE	FLUID DELTA T	: 690	THRESH	: 2500
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO CGC STANDARD TERMS AND CONDITIONS




CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
.0
20.0
40.0
60.0
80.0
100.0
120.7
1
3
APPARENT G/CC
0
300
GAMMA API
10
22
CALIPER CM
0
4
RESISTIVITY KOHM M
COMPU-LOG V8L2 PLOT 06-25-80
QHD88003
GAMMA-DENSITY(CAL)
TRANSFER-W.LIMB
HOLE DIAMETER : 10.0
PROBE # 9032C1- 961
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 7500
SENSOR #4 CAL BIAS = -1
DATA V8L2*A
TRUCK # 647
L.Y
APPL.#30 L1

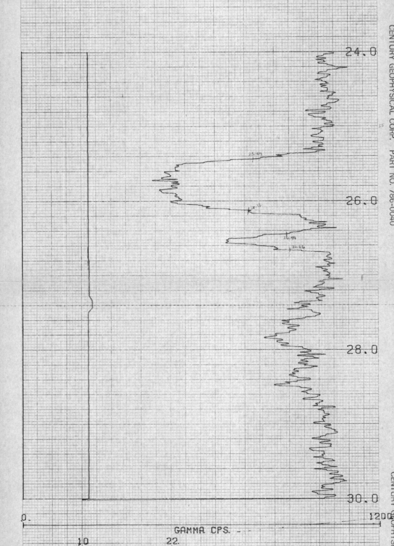
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
.0
20.0
40.0
60.0
80.0
100.0
116.3
#880
0
600
GAMMA API
0
2
N-N KCPS
COMPU-LOG V8L2 PLOT 06-20-83
QHD-88003
Q.C.L. GAMMA NEUTRON
QCL
HOLE DIAMETER : 32.0
PROBE # 9055A - 079
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 6110
SENSOR #4 CAL BIAS = 0
DATA: V8L2*A TRUCK # 6575
IAN J. OLIVER APPL.#7 L1

#880

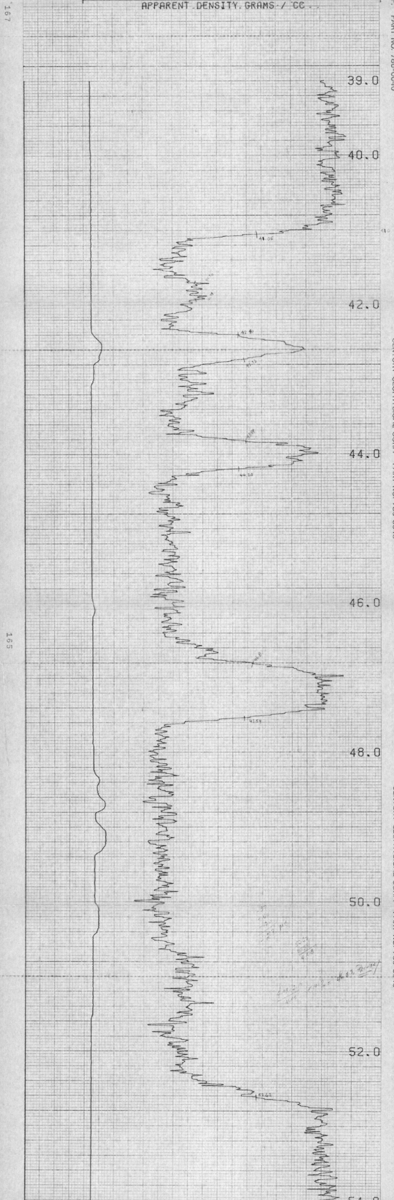
COMPU-LOG V8L2 PLOT 06-25-80

QHD88003
GAMMA-DENSITY (CAL)
TRANSFER-W. LIMB

HOLE DIAMETER = 10.0
PROBE # 9032C1-961
SENSOR #4 - CAL STD-CPS = 6588
SENSOR #4 - CAL RUN CPS = 7500
SENSOR #4 - CAL BIAS = -1
DATA V8L2*A TRUCK # 647
L.Y. APPL. #1708L1



0. GAMMA CPS. 1200
10. CALIPER CM 22.
1. APPARENT DENSITY GRAMS / CC 3.



0 GAMMA CPS 1200
10 CALIPER CM 22
1 APPARENT DENSITY GRAMS / CC 3

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

#880 Century

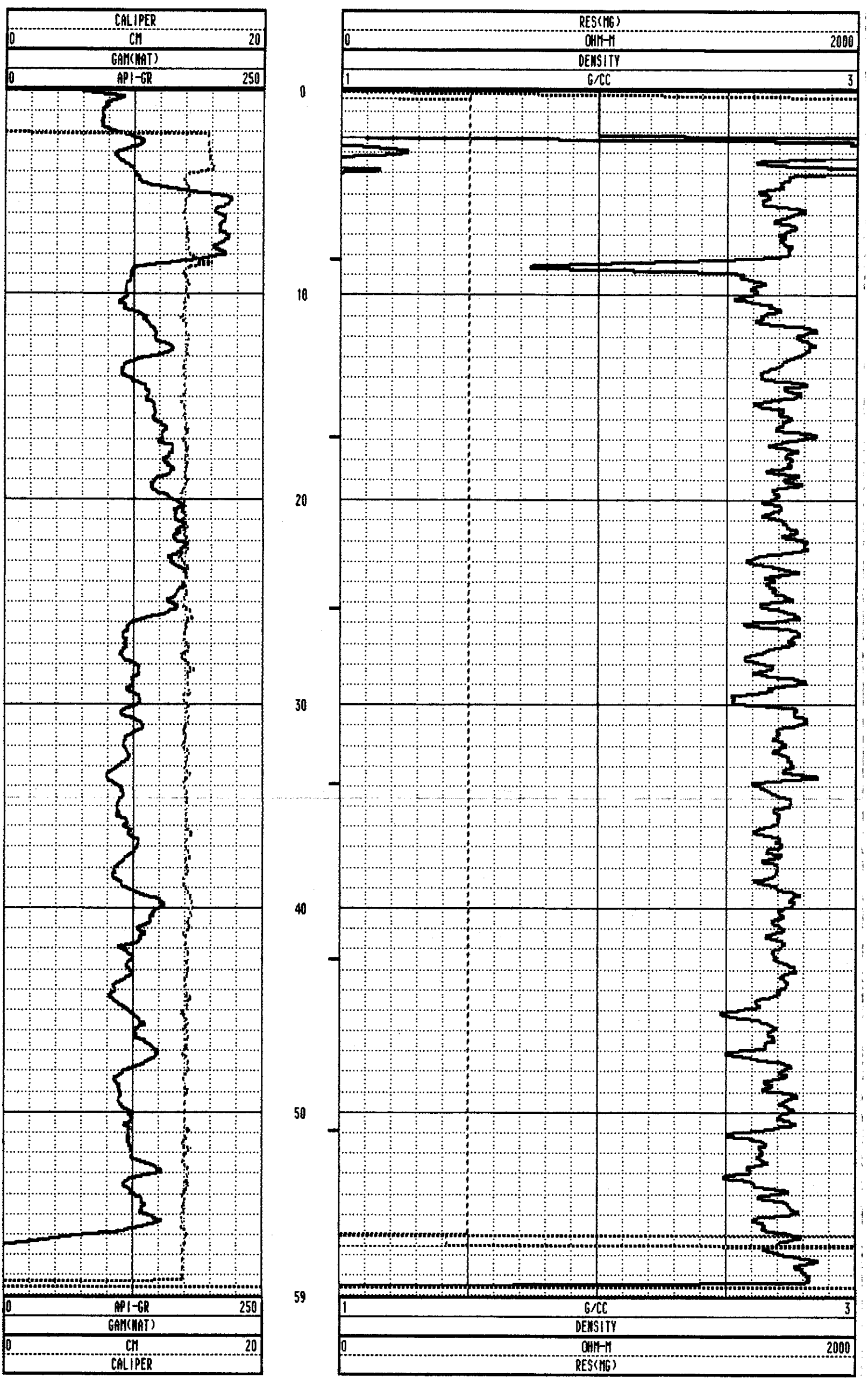
QMR 88003 GAMMA-DENSITY

COMPANY	: QUINTETTE COAL LTD.		
WELL	: QMR 88003 GAMMA-DENSITY		
LOCATION/FIELD	: BL 19600;SL 28800 EXT WEST		
COUNTY	:		
STATE	: BRITISH COLUMBIA		
SECTION	:	TOWNSHIP :	RANGE :

OTHER SERVICES:
DEN.NEUT
GAM.RES.
CAL.DEV

DATE	: 08/07/88	PERMANENT DATUM	: 1330	ELEVATIONS	
DEPTH DRILLER	: 60 M	ELEV. PERM. DATUM	: 1330	KB	: 1330
LOG BOTTOM	: 58.68	LOG MEASURED FROM	: 1330	DF	: 1330
LOG TOP	: 0.10	DRL MEASURED FROM	: 1330	GL	: 1330
CASING DRILLER	: 9	LOGGING UNIT	: 8401		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: 0	RECORDED BY	: W. STROEBEL		
BIT SIZE	: 13.34	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 24.5	RM	: 0	TYPE	: 9030AA
MATRIX DENSITY	: 2.68	RM TEMPERATURE	: 0	LOG	: 2
FLUID DENSITY	: 1.0	MATRIX DELTA T	: 173	PLOT	: QUIN 3
NEUTRON MATRIX	: SANDSTONE	FLUID DELTA T	: 690	THRESH	: 2500
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO CGC STANDARD TERMS AND CONDITIONS



TOOL CALIBRATION TOOL = 9030AA SERIAL NUMBER = 404

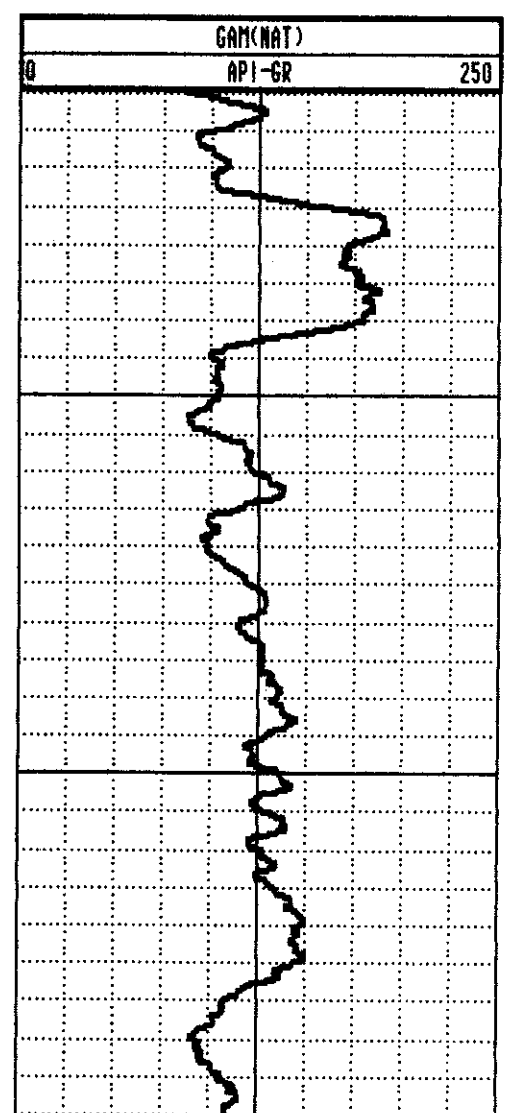
	CAL-DATE	CAL-TIME	SRCE	SENSOR	RESPONSE	STANDARD
0	07/28/88	13:56:46	0	GAM(NAT)	0.000 CPS	0.000 API-GR
1	07/28/88	13:56:46	0	GAM(NAT)	0.000 CPS	0.000 API-GR
2	07/28/88	14:13:46	0	DENSITY	5615.000 CPS	1.106 G/CC
3	07/28/88	14:13:46	0	DENSITY	2230.500 CPS	2.120 G/CC
4	07/28/88	13:56:46	0	RES(MG)	0.000 CPS	0.000 OHM-M
5	07/28/88	13:56:46	0	RES(MG)	0.000 CPS	0.000 OHM-M
6	07/28/88	15:42:06	0	CALIPER	213.400 CPS	7.600 CM
7	07/28/88	15:42:06	0	CALIPER	1842.500 CPS	17.800 CM
8	07/28/88	13:56:46	0	DENSITYH	0.000 CPS	0.000 G/CC
9	07/28/88	13:56:46	0	DENSITYH	0.000 CPS	0.000 G/CC
10	07/28/88	13:56:46	0	CALIPERL	0.000 CPS	0.000 CM
11	07/28/88	13:56:46	0	CALIPERL	0.000 CPS	0.000 CM

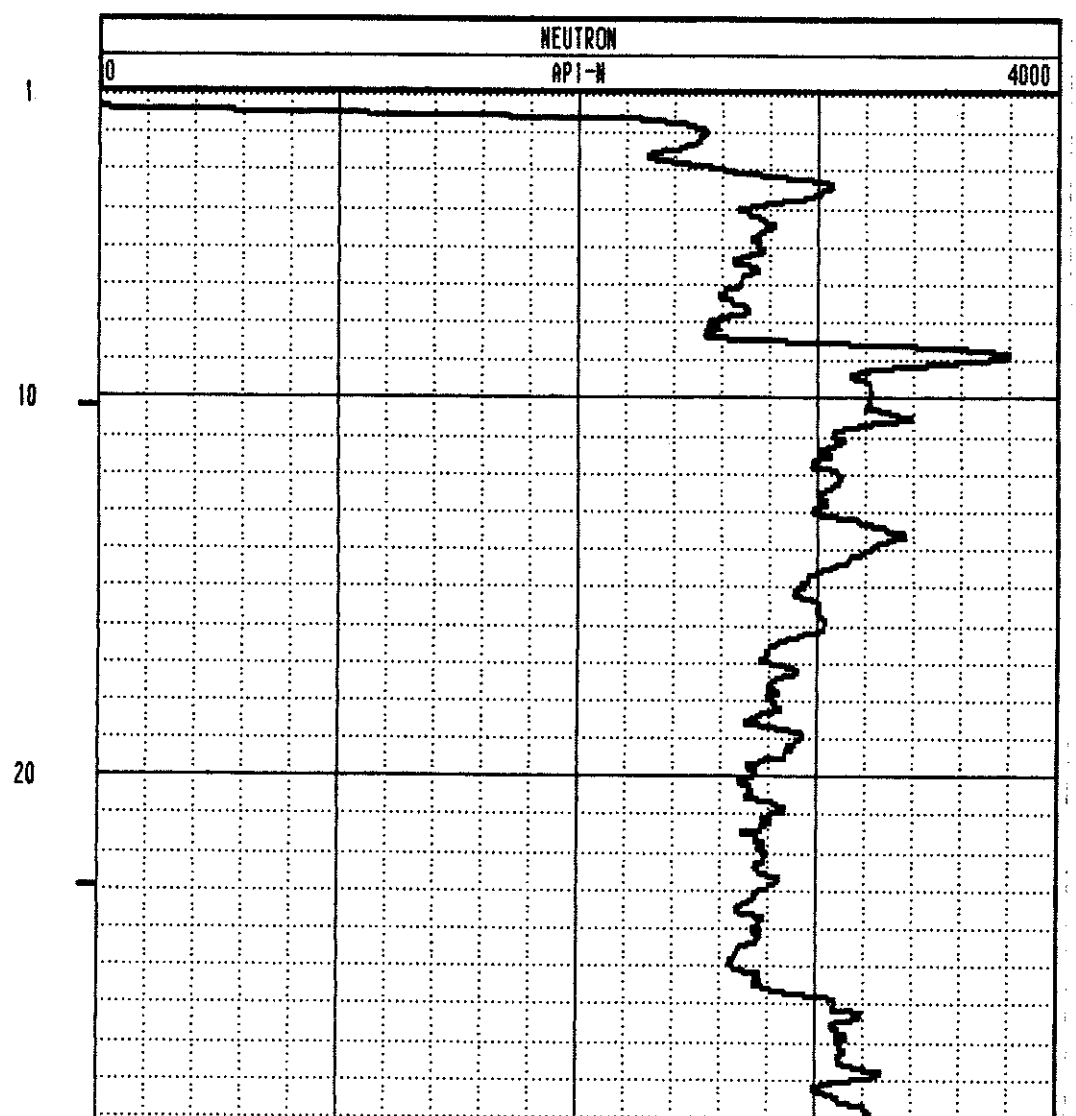
#880 Century

QMR 88003 GAMMA-NEUTRON

COMPANY	: QUINTETTE COAL LTD.			OTHER SERVICES:	
WELL	: QMR 88003 GAMMA-NEUTRON			DEN.NEUT	
LOCATION/FIELD	: BL 19600:SL 28800/EXT WEST			GAM.RES.	
COUNTY	:			CAL.DEV	
STATE	: BRITISH COLUMBIA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 08/07/88	PERMANENT DATUM	: 1330	ELEVATIONS	
DEPTH DRILLER	: 60 M	ELEV. PERM. DATUM	: 1330	KB	: 1330
LOG BOTTOM	: 58.88	LOG MEASURED FROM	: 1330	DF	: 1330
LOG TOP	: 1.14	DRL MEASURED FROM	: 1330	GL	: 1330
CASING DRILLER	: 9	LOGGING UNIT	: 8401		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: 0	RECORDED BY	: W. STROEBEL		
BIT SIZE	: 13.34	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 24.5	RM	: 0	TYPE	: 9055A
MATRIX DENSITY	: 2.68	RM TEMPERATURE	: 0	LOG	: 2
FLUID DENSITY	: 1.0	MATRIX DELTA T	: 173	PLOT	: QUIN 2
NEUTRON MATRIX	: SANDSTONE	FLUID DELTA T	: 690	THRESH	: 2500
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO CGC STANDARD TERMS AND CONDITIONS





TOOL CALIBRATION TOOL = 9055A SERIAL NUMBER = 46

	CAL-DATE	CAL-TIME	SRCE	SENSOR	RESPONSE	STANDARD
0	07/28/88	15:07:18	0	GAM(NAT)	0.000 CPS	0.000 API-GR
1	07/28/88	15:07:18	0	GAM(NAT)	0.000 CPS	0.000 API-GR
2	07/28/88	15:20:10	0	POROSITY	0.000 CPS	190.000 CPS
3	07/28/88	15:07:18	0	RES	0.000 CPS	0.000 OHM
4	07/28/88	15:07:18	0	RES	0.000 CPS	0.000 OHM
5	07/28/88	15:07:18	0	SP	0.000 CPS	0.000 MV
6	07/28/88	15:07:18	0	SP	0.000 CPS	0.000 MV
7	07/28/88	15:19:56	0	NEUTRON	0.000 CPS	0.000 API-N
8	07/28/88	15:19:56	0	NEUTRON	190.000 CPS	271.000 API-N

Century #880

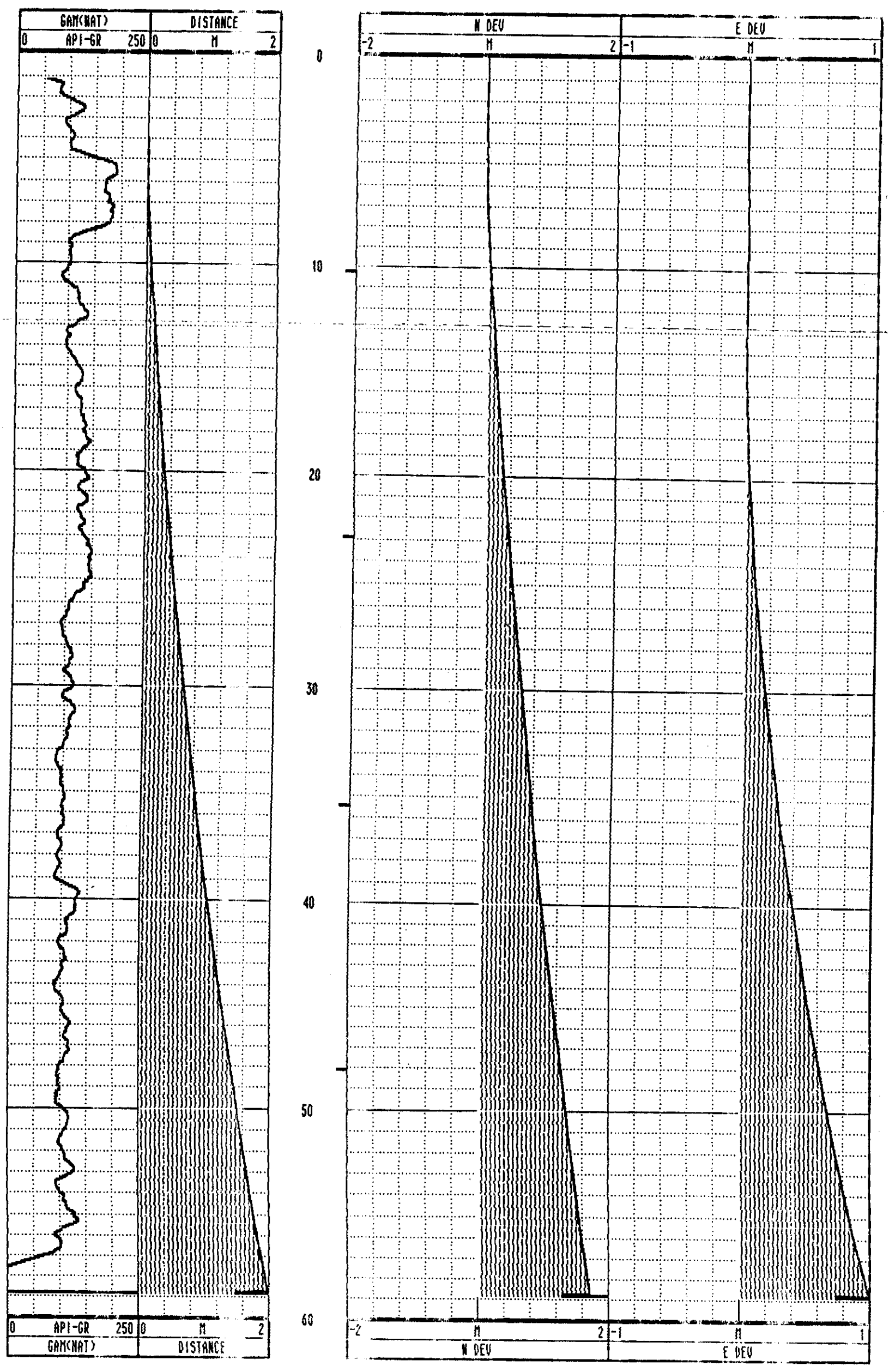
#880

QHR 88003 DEVIATION

COMPANY	: QUINTETTE COAL LTD.	OTHER SERVICES:	
WELL	: QHR 88003 DEVIATION	DEN.NEUT	
LOCATION/FIELD	: BL 19600:SL 28800/EXT WEST	GAM.RES.	
COUNTY	:	CAL.DEV	
STATE	: BRITISH COLUMBIA		
SECTION	: TOWNSHIP	:	RANGE :

DATE	: 09/07/88	PERMANENT DATUM	: 1330	ELEVATIONS	
DEPTH DRILLER	: 60 M	ELEV. PERM. DATUM	: 1330	KB	: 1330
LOG BOTTOM	: 58.88	LOG MEASURED FROM	: 1330	DF	: 1330
LOG TOP	: 1.14	DRL MEASURED FROM	: 1330	GL	: 1330
CASING DRILLER	: 0	LOGGING UNIT	: 8401		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: 0	RECORDED BY	: W. STROEBEL		
BIT SIZE	: 13.34	BOREHOLE FLUID	: WATER	FILE	: PROCESSED
MAGNETIC DECL.	: 24.500	RM	: 0	TYPE	: 9055A
MATRIX DENSITY	: 2.68	RM TEMPERATURE	: 0	LOG	: 0
FLUID DENSITY	: 1.0	MATRIX DELTA T	: 173	PLOT	: 9055-D 1
NEUTRON MATRIX	: SANDSTONE	FLUID DELTA T	: 690	THRESH	: 2500
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO CGC STANDARD TERMS AND CONDITIONS



PAGE 1 Century Geophysical Corp. 9055A -PROCESSED

DEPTH (M)	T DEPTH M	D DIFF M	N DEV M	E DEV M	DISTANCE M	AZIMUTH DEG	SANG DEG	SANGB DEG
0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.00	5.0	-.0	0.0	0.0	0.0	-.0	0.8	158.5
10.00	10.0	-.0	0.1	0.0	0.1	7.8	1.2	218.2
15.00	15.0	-.0	0.2	0.0	0.2	2.1	1.3	73.1
20.00	20.0	-.0	0.3	0.0	0.3	6.3	1.5	16.4
25.00	25.0	-.0	0.4	0.1	0.4	11.1	2.0	22.5
30.00	30.0	-.0	0.6	0.2	0.6	15.4	2.1	29.9
35.00	35.0	-.0	0.8	0.3	0.8	19.4	2.4	35.0
40.00	40.0	-.0	0.9	0.4	1.0	22.8	2.7	34.6
45.00	45.0	-.0	1.1	0.5	1.3	24.7	2.8	33.9
50.00	50.0	-.0	1.3	0.7	1.5	26.6	2.9	38.2
55.00	55.0	-.0	1.5	0.8	1.8	28.6	3.2	41.0
60.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

#880

Century

QPR88004 DEVIATION

COMPANY : QUINTETTE COAL LTD.
WELL : QPR88004 DEVIATION
LOCATION/FIELD : PERRY CREEK
COUNTY :
STATE : BRITISH COLUMBIA
SECTION : TOWNSHIP : RANGE :

OTHER SERVICES:
DEN.NEUT
GAM.RES.
CAL.DEV

DATE : 10/20/88
DEPTH DRILLER : 71
LOG BOTTOM : 70.76
LOG TOP : 0.76

PERMANENT DATUM : 0
ELEV. PERM. DATUM: 0
LOG MEASURED FROM: 0
DRL MEASURED FROM: 0

ELEVATIONS
KB : 0
DF : 0
GL : 0

CASING DRILLER : 2
CASING TYPE : STEEL
CASING THICKNESS: 0.5

LOGGING UNIT : 8401
FIELD OFFICE : CALGARY
RECORDED BY : G.PHILLIPS

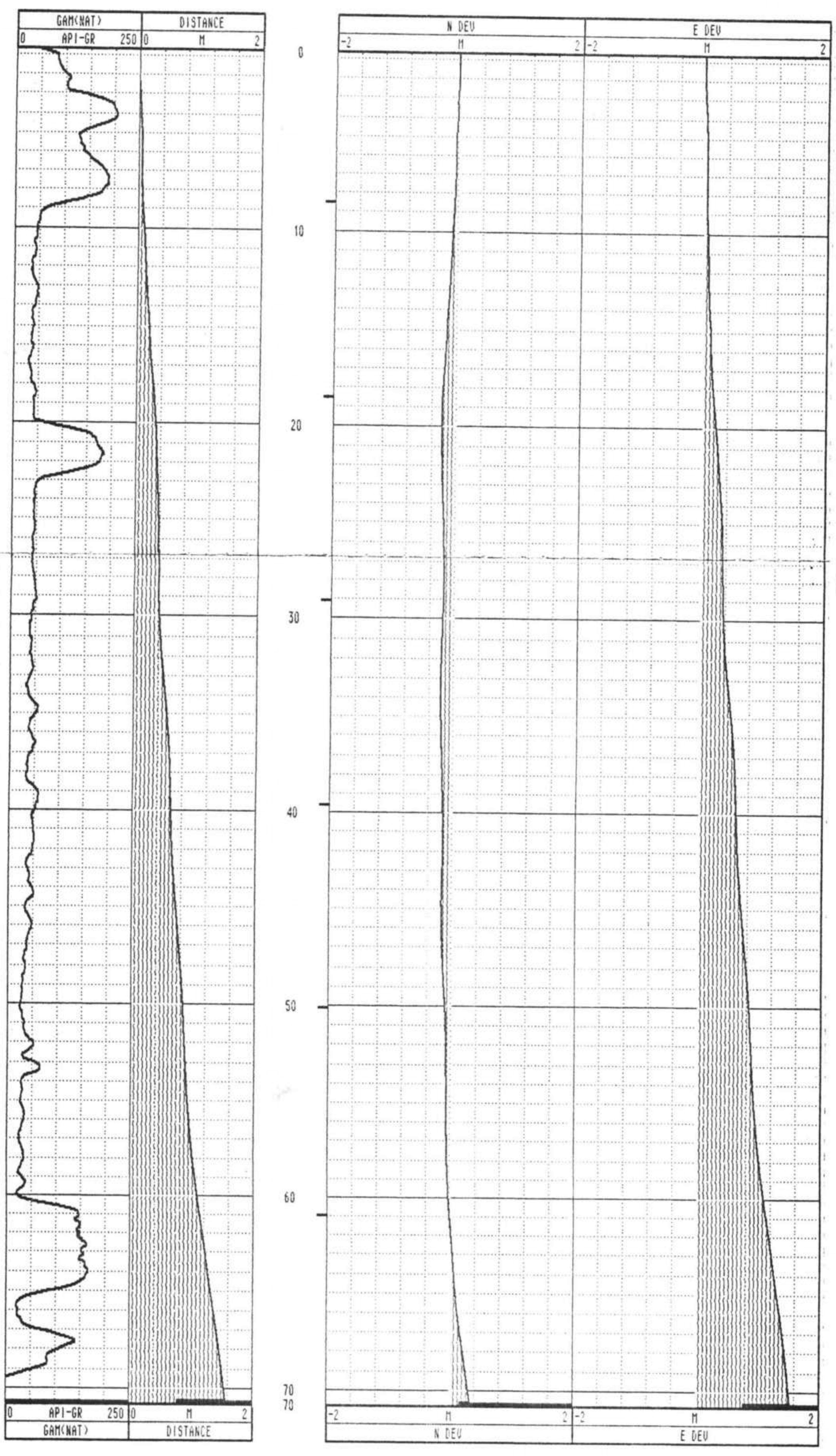
BIT SIZE : 17.8
MAGNETIC DECL. : 24.500
MATRIX DENSITY : 2.68
FLUID DENSITY : 1.0
NEUTRON MATRIX : SANDSTONE

BOREHOLE FLUID : WATER
RM : 0
RM TEMPERATURE : 0
MATRIX DELTA T : 173
FLUID DELTA T : 690

FILE : PROCESSED
TYPE : 9055A
LOG : 6
PLOT : Q 1
THRESH: 15000

REMARKS :
VERTICAL HOLE
LOGGED OPEN HOLE BL23635/43200

ALL SERVICES PROVIDED SUBJECT TO CGC STANDARD TERMS AND CONDITIONS



* * * * * * * * * * COMPU-LOG II – VERTICAL DEVIATION * * * * * * * * * * *

CLIENT : QUINTETTE COAL LTD.
FIELD OFFICE : CALGARY
DATA FROM :
MAG. DECL. : 24.500

HOLE ID. : QPR88004 DEVI
DATE OF LOG : 10/20/88
PROBE : 9055A , 46
DEPTH UNITS : METER LOG 6

Cable Depth	True Depth	North Dev.	East Dev.	Distance	Azimuth	SANG	SANGB
0.0	0.00	0.00	0.00	0.0	0.0	0.0	0.0
10.0	10.00	-.08	0.06	0.1	142.8	1.4	131.9
20.0	19.99	-.23	0.22	0.3	136.2	2.0	102.8
30.0	29.99	-.18	0.37	0.4	115.6	0.9	131.5
40.0	39.99	-.15	0.61	0.6	104.3	0.9	62.4
50.0	49.99	-.10	0.83	0.8	97.2	1.2	45.5
60.0	59.98	-.03	1.08	1.1	91.7	2.4	75.0
70.0	69.97	0.30	1.50	1.5	78.8	3.0	34.6
70.8	70.73	0.33	1.53	1.6	77.8	0.0	0.0

#880

Century

QPR88004 GAMMA NEUTRON

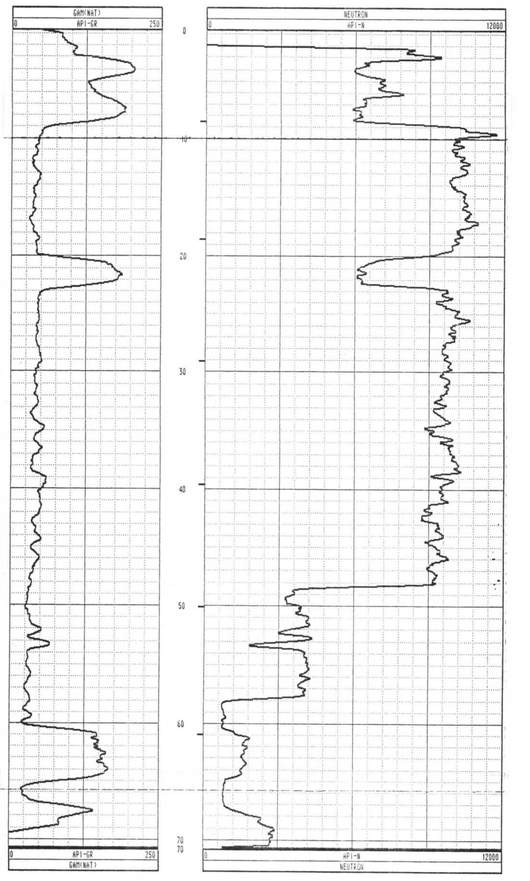
COMPANY	: QUINTETTE COAL LTD.		
WELL	: QPR88004 GAMMA NEUTRON		
LOCATION/FIELD	: PERRY CREEK		
COUNTY	:		
STATE	: BRITISH COLUMBIA		
SECTION	:	TOWNSHIP :	RANGE :

OTHER SERVICES:
DEN.NEUT
GAM.RES.
CAL.DEV.

DATE	: 10/20/88	PERMANNENT DATUM	: 0	ELEVATIONS	
DEPTH DRILLER	: 71	ELEV. PERM. DATUM	: 0	KB	: 0
LOG BOTTOM	: 70.76	LOG MEASURED FROM	: 0	DF	: 0
LOG TOP	: 0.76	DRL MEASURED FROM	: 0	GL	: 0
CASING DRILLER	: 2	LOGGING UNIT	: 8401		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: 0.5	RECORDED BY	: G.PHILLIPS		
BIT SIZE	: 17.8	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 24.500	RM	: 0	TYPE	: 9055A
MATRIX DENSITY	: 2.68	RM TEMPERATURE	: 0	LOG	: 4
FLUID DENSITY	: 1.0	MATRIX DELTA T	: 175	PLOT	: QUIN 2
NEUTRON MATRIX	: SANDSTONE	FLUID DELTA T	: 690	THRESH	: 15000

REMARKS :
VERTICAL HOLE
LOGGED OPEN HOLE BL23635/43200

ALL SERVICES PROVIDED SUBJECT TO CGC STANDARD TERMS AND CONDITIONS



TOOL CALIBRATION TOOL = 9055A SERIAL NUMBER = 46

	CAL-DATE	CAL-TIME	SRCE	SENSOR	RESPONSE	STANDARD
0	07/28/88	15:07:18	0	GAM(NAT)	0.000 CPS	0.000 API-GR
1	07/28/88	15:07:18	0	GAM(NAT)	0.000 CPS	0.000 API-GR
2	10/05/88	12:07:01	0	POROSITY	0.000 CPS	190.000 CPS
3	07/28/88	15:07:18	0	RES	0.000 CPS	0.000 OHM
4	07/28/88	15:07:16	0	RES	0.000 CPS	0.000 OHM
5	07/28/88	15:07:18	0	SP	0.000 CPS	0.000 MV
6	07/28/88	15:07:18	0	SP	0.000 CPS	0.000 MV
7	07/28/88	15:19:56	0	NEUTRON	0.000 CPS	0.000 API-N
8	07/28/88	15:19:56	0	NEUTRON	190.000 CPS	271.000 API-N

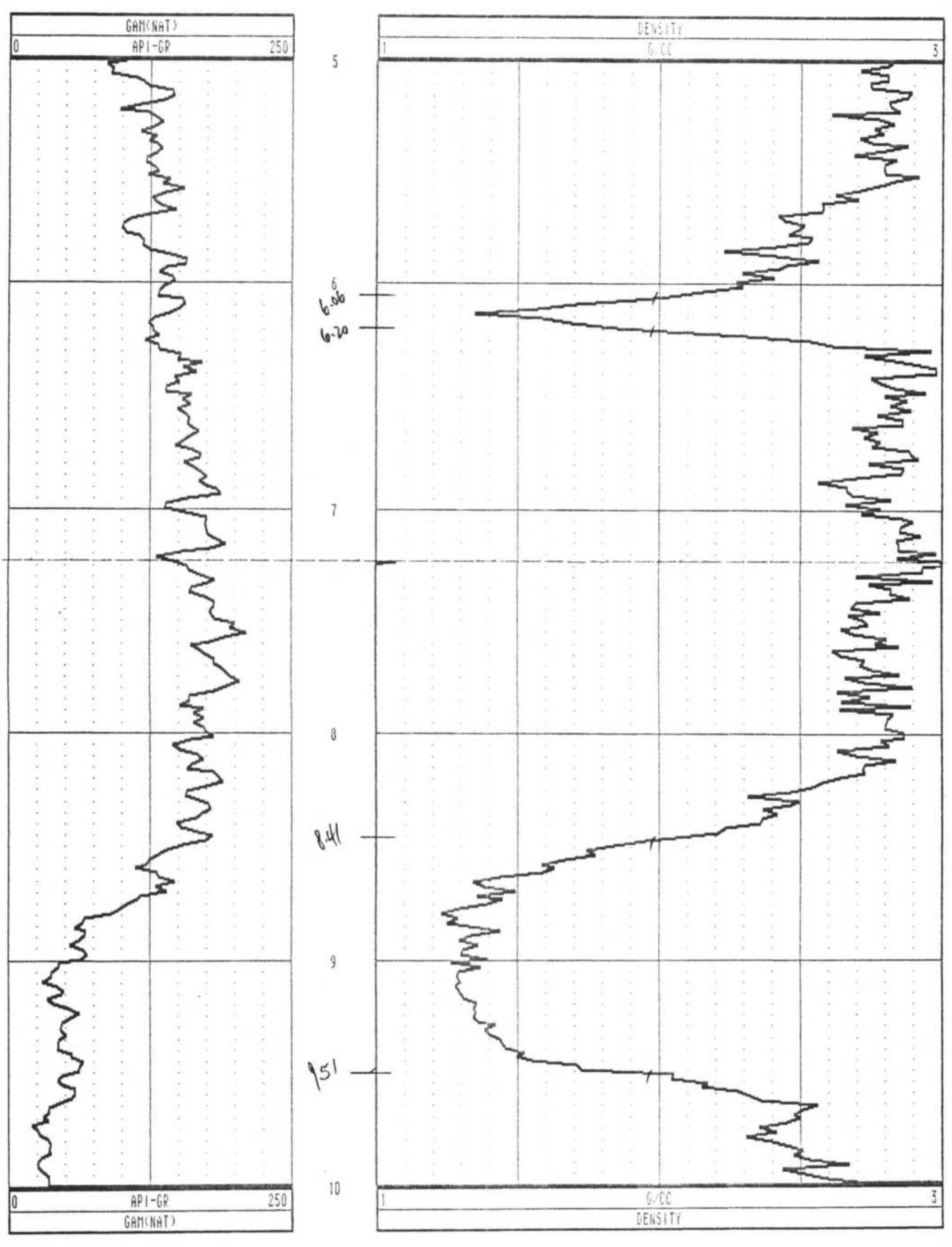
#880 Century

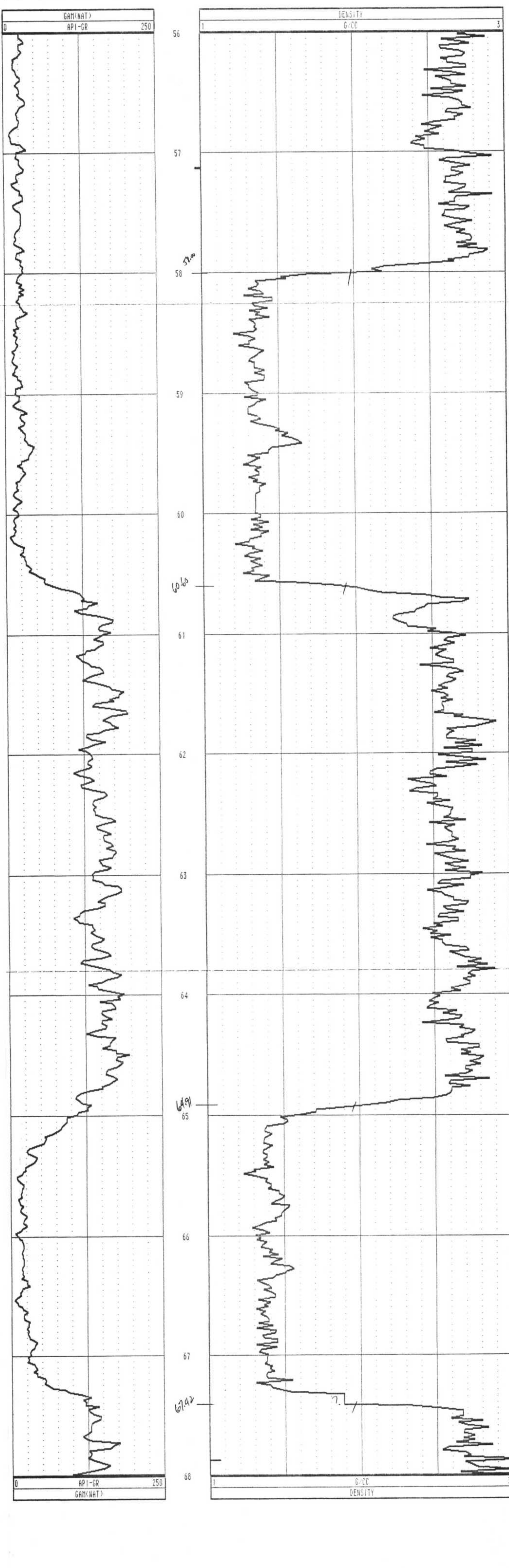
QPR88004 GAMMA DENSITY

COMPANY	: QUINTETTE COAL LTD.			OTHER SERVICES: DEN.NEUT GAM.RES. CAL.DEN	
WELL	: QPR88004 GAMMA DENSITY				
LOCATION/FIELD	: PERRY CREEK				
COUNTY	:				
STATE	: BRITISH COLUMBIA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 10-20-88	PERMANENT DATUM	: 0	ELEVATIONS	
DEPTH DRILLER	: 71	ELEV. PERM. DATUM	: 0	KB	: 0
LOG BOTTOM	: 70.62	LOG MEASURED FROM	: 0	DF	: 0
LOG TOP	: 0.14	DRL MEASURED FROM	: 0	GL	: 0
CASING DRILLER	: 2	LOGGING UNIT	: 8401		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: 0.5	RECORDED BY	: G.PHILLIPS		
BIT SIZE	: 17.8	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 24.500	RM	: 0	TYPE	: 9030AA
MATRIX DENSITY	: 2.68	RM TEMPERATURE	: 0	LOG	: 3
FLUID DENSITY	: 1.0	MATRIX DELTA T	: 175	PLOT	: QUIN 5
NEUTRON MATRIX	: SANDSTONE	FLUID DELTA T	: 690	THRESH	: 15000

REMARKS :
VERTICAL HOLE
LOGGED OPEN HOLE BL23635/43200

ALL SERVICES PROVIDED SUBJECT TO CGC STANDARD TERMS AND CONDITIONS





#880

Century

QPR88004 GAMMA DENSITY

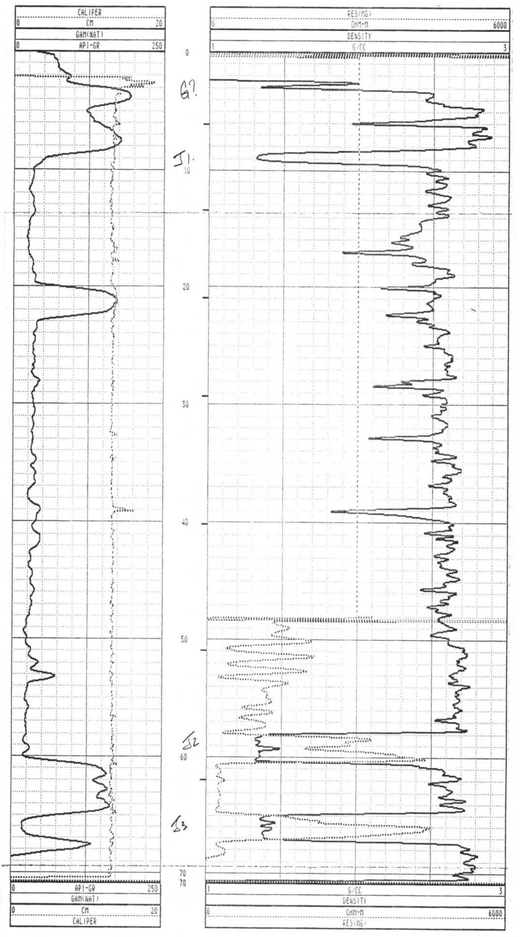
COMPANY	: QUINTETTE COAL LTD.		
WELL	: QPR88004 GAMMA DENSITY		
LOCATION/FIELD	: PERRY CREEK		
COUNTY	:		
STATE	: BRITISH COLUMBIA		
SECTION	:	TOWNSHIP	: RANGE :

OTHER SERVICES:
DEN.NEUT
GAM.RES.
CAL.DEV

DATE	: 10/20/88	PERMANENT DATUM	: 0	ELEVATIONS	
DEPTH DRILLER	: 71	ELEV. PERM. DATUM:	0	KB	: 0
LOG BOTTOM	: 70.82	LOG MEASURED FROM:	0	DF	: 0
LOG TOP	: 0.14	DRL MEASURED FROM:	0	GL	: 0
CASING DRILLER	: 2	LOGGING UNIT	: 8401		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: 0.5	RECORDED BY	: G.PHILLIPS		
BIT SIZE	: 17.8	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 24.500	RM	: 0	TYPE	: 9030AA
MATRIX DENSITY	: 2.68	RM TEMPERATURE	: 0	LOG	: 3
FLUID DENSITY	: 1.0	MATRIX DELTA T	: 173	PLOT	: 0 2
NEUTRON MATRIX	: SANDSTONE	FLUID DELTA T	: 690	THRESH:	15000

REMARKS :
VERTICAL HOLE
LOGGED OPEN HOLE BL23635/43200

ALL SERVICES PROVIDED SUBJECT TO CGC STANDARD TERMS AND CONDITIONS



TOOL CALIBRATION TOOL = 9030AA SERIAL NUMBER = 420

	CAL-DATE	CAL-TIME	SRCE	SENSOR	RESPONSE	STANDARD
0	09/22/88	16:44:23	0	GAMMA(WAT)	0.000 CPS	0.000 API-GR
1	09/17/88	17:36:16	0	GAMMA(WAT)	0.000 CPS	0.000 API-GR
2	09/17/88	17:39:01	0	DENSITY	5615.000 CPS	1.106 G/CC
3	09/17/88	17:39:01	0	DENSITY	2230.500 CPS	2.120 G/CC
4	09/17/88	17:36:16	0	RES(MG)	0.000 CPS	0.000 OHM-M
5	09/17/88	17:36:16	0	RES(MG)	0.000 CPS	0.000 OHM-M
6	09/22/88	13:37:32	0	CALIPER	213.400 CPS	7.600 CM
7	09/22/88	13:37:32	0	CALIPER	1842.500 CPS	17.800 CM
8	09/17/88	17:36:16	0	DENSITYH	0.000 CPS	0.000 G/CC
9	09/17/88	17:36:16	0	DENSITYH	0.000 CPS	0.000 G/CC
10	09/22/88	13:37:57	0	CALIPERL	0.000 CPS	0.000 CM
11	09/22/88	13:37:57	0	CALIPERL	0.000 CPS	0.000 CM

COMPU-LOG V8L2 PLOT 06-25-80 #880

QHD88004

GAMMA-DENSITY(RODS)

M19

HOLE DIAMETER : 10.0

PROBE # 9032C1- 961

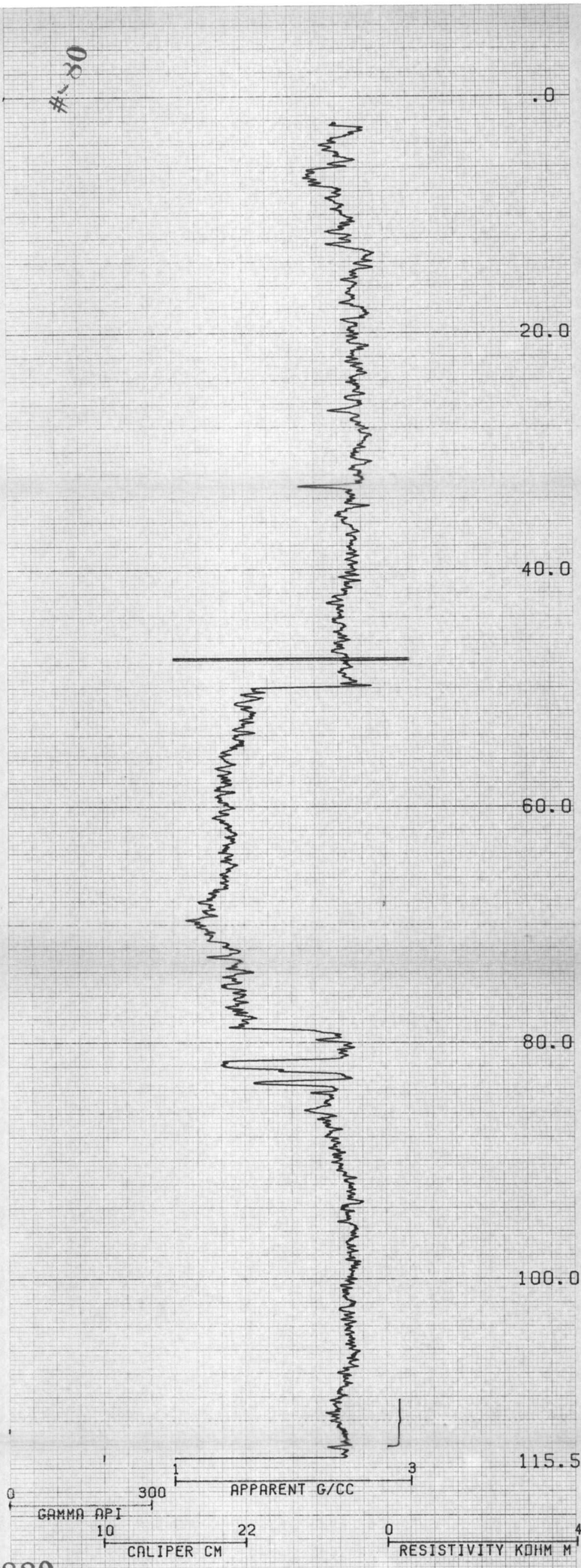
SENSOR #4 CAL STD CPS = 6588

SENSOR #4 CAL RUN CPS = 3200

SENSOR #4 CAL BIAS = -1

DATA V8L2*A TRUCK # 647

L.Y APPL.#708 L1



#880

COMPU-LOG V8L2 PLOT 06-25-80

QHD88004

GAMMA-DENSITY(RODS)

M19

HOLE DIAMETER : 10.0

PROBE # 9032C1- 981

SENSOR #4 CAL STD CPS = 6588

SENSOR #4 CAL RUN CPS = 3200

SENSOR #4 CAL BIAS = -1

DATA V8L2*A TRUCK # 647

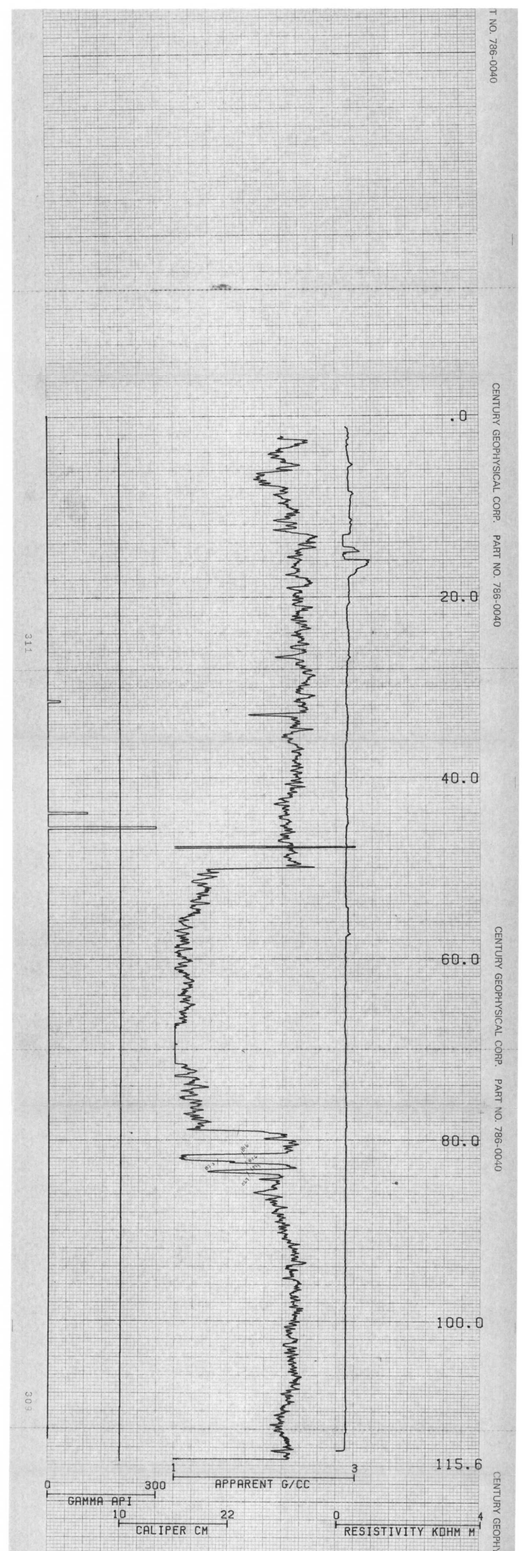
L.Y APPL.#30 L1

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
.0
20.0
40.0
60.0
80.0
100.0
115.6
0
300
600
GAMMA CPS
0
1
2
N-N KCPS
#880
COMPU-LOG V8L2 PLOT 06-25-80
QHD 880044
GMD880044
GAMMA-NEUTRON(RODS)
M19
HOLE DIAMETER = 10.0
PROBE # 9055A - 079
SENSOR #4 CAL STD CPS = 152
SENSOR #4 CAL RUN CPS = 186
SENSOR #4 CAL BIAS = 0
DATA V8L2#A TRUCK # 647
L.Y APPL.#7 L1



COMPU-LOG V8L2 PLOT 06-25-80

CORD

~~Q#~~R88004

GAMMA-DENSITY(RODS)

M19

HOLE DIAMETER : 10.0

PROBE # 9032C1- 961

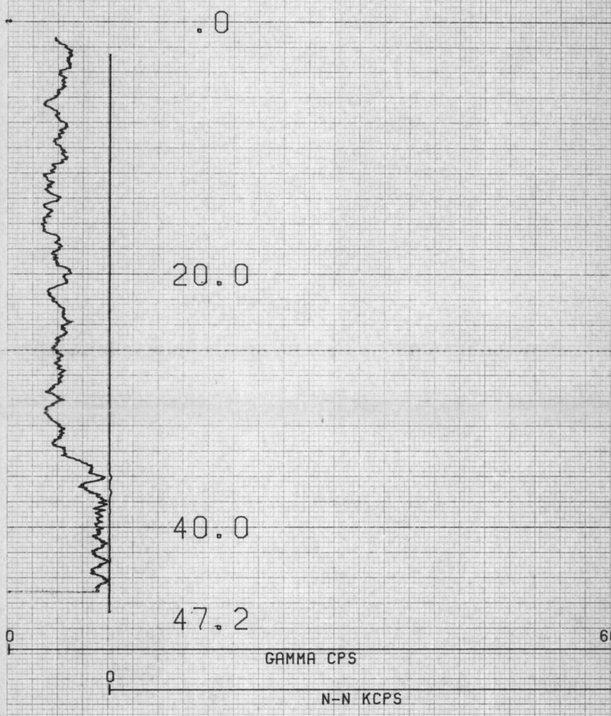
SENSOR #4 CAL STD CPS = 6588

SENSOR #4 CAL RUN CPS = 2500

SENSOR #4 CAL BIAS = -1

DATA V8L2#A TRUCK # 847

L.Y APPL.#30 L1



COMPU-LOG V8L2 PLOT 06-25-80

QHD88004

GAMMA-NEUTRON(DEV)

M19

HOLE DIAMETER : 10.0

PROBE # 9055A - 079

SENSOR #4 CAL STD CPS = 152

SENSOR #4 CAL RUN CPS = 186

SENSOR #4 CAL BIAS = 0

DATA V8L2*A TRUCK # 647

L.Y APPL.#7 L1

VERTICAL DEVIATION

COMPU-LOG V8L1 DEVIATION
DATA FROM : V8L2*A

CLIENT : GAMMA-NEUTRON(DEV)
LOCATION : M19
HOLE ID : Q D88001
DATE OF LOG : 06-25-80
PROBE : 9055A 0079

SCALE: .10 M/DIV
MAG DECL: 24.5
TRUE DEPTH: 47.1 M
AZIMUTH: 108.4
DISTANCE: .15 M

+ = 2.0 M INCR
△ = TOP OF ZONE
◇ = BOTTOM OF ZONE

TRUE NORTH ↑

#880

HYSICAL CORP. PART NO. 786-0040
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
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CENTURY GEOPHYSICAL CORPORATION

* * * * * * * * VERTICAL DEVIATION * * * * * * * *

COMPU-LOG V8L1 DEVIATION

CLIENT : GAMMA-NEUTRON(DEV)
LOCATION : M19
DATA FROM : V8L2*A

HOLE ID : 0HD88004 (IN DATA BASE AS Q D88001)
DATE OF LOG : 06-25-80
PROBE : 9055A 0079

TD = TOTAL DEPTH
T = TOP OF ZONE
B = BOTTOM OF ZONE

	DEPTH	TRUE DEPTH	NORTH DEV	EAST DEV	DISTANCE	AZIMUTH	SA	SAB
	.00	.00	.00	.00	.00	.0	.0	.0
	2.00	1.99	-.02	.02	.03	134.7	1.1	134.7
	4.00	3.99	-.04	.05	.07	126.7	.9	116.8
	6.00	5.99	-.01	.08	.08	98.0	1.1	43.8
	8.00	7.99	-.01	.09	.09	99.2	.1	117.2
	10.00	9.99	-.02	.04	.05	114.6	1.2	260.6
	12.00	11.99	-.04	.07	.08	122.6	1.0	133.7
	14.00	13.99	-.05	.08	.09	121.9	.2	115.9
	16.00	15.99	-.07	.10	.12	124.7	.9	133.2
	18.00	17.98	-.07	.10	.12	126.5	.1	253.6
	20.00	19.98	-.06	.08	.10	131.0	.6	284.3
	22.00	21.98	-.06	.07	.10	128.9	.1	348.5
	24.00	23.98	-.09	.09	.13	133.9	1.0	147.4
	26.00	25.98	-.08	.06	.10	140.3	1.0	293.9
	28.00	27.98	-.04	.08	.09	120.8	1.0	26.7
	30.00	29.98	-.03	.09	.09	112.0	.4	31.4
	32.00	31.98	-.04	.09	.10	116.3	.3	149.4
	34.00	33.98	-.07	.09	.11	128.6	.7	190.9
	36.00	35.97	-.06	.10	.12	121.5	.4	59.2
	38.00	37.97	-.07	.10	.13	125.2	.3	167.3
	40.00	39.97	-.05	.12	.13	116.0	.6	34.1
	42.00	41.97	-.06	.12	.14	117.2	.2	136.7
	44.00	43.97	-.07	.12	.14	121.0	.2	187.3
	46.00	45.97	-.07	.14	.16	116.6	.5	80.2
TD	47.10	47.07	-.04	.14	.15	108.4	1.2	12.3

#080

#880

Century

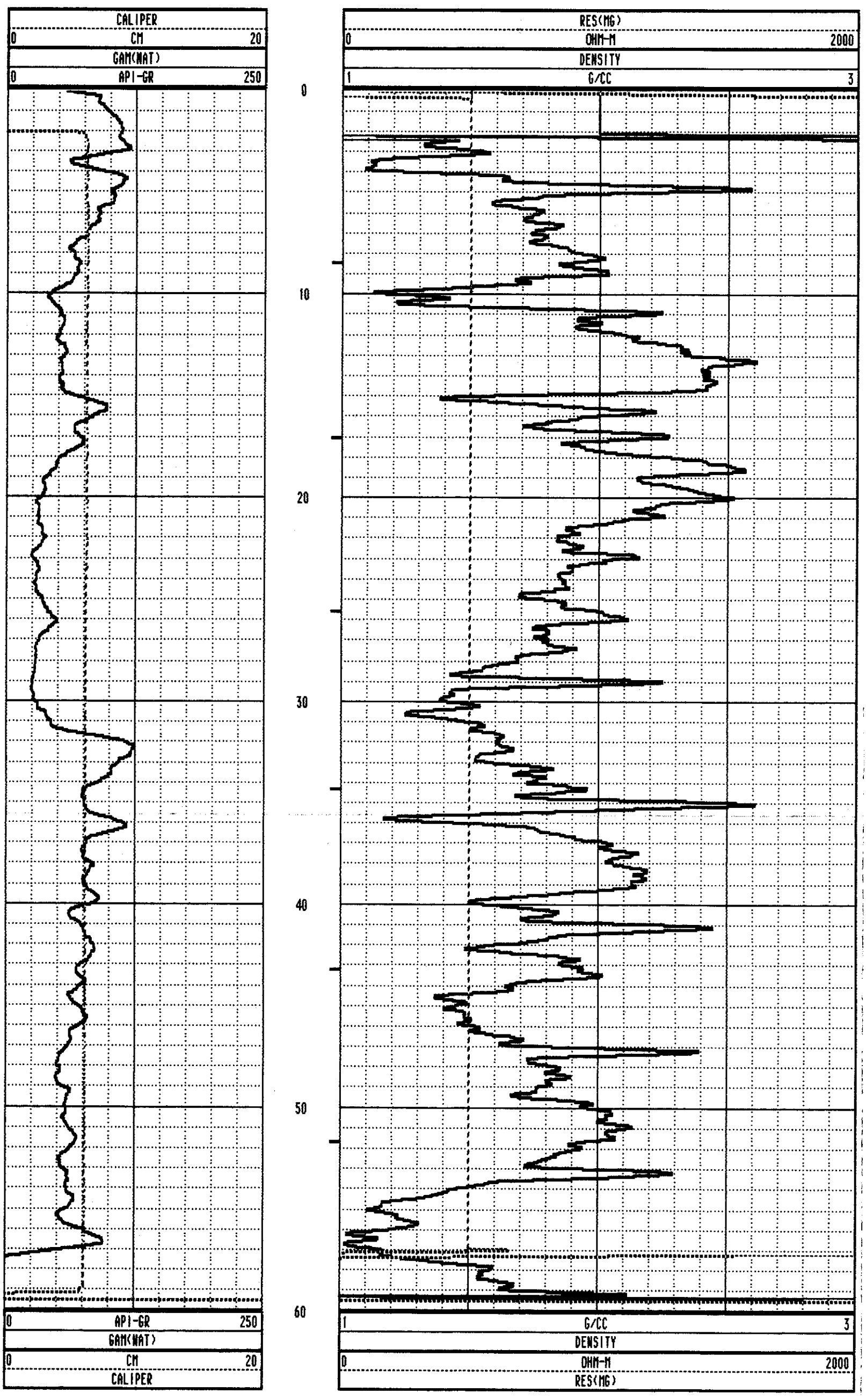
QHR 88004 GAMMA-DENSITY

COMPANY	: QUINTETTE COAL LTD.		
WELL	: QHR 88004 GAMMA-DENSITY		
LOCATION/FIELD	: BL 10650:SL 28800/TRANSFER W		
COUNTY	:		
STATE	: BRITISH COLUMBIA		
SECTION	:	TOWNSHIP :	RANGE :
DATE	: 08/08/88	PERMANENT DATUM : 1350	ELEVATIONS
DEPTH DRILLER	: 169 M	ELEV. PERM. DATUM: 1350	KB : 1350
LOG BOTTOM	: 59.56	LOG MEASURED FROM: 1350	DF : 1350
LOG TOP	: 0.08	DRL MEASURED FROM: 1350	GL : 1350
CASING DRILLER	: 1	LOGGING UNIT : 8401	
CASING TYPE	: PVC	FIELD OFFICE : CALGARY	
CASING THICKNESS	: 0	RECORDED BY : W. STROEBEL	
BIT SIZE	: 13.34	BOREHOLE FLUID : WATER	FILE : ORIGINAL
MAGNETIC DECL.	: 24.5	RM : 0	TYPE : 9030AA
MATRIX DENSITY	: 2.68	RM TEMPERATURE : 0	LOG : 3
FLUID DENSITY	: 1.0	MATRIX DELTA T : 173	PLOT : QUIN 3
NEUTRON MATRIX	: SANDSTONE	FLUID DELTA T : 690	THRESH: 2500
REMARKS	:		

OTHER SERVICES:
DEN.NEUT
GAM.RES.
CAL.DEV

LOGGED THOUGH RODS
ANGLE HOLE AZIMUTH 217 INCLINATION -45

ALL SERVICES PROVIDED SUBJECT TO CGC STANDARD TERMS AND CONDITIONS



TOOL CALIBRATION TOOL = 9030AA SERIAL NUMBER = 404

	CAL-DATE	CAL-TIME	SRCE	SENSOR	RESPONSE	STANDARD
0	07/28/88	13:56:46	0	GAM(NAT)	0.000 CPS	0.000 API-GR
1	07/28/88	13:56:46	0	GAM(NAT)	0.000 CPS	0.000 API-GR
2	07/28/88	14:13:46	0	DENSITY	5615.000 CPS	1.106 G/CC
3	07/28/88	14:13:46	0	DENSITY	2230.500 CPS	2.120 G/CC
4	07/28/88	13:56:46	0	RES(MG)	0.000 CPS	0.000 OHM-M
5	07/28/88	13:56:46	0	RES(MG)	0.000 CPS	0.000 OHM-M
6	07/28/88	15:42:06	0	CALIPER	213.400 CPS	7.600 CM
7	07/28/88	15:42:06	0	CALIPER	1842.500 CPS	17.800 CM
8	07/28/88	13:56:46	0	DENSITYH	0.000 CPS	0.000 G/CC
9	07/28/88	13:56:46	0	DENSITYH	0.000 CPS	0.000 G/CC
10	07/28/88	13:56:46	0	CALIPERL	0.000 CPS	0.000 CM
11	07/28/88	13:56:46	0	CALIPERL	0.000 CPS	0.000 CM

1 : 20 MARKED

#880

Century

QHR 88004 GAMMA-DENSITY

COMPANY	: QUINTETTE COAL LTD.			OTHER SERVICES: DEN.NEUT GAM.RES. CAL.DEV	
WELL	: QHR 88004 GAMMA-DENSITY				
LOCATION/FIELD	: BI 10650:SL 28800 TRANSFER W				
COUNTY	:				
STATE	: BRITISH COLUMBIA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 08/08/88	PERMANENT DATUM	: 1350	ELEVATIONS	
DEPTH DRILLER	: 169 M	ELEV. PERM. DATUM	: 1350	KB	: 1350
LOG BOTTOM	: 167.68	LOG MEASURED FROM	: 1350	DF	: 1350
LOG TOP	: 0.06	DRL MEASURED FROM	: 1350	GL	: 1350
CASING DRILLER	: 1	LOGGING UNIT	: 62		
CASING TYPE	: PVC	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: 0	RECORDED BY	: W. STROEBEL		
BIT SIZE	: 15.6	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 24.5	RM	: 0	TYPE	: 9030AA
MATRIX DENSITY	: 2.68	RM TEMPERATURE	: 0	LOG	: 4
FLUID DENSITY	: 1.0	MATRIX DELTA T	: 173	PLOT	: 9030 16
NEUTRON MATRIX	: SANDSTONE	FLUID DELTA T	: 690	THRESH	: 2500
REMARKS	:				

ANGLE HOLE AZIMUTH 217 INCLINATION 45

ALL SERVICES PROVIDED SUBJECT TO CGC STANDARD TERMS AND CONDITIONS

TOOL CALIBRATION TOOL = 9030AA SERIAL NUMBER = 404

	CAL-DATE	CAL-TIME	SRCE	SENSOR	RESPONSE	STANDARD
0	07/28/88	13:56:46	0	GAM(NAT)	0.000 CPS	0.000 API-GR
1	07/28/88	13:56:46	0	GAM(NAT)	0.000 CPS	0.000 API-GR
2	07/28/88	14:13:46	0	DENSITY	5615.000 CPS	1.106 G/CC
3	07/28/88	14:13:46	0	DENSITY	2230.500 CPS	2.120 G/CC
4	07/28/88	13:56:46	0	RES(MO)	0.000 CPS	0.000 OHM-M
5	07/28/88	13:56:46	0	RES(MO)	0.000 CPS	0.000 OHM-M
6	07/28/88	15:42:06	0	CALIPER	213.400 CPS	7.600 CM
7	07/28/88	15:42:06	0	CALIPER	1842.500 CPS	17.800 CM
8	07/28/88	13:56:46	0	DENSITYH	0.000 CPS	0.000 G/CC
9	07/28/88	13:56:46	0	DENSITYH	0.000 CPS	0.000 G/CC
10	07/28/88	13:56:46	0	CALIPERL	0.000 CPS	0.000 CM
11	07/28/88	13:56:46	0	CALIPERL	0.000 CPS	0.000 CM

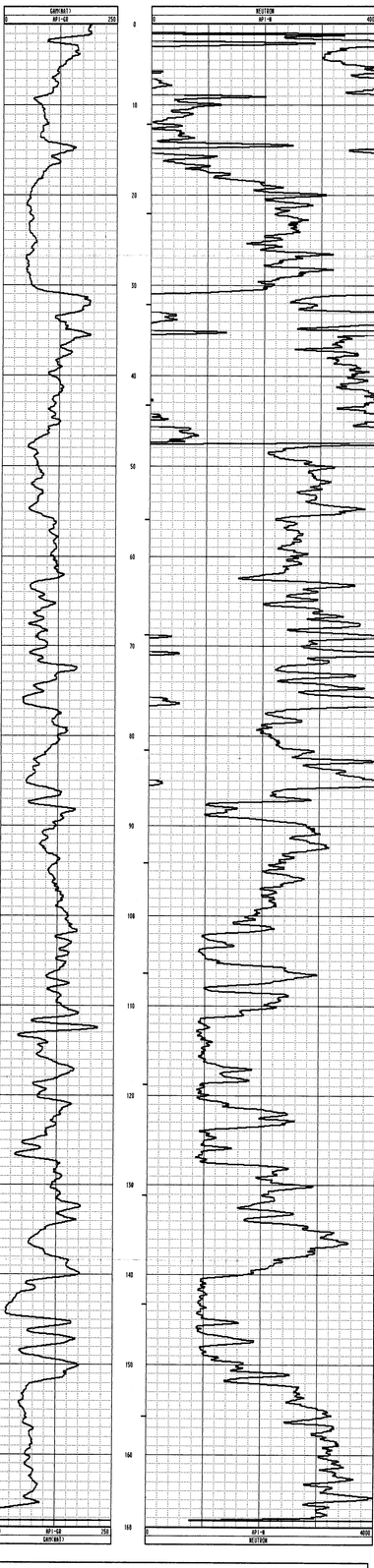
#880 Century

QHR 88004 GAMMA-NEUTRON

COMPANY	: QUINTETTE COAL LTD.			OTHER SERVICES:	
WELL	: QHR 88004 GAMMA-NEUTRON			DEN.NEUT	
LOCATION/FIELD	: BL 106501SL 28800 TRANSFER W			GAM.RES.	
COUNTY	:			CAL.DEV	
STATE	: BRITISH COLUMBIA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 08/08/88	PERMANENT DATUM	: 1350	ELEVATIONS	
DEPTH DRILLER	: 169 M	ELEV. PERM. DATUM:	1350	KB	: 1350
LOG BOTTOM	: 167.36	LOG MEASURED FROM:	1350	DF	: 1350
LOG TOP	: 0.70	DRL MEASURED FROM:	1350	GL	: 1350
CASING DRILLER	: 1	LOGGING UNIT	: 62		
CASING TYPE	: PVC	FIELD OFFICE	: CALGARY		
CASING THICKNESS:	0	RECORDED BY	: W. STROEBEL		
BIT SIZE	: 15.6	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 24.5	RM	: 0	TYPE	: 9055A
MATRIX DENSITY	: 2.68	RM TEMPERATURE	: 0	LOG	: 6
FLUID DENSITY	: 1.0	MATRIX DELTA T	: 173	PLOT	: QUIN 2
NEUTRON MATRIX	: SANDSTONE	FLUID DELTA T	: 690	THRESH:	2500
REMARKS	:				

ANGLE HOLE AZIMUTH 217 INCLINATION 45

ALL SERVICES PROVIDED SUBJECT TO CGC STANDARD TERMS AND CONDITIONS



TOOL CALIBRATION TOOL = 9055A SERIAL NUMBER = 46

	CAL-DATE	CAL-TIME	SRCE	SENSOR	RESPONSE	STANDARD
0	07/28/88	15:07:18	0	GAM(NAT)	0.000 CPS	0.000 API-GR
1	07/28/88	15:07:18	0	GAM(NAT)	0.000 CPS	0.000 API-GR
2	07/28/88	15:20:10	0	POROSITY	0.000 CPS	190.000 CPS
3	07/28/88	15:07:18	0	RES	0.000 CPS	0.000 OHM
4	07/28/88	15:07:18	0	RES	0.000 CPS	0.000 OHM
5	07/28/88	15:07:18	0	SP	0.000 CPS	0.000 MV
6	07/28/88	15:07:18	0	SP	0.000 CPS	0.000 MV
7	07/28/88	15:19:56	0	NEUTRON	0.000 CPS	0.000 API-N
8	07/28/88	15:19:56	0	NEUTRON	190.000 CPS	271.000 API-N