#878

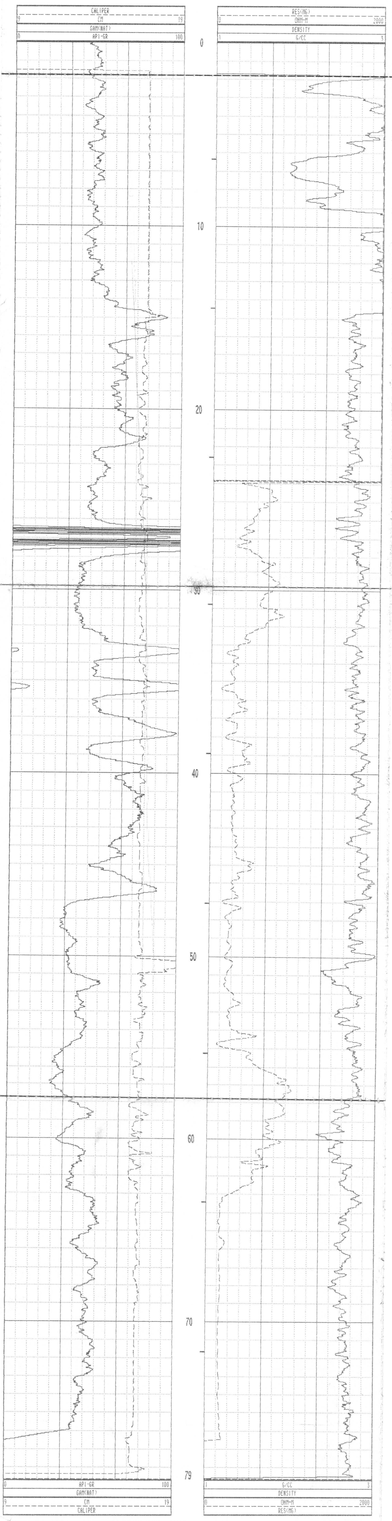
CGC

Century CORPORATION

GAMMA-RES-DENSITY

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:	
WELL	: T94R-52				
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 09/30/94	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	: 80	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	: 78.66	LOG MEASURED FROM:	GL	DF	:
LOG TOP	: -8.16	DRL MEASURED FROM:	GL	GL	:
CASING DRILLER	: 15	LOGGING UNIT	: 8903		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS:	.25	RECORDED BY	: BOND, SHVEN		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 25.9	RM	: 0	TYPE	: 983N00
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 1
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	: MANALTA 8
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH:	10000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



T94R-52 09/30/94 450

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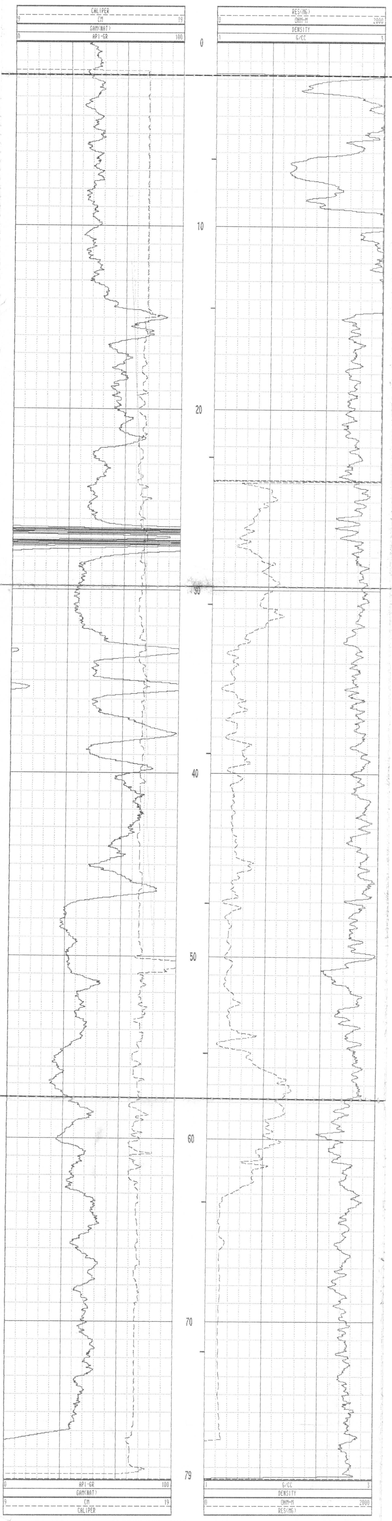
CGC

Century CORPORATION

GAMMA-RES-DENSITY

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:	
WELL	: T94R-52				
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 09/30/94	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	: 80	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	: 78.66	LOG MEASURED FROM:	GL	DF	:
LOG TOP	: -8.16	DRL MEASURED FROM:	GL	GL	:
CASING DRILLER	: 15	LOGGING UNIT	: 8903		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS:	.25	RECORDED BY	: BOND, SHVEN		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 25.9	RM	: 0	TYPE	: 983N00
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 1
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	: MANALTA 8
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH:	10000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



T94R-52 09/30/94 450

#878

#878

Century Corporation

EXPANDED DENSITY

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES: 5	
WELL	: T94R-01				
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 08/16/94	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	: 84	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 83.78	LOG MEASURED FROM	: GL	DF	:
LOG TOP	: 0.24	DRL MEASURED FROM	: GL	GL	:
CASING DRILLER	: 1.3	LOGGING UNIT	: 8903		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: .25	RECORDED BY	: BOND		
BIT SIZE	: 15.25	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 0	RM	: 0	TYPE	: 9030AA
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 3
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	: MANALTA 7
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH	: 100000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

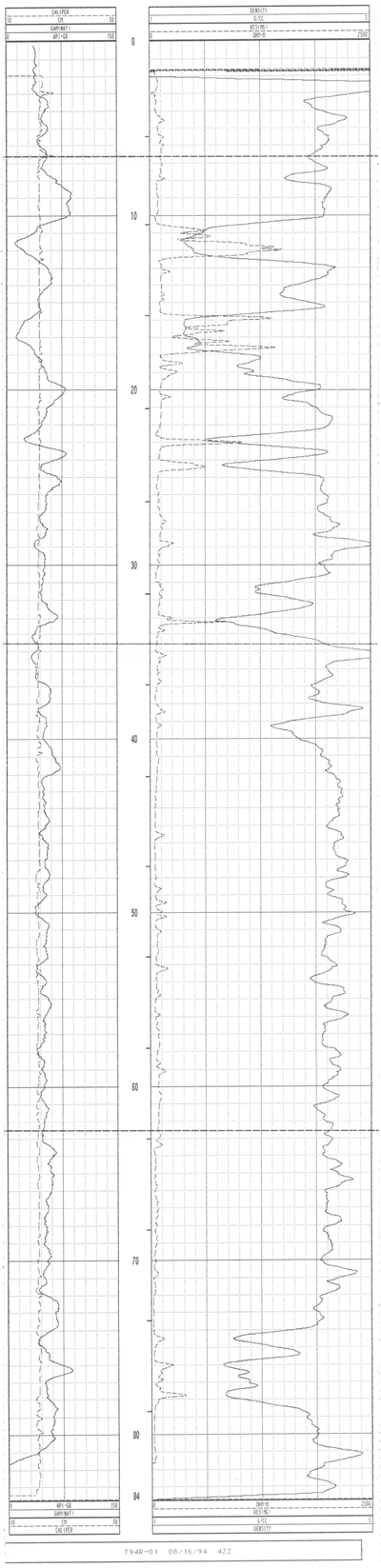
GAMMA-RES-DENSITY

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:	
WELL	: T94R-01			S	
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:

DATE	: 08/16/94	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	: 84	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	: 83.78	LOG MEASURED FROM:	GL	DF	:
LOG TOP	: 0.24	DRL MEASURED FROM:	GL	GL	:
CASING DRILLER	: 1.3	LOGGING UNIT	: 8903		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS:	.25	RECORDED BY	: BOND		

BIT SIZE	: 15.25	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 0	RM	: 0	TYPE	: 9903NAA
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 3
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	: MANALTA 6
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH:	100000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



Century GEOPHYSICAL CORP.

DIPMETER

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:	
WELL	: T94R-01			5	
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 08/17/94	PERMANENT DATUM	: GL	ELEVATIONS:	
DEPTH DRILLER	: 84	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 81.50	LOG MEASURED FROM:	GL	DF	:
LOG TOP	: 10.18	DRL MEASURED FROM:	GL	GL	:
CASING DRILLER	: 1.3	LOGGING UNIT	: 8903		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS:	.25	RECORDED BY	: BOND		
BIT SIZE	: 15.25	BOREHOLE FLUID	: WATER	FILE	: PROCESSED
MAGNETIC DECL.	: 25.900	RM	: 0	TYPE	: 9400A
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 0.dip
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	: diptest.
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH:	100000

REMARKS:

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

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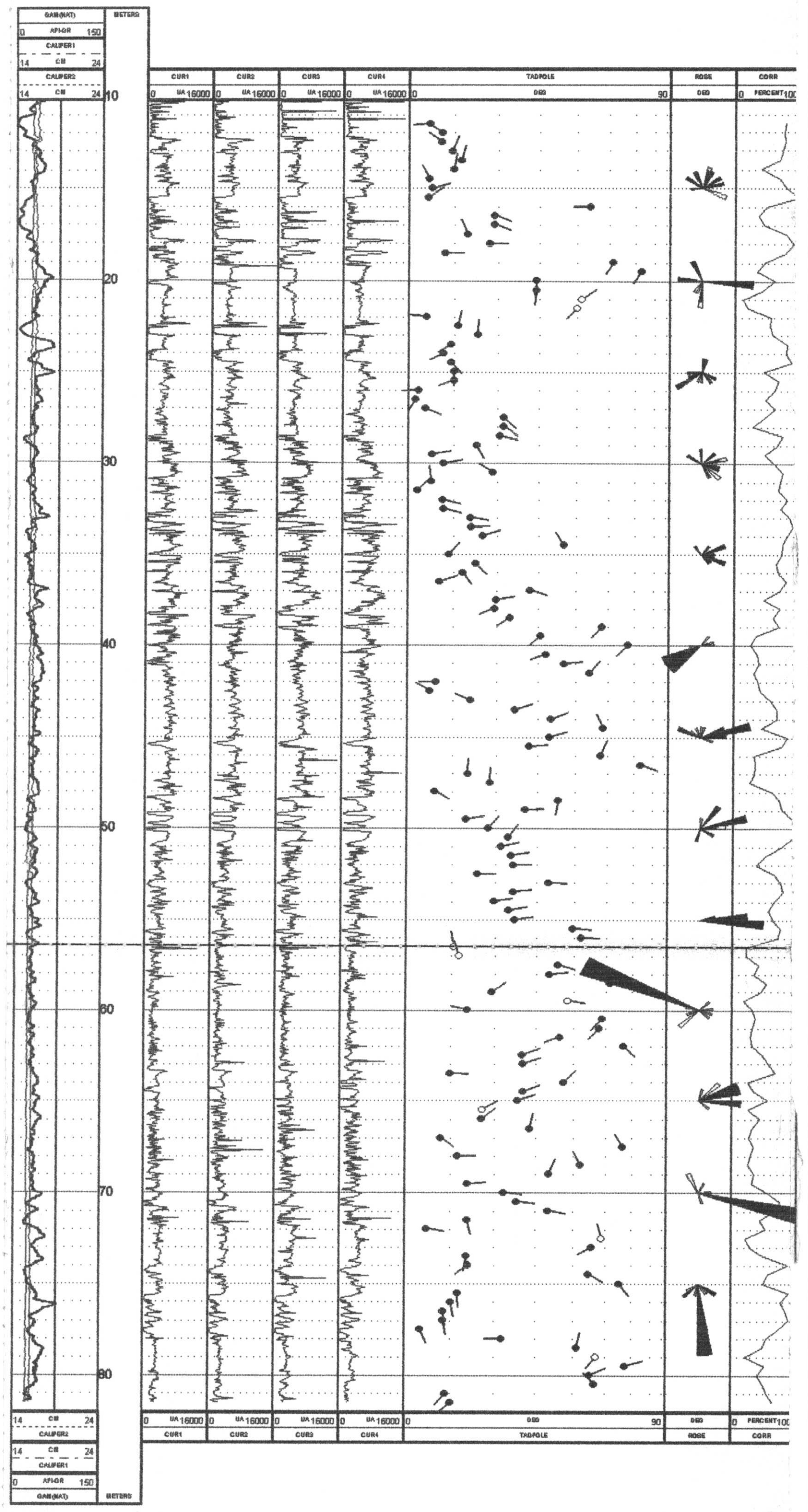


#878

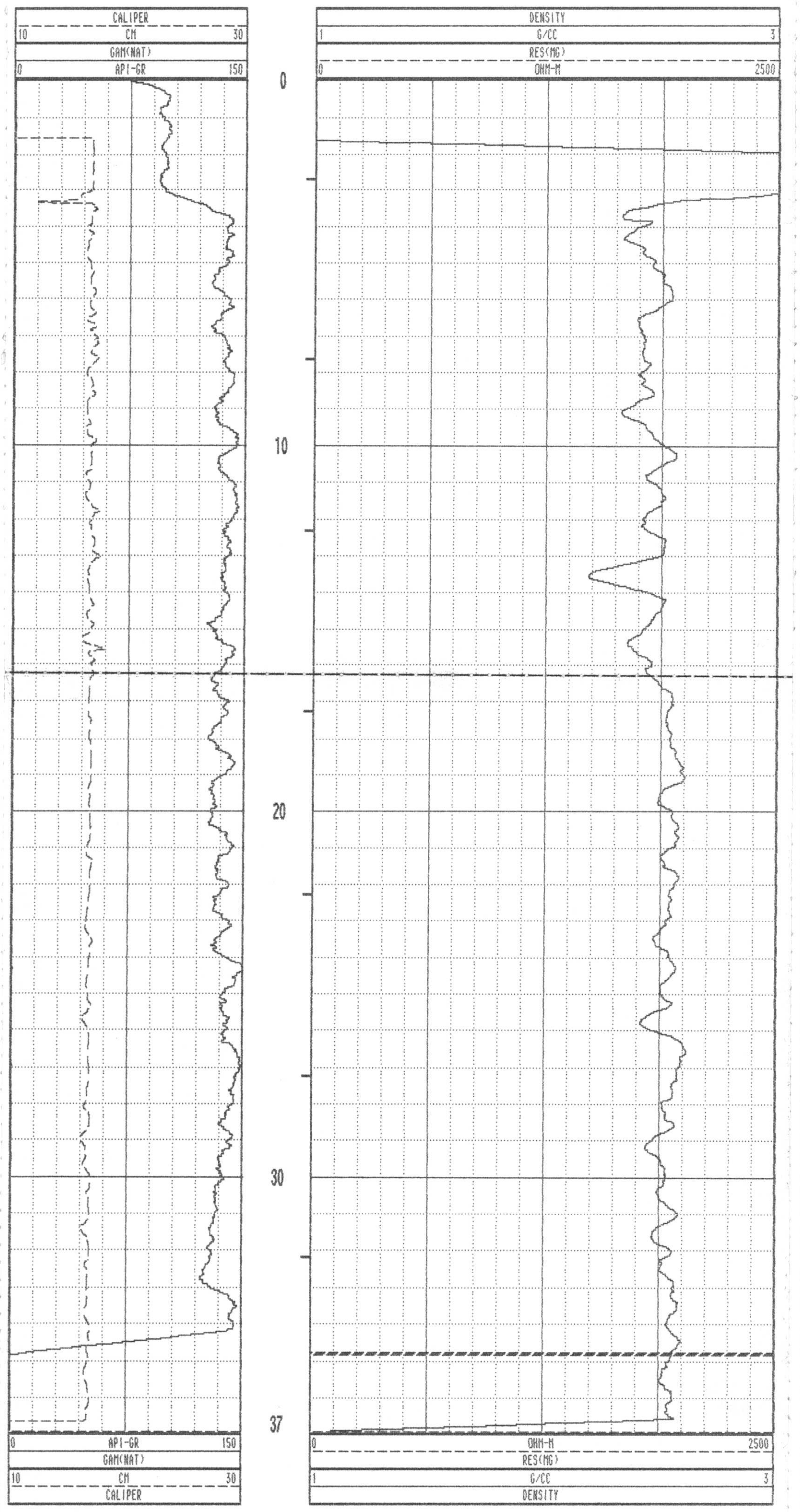
CGC

Century CORPORATION

GAMMA-RES-DENSITY

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:	
WELL	: T94R-02			5	
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 08/16/94	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	: 36.57	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 36.95	LOG MEASURED FROM	: GL	DF	:
LOG TOP	: -0.40	DRL MEASURED FROM	: GL	GL	:
CASING DRILLER	: 800	LOGGING UNIT	: 8903		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: 0	RECORDED BY	: BOND		
BIT SIZE	: 14.0	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 0	RM	: 0	TYPE	: 9030AA
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 1
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	: MANALTA 6
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH	: 100000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



T94R-02 08/16/94 422

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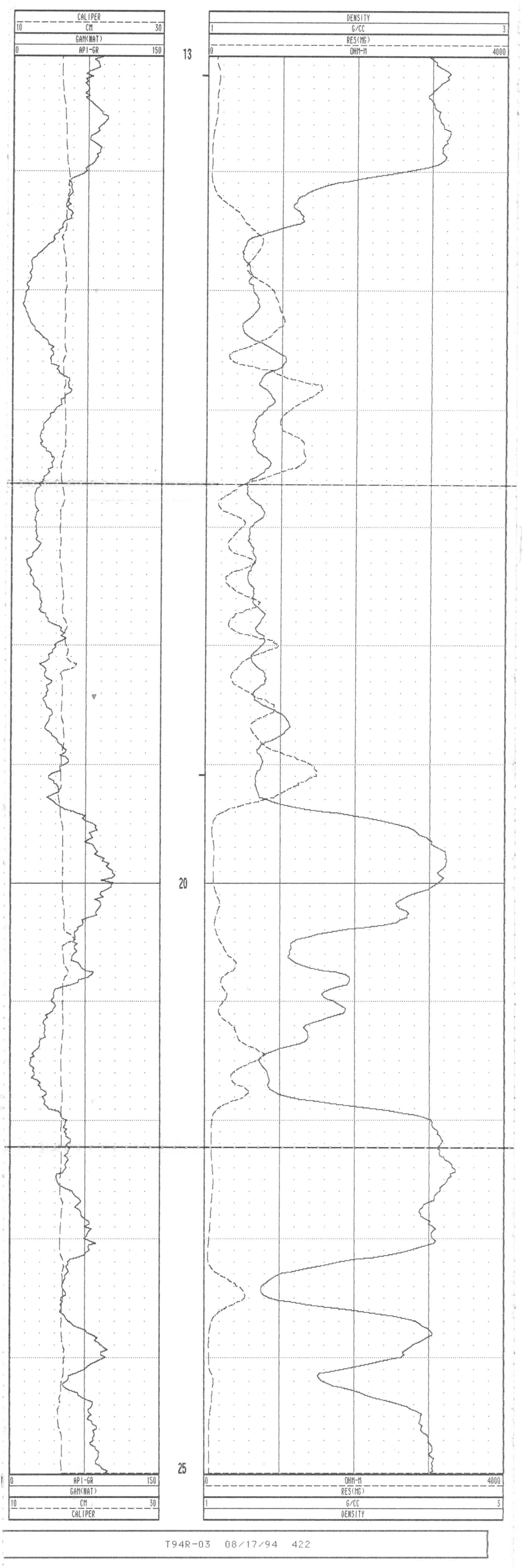
Century Corporation

EXPANDED DENSITY

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES: 5	
WELL	: T94R-03				
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 08/17/94	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	: 85	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 84.79	LOG MEASURED FROM	: GL	DF	:
LOG TOP	: -0.10	DRL MEASURED FROM	: GL	GL	:
CASING DRILLER	: 2	LOGGING UNIT	: 8903		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: .25	RECORDED BY	: BOND		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 25.9	RM	: 0	TYPE	: 9030AA
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 0
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	: MANALTA 7
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH	: 100000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



T94R-03 08/17/94 422

T94R-03 08/17/94 422

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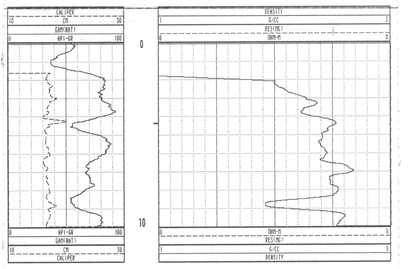
CGC

Century CORPORATION

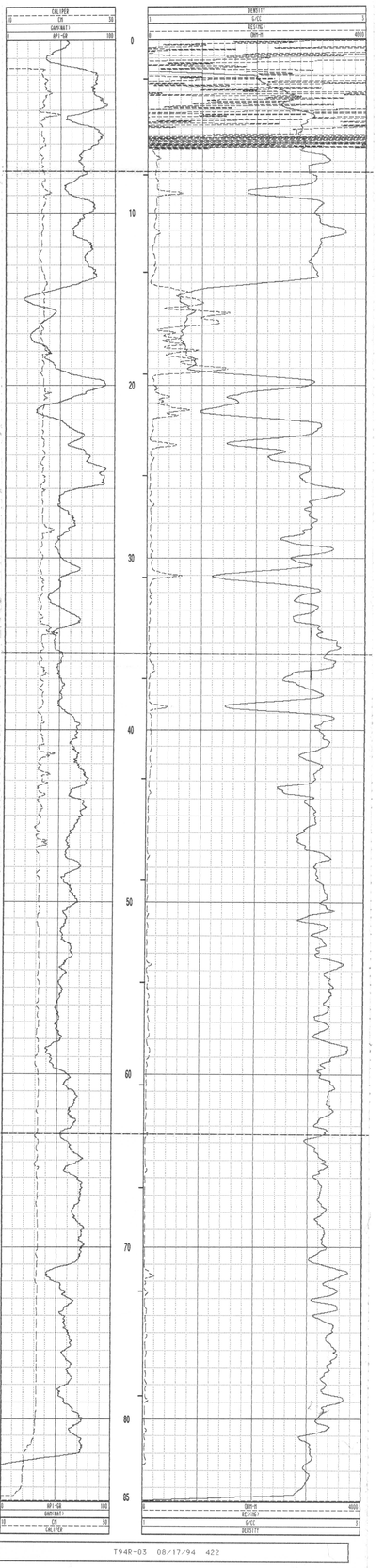
GAMMA-RES-DENSITY

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:	
WELL	: T94R-03			S	
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 08/17/94	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	: 85	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	: 84.79	LOG MEASURED FROM:	GL	DF	:
LOG TOP	: -0.18	DRL MEASURED FROM:	GL	GL	:
CASING DRILLER	: 2	LOGGING UNIT	: 8903		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: .25	RECORDED BY	: BOND		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 25.9	RM	: 0	TYPE	: 9030AA
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 0
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	: MANALTA 6
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH:	100000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



T94R-03 08/17/94 422



T94R-03 08/17/94 422

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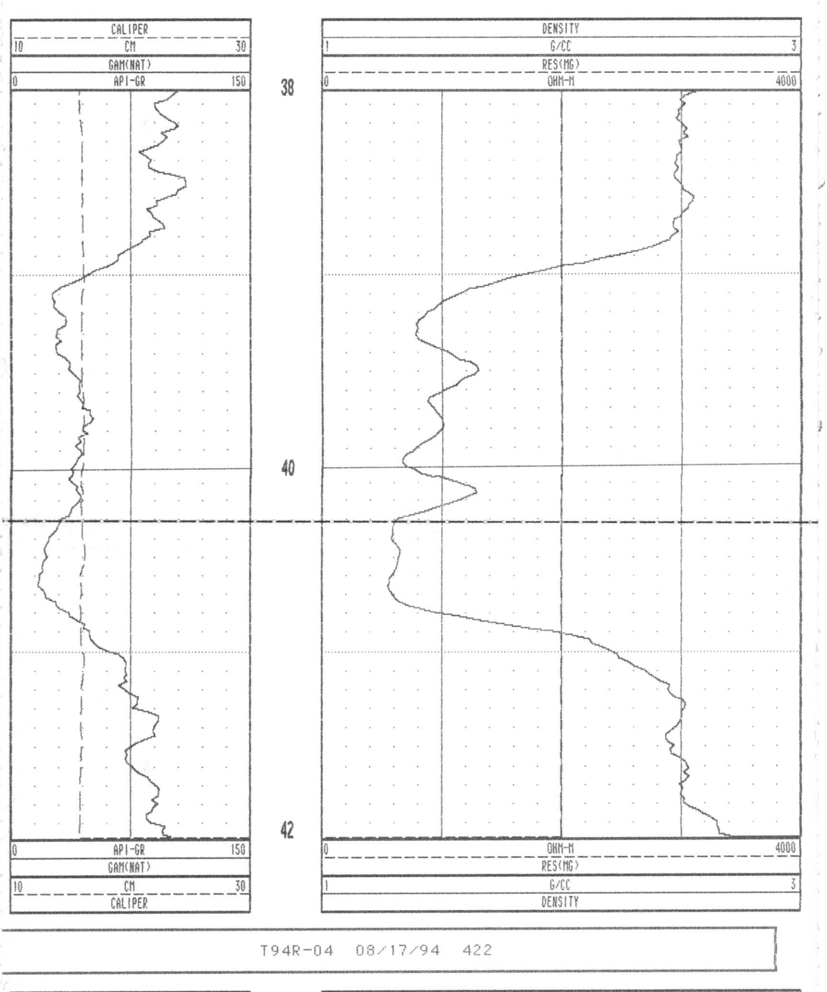
CGC — Century Corporation

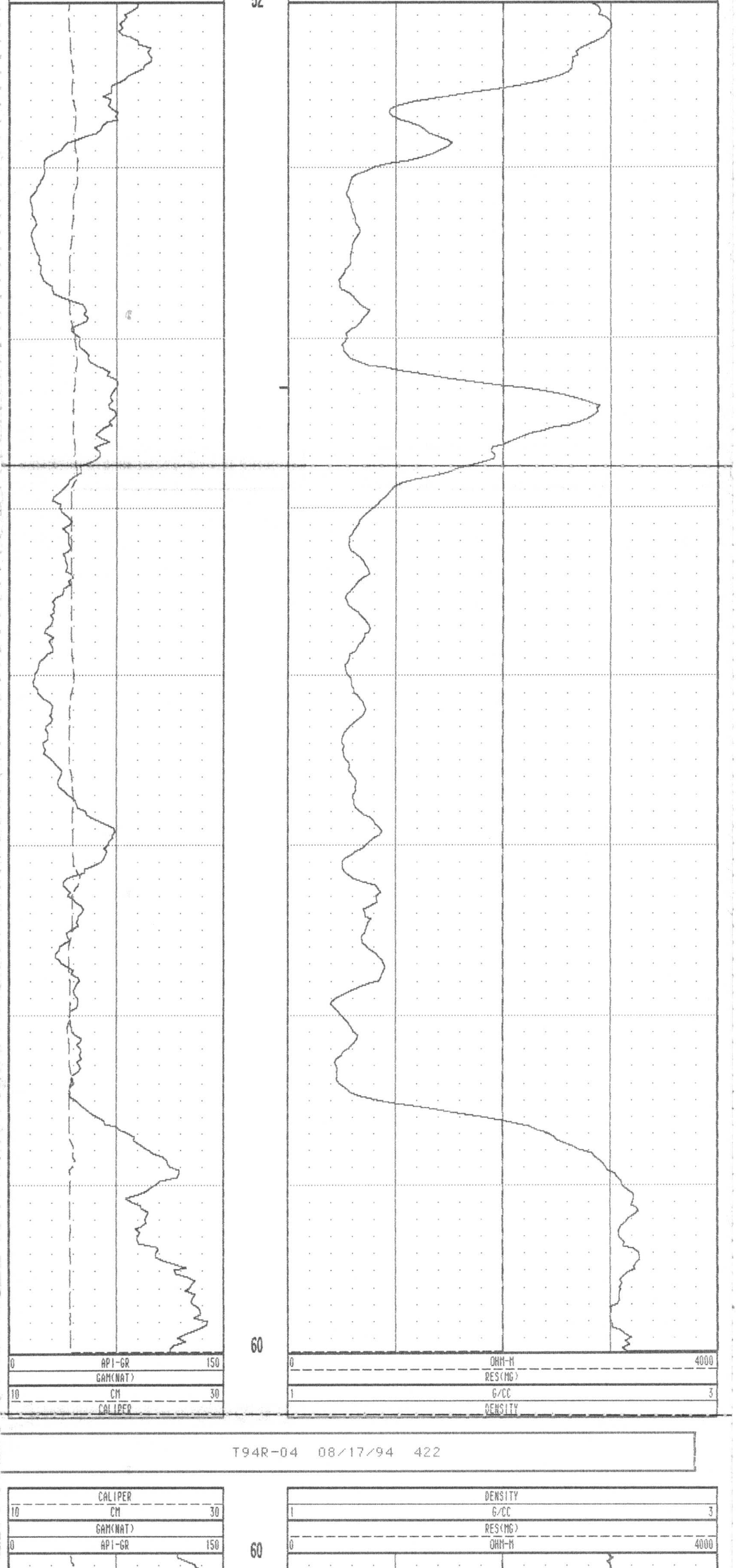
EXPANDED DENSITY

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:	
WELL	: T94R-04				
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 08/17/94	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	: 76	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 74.66	LOG MEASURED FROM	: GL	DF	:
LOG TOP	: 0.02	DRL MEASURED FROM	: GL	GL	:
CASING DRILLER	: 2	LOGGING UNIT	: 8903		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: .25	RECORDED BY	: BOND		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 25.9	RM	: 0	TYPE	: 9030AA
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 1
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	: MANALTA 7
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH	: 10000
REMARKS	:				

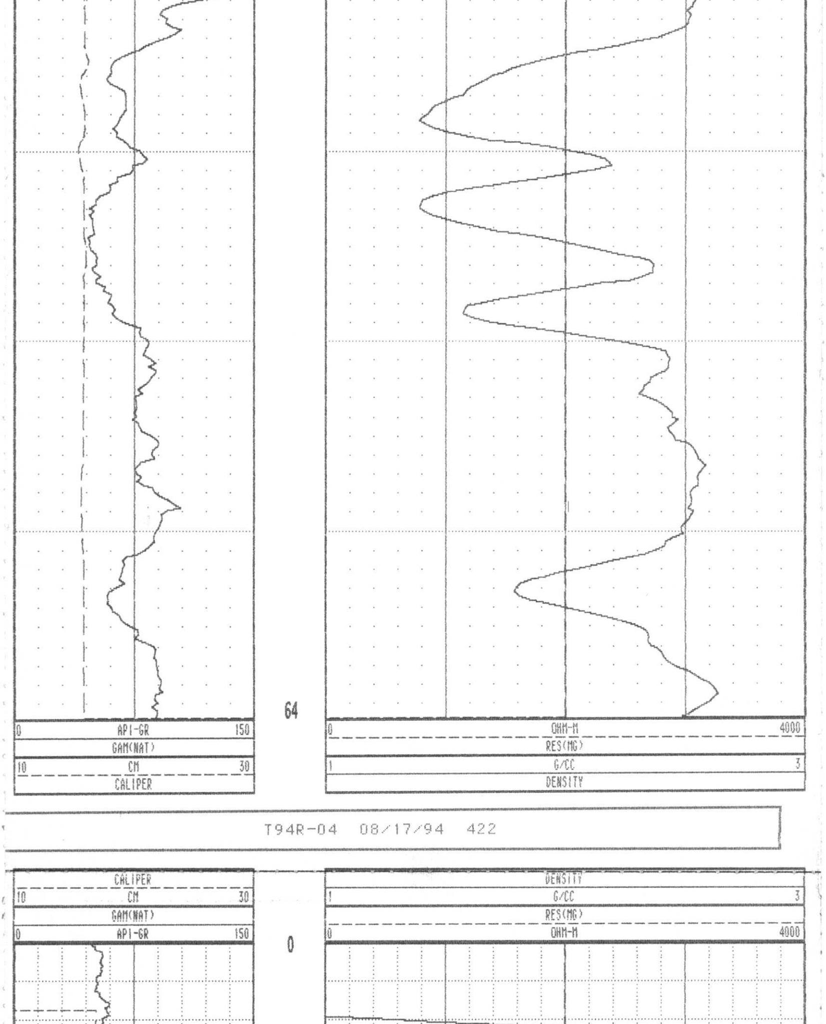
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



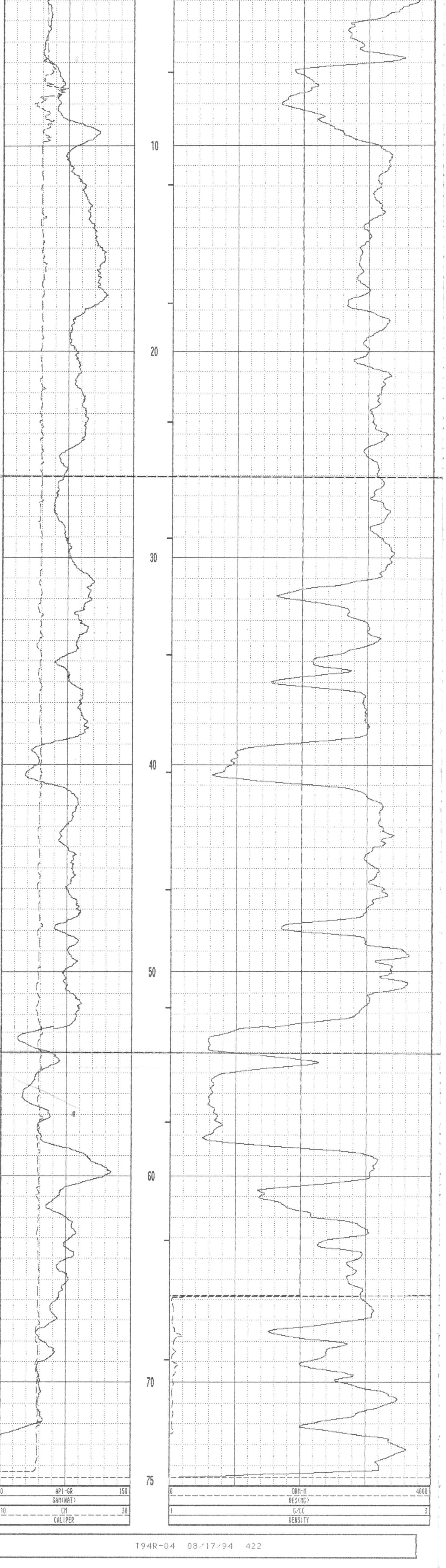
T94R-04 08/17/94 422



T94R-04 08/17/94 422



T94R-04 08/17/94 422



T94R-04 08/17/94 422

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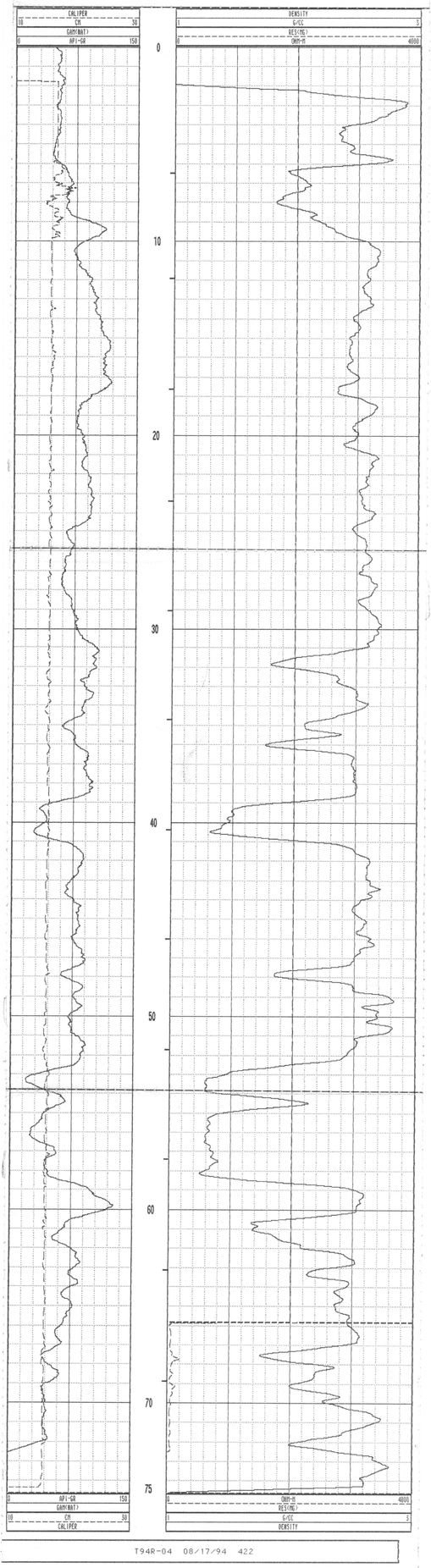
CGC

Century CORPORATION

GAMMA-RES-DENSITY

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:	
WELL	: T94R-04				
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 08/17/94	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	: 76	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 74.66	LOG MEASURED FROM	: GL	DF	:
LOG TOP	: 0.02	DRL MEASURED FROM	: GL	GL	:
CASING DRILLER	: 2	LOGGING UNIT	: 8903		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: .25	RECORDED BY	: BOND		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 25.9	RM	: 0	TYPE	: 9030AA
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 1
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	: MANALTA 6
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH:	10000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



T94R-04 08/17/94 422

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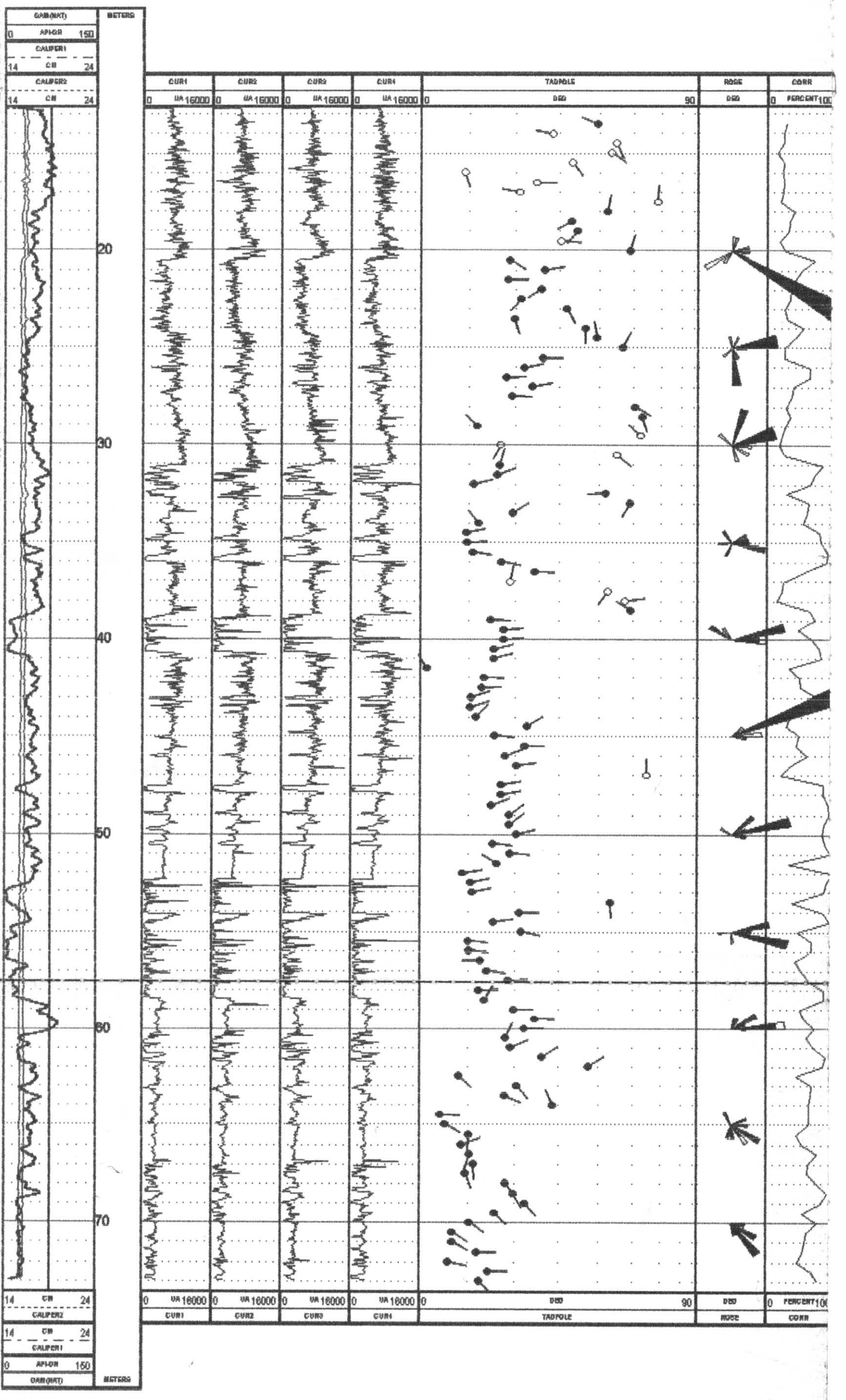
Century GEOPHYSICAL CORP.

DIPMETER

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:	
WELL	: T94R-04				
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 08/17/94	PERMANENT DATUM	: GL	ELEVATIONS:	
DEPTH DRILLER	: 76	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 73.00	LOG MEASURED FROM	: GL	DF	:
LOG TOP	: 12.60	DRL MEASURED FROM	: GL	GL	:
CASING DRILLER	: 6	LOGGING UNIT	: 8903		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: .25	RECORDED BY	: BOND		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: PROCESSED
MAGNETIC DECL.	: 25.900	RM	: 0	TYPE	: 9400A
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 4.dip
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	: diptest.
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH	: 10000

REMARKS:

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



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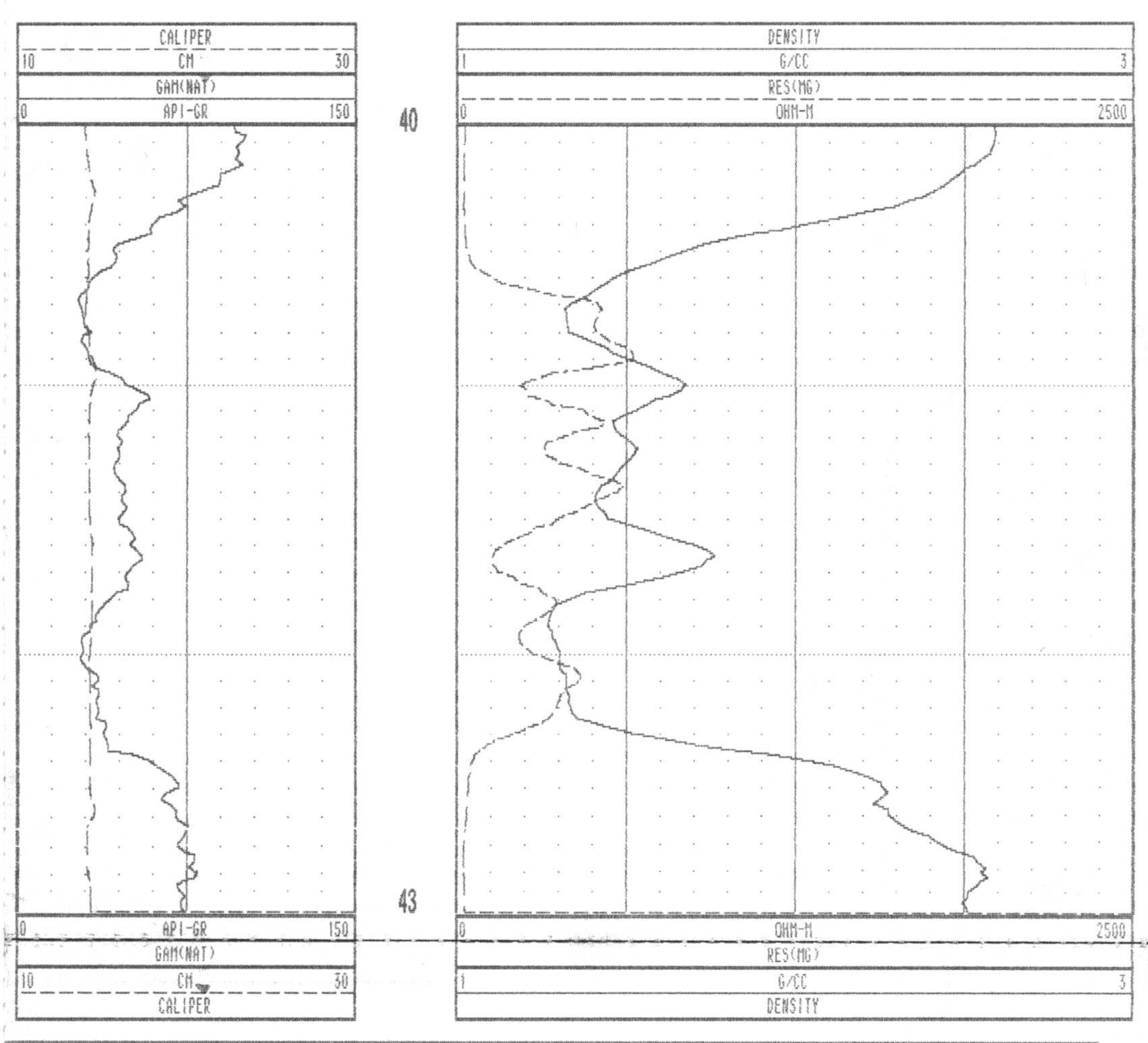
CGC Century Corporation

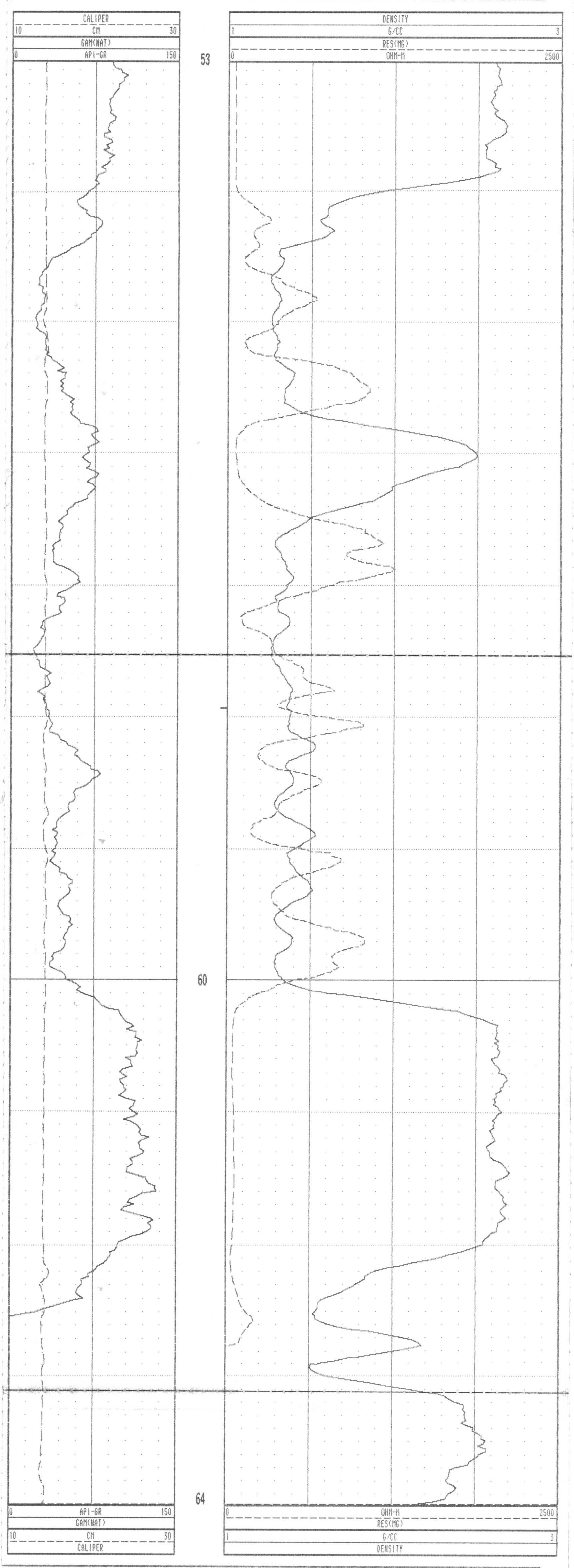
EXPANDED DENSITY

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:	
WELL	: T94R-04C				
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 08/18/94	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	: 60	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 64.87	LOG MEASURED FROM	: GL	DF	:
LOG TOP	: -0.06	DRL MEASURED FROM	: GL	GL	:
CASING DRILLER	: 9.0	LOGGING UNIT	: 8903		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: .25	RECORDED BY	: BOND		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 25.9	RM	: 0	TYPE	: 9030AA
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 3
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	: MANALTA 7
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH	: 10000
REMARKS	:				

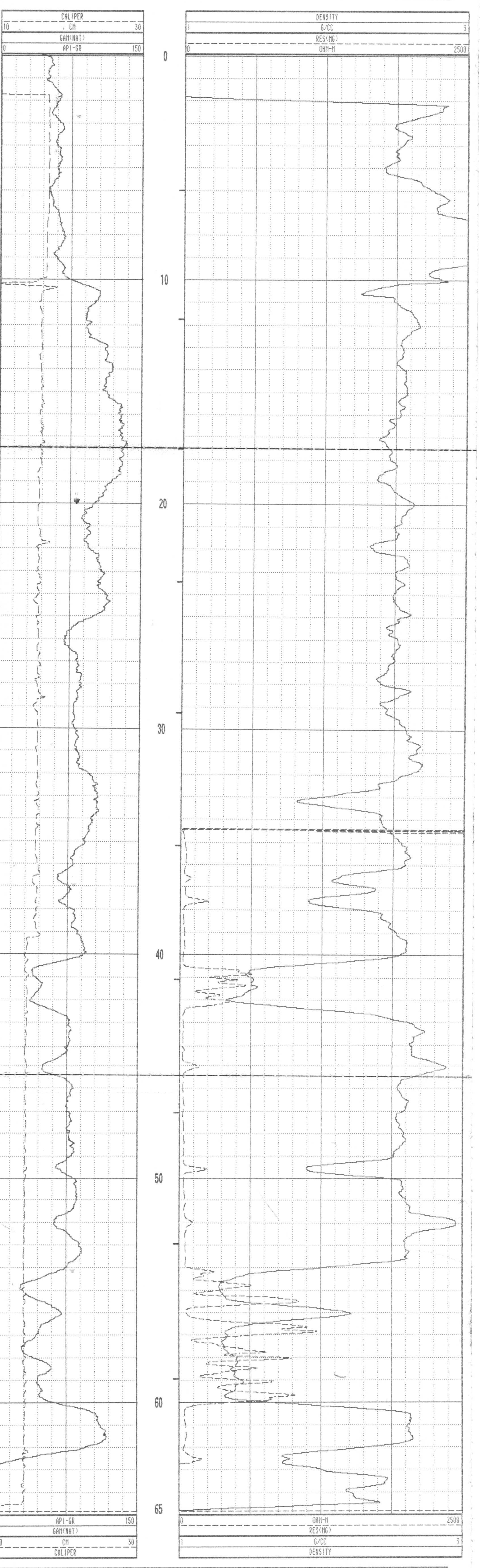
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



T94R-04C 08/18/94 422



T94R-04C 08/18/94 422



T94R-04C 08/18/94 422

#878

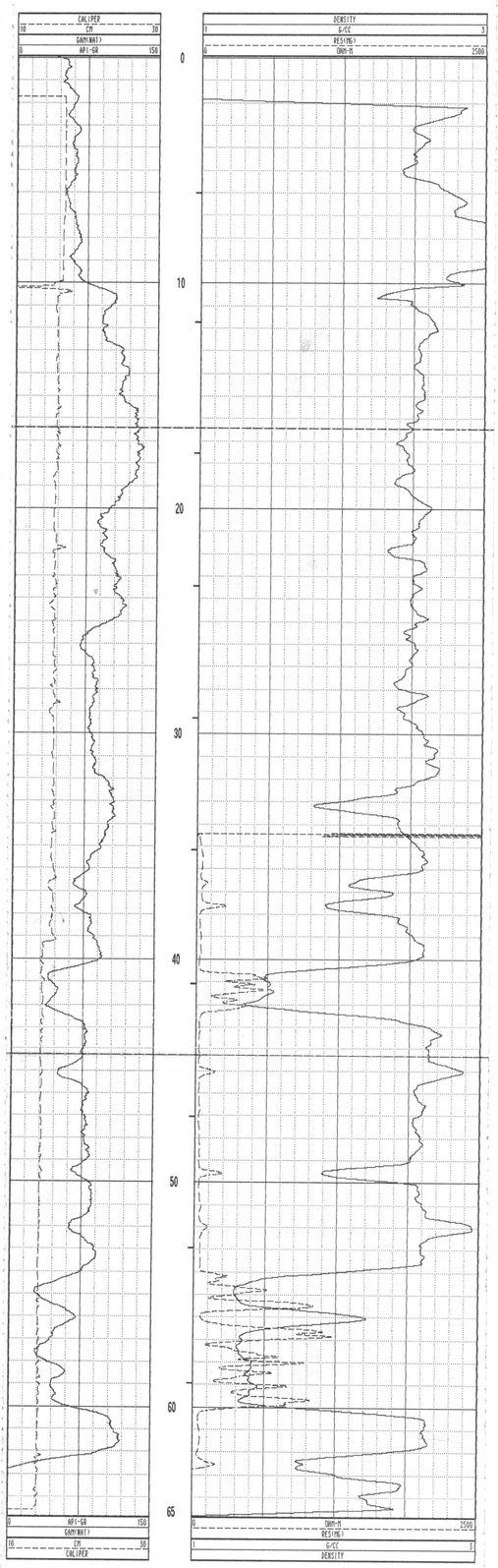
CGC

Century CORPORATION

GAMMA-RES-DENSITY

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:	
WELL	: T94R-04C				
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 08/18/94	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	: 60	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 64.07	LOG MEASURED FROM	: GL	DF	:
LOG TOP	: -0.06	DRL MEASURED FROM	: GL	GL	:
CASING DRILLER	: 9.0	LOGGING UNIT	: 8903		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: .25	RECORDED BY	: BOND		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 25.9	RM	: 0	TYPE	: 9030AA
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 3
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	: MANALTA 6
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH	: 10000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



T94R-04C 08/18/94 422

#878

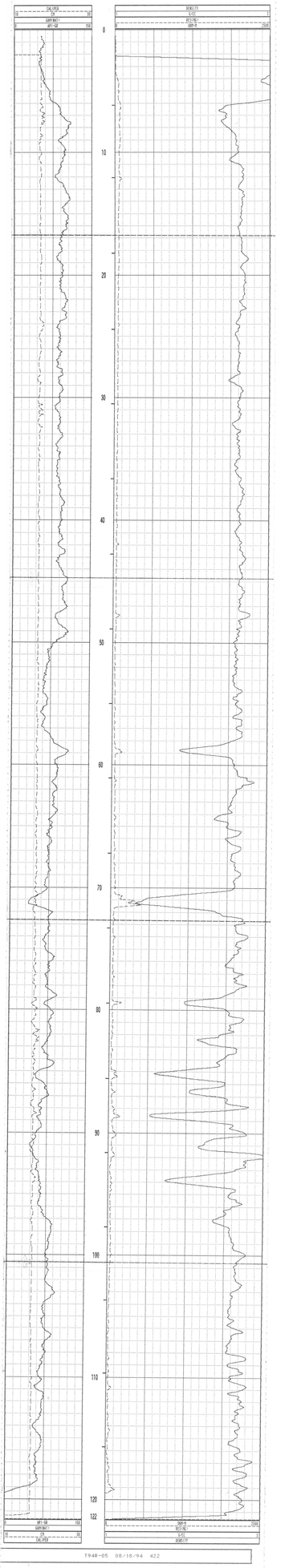
CGC

Century CORPORATION

GAMMA-RES-DENSITY

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:	
WELL	: T94R-05				
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 08/18/94	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	: 122	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	: 121.61	LOG MEASURED FROM:	GL	DF	:
LOG TOP	: 0.54	DRL MEASURED FROM:	GL	GL	:
CASING DRILLER	: 6.1	LOGGING UNIT	: 8083		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: .25	RECORDED BY	: BOND		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 25.9	RM	: @	TYPE	: 9838AA
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: @	LOG	: A
FLUID DENSITY	: 1.1	MATRIX DELTA T	: @	PLOT	: MANALTA 6
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: @	THRESH:	10000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



T94R-05 08/18/94 422

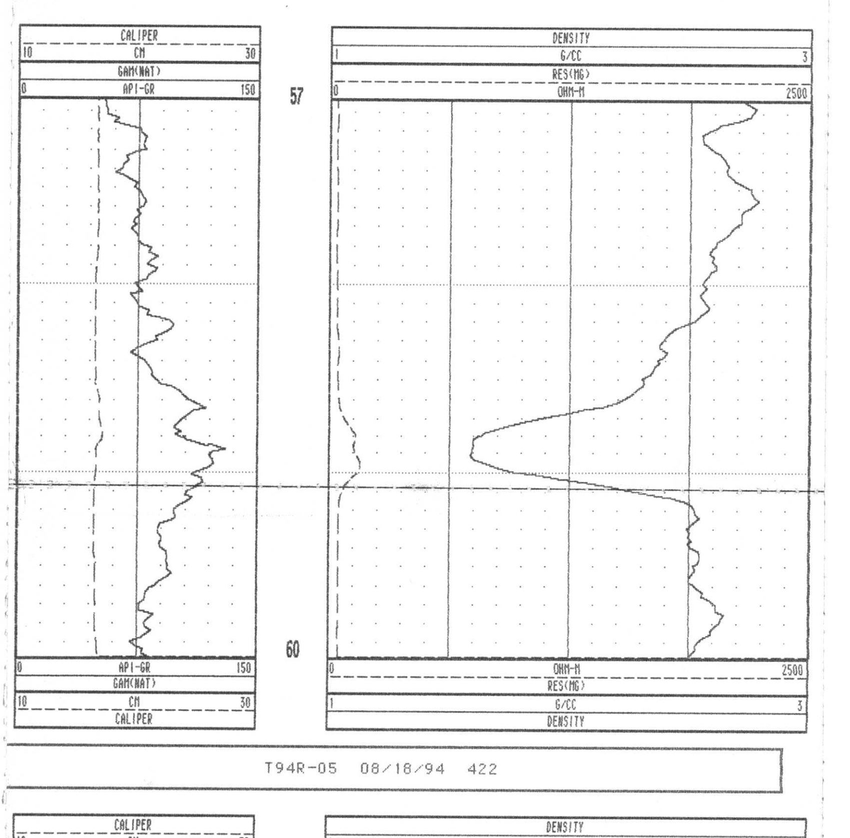
#878

CGC Century Corporation

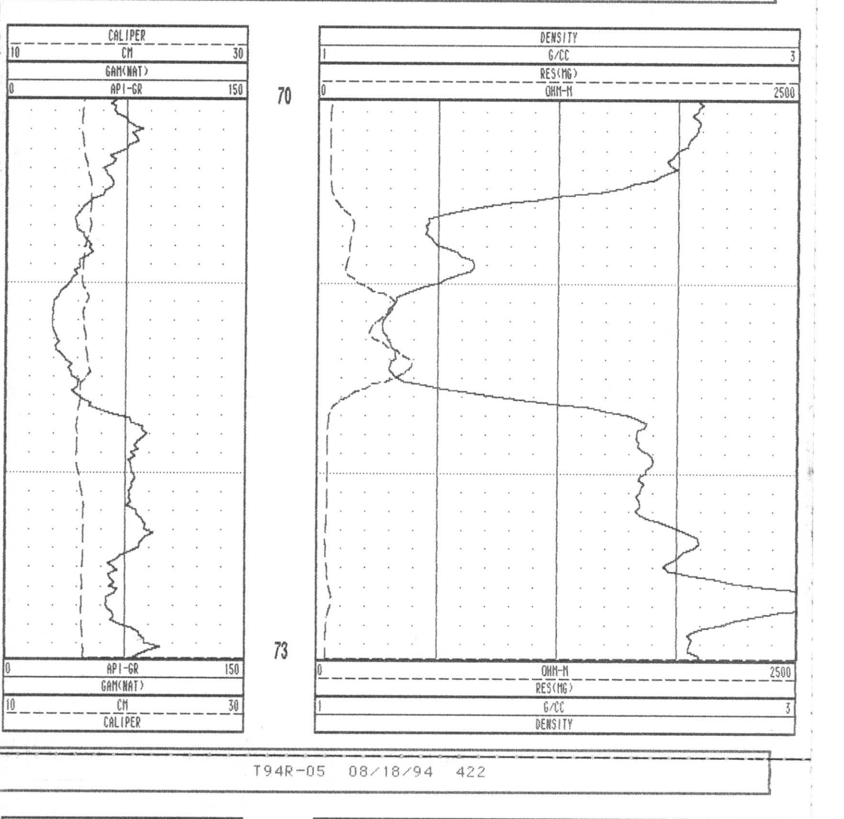
EXPANDED DENSITY

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:	
WELL	: T94R-05				
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 08/18/94	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	: 122	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	: 121.61	LOG MEASURED FROM:	GL	DF	:
LOG TOP	: 0.54	DRL MEASURED FROM:	GL	GL	:
CASING DRILLER	: 6.1	LOGGING UNIT	: 8903		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: .25	RECORDED BY	: BOND		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 25.9	RM	: 0	TYPE	: 9030AA
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 0
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	: MANALTA 7
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH	: 10000
REMARKS	:				

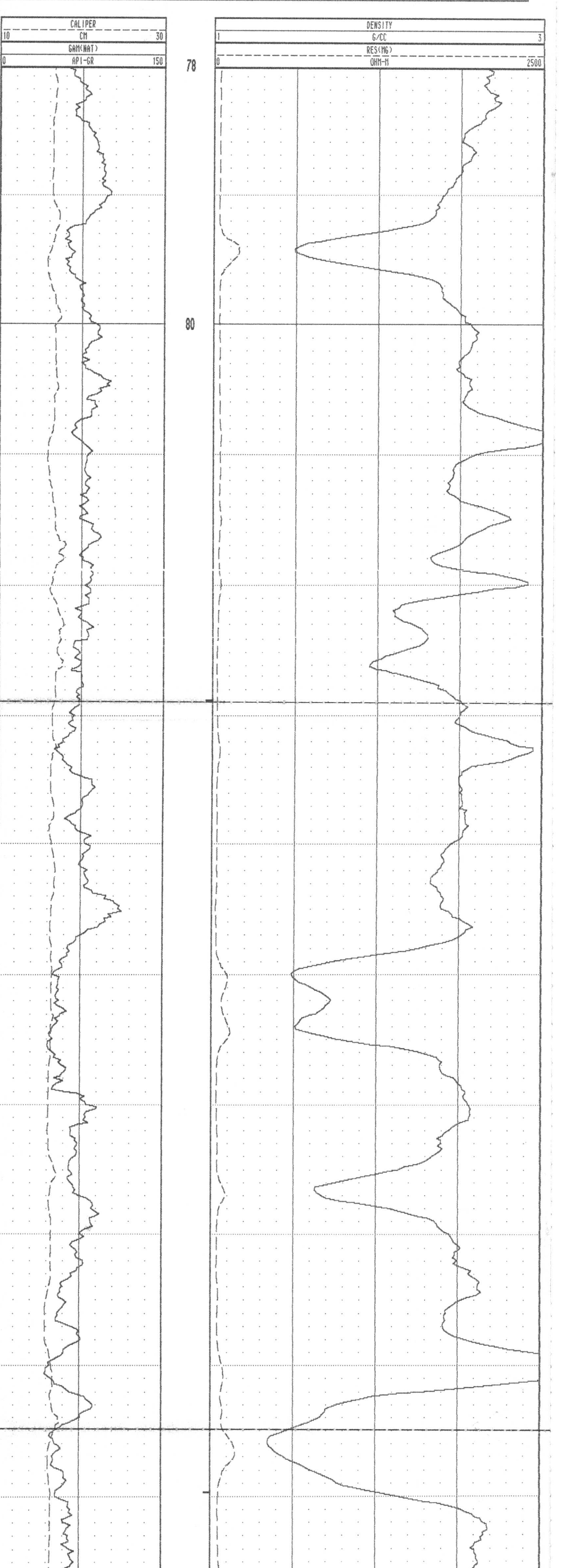
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



T94R-05 08/18/94 422



T94R-05 08/18/94 422



T94R-05 08/18/94 422

T94R-05 08/18/94 422

Century GEOPHYSICAL CORP.

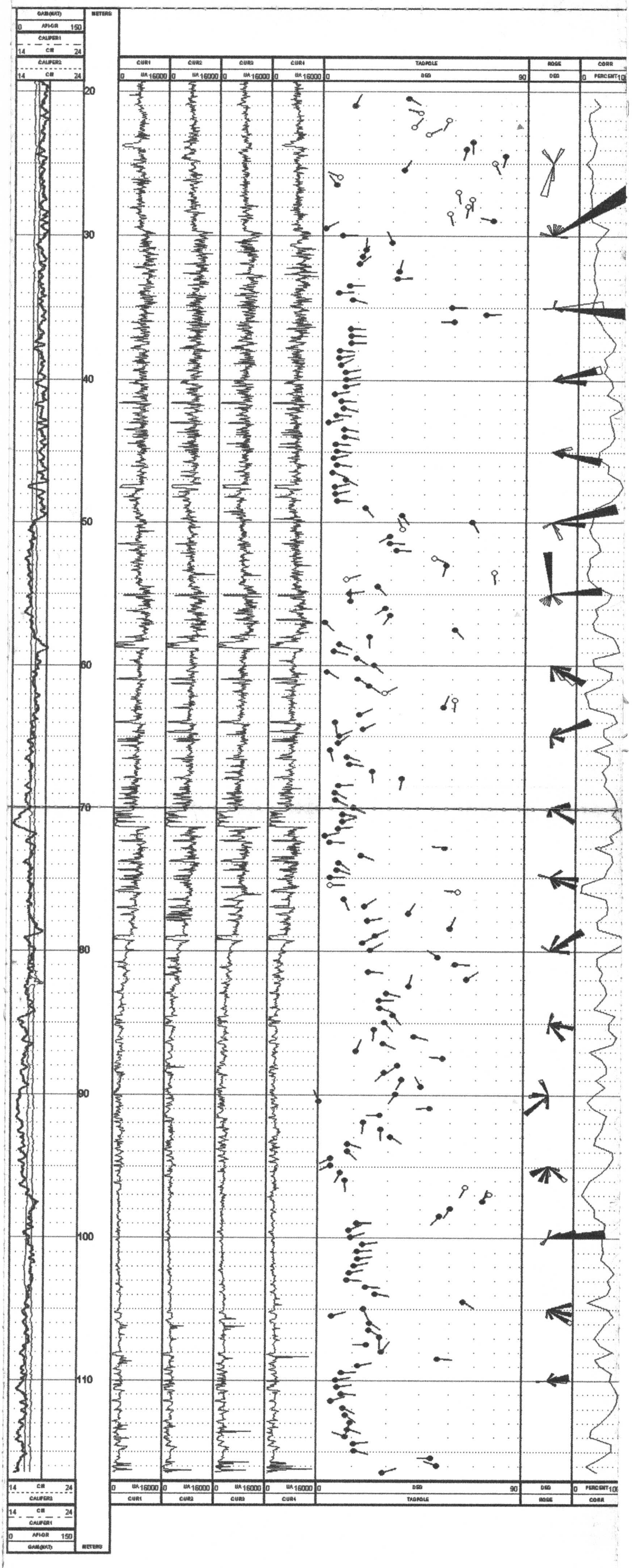
DIPMETER

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:	
WELL	: T94R-05				
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 08/18/94	PERMANENT DATUM	: GL	ELEVATIONS:	
DEPTH DRILLER	: 122	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 116.50	LOG MEASURED FROM	: GL	DF	:
LOG TOP	: 19.25	DRL MEASURED FROM	: GL	GL	:
CASING DRILLER	: 6.1	LOGGING UNIT	: 8903		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: .25	RECORDED BY	: BOND		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: PROCESSED
MAGNETIC DECL.	: 25.900	RM	: 0	TYPE	: 9400A
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 5.dip
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	: diptest.
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH	: 10000

REMARKS:

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

#878



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

CLIENT : MANALTA COAL LTD.
FIELD OFFICE : CALGARY
DATA FROM :
MAG. DECL. : 25.900

HOLE ID. : T94R-05
DATE OF LOG : 08/18/94
PROBE : 9055A . 255
DEPTH UNITS : METERS LOG 1

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
18.5	18.54	0.00	0.00	0.0	0.0	0.0	0.0
22.6	22.58	0.02	-0.00	0.0	350.9	0.6	261.2
27.6	27.58	-0.00	-0.03	0.0	268.8	0.6	215.8
32.6	32.58	-0.02	-0.06	0.1	245.8	0.5	282.6
37.6	37.58	-0.03	-0.13	0.1	257.6	1.0	257.8
42.6	42.58	-0.06	-0.25	0.3	256.2	2.0	251.4
47.6	47.57	-0.08	-0.42	0.4	259.1	2.1	261.7
52.6	52.57	-0.11	-0.59	0.6	259.6	1.8	266.0
57.6	57.57	-0.18	-0.78	0.8	256.8	1.9	245.5
62.6	62.56	-0.28	-0.97	1.0	254.0	2.5	246.5
67.6	67.56	-0.32	-1.18	1.2	255.0	3.9	286.0
72.6	72.55	-0.35	-1.43	1.5	256.3	2.6	264.6
77.6	77.55	-0.37	-1.66	1.7	257.5	2.6	261.5
82.6	82.54	-0.41	-1.93	2.0	258.0	3.4	269.2
87.6	87.53	-0.44	-2.22	2.3	258.9	3.9	275.6
92.6	92.52	-0.45	-2.50	2.5	259.7	3.2	267.8
97.6	97.51	-0.45	-2.79	2.8	260.8	3.3	267.2
102.6	102.50	-0.45	-3.11	3.1	261.7	4.2	273.5
107.6	107.49	-0.51	-3.44	3.5	261.5	3.8	236.7
112.6	112.48	-0.65	-3.76	3.8	260.2	3.6	260.8
117.6	117.47	-0.64	-4.07	4.1	261.0	3.8	265.2
121.8	121.70	-0.63	-4.35	4.4	261.7	4.0	270.3

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

CLIENT : MANALTA COAL LTD.
FIELD OFFICE : CALGARY
DATA FROM :
MAG. DECL. : 25.900

HOLE ID. : T94R-05
DATE OF LOG : 08/18/94
PROBE : 9055A . 255
DEPTH UNITS : METERS LOG 1

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
18.5	18.54	0.00	0.00	0.0	0.0	0.0	0.0
20.0	20.00	0.00	0.00	0.0	27.4	0.3	14.0
25.0	25.00	0.01	-0.02	0.0	303.9	0.4	235.4
30.0	30.00	-0.01	-0.04	0.0	250.2	0.4	258.2
35.0	35.00	-0.02	-0.08	0.1	254.8	0.6	276.3
40.0	40.00	-0.04	-0.19	0.2	256.6	1.5	249.3
45.0	45.00	-0.07	-0.33	0.3	258.3	2.0	267.9
50.0	49.99	-0.09	-0.51	0.5	259.8	2.3	259.5
55.0	54.99	-0.14	-0.68	0.7	258.1	2.4	223.2
60.0	59.99	-0.22	-0.87	0.9	255.5	2.6	239.6
65.0	64.98	-0.30	-1.07	1.1	254.2	2.2	261.8
70.0	69.97	-0.33	-1.31	1.3	255.9	2.9	258.5
75.0	74.97	-0.35	-1.54	1.6	257.0	2.6	265.3
80.0	79.96	-0.39	-1.77	1.8	257.6	3.7	259.6
85.0	84.95	-0.42	-2.07	2.1	258.5	3.5	261.6
90.0	89.95	-0.44	-2.35	2.4	259.5	3.1	268.6
95.0	94.94	-0.45	-2.64	2.7	260.3	3.6	266.7
100.0	99.93	-0.45	-2.93	3.0	261.2	4.0	270.6
105.0	104.92	-0.46	-3.28	3.3	262.1	3.6	262.3
110.0	109.90	-0.58	-3.59	3.6	260.7	3.3	243.1
115.0	114.89	-0.65	-3.91	4.0	260.6	3.4	266.3
120.0	119.88	-0.63	-4.23	4.3	261.5	3.5	271.8
121.8	121.70	-0.63	-4.35	4.4	261.7	4.0	270.3

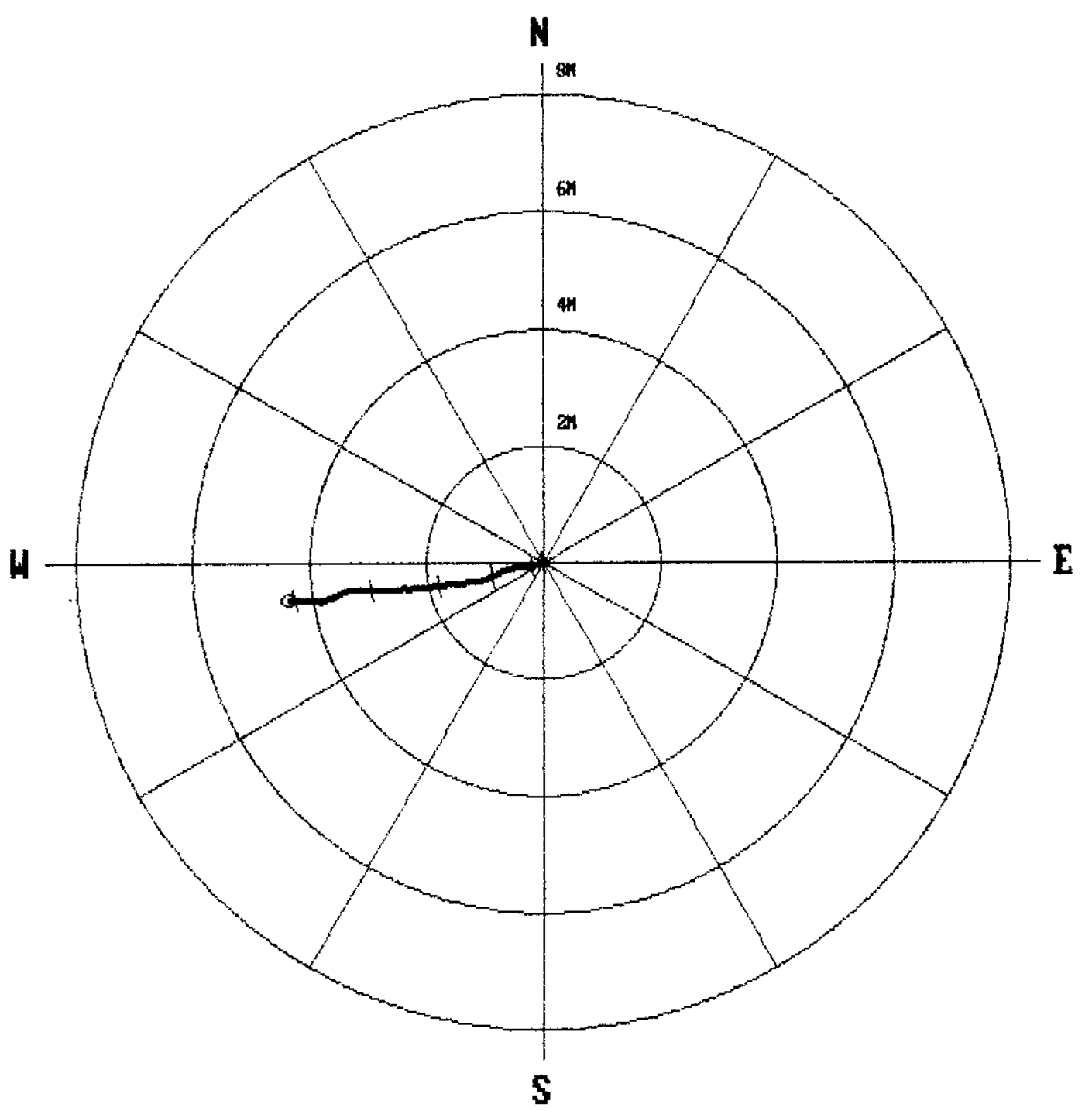
PLAN VIEW
COMPU-LOG DEVIATION

#878

CLIENT: MANALTA COAL LTD.
LOCATION: TELKWA
HOLE ID: T94R-05
DATE OF LOG: 08/18/94
PROBE: 9055A 255

MAG DECL: 25.9

SCALE: 1 M/CM
TRUE DEPTH: 121.70 M
AZIMUTH: 261.7
DISTANCE: 4.4 M
+ = 20 M INCR
○ = BOTTOM OF HOLE



#878

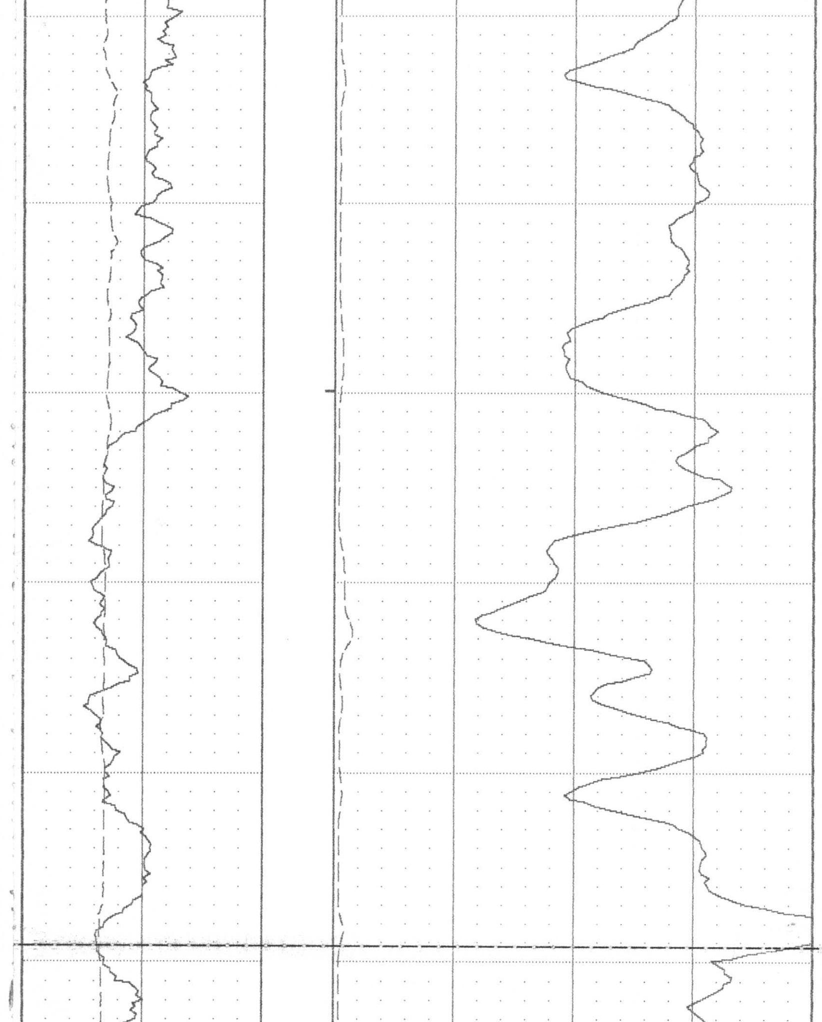
CGC

Century Corporation

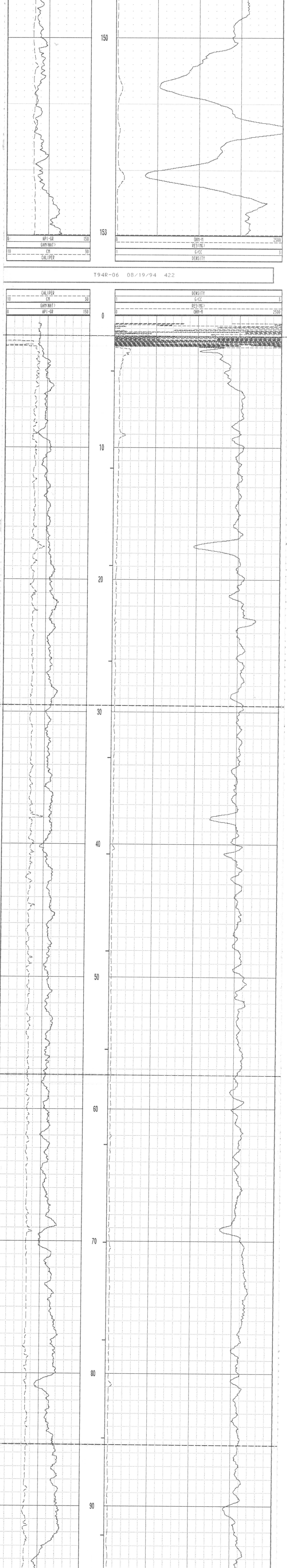
EXPANDED DENSITY

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:	
WELL	: T94R-06				
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 08/19/94	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	: 164.7	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 162.76	LOG MEASURED FROM	: GL	DF	:
LOG TOP	: 0.64	DRL MEASURED FROM	: GL	GL	:
CASING DRILLER	: 3.0	LOGGING UNIT	: 8903		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: .25	RECORDED BY	: BOND		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 25.9	RM	: 0	TYPE	: 9030AA
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 3
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	: MANALTA 7
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH	: 10000
REMARKS	:				

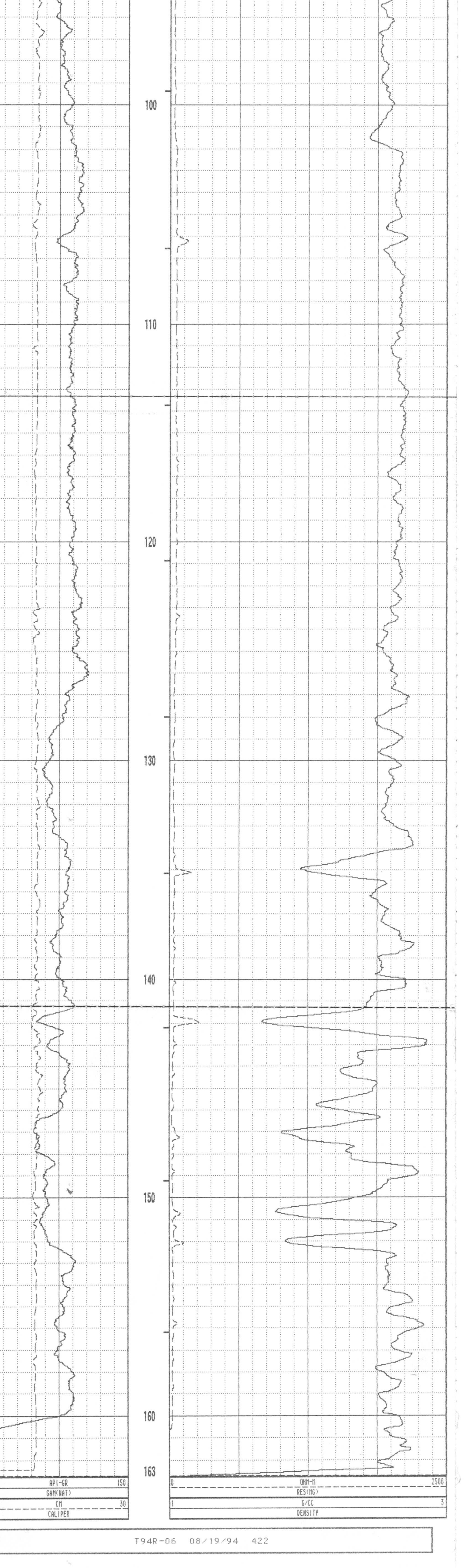
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



T94R-06 08/19/94 422



T94R-06 08/19/94 422



T94R-06 08/19/94 422

#878

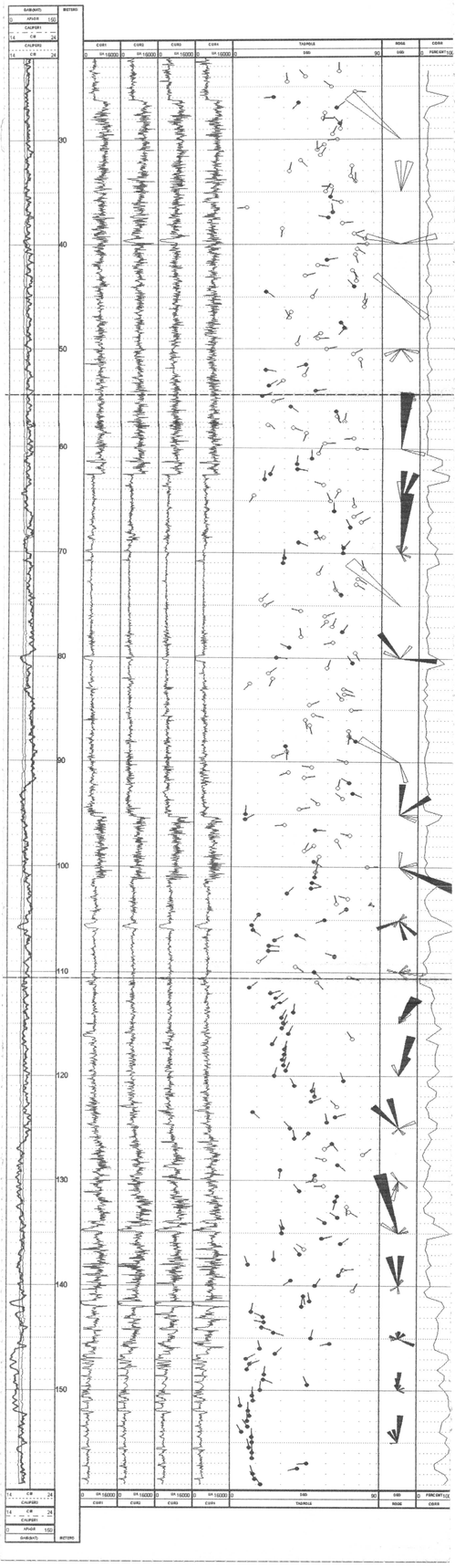
Century GEOPHYSICAL CORP.

DIPMETER

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:	
WELL	: T94R-06				
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 08/19/94	PERMANENT DATUM	: GL	ELEVATIONS:	
DEPTH DRILLER	: 164.7	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 159.00	LOG MEASURED FROM:	GL	DF	:
LOG TOP	: 22.14	DRL MEASURED FROM:	GL	GL	:
CASING DRILLER	: 3.0	LOGGING UNIT	: 8903		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS:	.25	RECORDED BY	: BOND		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: PROCESSED
MAGNETIC DECL.	: 25.900	RM	: 0	TYPE	: 9400A
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 6.dip
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	: diptest.
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH:	10000

REMARKS:

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



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

CLIENT : MANALTA COAL LTD.
FIELD OFFICE : CALGARY
DATA FROM :
MAG. DECL. : 25.900

HOLE ID. : T94R-06
DATE OF LOG : 08/19/94
PROBE : 9055A . 255
DEPTH UNITS : METERS LOG 2

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
15.2	15.22	0.00	0.00	0.0	0.0	0.0	0.0
19.5	19.50	-0.09	0.02	0.1	166.7	1.6	173.1
24.5	24.50	-0.23	0.05	0.2	166.6	1.7	153.9
29.5	29.49	-0.39	0.13	0.4	162.1	1.9	155.7
34.5	34.49	-0.56	0.15	0.6	164.6	1.8	164.6
39.5	39.49	-0.70	0.19	0.7	164.6	1.9	165.1
44.5	44.49	-0.85	0.21	0.9	165.8	1.6	180.4
49.5	49.48	-0.99	0.18	1.0	169.4	1.7	205.0
54.5	54.48	-1.16	0.11	1.2	174.4	2.9	202.8
59.5	59.47	-1.37	-0.02	1.4	181.0	3.0	221.4
64.5	64.46	-1.57	-0.23	1.6	188.3	3.6	225.9
69.5	69.46	-1.77	-0.46	1.8	194.6	3.6	227.5
74.5	74.45	-1.98	-0.68	2.1	199.0	3.4	221.3
79.5	79.44	-2.21	-0.88	2.4	201.7	3.8	217.6
84.5	84.42	-2.49	-1.06	2.7	203.1	4.1	211.1
89.5	89.41	-2.79	-1.28	3.1	204.7	4.4	207.7
94.5	94.40	-3.08	-1.53	3.4	206.5	4.3	219.1
99.5	99.38	-3.40	-1.82	3.9	208.2	6.2	218.3
104.5	104.35	-3.78	-2.14	4.3	209.5	5.4	218.6
109.5	109.32	-4.18	-2.48	4.9	210.7	5.8	219.5
114.5	114.29	-4.61	-2.86	5.4	211.8	6.7	218.8
119.5	119.26	-5.06	-3.21	6.0	212.4	7.1	208.5
124.5	124.22	-5.59	-3.56	6.6	212.4	8.4	218.7
129.5	129.18	-6.13	-3.88	7.3	212.3	7.6	211.2
134.5	134.13	-6.68	-4.23	7.9	212.3	7.5	211.7
139.5	139.09	-7.26	-4.56	8.6	212.2	7.8	208.5
144.5	144.04	-7.84	-4.91	9.3	212.0	7.5	210.4
149.5	149.00	-8.41	-5.22	9.9	211.8	7.6	208.9
154.5	153.96	-8.98	-5.54	10.6	211.7	7.3	212.9
159.5	158.91	-9.54	-5.86	11.2	211.5	7.2	206.8
161.7	161.06	-9.79	-5.98	11.5	211.4	7.7	211.2

15.0	15.00	0.00	0.00	0.0	0.0	0.0	0.0
20.0	20.00	-0.10	0.02	0.1	167.6	1.6	173.7
25.0	25.00	-0.24	0.06	0.2	166.0	1.6	161.3
30.0	29.99	-0.41	0.13	0.4	162.2	2.0	165.5
35.0	34.99	-0.58	0.16	0.6	164.6	1.7	163.2
40.0	39.99	-0.72	0.20	0.7	164.6	2.3	169.7
45.0	44.99	-0.86	0.21	0.9	166.1	1.7	179.8
50.0	49.98	-1.00	0.18	1.0	169.8	1.9	197.2
55.0	54.98	-1.18	0.10	1.2	175.1	3.0	209.3
60.0	59.97	-1.39	-0.04	1.4	181.8	2.8	247.9
65.0	64.96	-1.59	-0.25	1.6	189.0	3.5	224.1
70.0	69.95	-1.79	-0.48	1.9	195.1	3.3	227.8
75.0	74.94	-2.01	-0.70	2.1	199.3	3.7	215.1
80.0	79.94	-2.24	-0.90	2.4	201.9	4.0	218.7
85.0	84.92	-2.52	-1.08	2.7	203.2	4.1	209.6
90.0	89.91	-2.82	-1.31	3.1	204.8	4.5	219.6
95.0	94.89	-3.11	-1.56	3.5	206.6	4.2	209.5
100.0	99.87	-3.44	-1.85	3.9	208.3	5.6	223.3
105.0	104.85	-3.83	-2.18	4.4	209.7	6.2	219.1
110.0	109.82	-4.22	-2.52	4.9	210.9	6.4	230.8
115.0	114.79	-4.65	-2.89	5.5	211.9	6.6	218.6
120.0	119.75	-5.11	-3.24	6.1	212.4	6.5	221.4
125.0	124.71	-5.65	-3.59	6.7	212.5	7.2	214.2
130.0	129.67	-6.19	-3.91	7.3	212.3	7.6	208.8
135.0	134.63	-6.74	-4.26	8.0	212.3	7.8	210.9
140.0	139.58	-7.31	-4.60	8.6	212.1	8.4	210.4
145.0	144.54	-7.90	-4.94	9.3	212.0	7.5	208.2
150.0	149.50	-8.47	-5.26	10.0	211.8	7.4	211.1
155.0	154.45	-9.04	-5.57	10.6	211.7	7.5	216.5
160.0	159.41	-9.60	-5.88	11.3	211.5	6.9	191.1
161.7	161.06	-9.79	-5.98	11.5	211.4	7.7	211.2

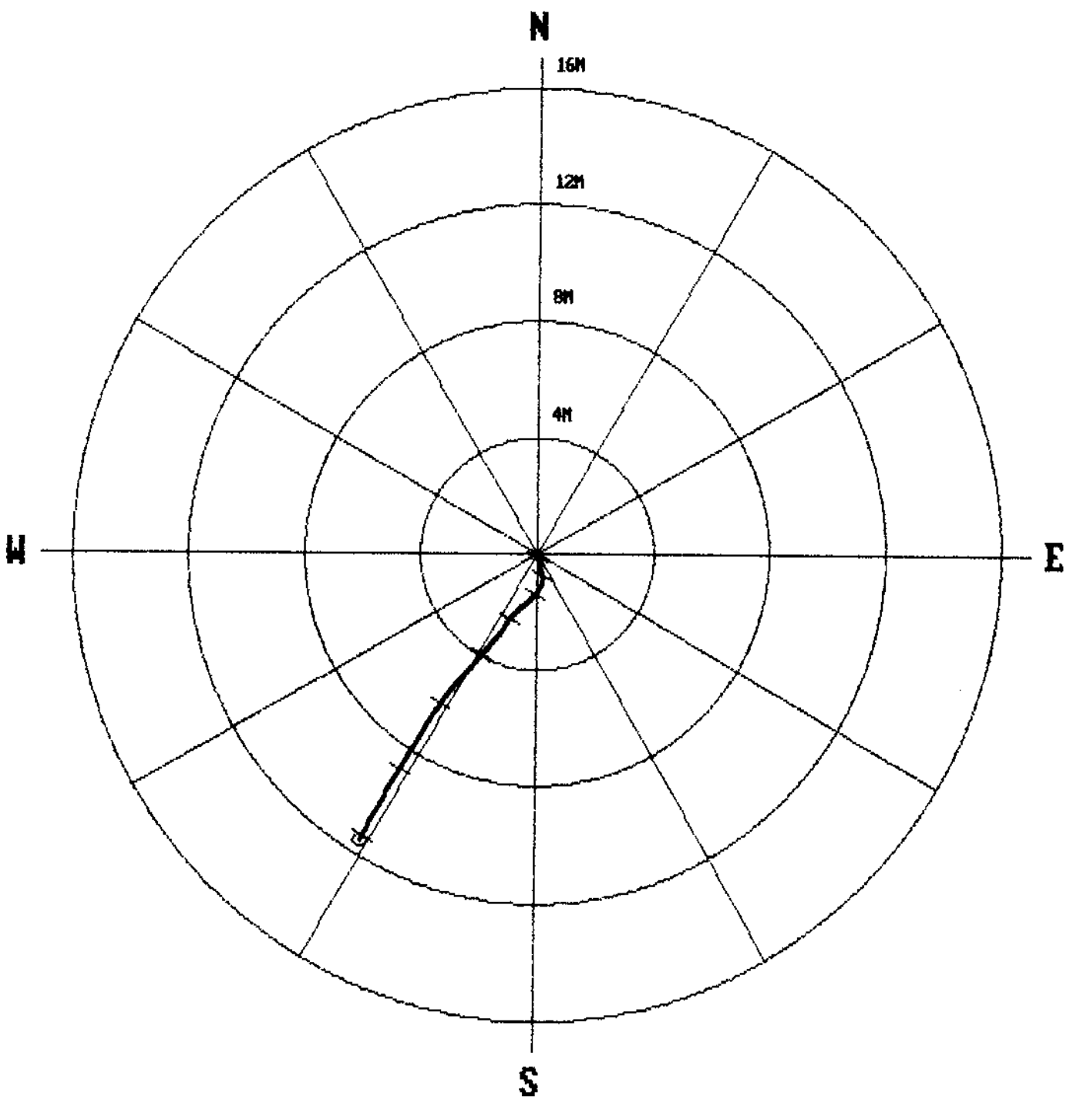
PLAN VIEW

COMPU-LOG DEVIATION #878

CLIENT: MANALTA COAL LTD.
LOCATION: TELKWA
HOLE ID: T94R-06
DATE OF LOG: 08/19/94
PROBE: 9055A 255

MAG DECL: 25.9

SCALE: 2 M/CM
TRUE DEPTH: 161.06 M
AZIMUTH: 211.4
DISTANCE: 11.5 M
+ = 20 M INCR
○ = BOTTOM OF HOLE



#878

Century Corporation

CGC

GAMMA-RES-DENSITY

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:	
WELL	: T94R-06				
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 08/19/94	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	: 164.7	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 162.76	LOG MEASURED FROM	: GL	DF	:
LOG TOP	: 0.64	DRL MEASURED FROM	: GL	GL	:
CASING DRILLER	: 3.0	LOGGING UNIT	: 8903		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: .25	RECORDED BY	: BOND		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 25.9	RM	: 0	TYPE	: 9030AA
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 3
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	: MANALTA 6
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH	: 10000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

T94R-06 08/19/94 422

#878

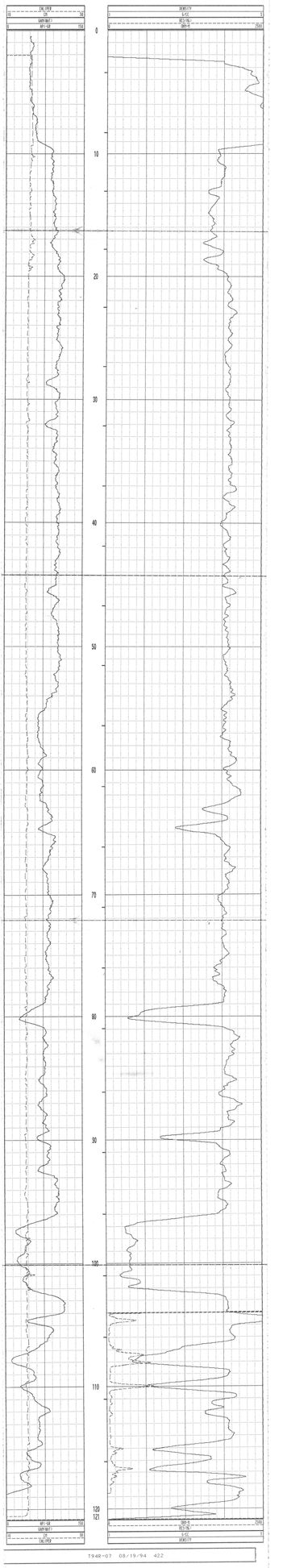
CGC

Century CORPORATION

GAMMA-RES-DENSITY

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:	
WELL	: T94R-07				
LOCATION/FIELD	: TELSAN				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 08/19/94	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	: 121	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	: 120.07	LOG MEASURED FROM:	GL	DF	:
LOG TOP	: 0.54	DRL MEASURED FROM:	GL	GL	:
CASING DRILLER	: 9.0	LOGGING UNIT	: 0903		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS:	.25	RECORDED BY	: BONG		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 25.9	RM	: 0	TYPE	: 9030GA
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 0
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	: MANALTA 6
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH:	10000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



T94R-07 08/19/94 422

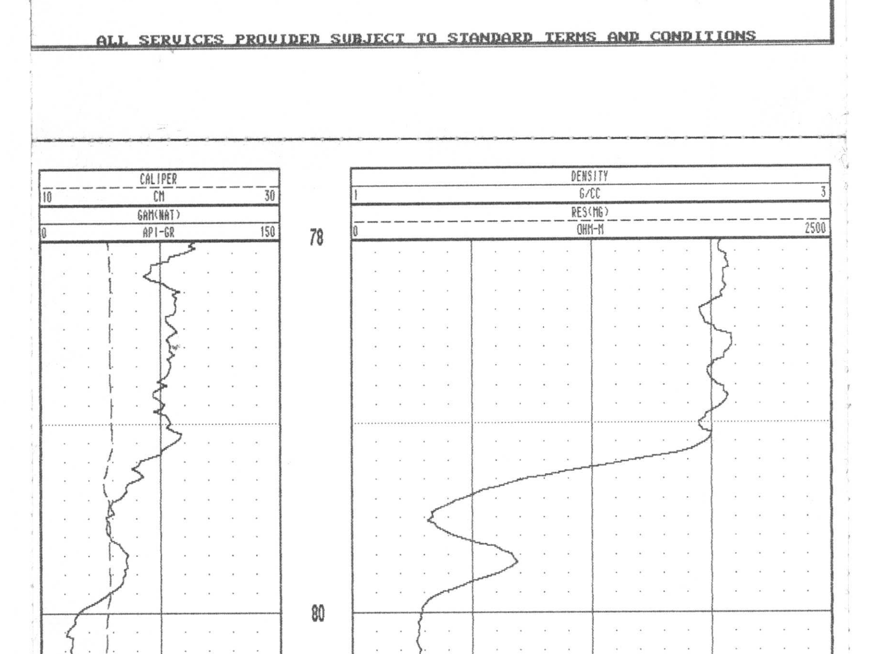
#878

CENTURY CORPORATION

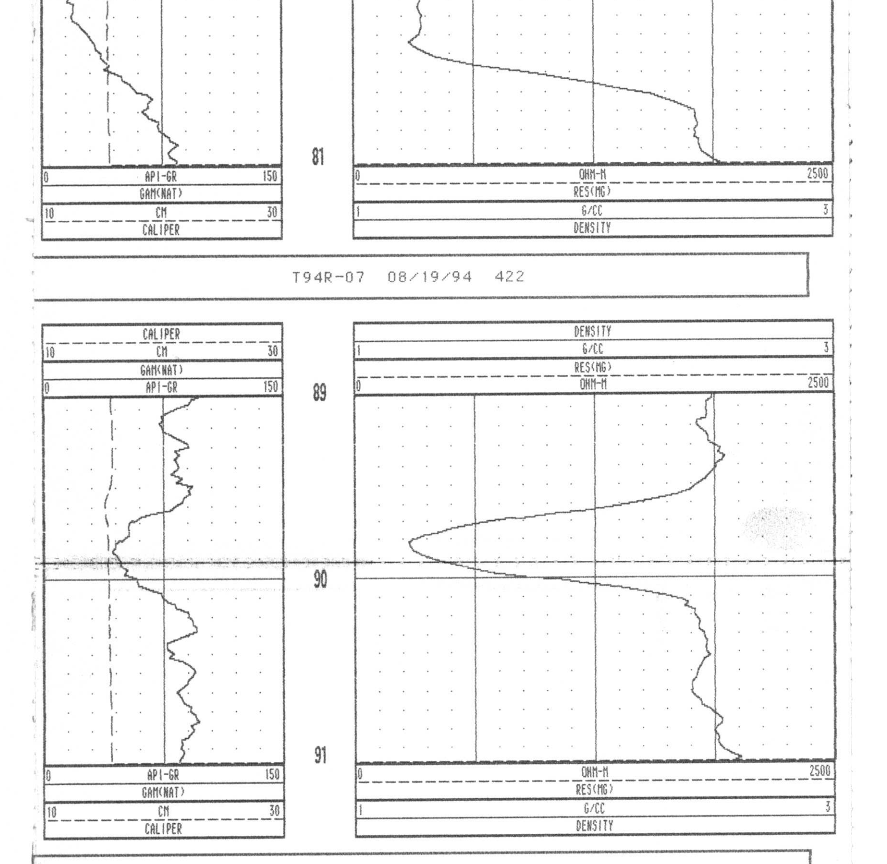
EXPANDED DENSITY

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:			
WELL	: T94R-07						
LOCATION/FIELD	: TELKWA						
COUNTY	:						
STATE	:						
SECTION	:	TOWNSHIP	:	RANGE	:		
DATE	: 08/19/94	PERMANENT DATUM	: GL	ELEVATIONS			
DEPTH DRILLER	: 121	ELEV. PERM. DATUM	:	KB	:		
LOG BOTTOM	: 120.87	LOG MEASURED FROM	: GL	DF	:		
LOG TOP	: 0.54	DRL MEASURED FROM	: GL	GL	:		
CASING DRILLER	: 9.0	LOGGING UNIT	: 8903				
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY				
CASING THICKNESS	: .25	RECORDED BY	: BOND				
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL		
MAGNETIC DECL.	: 25.9	RM	: 0	TYPE	: 9030AA		
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 0		
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	: MANALTA 7		
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH	: 10000		
REMARKS	:						

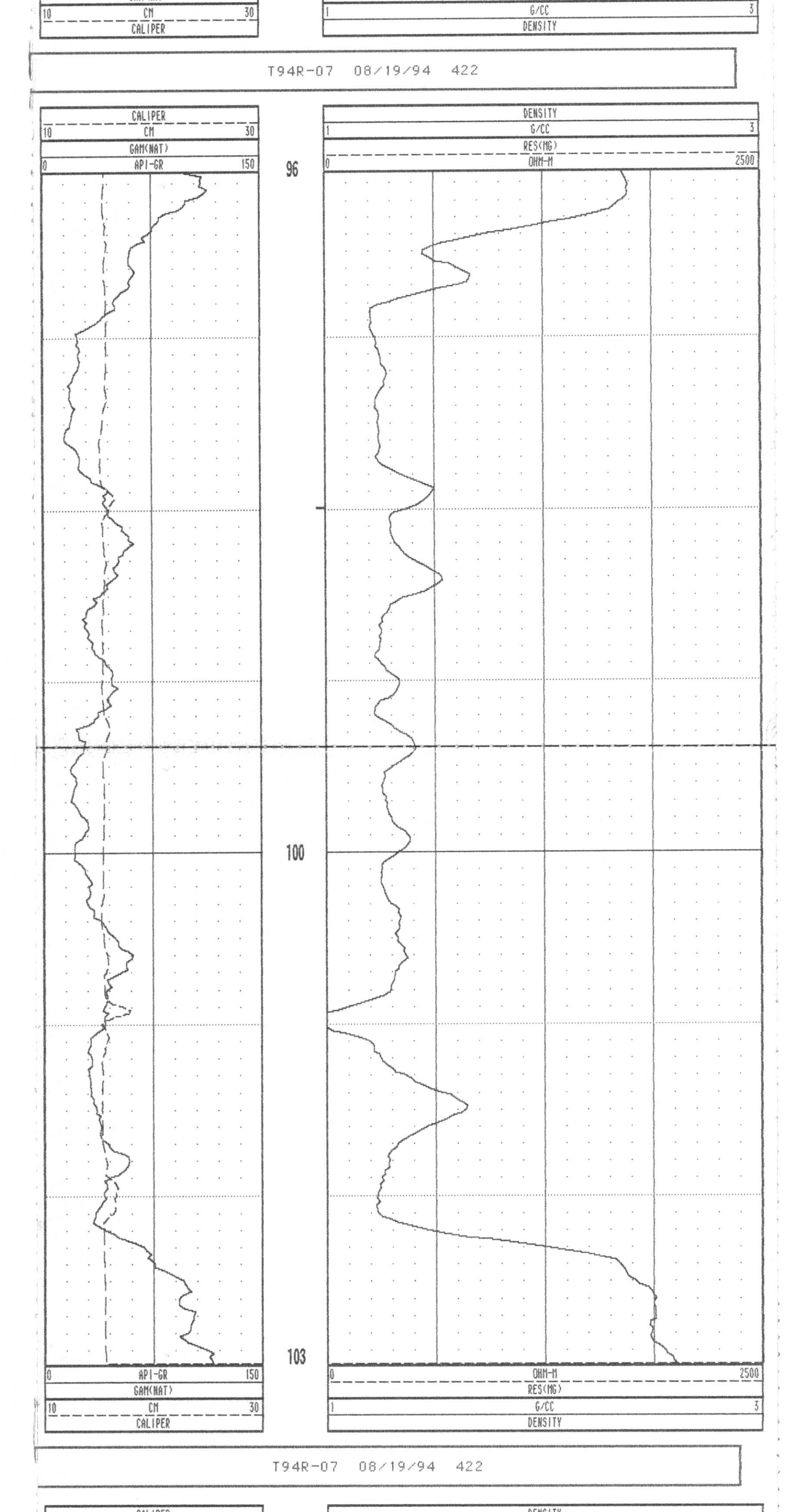
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



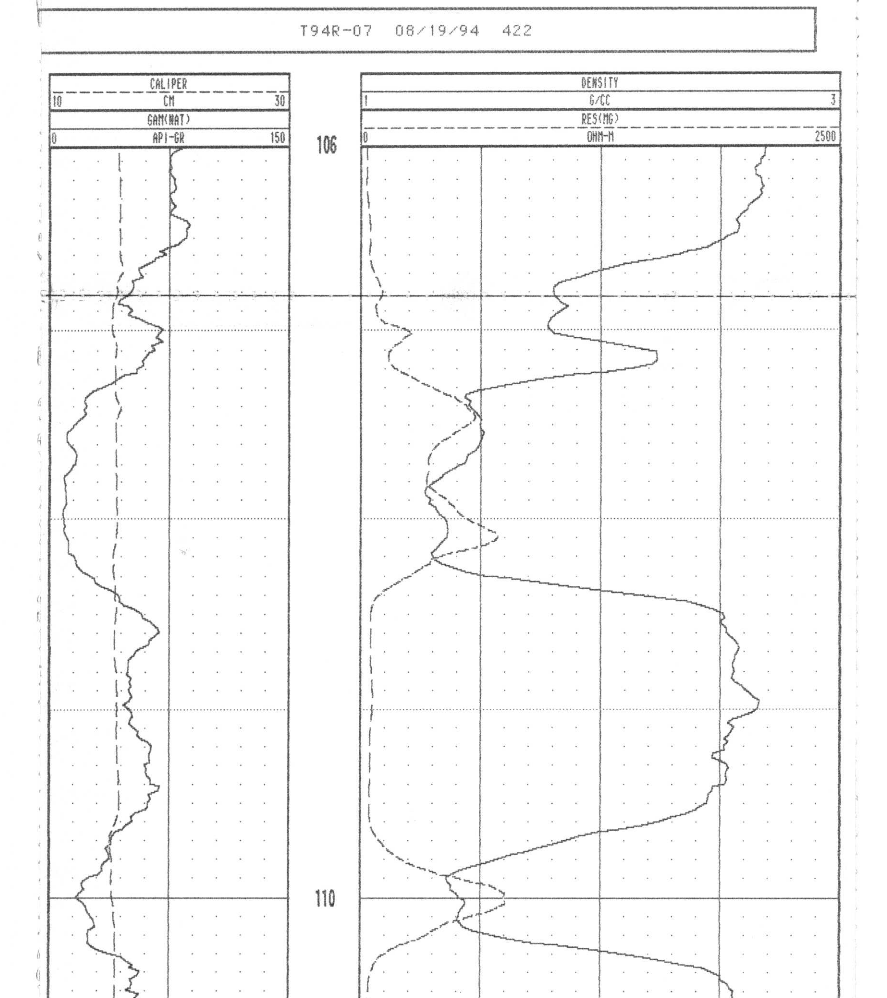
T94R-07 08/19/94 422



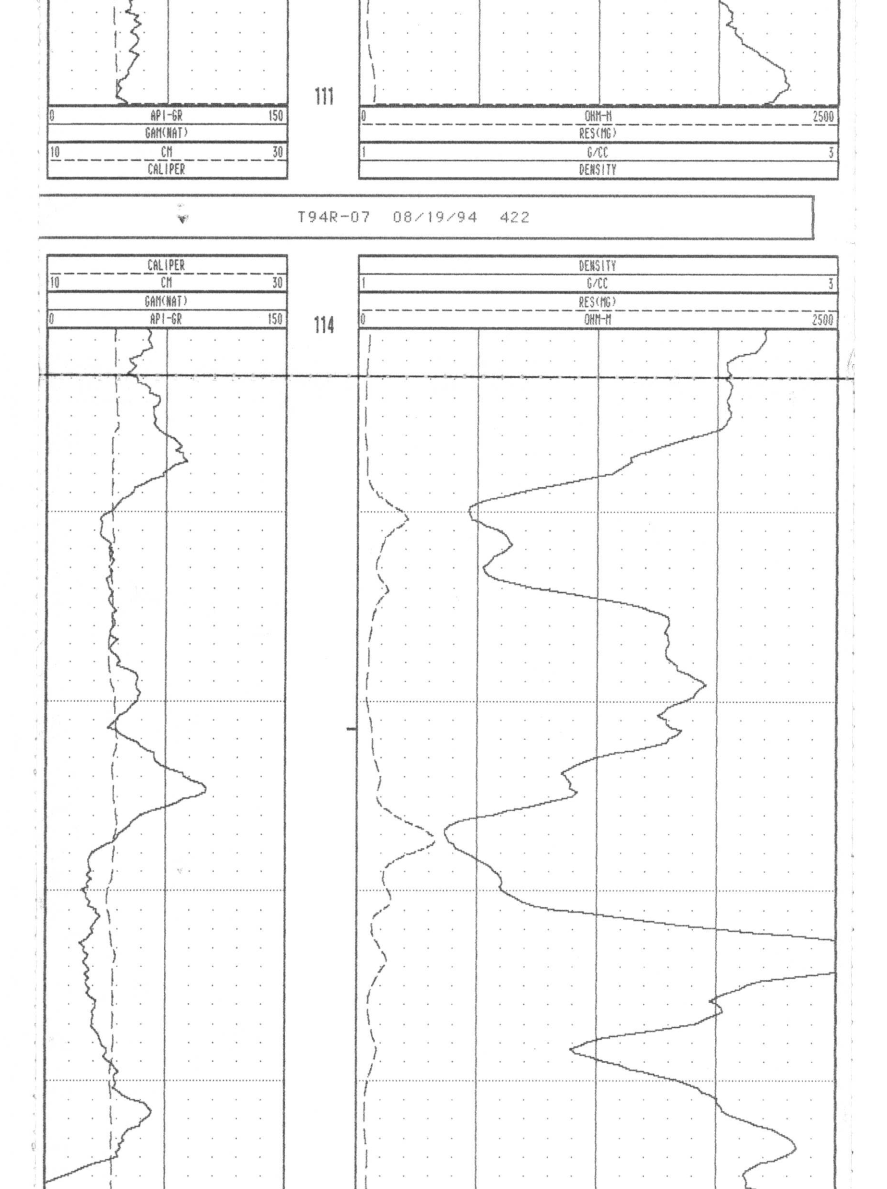
T94R-07 08/19/94 422



T94R-07 08/19/94 422



T94R-07 08/19/94 422



T94R-07 08/19/94 422

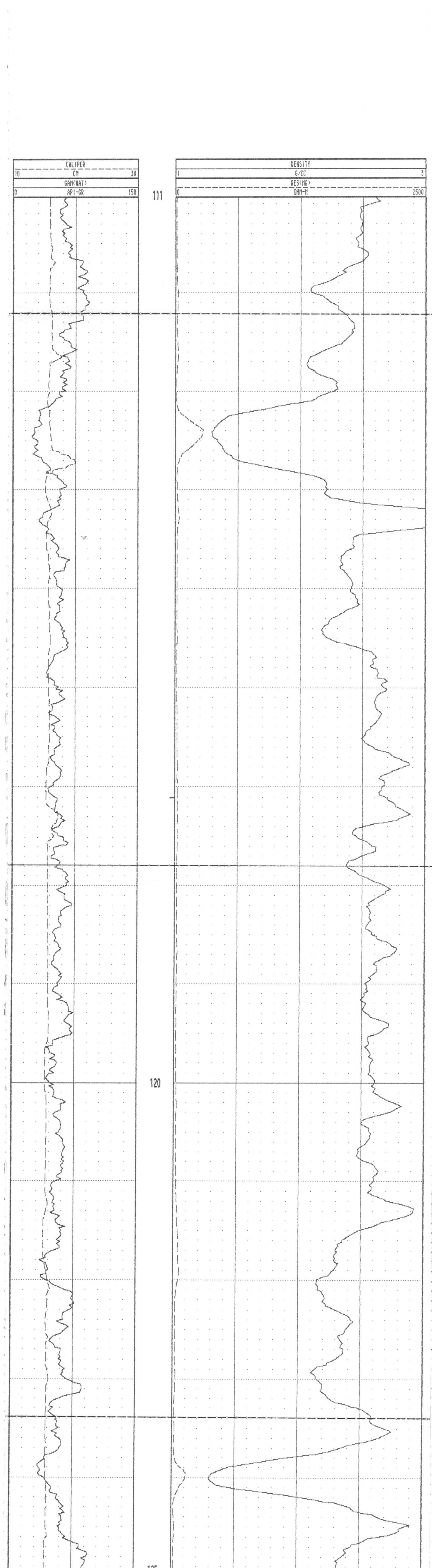
T94R-07 08/19/94 422

CGC Century Corporation

EXPANDED DENSITY

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:	
WELL	: T94R-08				
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 08/21/94	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	: 144.5	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 146.52	LOG MEASURED FROM	: GL	DF	:
LOG TOP	: 0.22	DRL MEASURED FROM	: GL	GL	:
CASING DRILLER	: 18.3	LOGGING UNIT	: 8903		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: .25	RECORDED BY	: BOND		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 25.9	RM	: 0	TYPE	: 9030AA
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 0
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	: MANALTA 7
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH	: 10000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



T94R-08 08/21/94 422

T94R-08 08/21/94 422

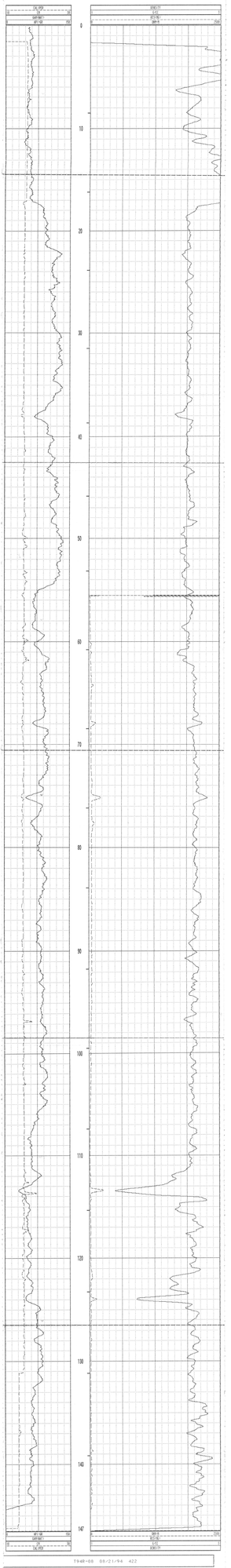
#878

Century CORPORATION

GAMMA-RES-DENSITY

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:	
WELL	: T94R-4B				
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 08/21/94	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	: 144.5	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	: 146.52	LOG MEASURED FROM:	GL	DF	:
LOG TOP	: 8.22	DRL MEASURED FROM:	GL	GL	:
CASING DRILLER	: 18.3	LOGGING UNIT	: 8983		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS:	.25	RECORDED BY	: BOND		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 25.9	RM	: @	TYPE	: 9838WA
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: @	LOG	: @
FLUID DENSITY	: 1.1	MATRIX DELTA T	: @	PLOT	: MANALTA 6
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: @	THRESH:	100000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



T94R-08 08/21/94 422

Century GEOPHYSICAL CORP.

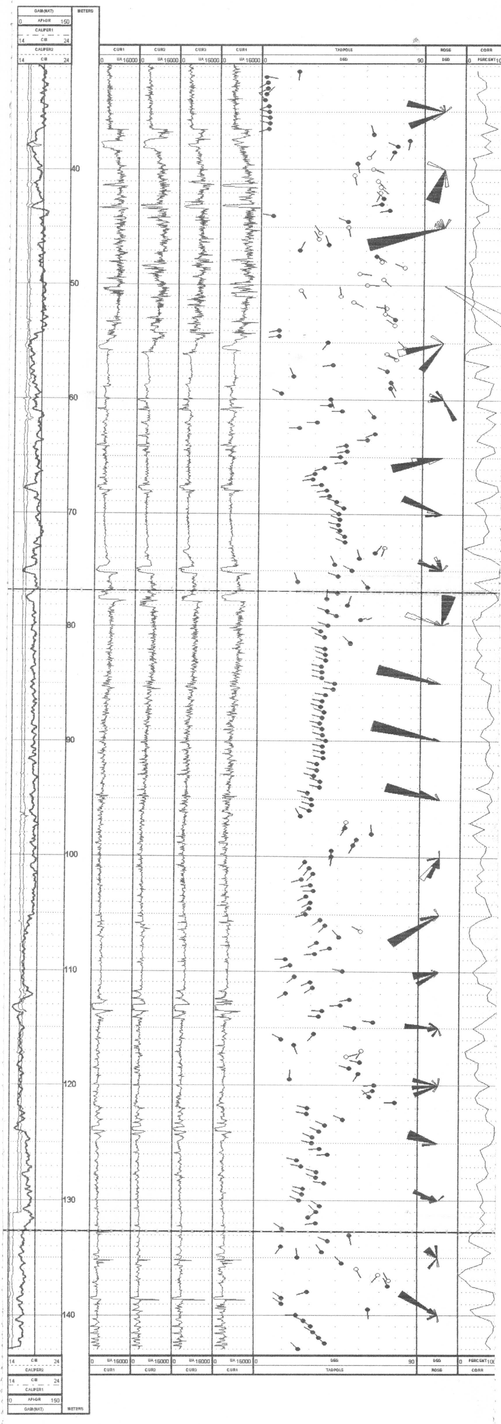
DIPMETER

COMPANY	: MANALTA COAL LTD.	OTHER SERVICES:	
WELL	: T94R-08		
LOCATION/FIELD	: TELKWA		
COUNTY	:		
STATE	:		
SECTION	:	TOWNSHIP :	RANGE : #878

DATE	: 08/21/94	PERMANENT DATUM	: GL	ELEVATIONS:	
DEPTH DRILLER	: 144.5	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 143.00	LOG MEASURED FROM:	GL	DF	:
LOG TOP	: 30.76	DRL MEASURED FROM:	GL	GL	:
CASING DRILLER	: 18.3	LOGGING UNIT	: 8903		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS:	.25	RECORDED BY	: BOND		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: PROCESSED
MAGNETIC DECL.	: 25.900	RM	: 0	TYPE	: 9400A
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 7.dip
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	: diptest.
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH:	10000

REMARKS:

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



Century GEOPHYSICAL CORP.

DIPMETER

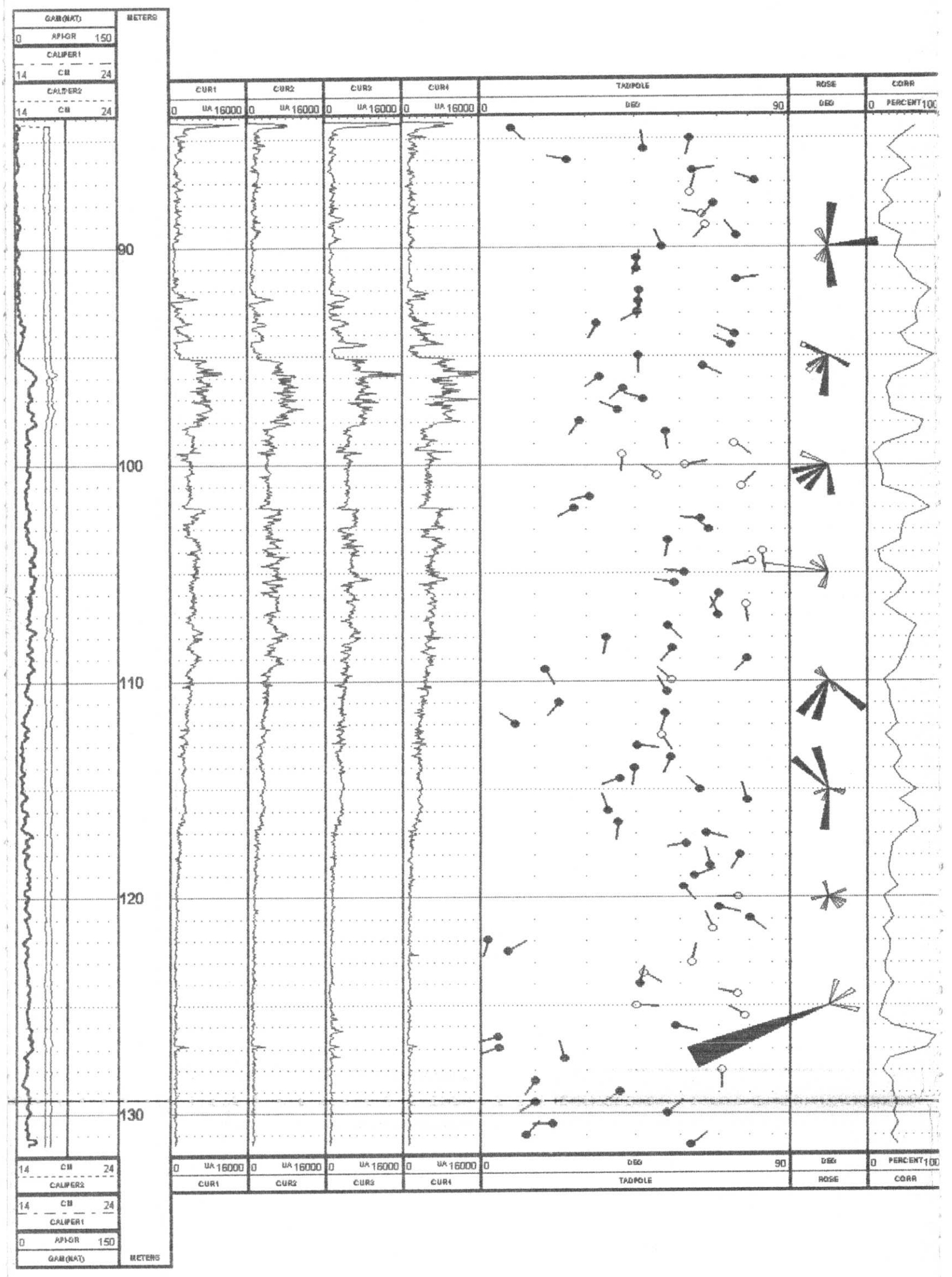
COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:	
WELL	: T94R-09				
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 08/22/94	PERMANENT DATUM	: GL	ELEVATIONS:	
DEPTH DRILLER	: 146.3	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 131.50	LOG MEASURED FROM	: GL	DF	:
LOG TOP	: 83.89	DRL MEASURED FROM	: GL	GL	:
CASING DRILLER	: 56.0	LOGGING UNIT	: 8903		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: .25	RECORDED BY	: BOND		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: PROCESSED
MAGNETIC DECL.	: 25.900	RM	: 0	TYPE	: 9400A
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 7.dip
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	:
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH	: 10000

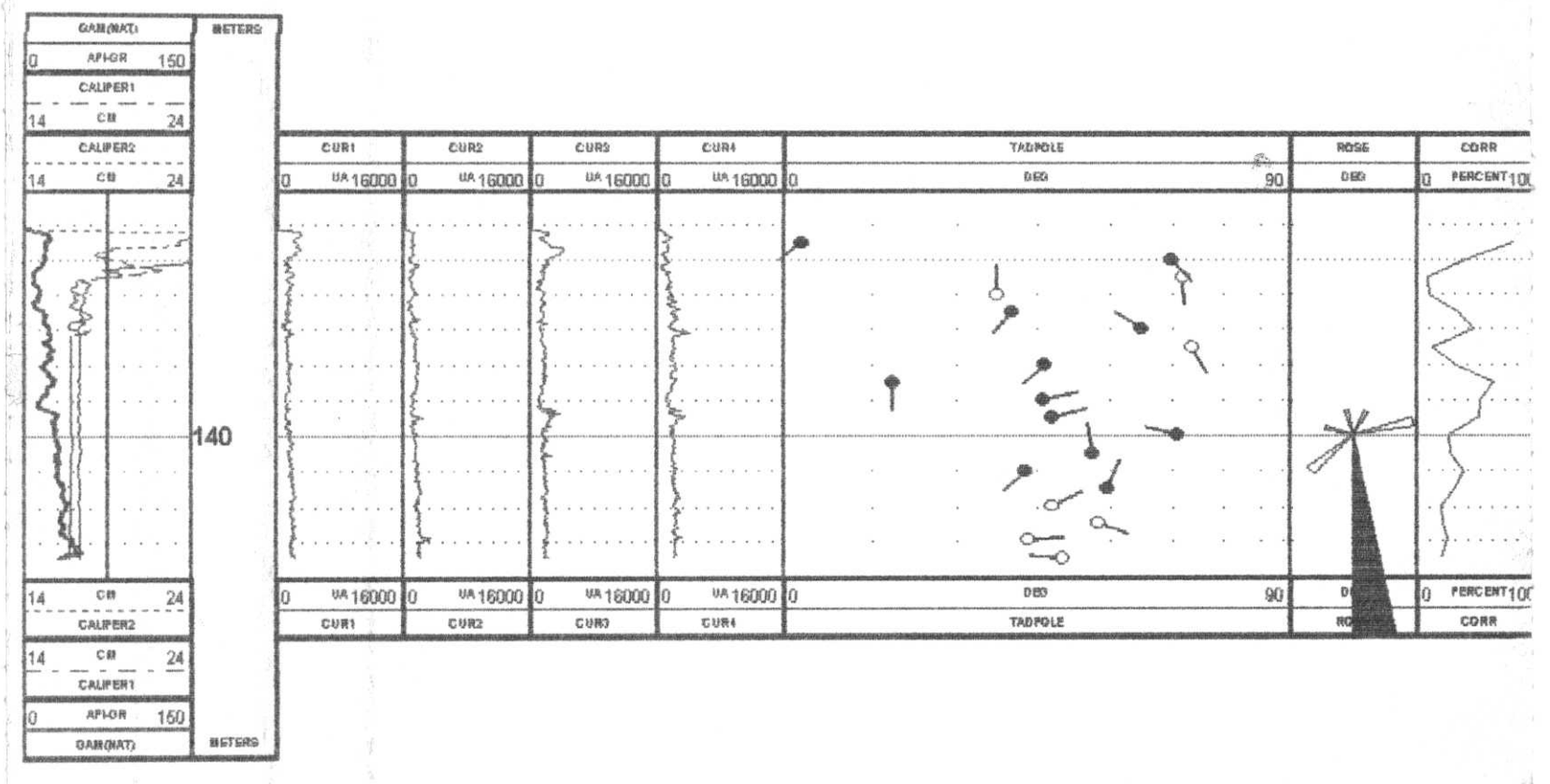
REMARKS:

#878

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

#878





CGC

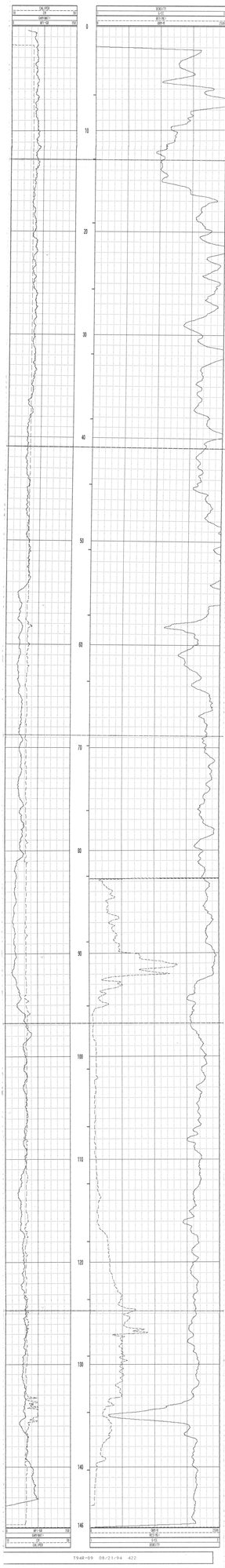
Century CORPORATION

#878

GAMMA-RES-DENSITY

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:	
WELL	: T94E-09				
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 08/21/94	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	: 146.3	ELEV. PERM. DATUM:	GL	KB	:
LOG BOTTOM	: 145.89	LOG MEASURED FROM:	GL	DF	:
LOG TOP	: 0.42	DRL MEASURED FROM:	GL	GL	:
CASING DRILLER	: 56.0	LOGGING UNIT	: 0983		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: .25	RECORDED BY	: BOND		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 25.9	RM	: @	TYPE	: 982MMA
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: @	LOG	: @
FLUID DENSITY	: 1.1	MATRIX DELTA T	: @	PLOT	: MANALTA 6
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: @	THRESH:	100000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



T94E-09 08/21/94 422

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

CLIENT : MANALTA COAL LTD. HOLE ID. : T94R-09
FIELD OFFICE : CALGARY DATE OF LOG : 08/21/94
DATA FROM : PROBE : 9055A . 255
MAG. DECL. : 25.900 DEPTH UNITS : METERS LOG 7

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
1.5	1.52	0.00	0.00	0.0	0.0	0.0	0.0
5.0	5.00	0.00	0.00	0.0	68.8	0.1	123.3
10.0	10.00	0.01	0.00	0.0	33.0	0.2	0.7
15.0	15.00	0.01	0.01	0.0	39.4	0.3	171.0
20.0	20.00	0.01	0.00	0.0	25.3	0.2	254.6
25.0	25.00	0.02	-0.01	0.0	344.0	0.3	301.5
30.0	30.00	0.04	-0.02	0.0	331.6	0.5	294.8
35.0	35.00	0.05	-0.04	0.1	324.4	0.7	217.5
40.0	40.00	0.03	-0.06	0.1	292.4	0.1	211.6
45.0	45.00	0.03	-0.08	0.1	288.4	0.5	270.5
50.0	50.00	0.04	-0.06	0.1	299.8	0.9	55.2
55.0	55.00	0.05	-0.06	0.1	307.7	0.3	317.2
60.0	60.00	0.03	-0.08	0.1	288.3	0.5	201.0
65.0	65.00	-0.00	-0.09	0.1	269.3	0.1	184.5
68.2	68.12	-0.01	-0.10	0.1	264.1	0.1	229.5

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

CLIENT : MANALTA COAL LTD. HOLE ID. : T94R-09
FIELD OFFICE : CALGARY DATE OF LOG : 08/21/94
DATA FROM : PROBE : 9055A . 255
MAG. DECL. : 25.900 DEPTH UNITS : METERS LOG 8

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
66.7	66.66	0.00	0.00	0.0	0.0	0.0	0.0
70.6	70.56	-0.01	-0.00	0.0	203.7	0.2	168.5
75.6	75.56	-0.02	-0.01	0.0	212.1	0.3	303.9
80.6	80.56	-0.03	-0.01	0.0	205.2	0.2	151.9
85.6	85.56	-0.05	-0.02	0.0	200.4	0.1	174.2
90.6	90.56	-0.05	-0.02	0.1	198.2	0.3	184.1
95.6	95.56	-0.05	-0.02	0.1	203.0	0.3	243.6
100.6	100.56	-0.06	-0.03	0.1	210.1	0.2	270.8
105.6	105.56	-0.06	-0.05	0.1	223.0	0.3	318.7
110.6	110.56	-0.02	-0.07	0.1	254.0	0.6	331.7
115.6	115.56	0.04	-0.10	0.1	293.6	1.0	346.9
120.6	120.56	0.13	-0.12	0.2	316.1	1.1	4.2
125.6	125.56	0.24	-0.15	0.3	328.5	1.3	344.9
130.6	130.55	0.38	-0.16	0.4	336.9	1.7	356.4
135.6	135.55	0.53	-0.17	0.6	342.3	1.4	353.8
140.6	140.55	0.67	-0.17	0.7	345.8	1.5	351.6
145.6	145.55	0.82	-0.18	0.8	347.8	1.7	356.8
145.8	145.75	0.83	-0.18	0.8	347.9	1.9	358.4

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

CLIENT : MANALTA COAL LTD. HOLE ID. : T94R-09
FIELD OFFICE : CALGARY DATE OF LOG : 08/21/94
DATA FROM : PROBE : 9055A . 255
MAG. DECL. : 25.900 DEPTH UNITS : METERS LOG 8

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
66.7	66.66	0.00	0.00	0.0	0.0	0.0	0.0
70.0	70.00	-0.01	-0.00	0.0	204.5	0.3	167.8
75.0	75.00	-0.02	-0.01	0.0	210.2	0.5	0.9
80.0	80.00	-0.03	-0.01	0.0	206.2	0.1	86.9
85.0	85.00	-0.04	-0.02	0.0	201.3	0.1	77.3
90.0	90.00	-0.05	-0.02	0.1	197.9	0.0	11.0
95.0	95.00	-0.05	-0.02	0.1	202.0	0.1	249.2
100.0	100.00	-0.06	-0.03	0.1	208.7	0.2	249.1
105.0	105.00	-0.06	-0.05	0.1	220.6	0.1	45.5
110.0	110.00	-0.03	-0.07	0.1	249.9	0.4	343.3
115.0	115.00	0.03	-0.09	0.1	290.0	0.9	334.3
120.0	120.00	0.12	-0.12	0.2	314.3	0.9	353.8
125.0	125.00	0.22	-0.14	0.3	327.6	1.7	350.6
130.0	129.99	0.37	-0.16	0.4	336.1	2.0	352.1
135.0	134.99	0.52	-0.17	0.5	341.9	1.8	355.3
140.0	139.99	0.65	-0.17	0.7	345.4	1.6	0.4
145.0	144.99	0.81	-0.18	0.8	347.6	2.0	356.9
145.8	145.75	0.83	-0.18	0.8	347.9	1.9	358.4

PLAN VIEW

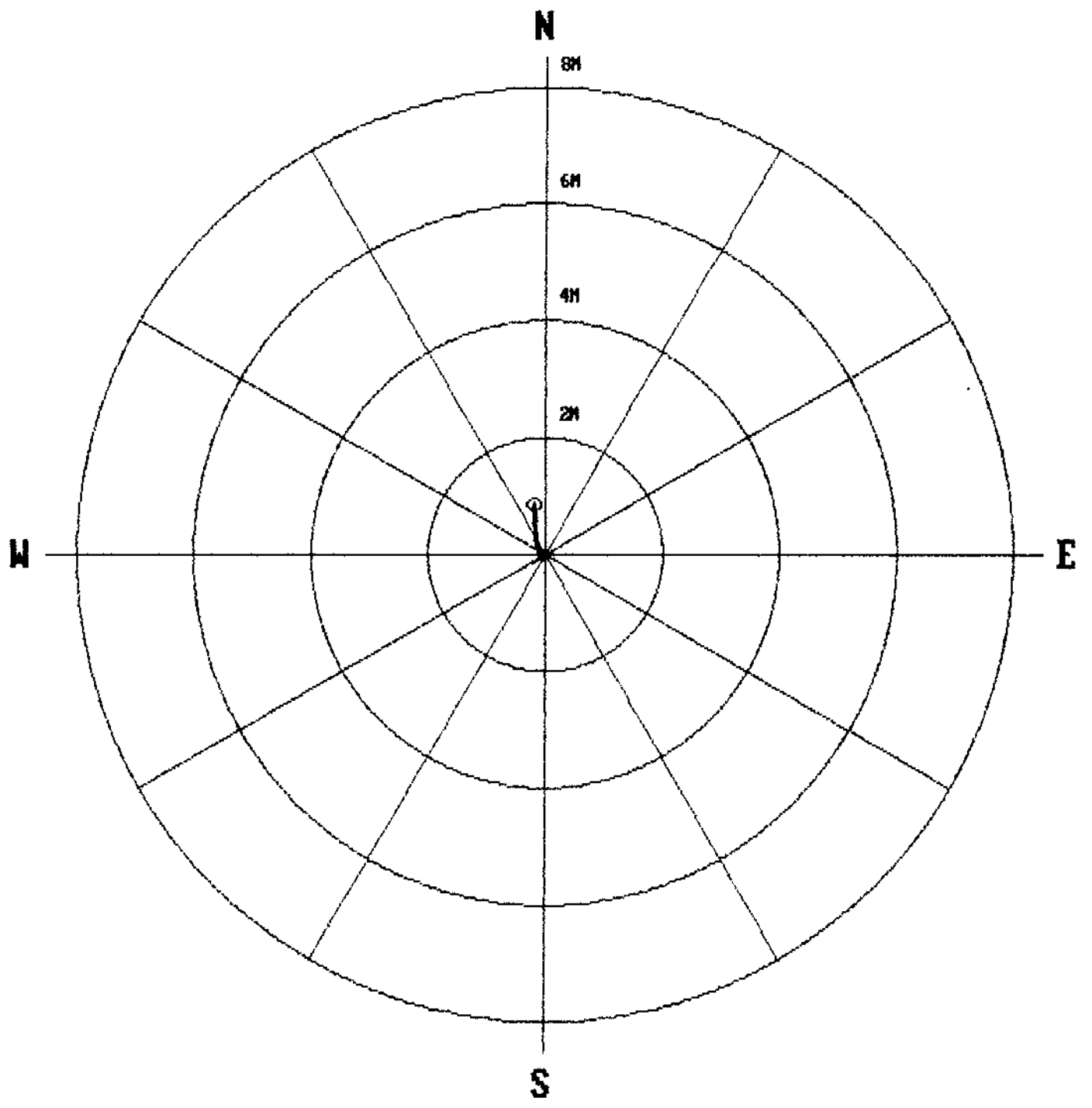
COMPU-LOG DEVIATION

#878

CLIENT: MANALTA COAL LTD.
LOCATION: TELKWA
HOLE ID: T94R-09
DATE OF LOG: 08/21/94
PROBE: 9055A 255

MAG DECL: 25.9

SCALE: 1 M/CM
TRUE DEPTH: 145.75 M
AZIMUTH: 347.9
DISTANCE: 0.8 M
+ = 100 M INCR
O = BOTTOM OF HOLE



#878

CGC

Century CORPORATION

GAMMA-RES-DENSITY

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:	
WELL	: T94R-10c				
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 08/22/94	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	: 89.6	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	: 88.00	LOG MEASURED FROM:	GL	DF	:
LOG TOP	: -0.14	DRL MEASURED FROM:	GL	GL	:
CASING DRILLER	: 6.7	LOGGING UNIT	: 8903		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS:	.25	RECORDED BY	: T. LEWYCKYJ		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 25.9	RM	: 0	TYPE	: 9030AA
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 3
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	: MANALTA 6
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH:	10000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

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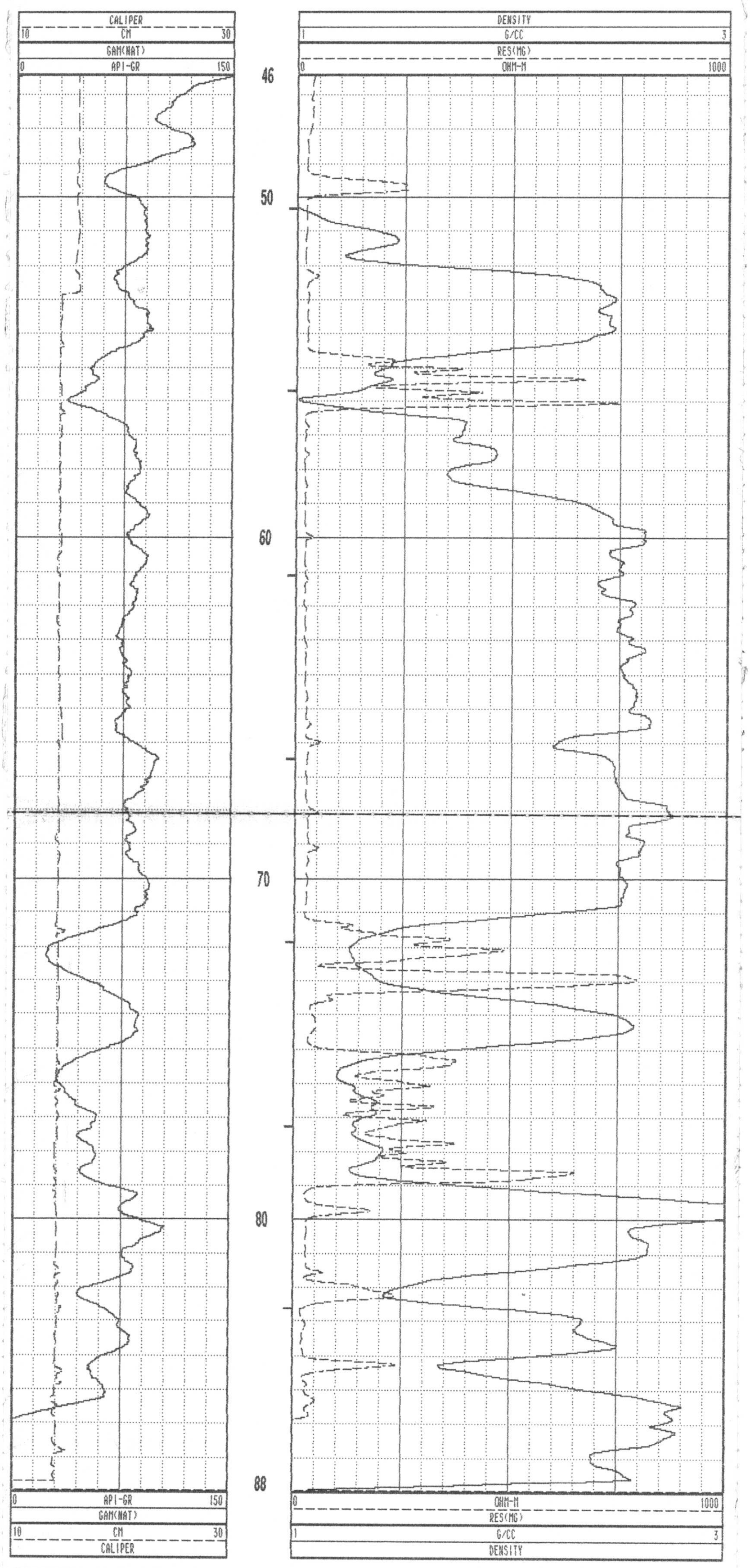


T94R-10 08/22/94 422

#878

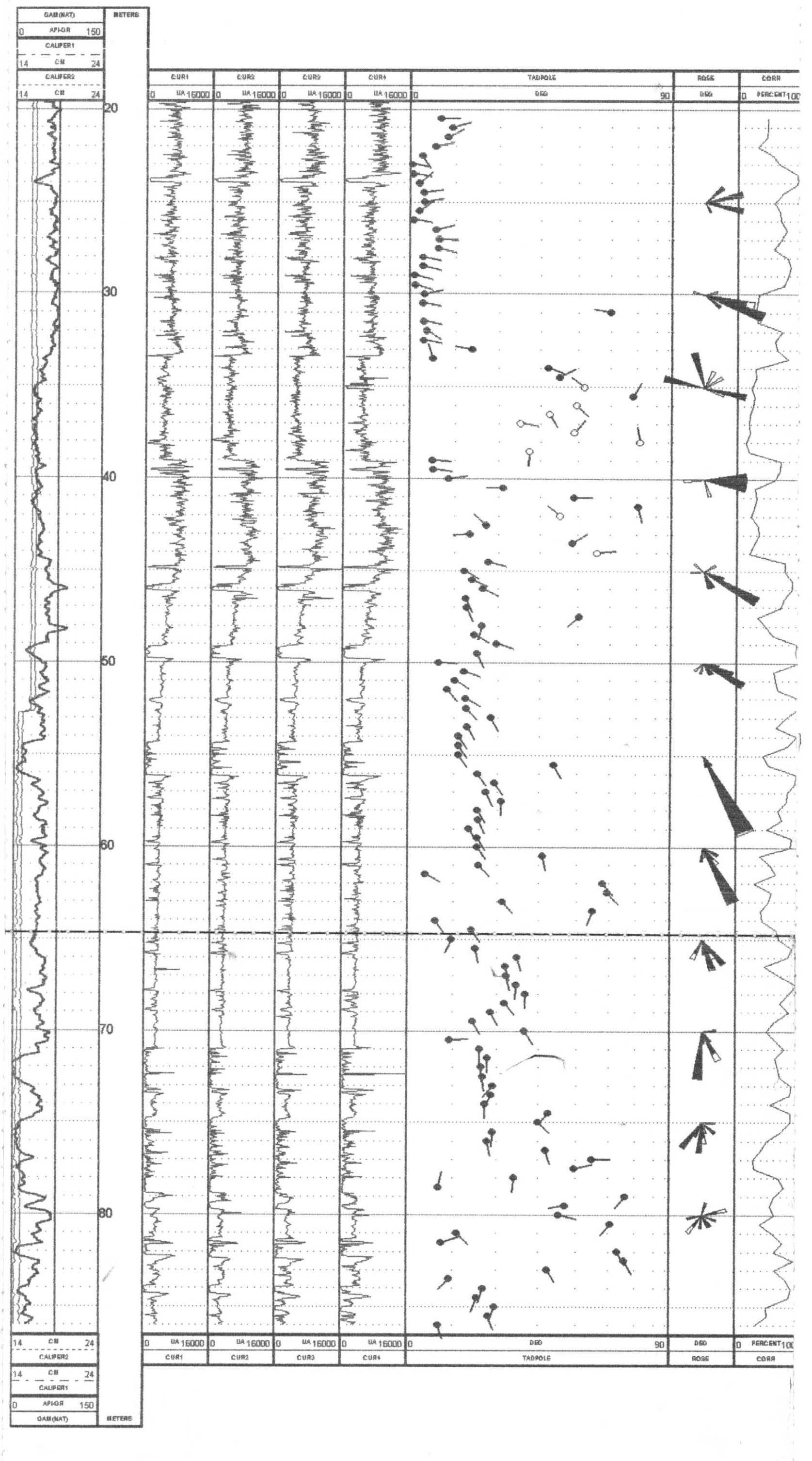
Century GEOPHYSICAL CORP.

DIPMETER

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:	
WELL	: T94R-10				
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 08/22/94	PERMANENT DATUM	: GL	ELEVATIONS:	
DEPTH DRILLER	: 89.6	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 86.00	LOG MEASURED FROM	: GL	DF	:
LOG TOP	: 19.56	DRL MEASURED FROM	: GL	GL	:
CASING DRILLER	: 6.7	LOGGING UNIT	: 8903		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: .25	RECORDED BY	: T. LEWYCKYJ		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: PROCESSED
MAGNETIC DECL.	: 25.900	RM	: 0	TYPE	: 9400A
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 7.dip
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	:
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH	: 10000

REMARKS:

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



#878

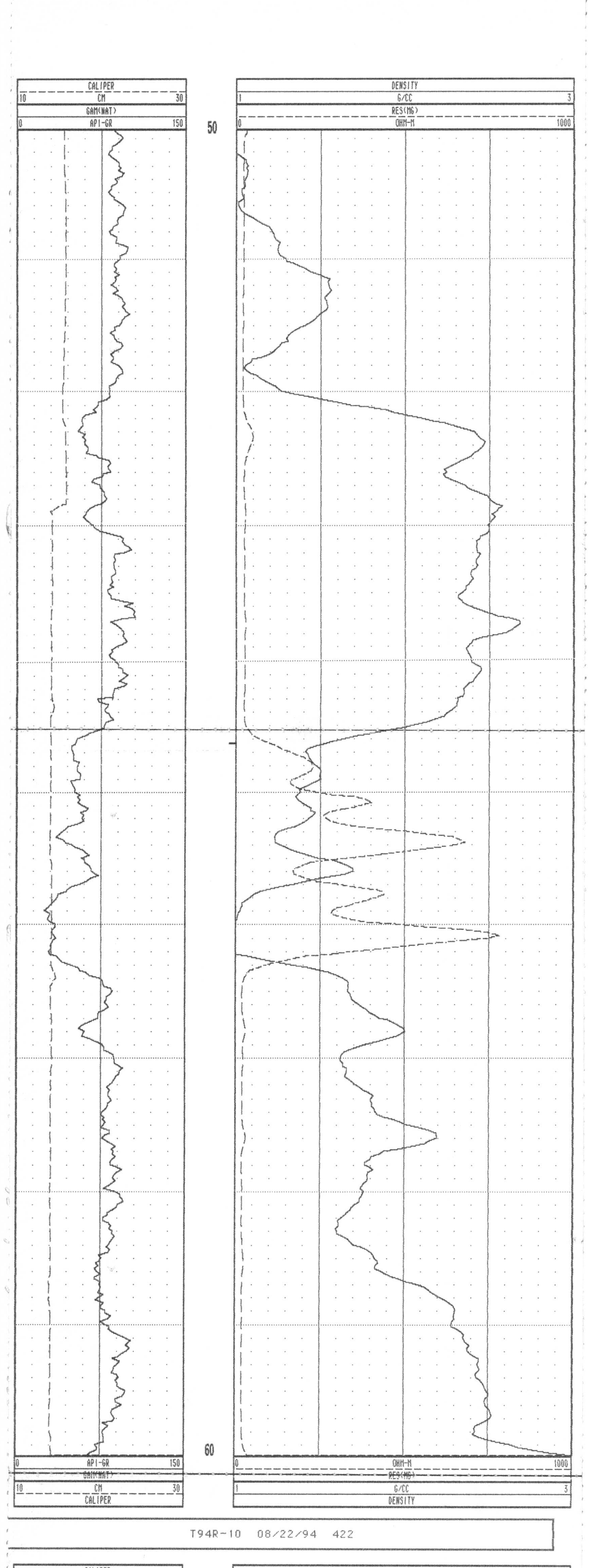
Century CORPORATION

CGC

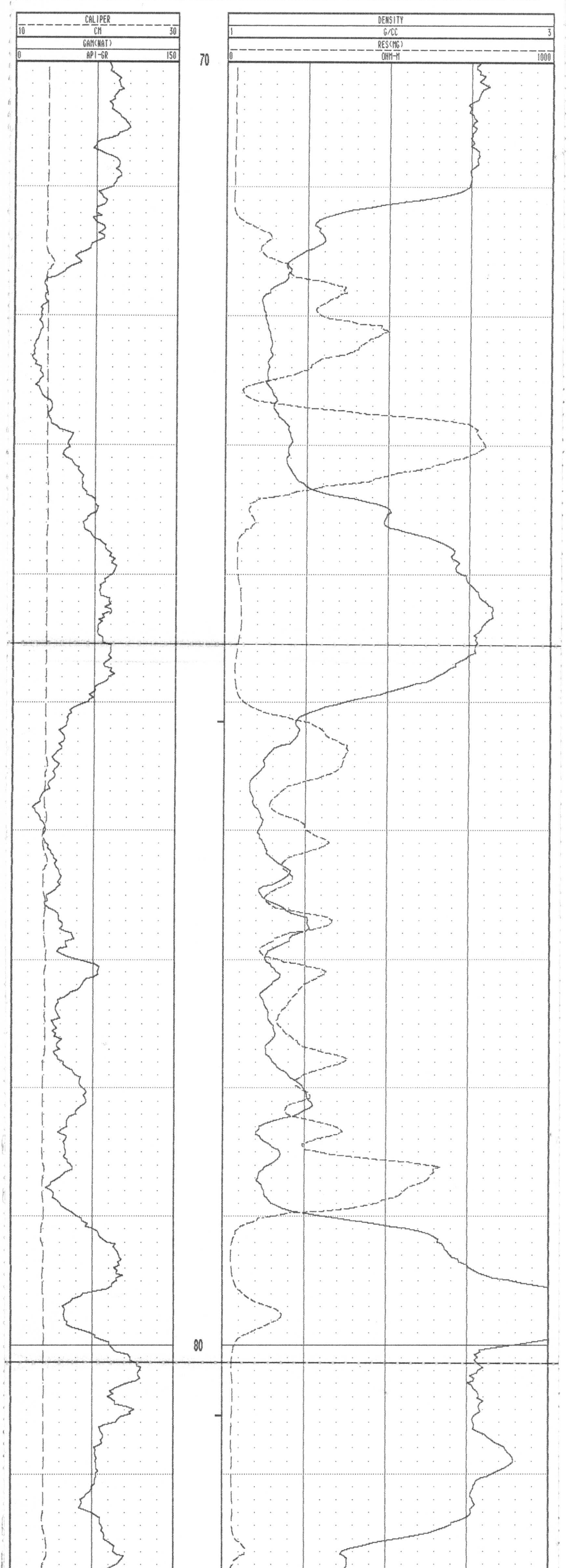
EXPANDED DENSITY

COMPANY	: MANALTA COAL LTD.	OTHER SERVICES:			
WELL	: T94R-10C				
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 08/22/94	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	: 89.6	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	: 88.00	LOG MEASURED FROM:	GL	DF	:
LOG TOP	: -0.14	DRL MEASURED FROM:	GL	GL	:
CASING DRILLER	: 6.7	LOGGING UNIT	: 8903		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: .25	RECORDED BY	: T. LEWYCKYJ		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 25.9	RM	: 0	TYPE	: 9030AA
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 3
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	: MANALTA 7
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH	: 10000
REMARKS	:				

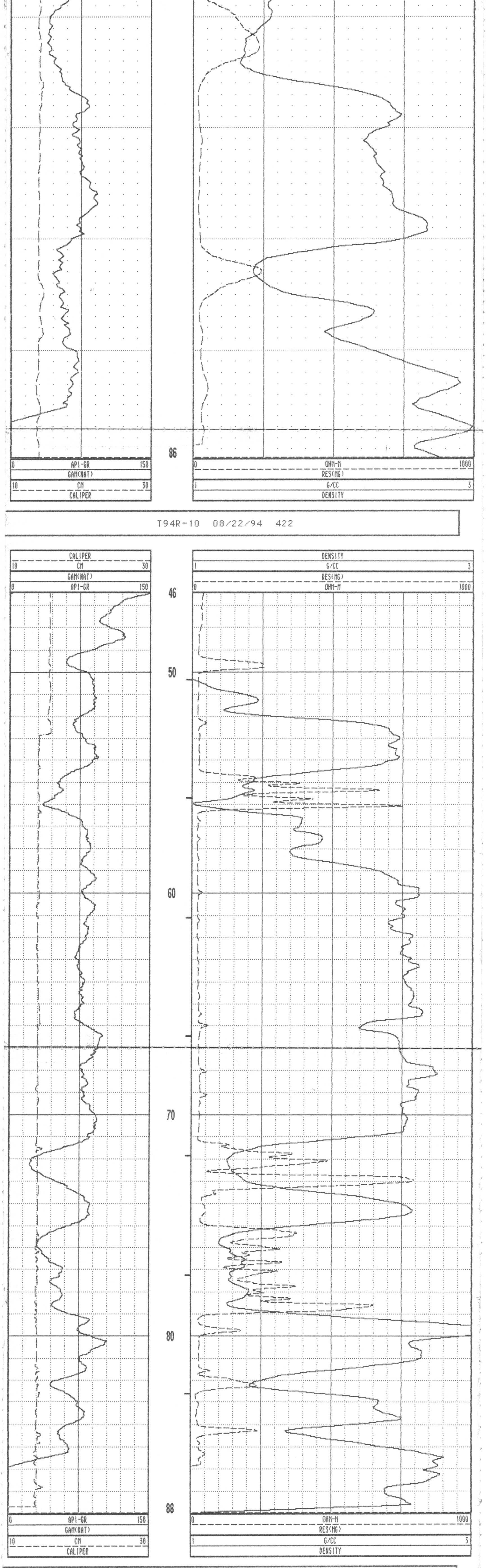
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



T94R-10 08/22/94 422



T94R-10 08/22/94 422



T94R-10 08/22/94 422

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

CLIENT : MANALTA COAL LTD.
FIELD OFFICE : CALGARY
DATA FROM :
MAG. DECL. : 25.900

HOLE ID. : T94R-10
DATE OF LOG : 08/22/94
PROBE : 9055A . 255
DEPTH UNITS : METERS LOG 2

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
17.5	17.52	0.00	0.00	0.0	0.0	0.0	0.0
21.4	21.40	0.02	-0.03	0.0	300.9	1.4	264.4
26.4	26.40	0.03	-0.10	0.1	286.9	0.9	286.1
31.4	31.40	0.07	-0.18	0.2	290.5	1.4	298.4
36.4	36.40	0.10	-0.31	0.3	288.5	1.6	284.9
41.4	41.39	0.13	-0.46	0.5	285.9	2.7	306.9
46.4	46.39	0.18	-0.66	0.7	284.9	2.8	287.6
51.4	51.38	0.25	-0.93	1.0	284.8	3.5	288.6
56.4	56.37	0.37	-1.22	1.3	287.0	3.9	296.4
61.4	61.36	0.51	-1.51	1.6	288.6	4.1	284.3
66.4	66.35	0.57	-1.84	1.9	287.3	3.9	292.8
71.4	71.34	0.72	-2.14	2.3	288.5	3.7	296.7
76.4	76.33	0.86	-2.44	2.6	289.4	4.1	292.6
81.4	81.32	1.01	-2.74	2.9	290.3	3.8	296.0
86.4	86.31	1.16	-3.02	3.2	291.0	3.6	296.0
88.6	88.52	1.23	-3.15	3.4	291.3	3.6	297.6

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

CLIENT : MANALTA COAL LTD.
FIELD OFFICE : CALGARY
DATA FROM :
MAG. DECL. : 25.900

HOLE ID. : T94R-10
DATE OF LOG : 08/22/94
PROBE : 9055A . 255
DEPTH UNITS : METERS LOG 2

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
17.5	17.52	0.00	0.00	0.0	0.0	0.0	0.0
20.0	20.00	0.01	-0.01	0.0	300.7	0.5	306.7
25.0	25.00	0.02	-0.08	0.1	287.2	0.6	262.8
30.0	30.00	0.06	-0.16	0.2	289.2	1.3	302.4
35.0	35.00	0.10	-0.27	0.3	289.8	1.5	279.2
40.0	39.99	0.12	-0.42	0.4	286.3	1.5	268.0
45.0	44.99	0.17	-0.60	0.6	285.5	2.6	276.6
50.0	49.98	0.22	-0.85	0.9	284.6	3.3	286.4
55.0	54.97	0.33	-1.14	1.2	286.2	3.5	293.7
60.0	59.96	0.48	-1.43	1.5	288.5	3.8	301.5
65.0	64.95	0.55	-1.76	1.8	287.3	3.9	275.6
70.0	69.94	0.68	-2.06	2.2	288.2	3.7	294.5
75.0	74.93	0.82	-2.36	2.5	289.2	3.6	297.6
80.0	79.92	0.97	-2.65	2.8	290.1	3.7	300.1
85.0	84.91	1.12	-2.94	3.1	290.9	3.8	302.1
88.6	88.52	1.23	-3.15	3.4	291.3	3.6	297.6

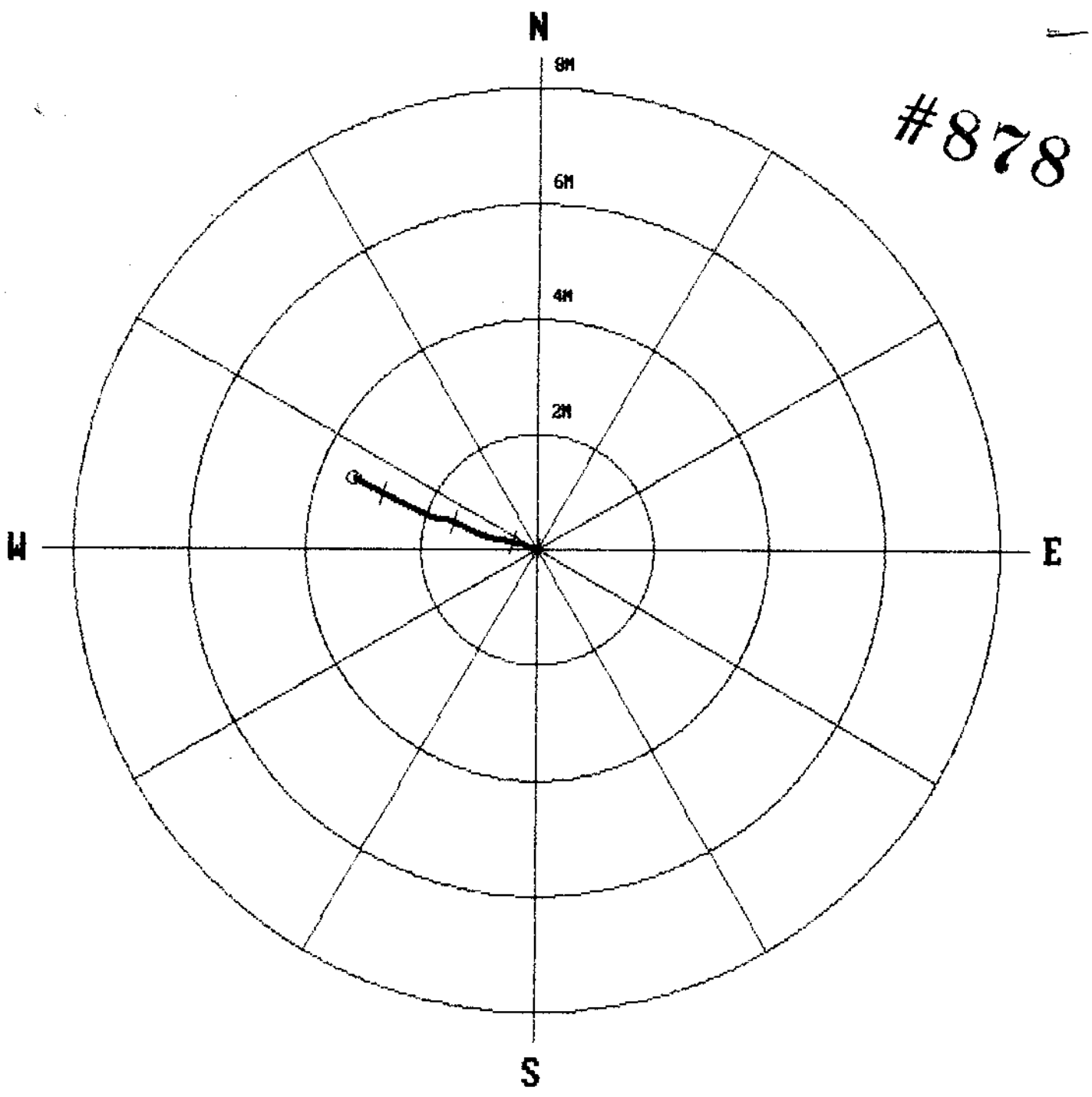
PLAN VIEW

COMPU-LOG DEVIATION

CLIENT: MANALTA COAL LTD.
LOCATION: TELKWA
HOLE ID: T94R-10
DATE OF LOG: 08/22/94
PROBE: 9055A 255

MAG DECL: 25.9

SCALE: 1 M/CM
TRUE DEPTH: 88.52 M
AZIMUTH: 291.3
DISTANCE: 3.4 M
+ = 20 M INCR
O = BOTTOM OF HOLE



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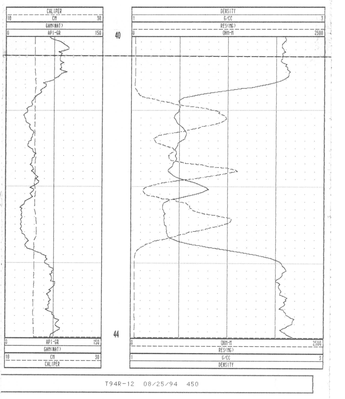
CGC

Century CORPORATION

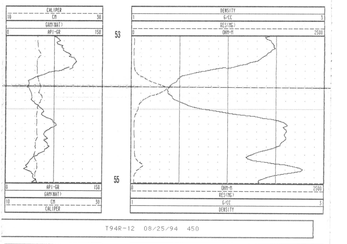
EXPANDED DENSITY

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:	
WELL	: T94R-12				
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 08/25/94	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	: 94.5	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	: 93.85	LOG MEASURED FROM:	GL	DF	:
LOG TOP	: 0.76	DRL MEASURED FROM:	GL	GL	:
CASING DRILLER	: 21.3	LOGGING UNIT	: 8983		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: .25	RECORDED BY	: T. LEWCKYJ		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 25.9	RM	: 0	TYPE	: 983000A
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 0
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	: MANALTA 7
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH:	10000
REMARKS	:				

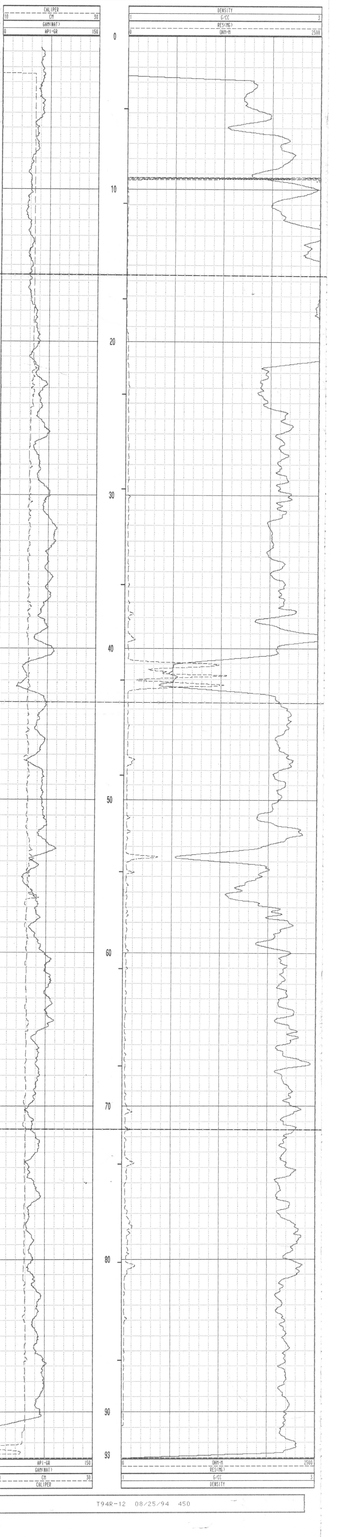
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



T94R-12 08/25/94 450



T94R-12 08/25/94 450



T94R-12 08/25/94 450

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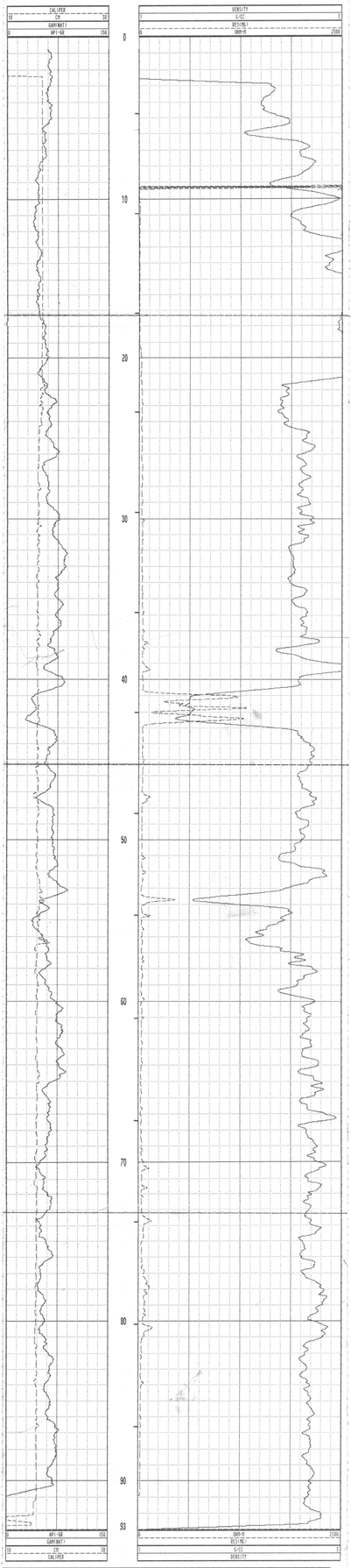
CGC

Century CORPORATION

GAMMA-RES-DENSITY

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:	
WELL	: T94R-12				
LOCATION/FIELD	: TELMA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 08/25/94	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	: 94.5	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 93.85	LOG MEASURED FROM	: GL	DF	:
LOG TOP	: 8.76	DRL MEASURED FROM	: GL	GL	:
CASING DRILLER	: 21.3	LOGGING UNIT	: 0903		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: .25	RECORDED BY	: T. LEWYCKYJ		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 25.9	RM	: 0	TYPE	: 983BAA
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 0
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	: MANALTA 6
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH:	18000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



T94R-12 08/25/94 450

Century GEOPHYSICAL CORP.

DIPMETER

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:	
WELL	: T94R-12				
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 08/23/94	PERMANENT DATUM	: GL	ELEVATIONS:	
DEPTH DRILLER	: 94.5	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 42.50	LOG MEASURED FROM	: GL	DF	:
LOG TOP	: 28.31	DRL MEASURED FROM	: GL	GL	:
CASING DRILLER	: 21.3	LOGGING UNIT	: 8903		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: .25	RECORDED BY	: T. LEWYCKYJ		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: PROCESSED
MAGNETIC DECL.	: 25.900	RM	: 0	TYPE	: 9400A
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 2.dip
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	:
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH:	10000

REMARKS:

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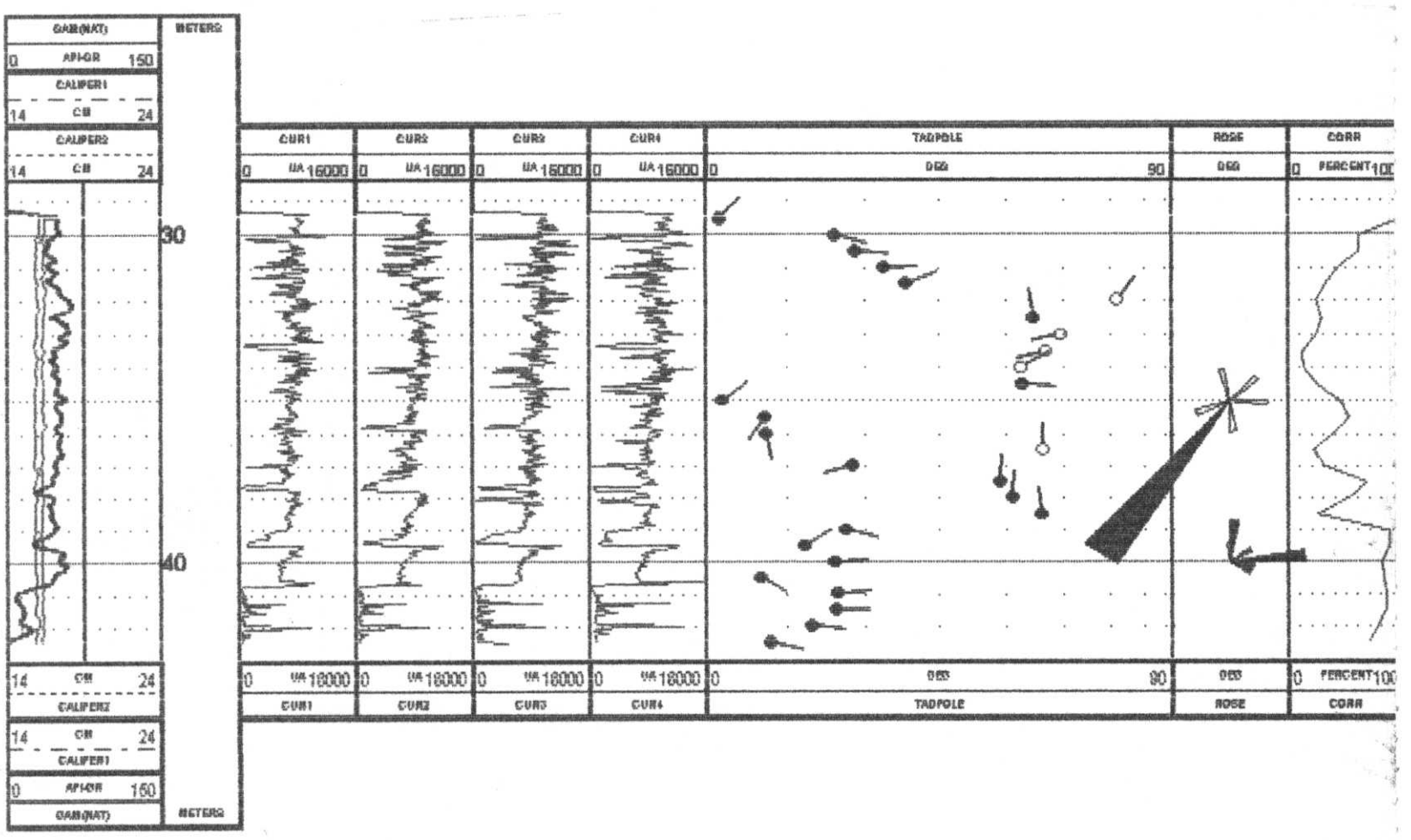
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



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

CLIENT : MANALTA COAL LTD.
FIELD OFFICE : CALGARY
DATA FROM :
MAG. DECL. : 25.900

HOLE ID. : T94R-12
DATE OF LOG : 08/23/94
PROBE : 9055A , 255
DEPTH UNITS : METERS LOG 8

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
33.3	33.30	0.00	0.00	0.0	0.0	0.0	0.0
37.1	37.12	-0.09	-0.05	0.1	211.0	1.9	211.1
42.1	42.12	-0.23	-0.15	0.3	213.5	2.3	216.3
47.1	47.11	-0.40	-0.31	0.5	217.7	2.5	235.6
52.1	52.10	-0.60	-0.50	0.8	220.0	3.8	222.3
57.1	57.09	-0.83	-0.72	1.1	221.0	3.9	223.8
62.1	62.08	-1.03	-0.99	1.4	224.0	4.5	252.3
67.1	67.06	-1.22	-1.34	1.8	227.7	4.5	228.8
72.1	72.05	-1.43	-1.70	2.2	229.9	4.6	237.6
77.1	77.03	-1.63	-2.06	2.6	231.8	5.1	242.2
82.1	82.01	-1.83	-2.44	3.1	233.2	5.2	243.2
87.1	86.99	-2.03	-2.86	3.5	234.5	5.6	248.8
92.1	91.96	-2.25	-3.32	4.0	235.9	5.8	243.6
93.4	93.22	-2.31	-3.43	4.1	236.1	6.0	249.2

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

CLIENT : MANALTA COAL LTD.
FIELD OFFICE : CALGARY
DATA FROM :
MAG. DECL. : 25.900

HOLE ID. : T94R-12
DATE OF LOG : 08/23/94
PROBE : 9055A , 255
DEPTH UNITS : METERS LOG 8

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
33.3	33.30	0.00	0.00	0.0	0.0	0.0	0.0
35.0	35.00	-0.04	-0.02	0.0	209.0	1.3	207.2
40.0	40.00	-0.17	-0.10	0.2	211.9	2.1	206.4
45.0	44.99	-0.33	-0.24	0.4	216.0	2.5	222.6
50.0	49.99	-0.51	-0.41	0.7	218.9	3.2	220.5
55.0	54.98	-0.73	-0.63	1.0	220.8	3.5	221.0
60.0	59.97	-0.96	-0.86	1.3	221.7	4.8	249.0
65.0	64.95	-1.14	-1.19	1.6	226.3	4.7	245.7
70.0	69.93	-1.34	-1.54	2.0	229.0	4.8	239.1
75.0	74.92	-1.54	-1.90	2.4	231.1	4.9	245.8
80.0	79.90	-1.74	-2.28	2.9	232.6	5.1	247.5
85.0	84.88	-1.94	-2.68	3.3	234.0	5.6	238.6
90.0	89.85	-2.16	-3.11	3.8	235.2	5.5	235.1
93.4	93.22	-2.31	-3.43	4.1	236.1	6.0	249.2

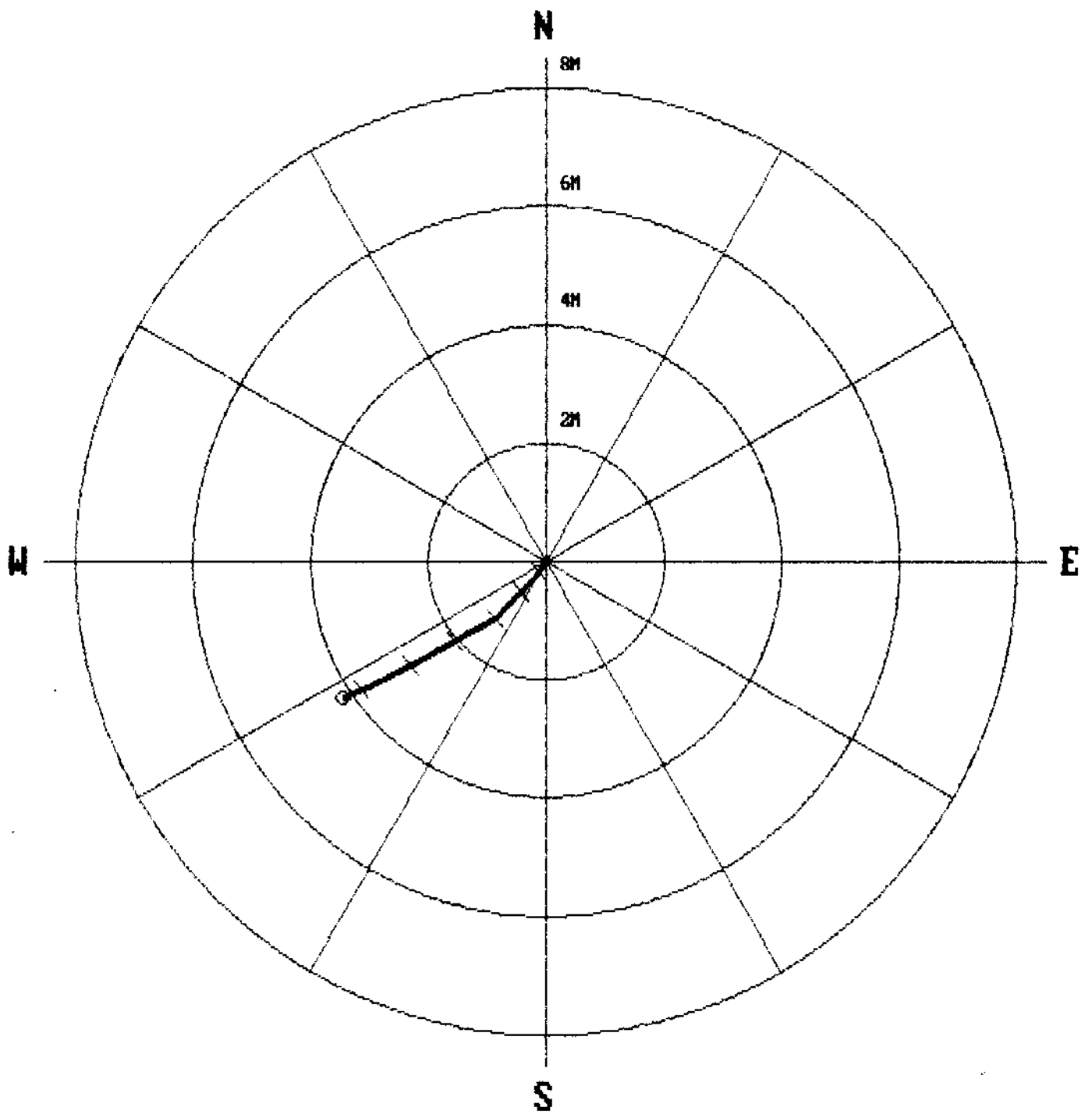
PLAN VIEW

COMPU-LOG DEVIATION

CLIENT: MANALTA COAL LTD.
LOCATION: TELKWA
HOLE ID: T94R-12
DATE OF LOG: 08/23/94
PROBE: 9055A 255

MAG DECL: 25.9

SCALE: 1 M/CM
TRUE DEPTH: 93.22 M
AZIMUTH: 236.1
DISTANCE: 4.1 M
+ = 10 M INCR
○ = BOTTOM OF HOLE



#878

CGC

Century CORPORATION

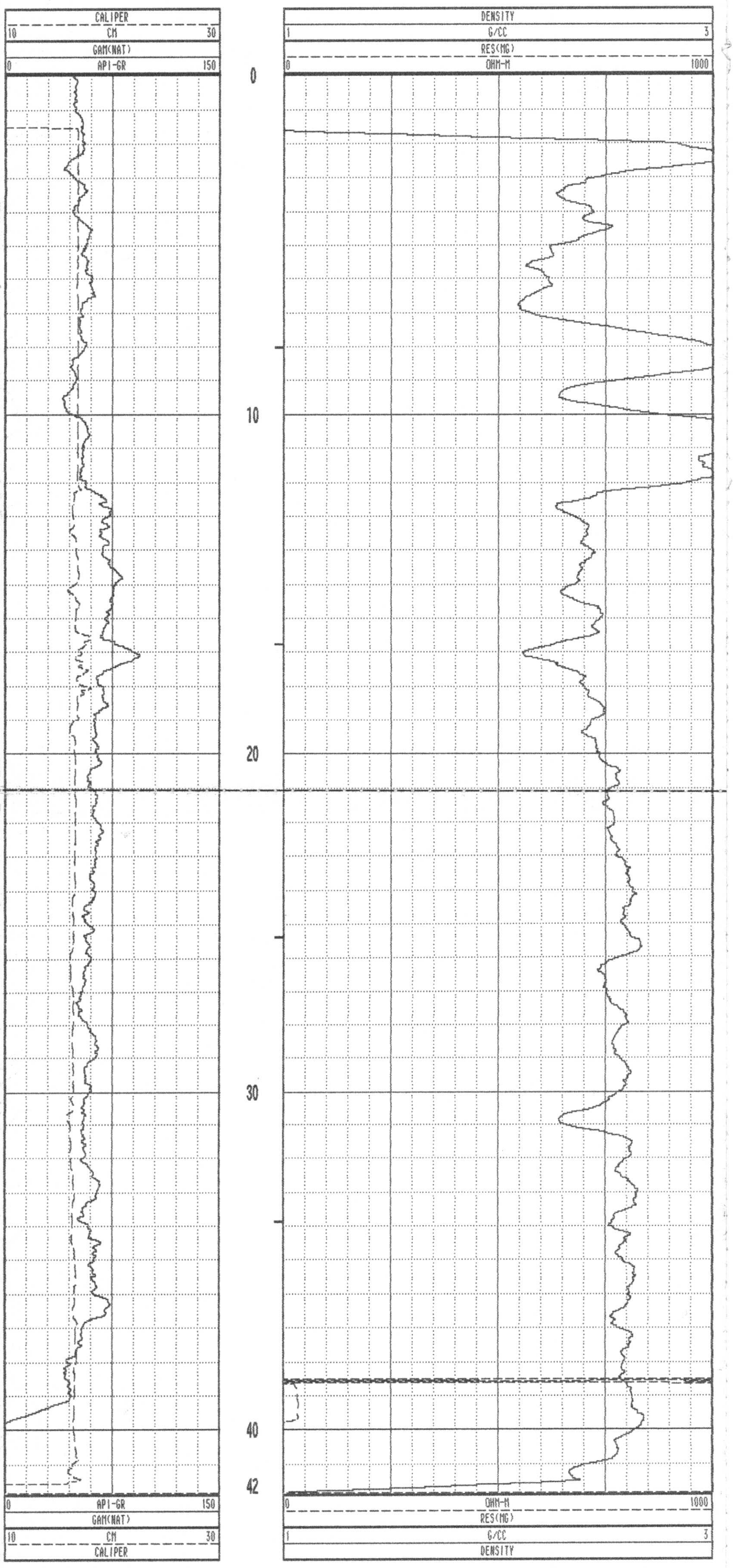
GAMMA-RES-DENSITY

COMPANY	: MANALTA COAL LTD.		
WELL	: T94R-13		
LOCATION/FIELD	: TELKWA		
COUNTY	:		
STATE	:		
SECTION	:	TOWNSHIP :	RANGE :

OTHER SERVICES:

DATE	: 08/23/94	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	: 42	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 41.89	LOG MEASURED FROM	: GL	DF	:
LOG TOP	: -0.40	DRL MEASURED FROM	: GL	GL	:
CASING DRILLER	: 12	LOGGING UNIT	: 8903		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: .25	RECORDED BY	: BOND		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 25.9	RM	: 0	TYPE	: 9030AA
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 0
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	: MANALTA 6
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH	: 10000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



T94R-11 08/23/94 422

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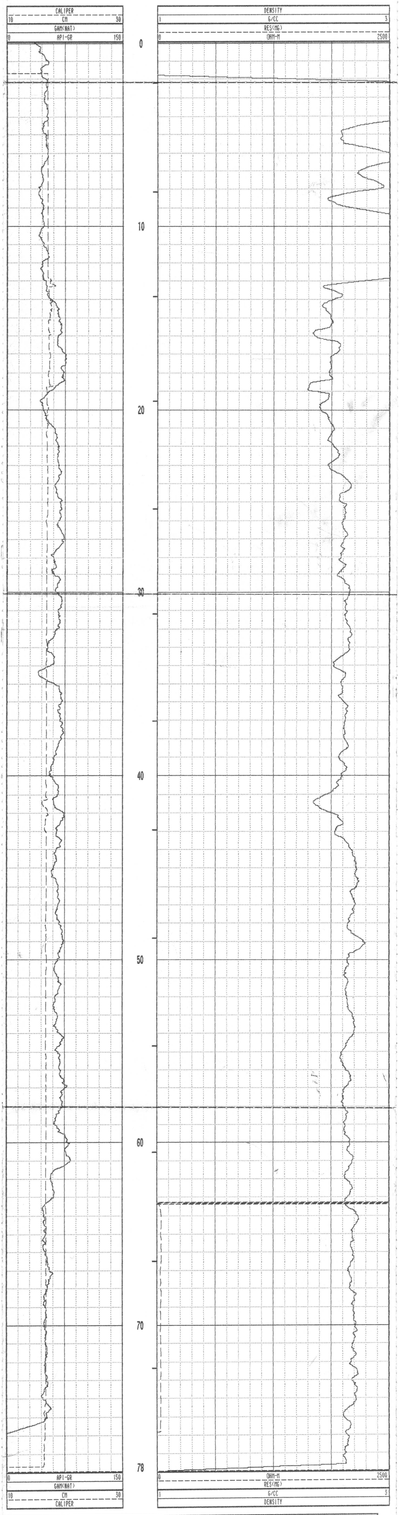
CGC

Century CORPORATION

GAMMA-RES-DENSITY

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:	
WELL	: T94R-17				
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 08/26/94	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	: 88.6	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	: 77.99	LOG MEASURED FROM:	GL	DF	:
LOG TOP	: 0.00	DRL MEASURED FROM:	GL	GL	:
CASING DRILLER	: 12.2	LOGGING UNIT	: 8903		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: .25	RECORDED BY	: T. LENYCKYJ		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 25.9	RM	: 0	TYPE	: 9030AA
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 1
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	: MANALTA 6
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH:	10000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



T94R-17 08/26/94 450

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CGC

Century CORPORATION

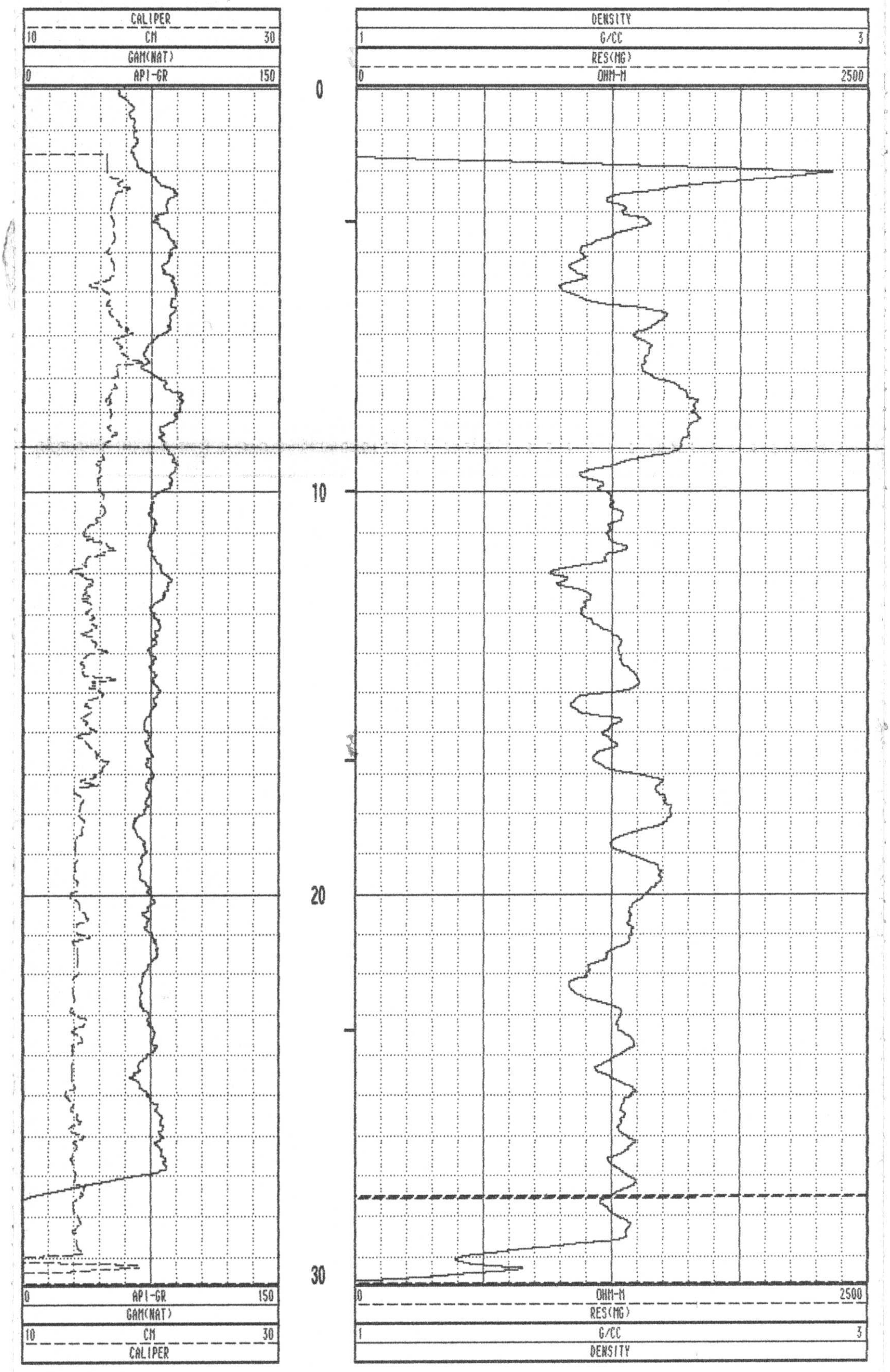
GAMMA-RES-DENSITY

COMPANY	: MANALTA COAL LTD.		
WELL	: T94R-18		
LOCATION/FIELD	: TELKWA		
COUNTY	:		
STATE	:		
SECTION	:	TOWNSHIP :	RANGE :

OTHER SERVICES:

DATE	: 08/27/94	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	: 112	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 29.67	LOG MEASURED FROM	: GL	DF	:
LOG TOP	: -0.42	DRL MEASURED FROM	: GL	GL	:
CASING DRILLER	: 2.1	LOGGING UNIT	: 8903		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: .25	RECORDED BY	: T. LEWYCKYJ		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 25.9	RM	: 0	TYPE	: 9030AA
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 6
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	: MANALTA 6
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH	: 10000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



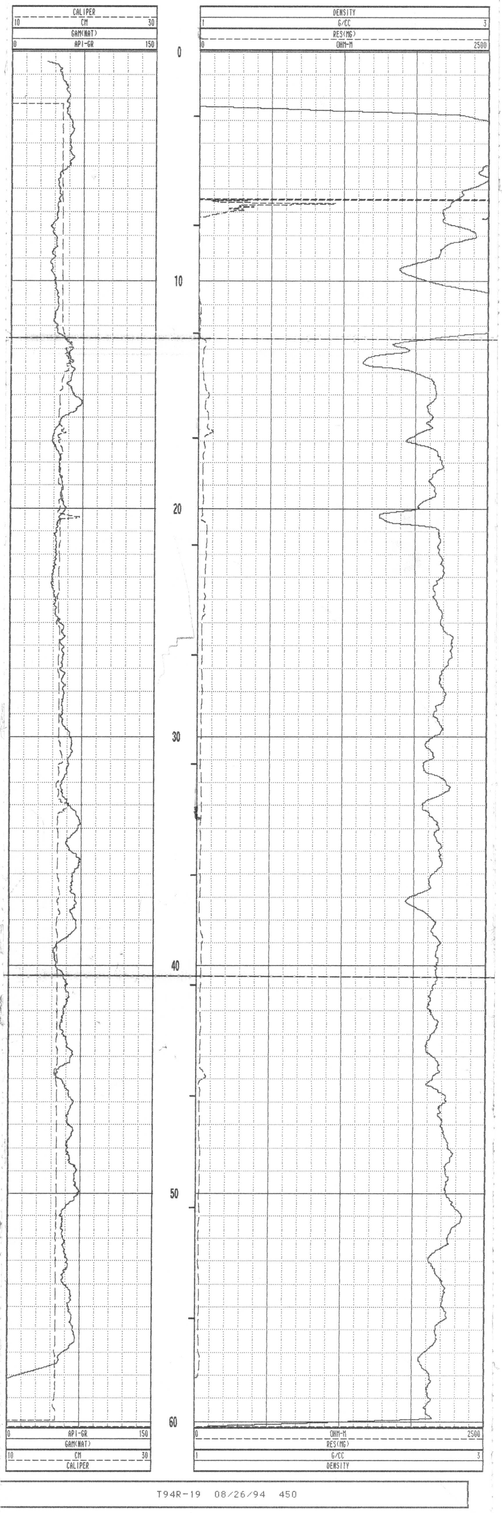
T94R-18 08/27/94 450

#878

GAMMA-RES-DENSITY

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:	
WELL	: T94R-19				
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 08/26/94	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	: 61.8	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 60.26	LOG MEASURED FROM	: GL	DF	:
LOG TOP	: 0.44	DRL MEASURED FROM	: GL	GL	:
CASING DRILLER	: 12.2	LOGGING UNIT	: 8983		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: .25	RECORDED BY	: T. LEWYCKYJ		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 25.9	RM	: 0	TYPE	: 9030AA
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 2
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	: MANALTA 6
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH:	10000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



T94R-19 08/26/94 450

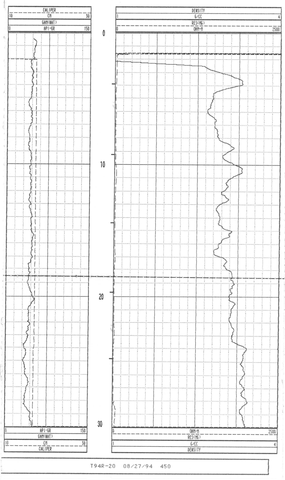
#878

Century CORPORATION

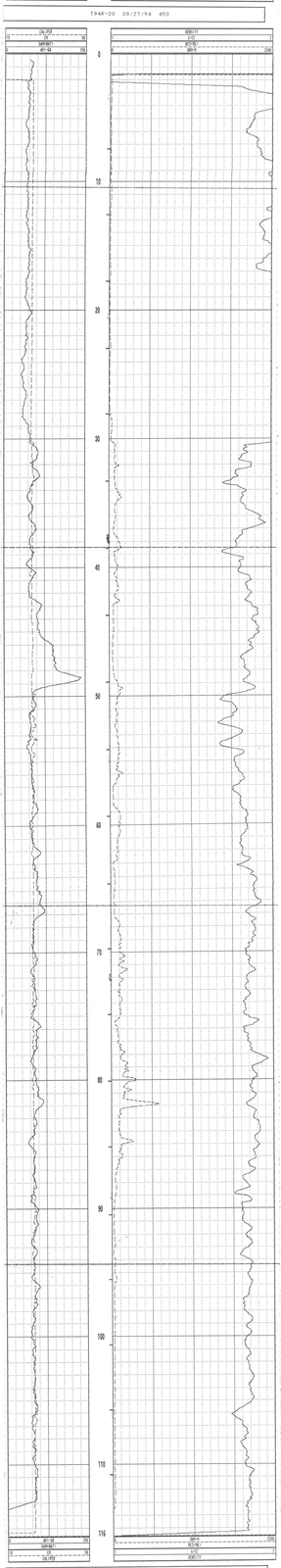
GAMMA-RES-DENSITY

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:	
WELL	: T948-28				
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 08/27/94	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	: 117.1	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	: 115.62	LOG MEASURED FROM:	GL	DF	:
LOG TOP	: 0.50	DRL MEASURED FROM:	GL	GL	:
CASING DRILLER	: 30.0	LOGGING UNIT	: GWG3		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: .25	RECORDED BY	: T. LISKICKYJ		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 25.9	RM	: @	TYPE	: 9020WA
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: @	LOG	: 4
FLUID DENSITY	: 1.1	MATRIX DELTA T	: @	PLOT	: MANALTA 6
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: @	THRESH	: 1000N
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



T948-20 08/27/94 450



T948-20 08/27/94 450

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

CLIENT : MANALTA COAL LTD.
FIELD OFFICE : CALGARY
DATA FROM :
MAG. DECL. : 25.900

HOLE ID. : T94R-20
DATE OF LOG : 08/27/94
PROBE : 9400A . 367
DEPTH UNITS : METERS LOG 8

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
41.6	41.58	-0.00	0.00	0.0	113.9	0.8	111.7
46.6	46.57	-0.04	0.05	0.1	126.8	0.9	157.2
51.6	51.57	-0.08	0.11	0.1	124.6	0.7	140.4
56.6	56.57	-0.09	0.18	0.2	117.3	0.8	77.6
61.6	61.57	-0.07	0.26	0.3	104.8	0.8	72.4
66.6	66.57	-0.04	0.33	0.3	97.0	0.9	71.3
71.6	71.57	-0.02	0.40	0.4	92.3	0.9	61.2
76.6	76.57	0.02	0.47	0.5	87.4	0.6	29.7
81.6	81.57	0.04	0.50	0.5	85.5	0.4	69.7
86.6	86.57	0.05	0.54	0.5	84.3	0.3	45.0
91.6	91.57	0.05	0.56	0.6	84.8	0.0	154.6
96.6	96.57	0.05	0.57	0.6	85.4	0.4	122.1
101.6	101.56	0.04	0.57	0.6	85.7	0.3	172.9
106.6	106.56	0.04	0.56	0.6	85.5	0.3	7.8
111.6	111.56	0.04	0.55	0.5	85.9	0.2	260.1
114.1	114.08	0.05	0.54	0.5	85.0	0.3	336.0

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

CLIENT : MANALTA COAL LTD.
FIELD OFFICE : CALGARY
DATA FROM :
MAG. DECL. : 25.900

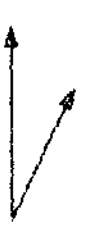
HOLE ID. : T94R-20
DATE OF LOG : 08/27/94
PROBE : 9400A . 367
DEPTH UNITS : METERS LOG 8

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
41.6	41.57	-0.00	0.00	0.0	116.3	0.7	116.3
45.0	45.00	-0.03	0.03	0.0	131.8	0.6	107.8
50.0	50.00	-0.07	0.09	0.1	127.7	0.9	91.6
55.0	55.00	-0.10	0.16	0.2	121.2	0.6	88.3
60.0	60.00	-0.08	0.24	0.3	107.7	0.7	84.6
65.0	65.00	-0.06	0.31	0.3	100.0	1.0	53.3
70.0	70.00	-0.03	0.38	0.4	94.3	0.9	70.8
75.0	75.00	0.01	0.45	0.5	88.5	0.8	60.4
80.0	80.00	0.03	0.49	0.5	86.4	0.6	26.6
85.0	85.00	0.04	0.53	0.5	85.3	0.5	47.6
90.0	90.00	0.06	0.55	0.6	83.7	0.4	112.7
95.0	95.00	0.05	0.56	0.6	84.6	0.5	121.9
100.0	100.00	0.05	0.57	0.6	85.1	0.1	309.2
105.0	104.99	0.04	0.56	0.6	85.8	0.1	59.5
110.0	109.99	0.04	0.55	0.6	85.4	0.4	175.2
114.1	114.08	0.05	0.54	0.5	85.0	0.3	336.0

PLAN VIEW

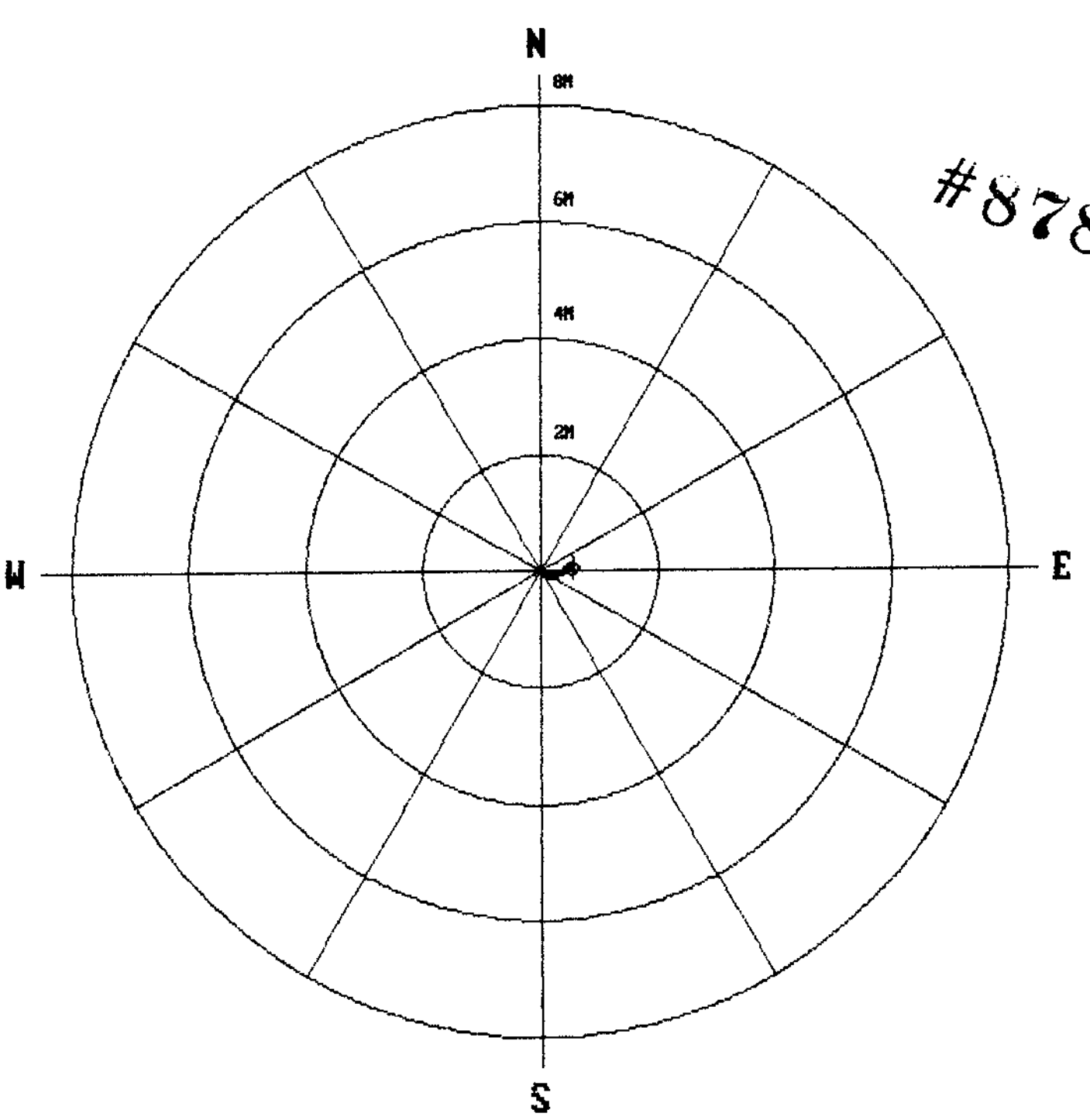
COMPU-LOG DEVIATION

CLIENT: MANALTA COAL LTD.
LOCATION: TELKWA
HOLE ID: T94R-20
DATE OF LOG: 08/27/94
PROBE: 9400A 367



MAG DECL: 25.9

SCALE: 1 M/CM
TRUE DEPTH: 114.09 M
AZIMUTH: 85.0
DISTANCE: 0.5 M
+ = 100 M INCR
○ = BOTTOM OF HOLE



#878

Century GEOPHYSICAL CORP.

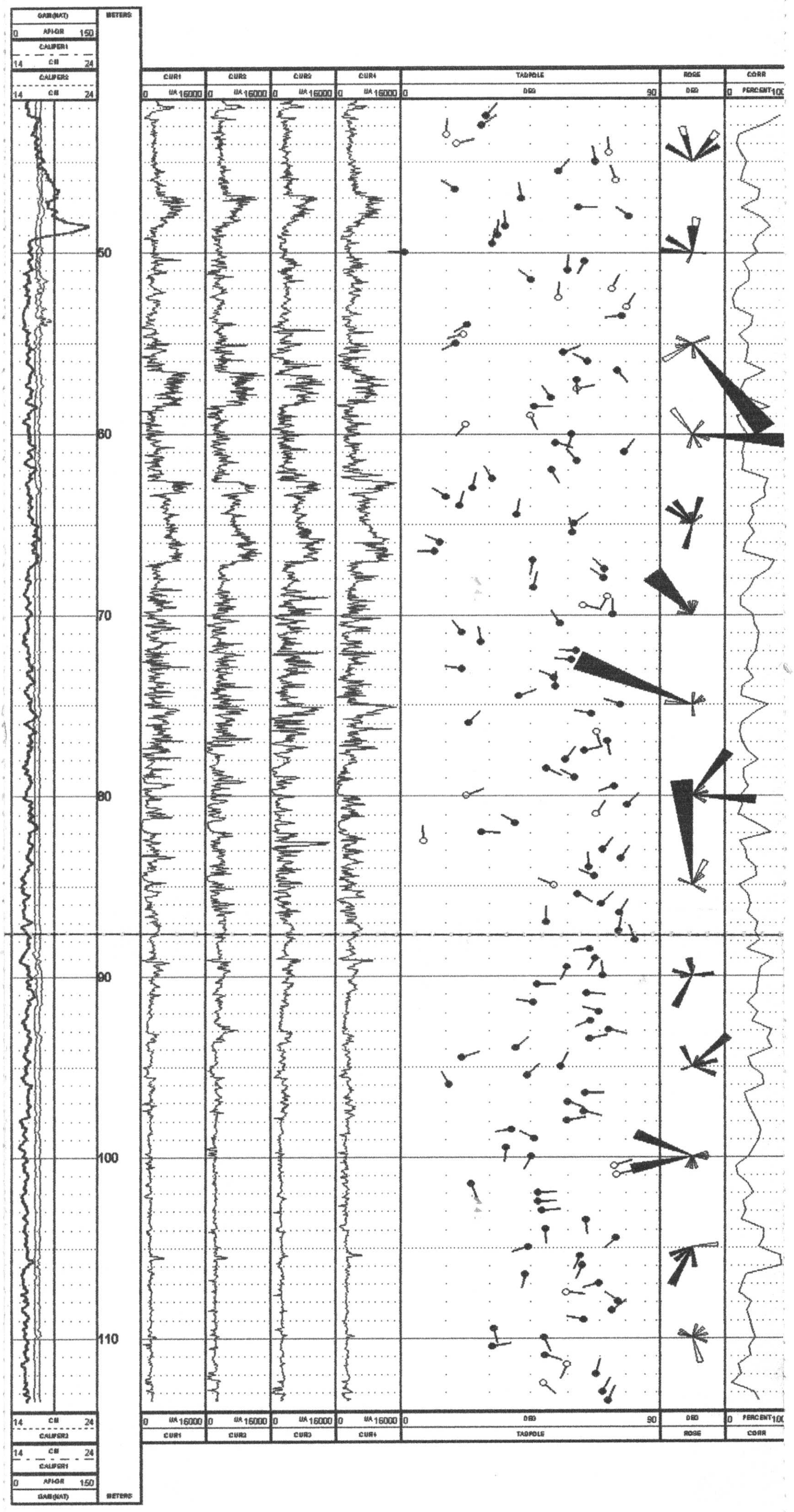
DIPMETER

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:	
WELL	: T94R-20				
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 08/27/94	PERMANENT DATUM	: GL	ELEVATIONS:	
DEPTH DRILLER	: 117.1	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 113.50	LOG MEASURED FROM	: GL	DF	:
LOG TOP	: 41.57	DRL MEASURED FROM	: GL	GL	:
CASING DRILLER	: 30.0	LOGGING UNIT	: 8903		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: .25	RECORDED BY	: T. LEWYCKYJ		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: PROCESSED
MAGNETIC DECL.	: 25.900	RM	: 0	TYPE	: 9400A
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 7.dip
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	: diptest.
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH	: 10000

REMARKS:

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

#878



#878

CGC

Century Corporation

GAMMA-RES-DENSITY

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:	
WELL	: T94R-23				
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 08/30/94	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	: 158	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 157.13	LOG MEASURED FROM	: GL	DF	:
LOG TOP	: 0.92	DRL MEASURED FROM	: GL	GL	:
CASING DRILLER	: 12.0	LOGGING UNIT	: 8903		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: .25	RECORDED BY	: T. LEWYCKYJ		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 25.9	RM	: 0	TYPE	: 9030AA
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 2
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	: MANALTA 6
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH	: 10000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

T94R-23 08/30/94 450

#878

Century Corporation (CGC)

EXPANDED DENSITY

COMPANY	: MANALTA COAL LTD.	OTHER SERVICES:			
WELL	: T94R-23				
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 08/30/94	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	: 158	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 157.13	LOG MEASURED FROM	: GL	DF	:
LOG TOP	: 0.92	DRL MEASURED FROM	: GL	GL	:
CASING DRILLER	: 12.0	LOGGING UNIT	: 8903		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: .25	RECORDED BY	: T. LEWYCKYJ		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 25.9	RM	: 0	TYPE	: 9030AA
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 2
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	: MANALTA 7
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH	: 10000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

T94R-23 08/30/94 450

Century GEOPHYSICAL CORP.

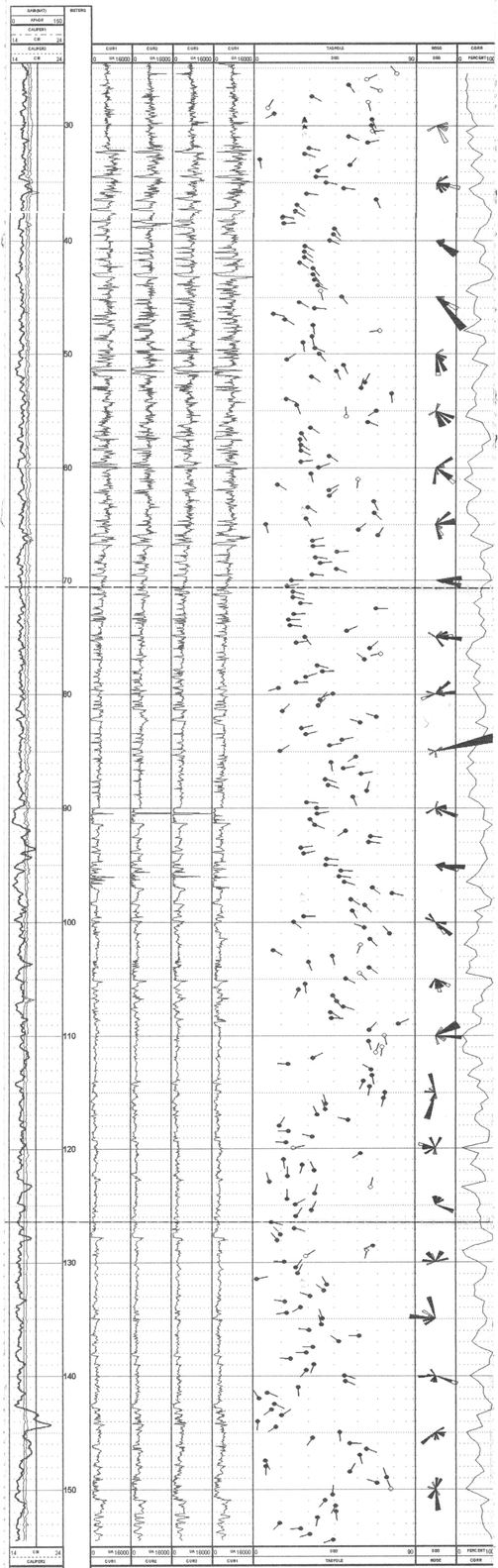
DIPMETER

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:	
WELL	: T94R-23				
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 08/30/94	PERMANENT DATUM	: GL	ELEVATIONS:	
DEPTH DRILLER	: 158	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 154.50	LOG MEASURED FROM:	GL	DF	:
LOG TOP	: 24.54	DRL MEASURED FROM:	GL	GL	:
CASING DRILLER	: 12.0	LOGGING UNIT	: 8903		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS:	.25	RECORDED BY	: T. LEWYCKYJ		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: PROCESSED
MAGNETIC DECL.	: 25.900	RM	: 0	TYPE	: 9400A
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 4.dip
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	:
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH:	10000

REMARKS:

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

#678



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

CLIENT : MANALTA COAL LTD.
FIELD OFFICE : CALGARY
DATA FROM :
MAG. DECL. : 25.900

HOLE ID. : T94R-23
DATE OF LOG : 08/30/94
PROBE : 9400A . 367
DEPTH UNITS : METERS LOG 5

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
24.5	24.54	-0.00	-0.00	0.0	230.6	1.6	230.6
29.5	29.54	-0.09	-0.11	0.1	232.6	1.4	228.9
34.5	34.54	-0.16	-0.24	0.3	236.2	2.0	240.6
39.5	39.53	-0.21	-0.37	0.4	240.3	1.5	243.0
44.5	44.53	-0.23	-0.51	0.6	246.0	1.5	273.5
49.5	49.53	-0.21	-0.67	0.7	252.8	2.1	292.2
54.5	54.53	-0.16	-0.81	0.8	258.5	2.2	287.8
59.5	59.52	-0.11	-0.99	1.0	263.7	2.2	278.1
64.5	64.52	-0.10	-1.22	1.2	265.2	2.6	271.7
69.5	69.51	-0.16	-1.47	1.5	264.0	3.2	256.9
74.5	74.50	-0.27	-1.76	1.8	261.4	3.8	246.6
79.5	79.49	-0.44	-2.08	2.1	258.1	4.8	244.2
84.5	84.47	-0.63	-2.44	2.5	255.6	4.9	238.9
89.5	89.45	-0.82	-2.84	3.0	253.8	5.0	246.9
94.5	94.43	-1.02	-3.28	3.4	252.7	5.3	247.6
99.5	99.40	-1.19	-3.76	3.9	252.5	5.8	253.7
104.5	104.38	-1.32	-4.26	4.5	252.7	5.8	254.5
109.5	109.35	-1.41	-4.76	5.0	253.5	5.6	262.1
114.5	114.32	-1.48	-5.25	5.5	254.2	5.7	262.2
119.5	119.30	-1.52	-5.72	5.9	255.1	5.5	265.9
124.5	124.28	-1.52	-6.19	6.4	256.2	5.1	268.3
129.5	129.26	-1.50	-6.62	6.8	257.2	5.1	271.6
134.5	134.24	-1.47	-7.04	7.2	258.2	4.5	278.4
139.5	139.23	-1.41	-7.43	7.6	259.2	4.8	284.3
144.5	144.21	-1.33	-7.82	7.9	260.4	5.0	285.3
149.5	149.20	-1.20	-8.19	8.3	261.7	4.2	290.9
154.5	154.18	-1.03	-8.54	8.6	263.1	4.5	301.6
155.2	154.79	-1.01	-8.58	8.6	263.3	4.5	301.6

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

CLIENT : MANALTA COAL LTD.
FIELD OFFICE : CALGARY
DATA FROM :
MAG. DECL. : 25.900

HOLE ID. : T94R-23
DATE OF LOG : 08/30/94
PROBE : 9400A . 367
DEPTH UNITS : METERS LOG 5

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
24.5	24.54	-0.00	-0.00	0.0	230.7	1.5	230.9
25.0	25.00	-0.01	-0.01	0.0	229.5	1.5	228.1
30.0	30.00	-0.10	-0.12	0.2	232.3	1.4	230.0
35.0	35.00	-0.17	-0.25	0.3	236.5	2.0	243.7
40.0	39.99	-0.22	-0.39	0.4	240.5	1.7	249.6
45.0	44.99	-0.23	-0.53	0.6	246.8	1.9	272.7
50.0	49.99	-0.20	-0.68	0.7	253.5	1.8	283.8
55.0	54.99	-0.16	-0.83	0.8	259.1	1.9	287.9
60.0	59.98	-0.11	-1.01	1.0	264.0	2.8	275.8
65.0	64.98	-0.10	-1.24	1.2	265.2	2.7	268.5
70.0	69.97	-0.16	-1.50	1.5	263.8	3.3	252.1
75.0	74.96	-0.28	-1.79	1.8	261.1	3.8	242.4
80.0	79.95	-0.45	-2.11	2.2	257.8	4.4	243.8
85.0	84.93	-0.65	-2.48	2.6	255.3	5.1	240.4
90.0	89.91	-0.84	-2.88	3.0	253.7	5.3	247.9
95.0	94.89	-1.03	-3.32	3.5	252.7	5.6	247.6
100.0	99.86	-1.20	-3.81	4.0	252.5	5.7	253.5
105.0	104.83	-1.33	-4.30	4.5	252.8	5.5	256.1
110.0	109.81	-1.42	-4.81	5.0	253.5	5.9	261.6
115.0	114.78	-1.49	-5.30	5.5	254.3	5.6	265.0
120.0	119.76	-1.52	-5.77	6.0	255.2	5.4	270.5
125.0	124.74	-1.52	-6.23	6.4	256.3	5.1	270.6
130.0	129.72	-1.50	-6.66	6.8	257.3	4.9	271.7
135.0	134.70	-1.47	-7.07	7.2	258.3	4.7	282.5
140.0	139.69	-1.41	-7.47	7.6	259.3	4.5	283.6
145.0	144.67	-1.32	-7.86	8.0	260.5	4.8	286.5
150.0	149.66	-1.19	-8.22	8.3	261.8	4.3	288.5
155.0	154.64	-1.02	-8.57	8.6	263.2	4.5	301.6
155.2	154.79	-1.01	-8.58	8.6	263.3	4.5	301.6

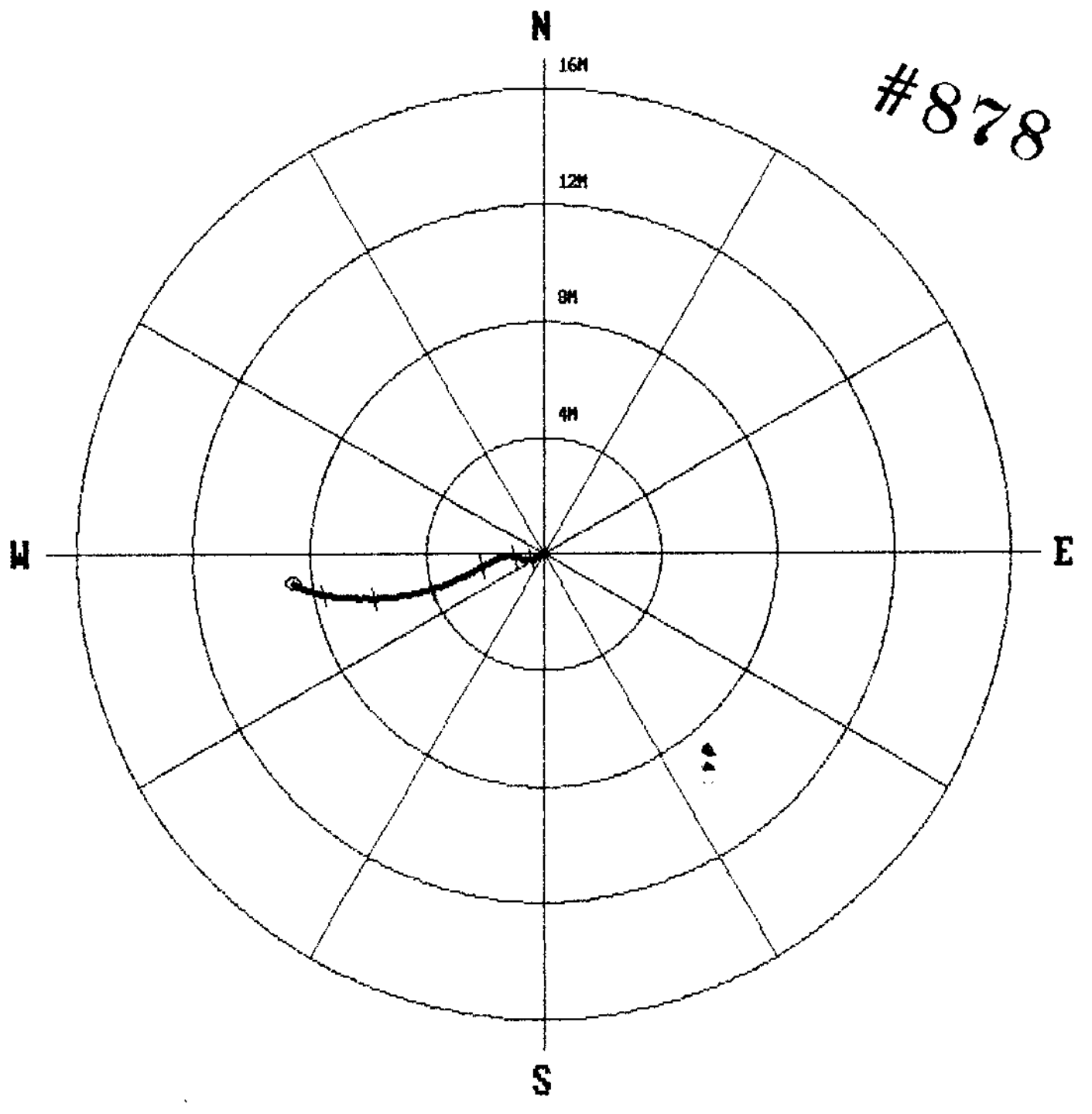
PLAN VIEW

COMPU-LOG DEVIATION

CLIENT: MANALTA COAL LTD.
LOCATION: TELKWA
HOLE ID: T94R-23
DATE OF LOG: 08/30/94
PROBE: 9400A 367

MAG DECL: 25.9

SCALE: 2 M/CM
TRUE DEPTH: 154.80 M
AZIMUTH: 263.3
DISTANCE: 8.6 M
+ = 20 M INCR
○ = BOTTOM OF HOLE



#878

#878

CGC

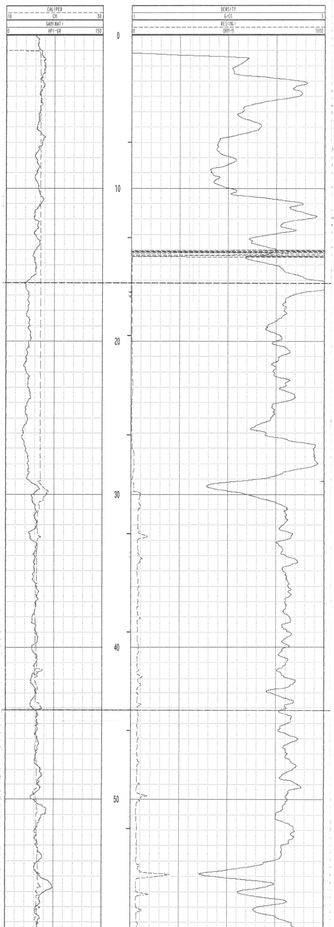
Century CORPORATION

GAMMA-RES-DENSITY

OTHER SERVICES:

COMPANY	: MANALTA COAL LTD.				
WELL	: T94R-24				
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 08/31/94	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	: 122	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	: 121.45	LOG MEASURED FROM:	GL	DF	:
LOG TOP	: -0.52	DRL MEASURED FROM:	GL	GL	:
CASING DRILLER	: 29.3	LOGGING UNIT	: 8983		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: .25	RECORDED BY	: T. LEWYCKYJ		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 25.9	RM	: 0	TYPE	: 983MMA
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 1
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	: MANALTA 6
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH:	100000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



T94R-24 08/31/94 450

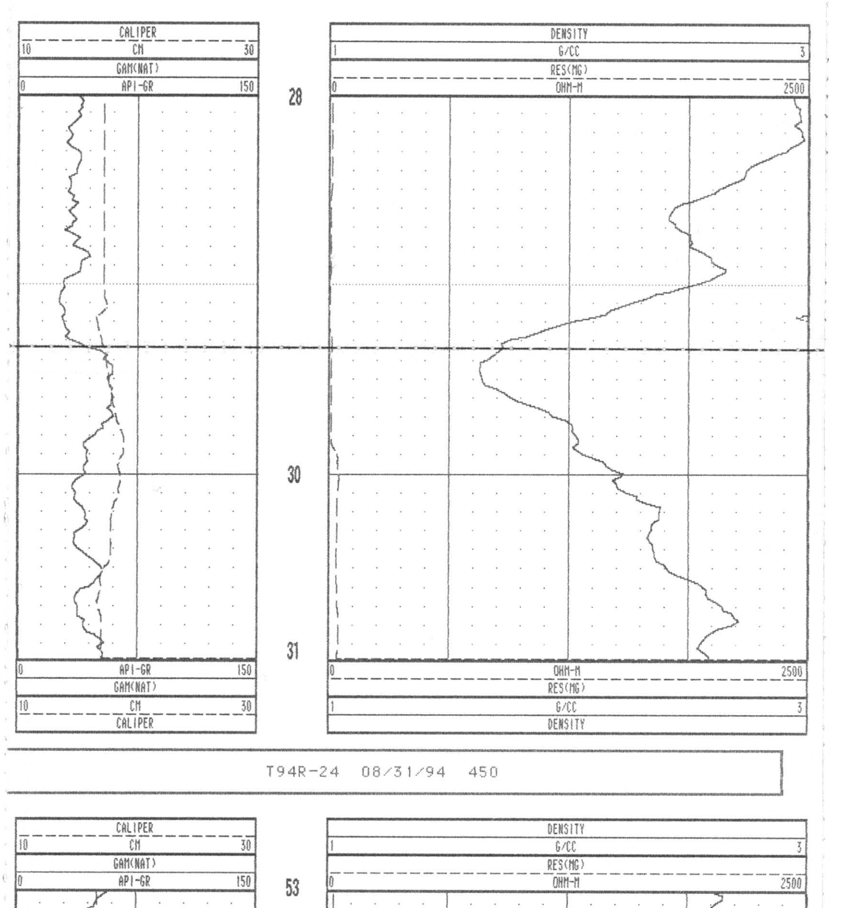
#878

Century Corporation

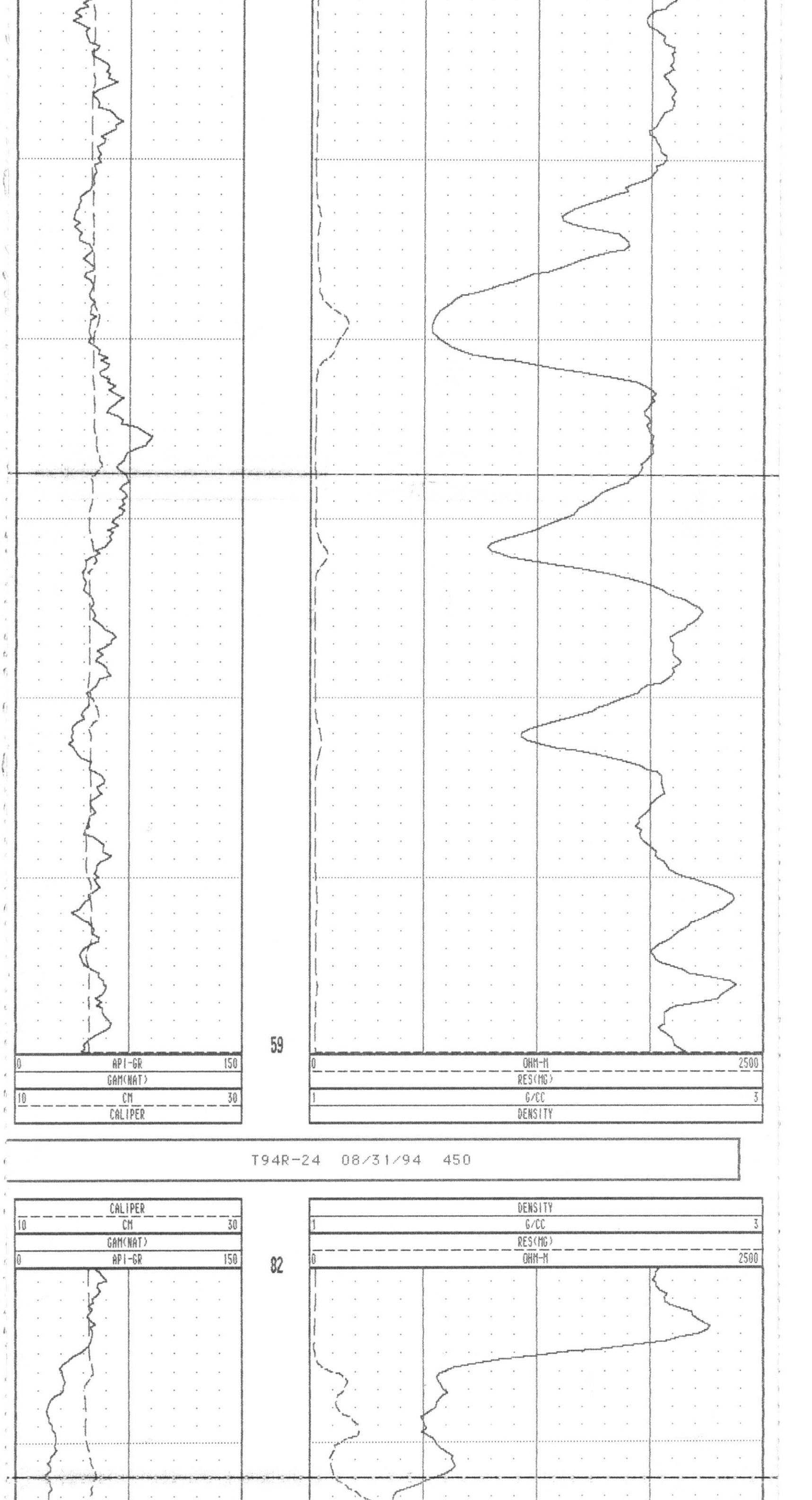
EXPANDED DENSITY

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:	
WELL	: T94R-24				
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 08/31/94	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	: 122	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 121.45	LOG MEASURED FROM	: GL	DF	:
LOG TOP	: -0.52	DRL MEASURED FROM	: GL	GL	:
CASING DRILLER	: 29.3	LOGGING UNIT	: 8903		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: .25	RECORDED BY	: T. LEWYCKYJ		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 25.9	RM	: 0	TYPE	: 9030AA
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 1
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	: MANALTA 7
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH	: 10000
REMARKS	:				

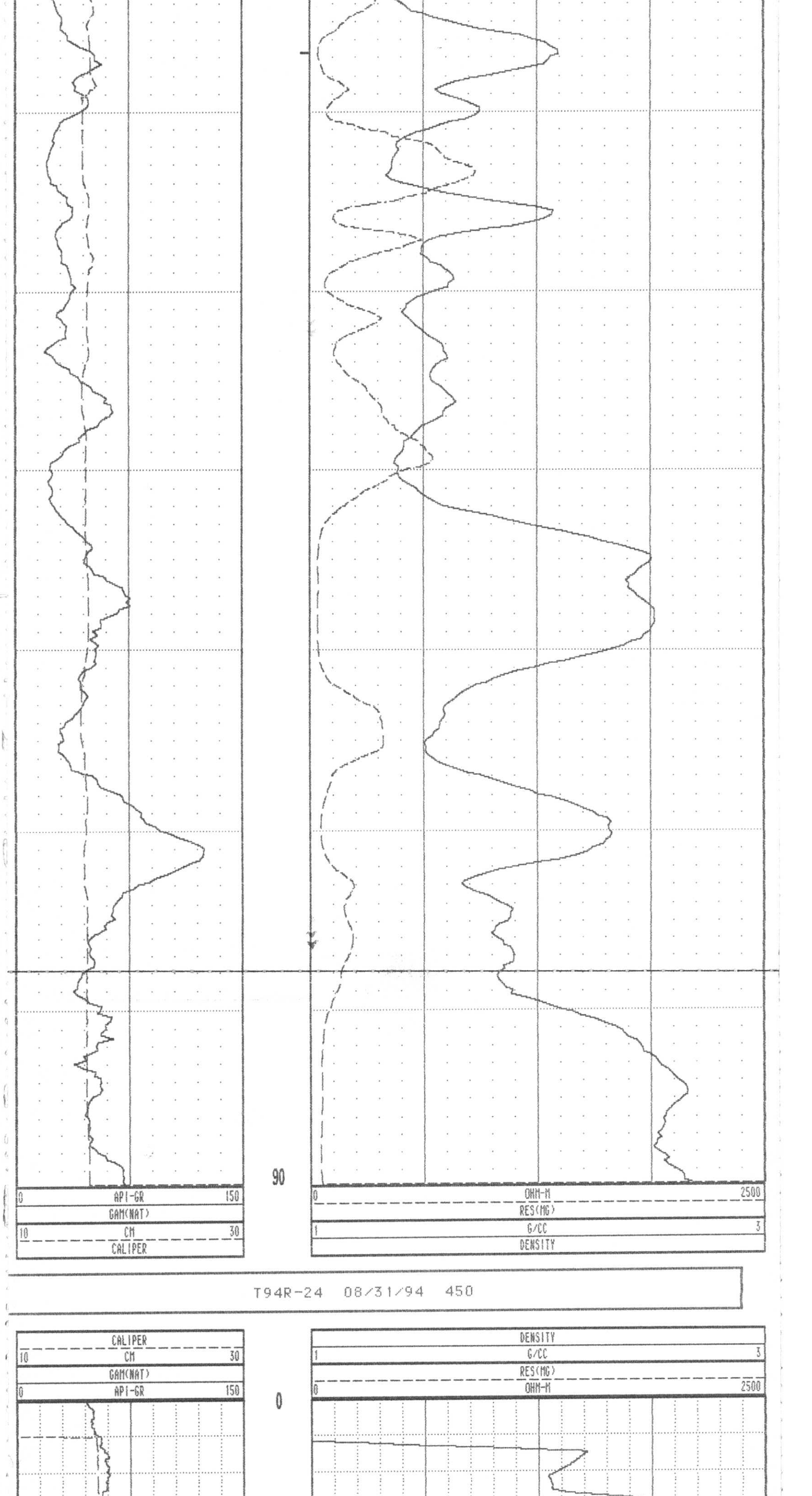
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



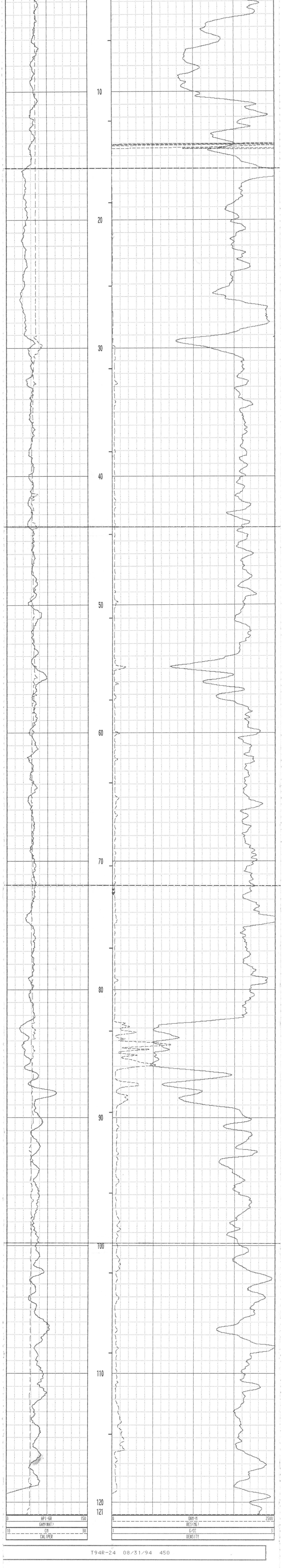
T94R-24 08/31/94 450



T94R-24 08/31/94 450



T94R-24 08/31/94 450



T94R-24 08/31/94 450

Century GEOPHYSICAL CORP.

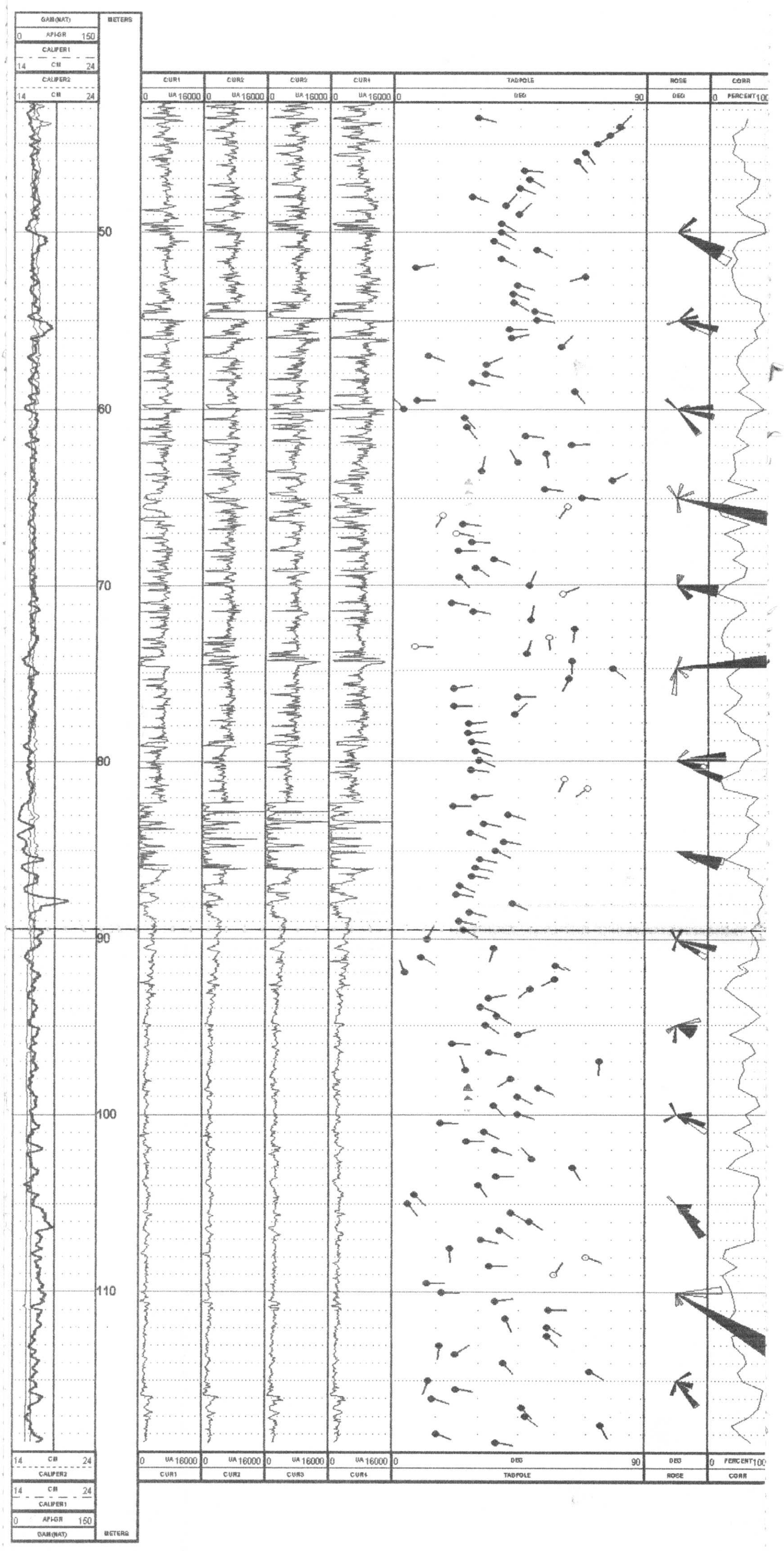
DIPMETER

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:	
WELL	: T94R-24				
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 08/31/94	PERMANENT DATUM	: GL	ELEVATIONS:	
DEPTH DRILLER	: 122	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 118.50	LOG MEASURED FROM	: GL	DF	:
LOG TOP	: 42.63	DRL MEASURED FROM	: GL	GL	:
CASING DRILLER	: 29.3	LOGGING UNIT	: 8903		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: .25	RECORDED BY	: T. LEWYCKYJ		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: PROCESSED
MAGNETIC DECL.	: 25.900	RM	: 0	TYPE	: 9400A
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 6.dip
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	:
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH	: 10000

REMARKS:

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

#878



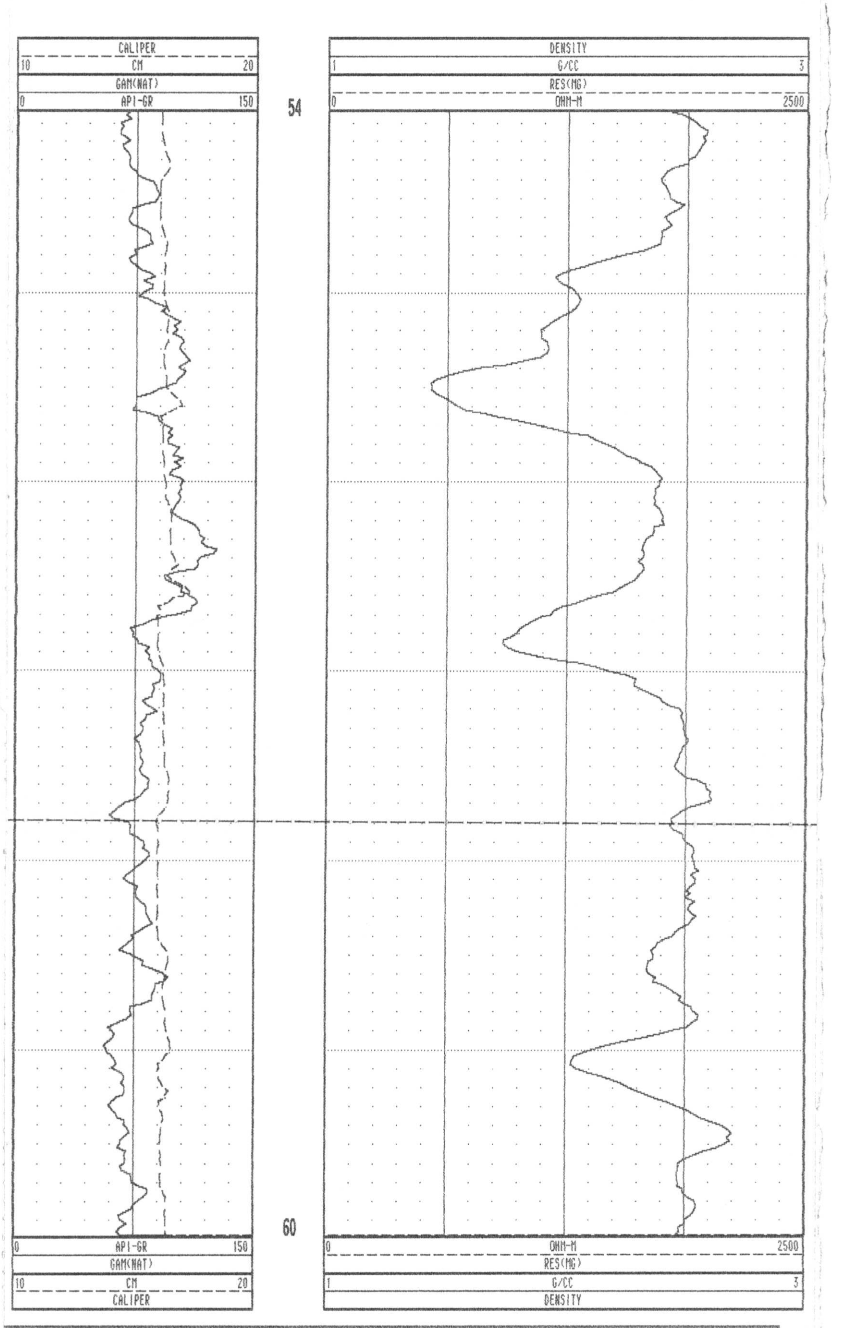
#878

CGC — Century Corporation

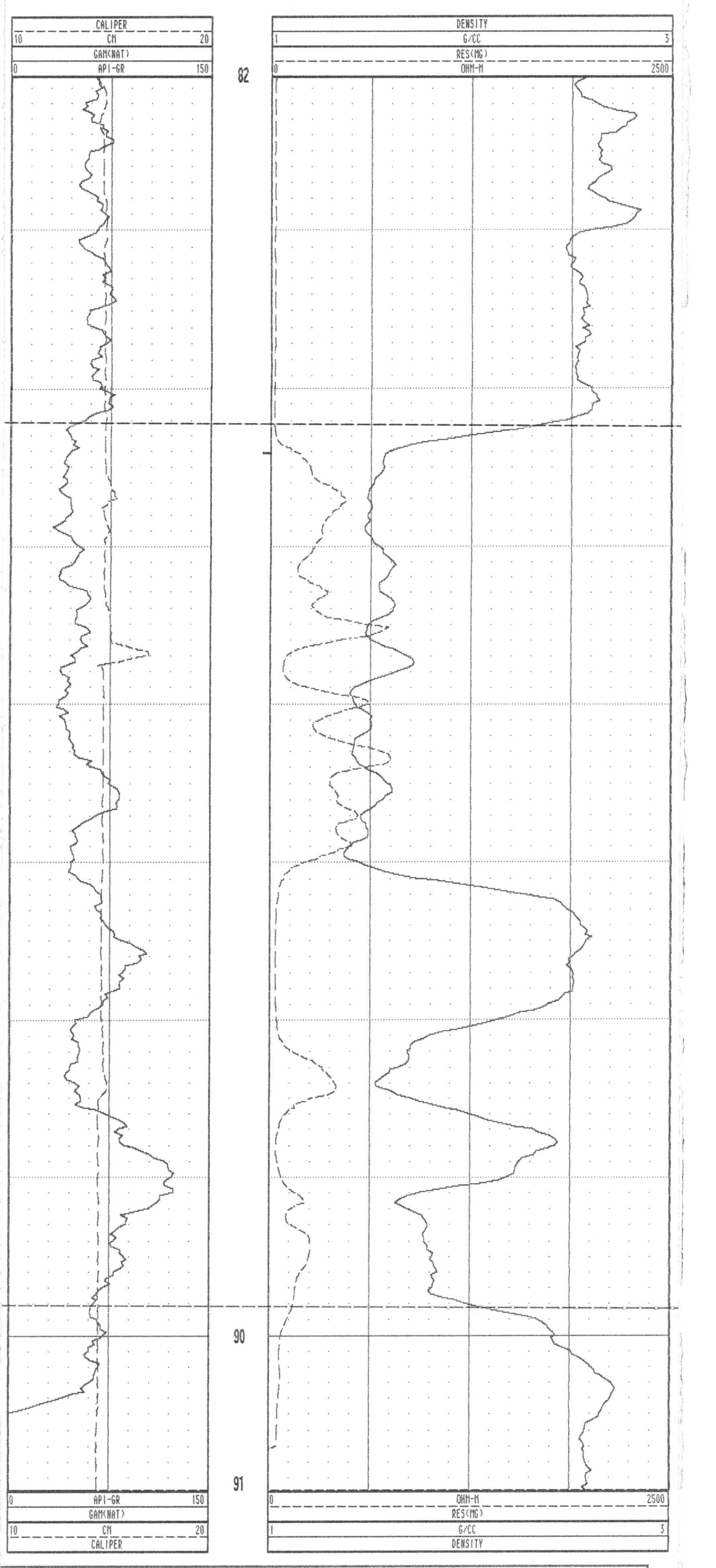
EXPANDED DENSITY

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:	
WELL	: T94R-24C				
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 09/04/94	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	: 90	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 92.83	LOG MEASURED FROM	: GL	DF	:
LOG TOP	: 1.43	DRL MEASURED FROM	: GL	GL	:
CASING DRILLER	: 30	LOGGING UNIT	: 8903		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: .25	RECORDED BY	: T. LEWYCKYJ		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 25.9	RM	: 0	TYPE	: 9030AA
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 0
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	: MANALTA 7
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH	: 10000
REMARKS	:				

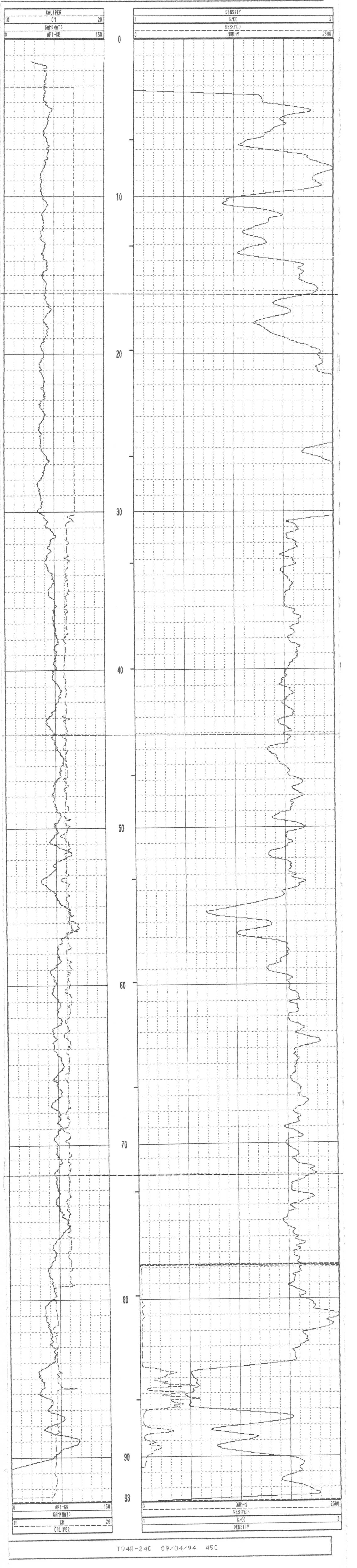
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



T94R-24C 09/04/94 450



T94R-24C 09/04/94 450



T94R-24C 09/04/94 450

#878

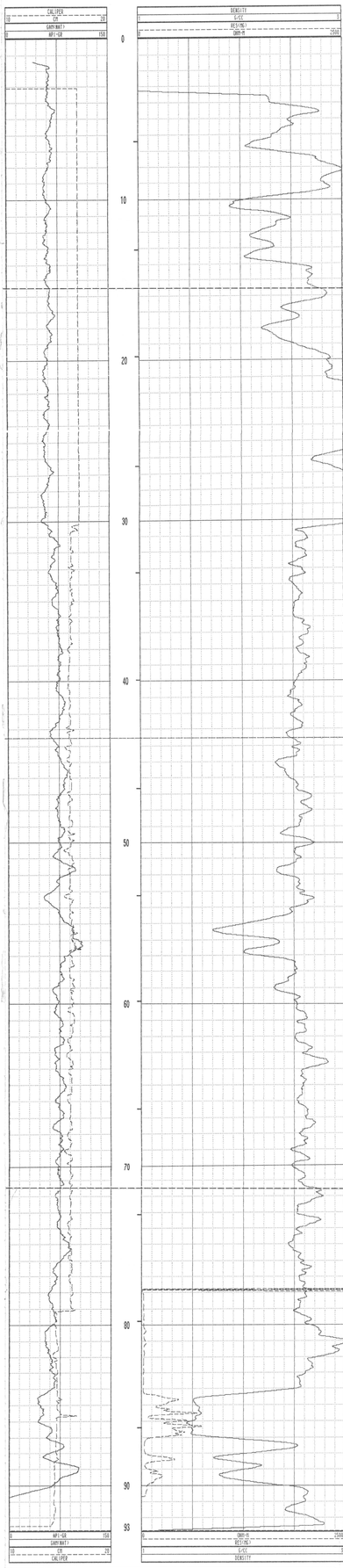
CGC

Century CORPORATION

GAMMA-RES-DENSITY

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:	
WELL	: T94R-24C				
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 09/04/94	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	: 98	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	: 92.83	LOG MEASURED FROM:	GL	DF	:
LOG TOP	: 1.43	DRL MEASURED FROM:	GL	GL	:
CASING DRILLER	: 38	LOGGING UNIT	: 8903		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: .25	RECORDED BY	: T. LEWYCKYJ		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 25.9	RM	: 0	TYPE	: 9030AA
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 0
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	: MANALTA 6
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH:	10000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



T94R-24C 09/04/94 450

#878

CGC

Century CORPORATION

GAMMA-RES-DENSITY

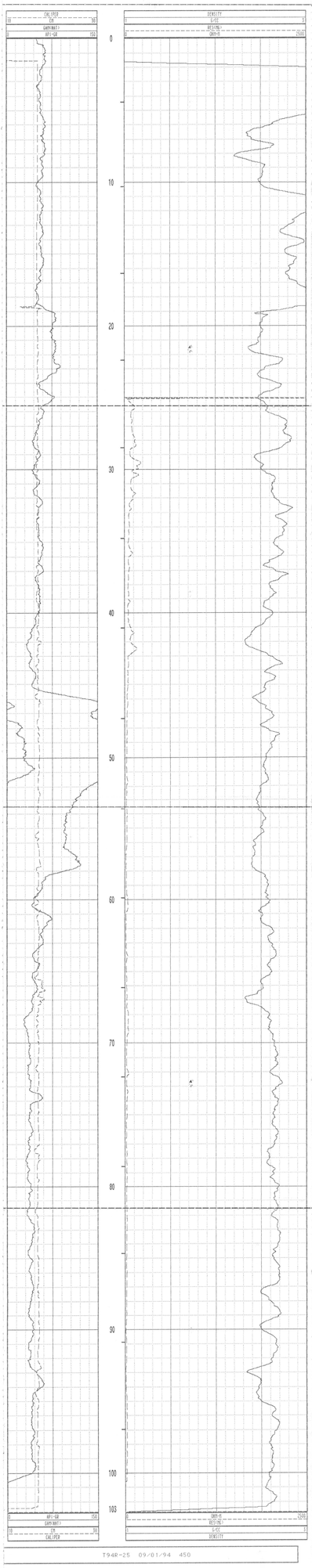
COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:	
WELL	: T94R-25				
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:

DATE	: 09/01/94	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	: 104	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	: 102.76	LOG MEASURED FROM:	GL	DF	:
LOG TOP	: -0.06	DRL MEASURED FROM:	GL	GL	:

CASING DRILLER	: 19	LOGGING UNIT	: 0983		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS:	.25	RECORDED BY	: T. LEWYCKYJ		

BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 25.9	RM	: 0	TYPE	: 9830AA
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 2
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	: MANALTA 6
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH:	18000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



T94R-25 09/01/94 450

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

CLIENT : MANALTA COAL LTD.
FIELD OFFICE : CALGARY
DATA FROM :
MAG. DECL. : 25.900

HOLE ID. : T94R-25
DATE OF LOG : 09/01/94
PROBE : 9400A . 367
DEPTH UNITS : METERS LOG 6

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
30.6	30.59	-0.00	-0.00	0.0	199.5	0.9	199.5
35.6	35.59	-0.08	-0.02	0.1	192.2	0.8	182.7
40.6	40.59	-0.16	-0.04	0.2	194.0	1.2	213.6
45.6	45.59	-0.24	-0.09	0.3	200.6	1.4	217.5
50.6	50.59	-0.32	-0.13	0.3	202.5	1.2	223.4
55.6	55.59	-0.37	-0.21	0.4	209.3	0.7	232.3
60.6	60.58	-0.42	-0.29	0.5	214.7	1.2	247.0
65.6	65.58	-0.47	-0.36	0.6	217.5	0.9	254.2
70.6	70.58	-0.53	-0.45	0.7	220.7	1.0	233.9
75.6	75.58	-0.58	-0.54	0.8	222.6	1.3	221.9
80.6	80.58	-0.65	-0.61	0.9	223.3	1.2	220.9
85.6	85.58	-0.71	-0.68	1.0	223.7	1.2	220.0
87.7	87.70	-0.74	-0.71	1.0	223.7	1.0	223.3

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

CLIENT : MANALTA COAL LTD.
FIELD OFFICE : CALGARY
DATA FROM :
MAG. DECL. : 25.900

HOLE ID. : T94R-25
DATE OF LOG : 09/01/94
PROBE : 9400A . 367
DEPTH UNITS : METERS LOG 6

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
30.6	30.59	-0.00	-0.00	0.0	199.5	0.9	199.5
35.0	35.00	-0.08	-0.02	0.1	192.5	0.8	197.6
40.0	40.00	-0.15	-0.03	0.2	192.4	1.1	214.3
45.0	45.00	-0.23	-0.08	0.2	200.0	1.4	208.6
50.0	50.00	-0.31	-0.12	0.3	201.7	1.0	212.6
55.0	55.00	-0.36	-0.20	0.4	206.9	0.9	227.0
60.0	59.99	-0.42	-0.28	0.5	214.1	1.5	239.1
65.0	64.99	-0.46	-0.35	0.6	217.3	1.0	230.7
70.0	69.99	-0.52	-0.44	0.7	220.4	1.1	234.5
75.0	74.99	-0.57	-0.53	0.8	222.6	1.3	231.7
80.0	79.99	-0.64	-0.60	0.9	223.4	1.2	222.0
85.0	84.99	-0.70	-0.67	1.0	223.8	1.1	213.6
87.7	87.70	-0.74	-0.71	1.0	223.7	1.0	223.3

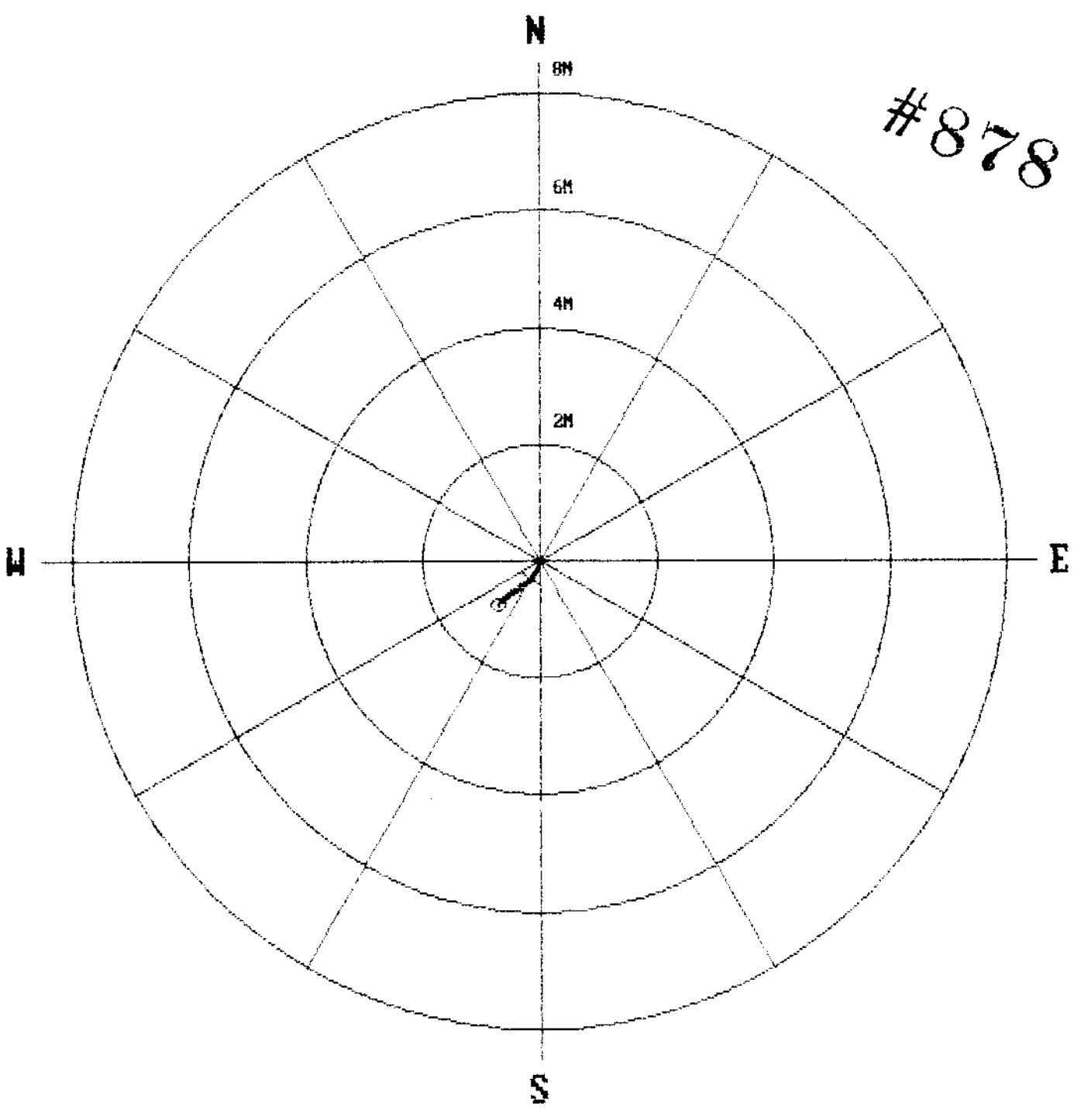
PLAN VIEW

COMPU-LOG DEVIATION

CLIENT: MANALTA COAL LTD.
LOCATION: TELKWA
HOLE ID: T94R-25
DATE OF LOG: 09/01/94
PROBE: 9400A 367

MAG DECL: 25.9

SCALE: 1 M/CM
TRUE DEPTH: 87.71 M
AZIMUTH: 223.7
DISTANCE: 1.0 M
+ = 50 M INCR
○ = BOTTOM OF HOLE



#878

Century GEOPHYSICAL CORP.

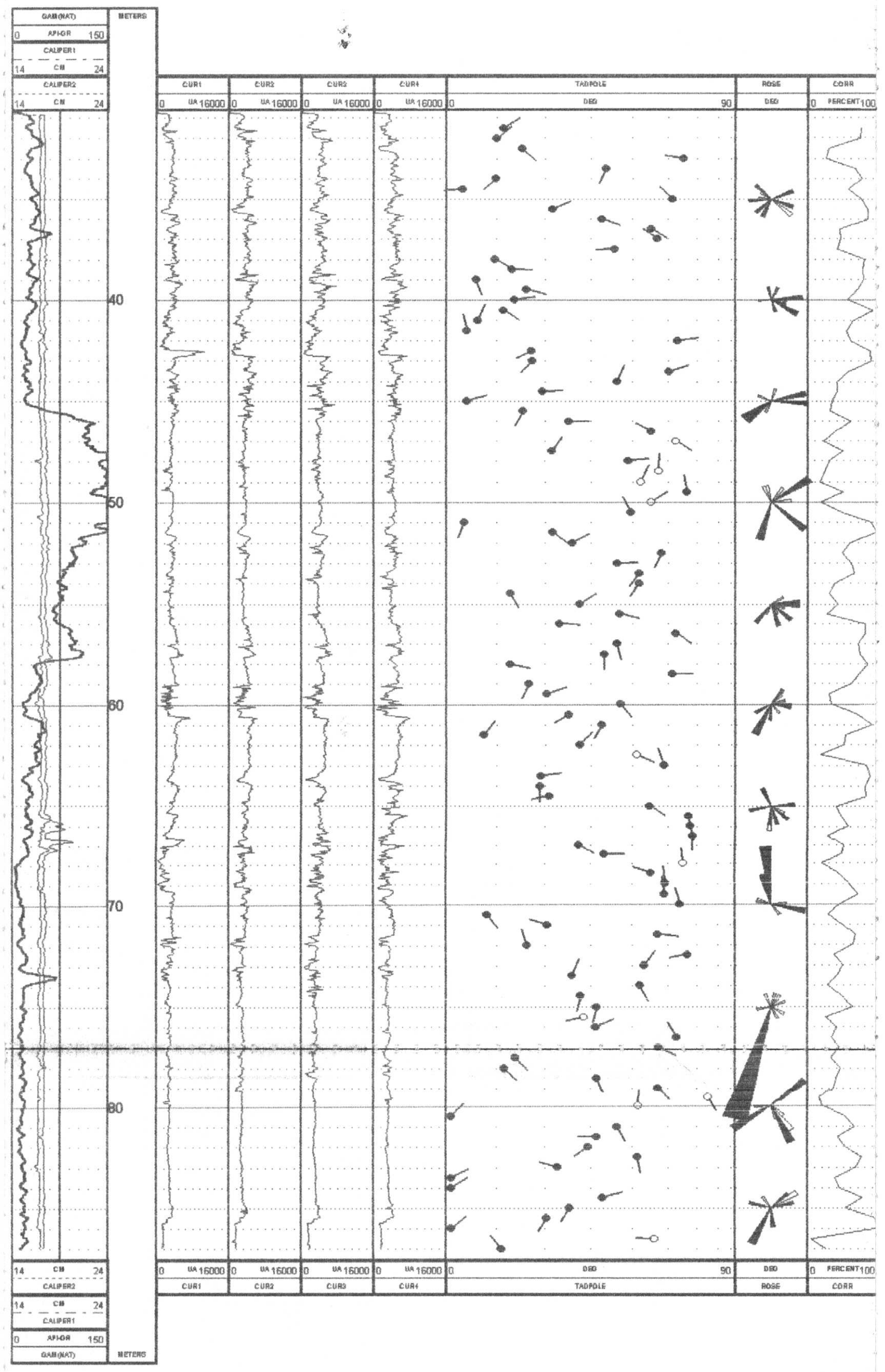
DIPMETER

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:	
WELL	: T94R-25				
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 09/01/94	PERMANENT DATUM	: GL	ELEVATIONS:	
DEPTH DRILLER	: 104	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 87.00	LOG MEASURED FROM:	GL	DF	:
LOG TOP	: 30.59	DRL MEASURED FROM:	GL	GL	:
CASING DRILLER	: 19	LOGGING UNIT	: 8903		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS:	.25	RECORDED BY	: T. LEWYCKYJ		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: PROCESSED
MAGNETIC DECL.	: 25.900	RM	: 0	TYPE	: 9400A
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 5.dip
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	: diptest.
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH:	10000

REMARKS:

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

#878



#878

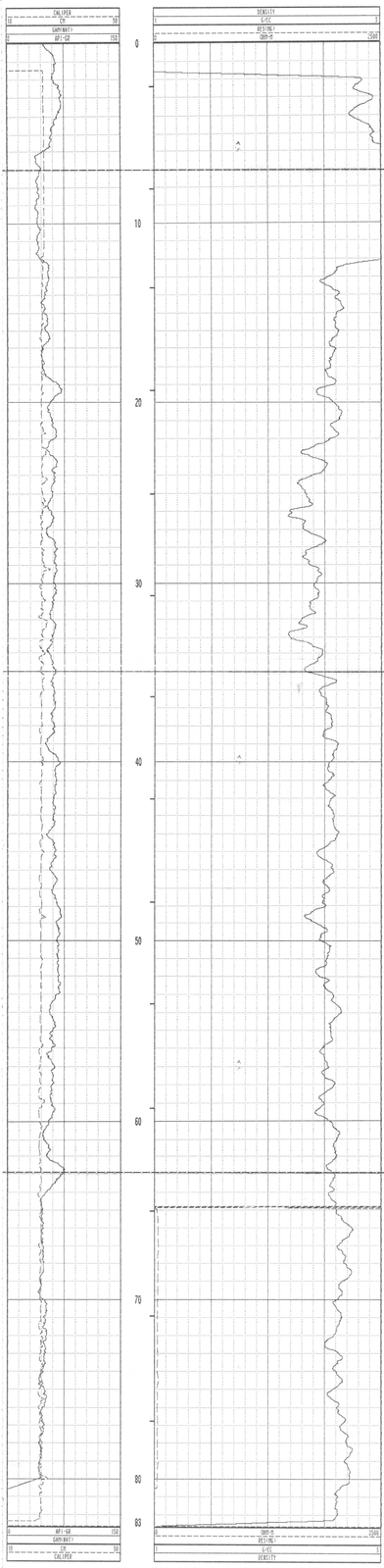
CGC

Century CORPORATION

GAMMA-RES-DENSITY

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:	
WELL	: T94R-26				
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 09/01/94	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	: 84	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	: 82.60	LOG MEASURED FROM:	GL	DF	:
LOG TOP	: -0.22	DRL MEASURED FROM:	GL	GL	:
CASING DRILLER	: 12.2	LOGGING UNIT	: 0983		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: .25	RECORDED BY	: T. LEWYCKYJ		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 25.9	RM	: 0	TYPE	: 9030AA
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 1
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	: MANALTA 5
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH:	10000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



T94R-26 09/01/94 450

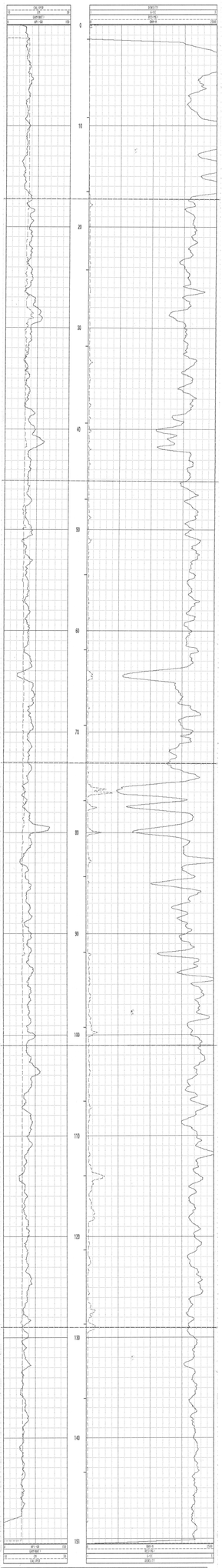
#878

Century CORPORATION

GAMMA-RES-DENSITY

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:	
WELL	: T948-27				
LOCATION/FIELD	: TELNAN				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 09/02/94	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	: 151	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 150.54	LOG MEASURED FROM	: GL	DF	:
LOG TOP	: -0.10	DRL MEASURED FROM	: GL	GL	:
CASING DRILLER	: 17.86	LOGGING UNIT	: 8983		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: .25	RECORDED BY	: T. LEWCZYJ		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 25.9	RM	: @	TYPE	: 9830MAA
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: @	LOG	: 3
FLUID DENSITY	: 1.1	MATRIX DELTA T	: @	PLOT	: MANALTA 6
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: @	THRESH:	180AAP
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



T948-27 09/02/94 450

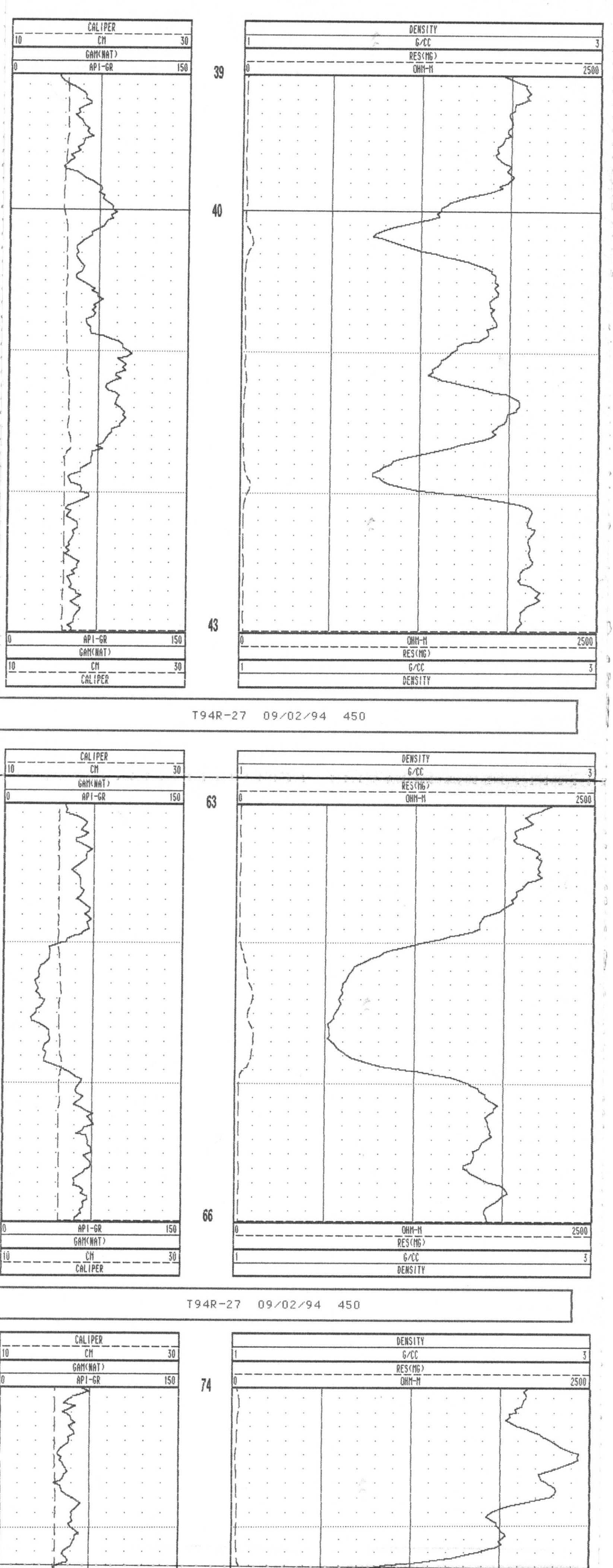
#878

EXPANDED DENSITY

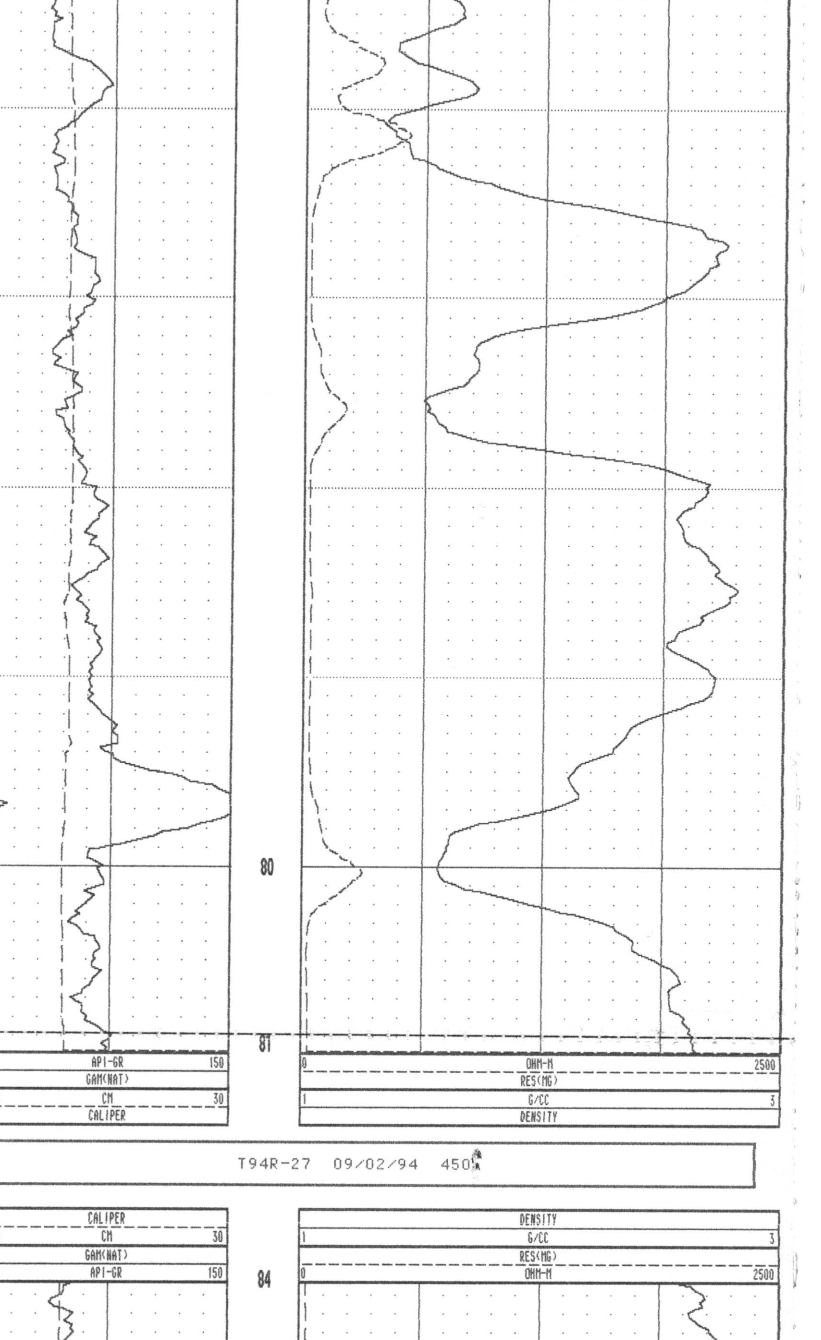
Century Corporation (CGC)

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:	
WELL	: T94R-27				
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 09/02/94	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	: 151	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 150.54	LOG MEASURED FROM	: GL	DF	:
LOG TOP	: -0.10	DRL MEASURED FROM	: GL	GL	:
CASING DRILLER	: 17.06	LOGGING UNIT	: 8903		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: .25	RECORDED BY	: T. LEWYCKYJ		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 25.9	RM	: 0	TYPE	: 9030AA
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 3
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	: MANALTA 7
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH	: 10000
REMARKS	:				

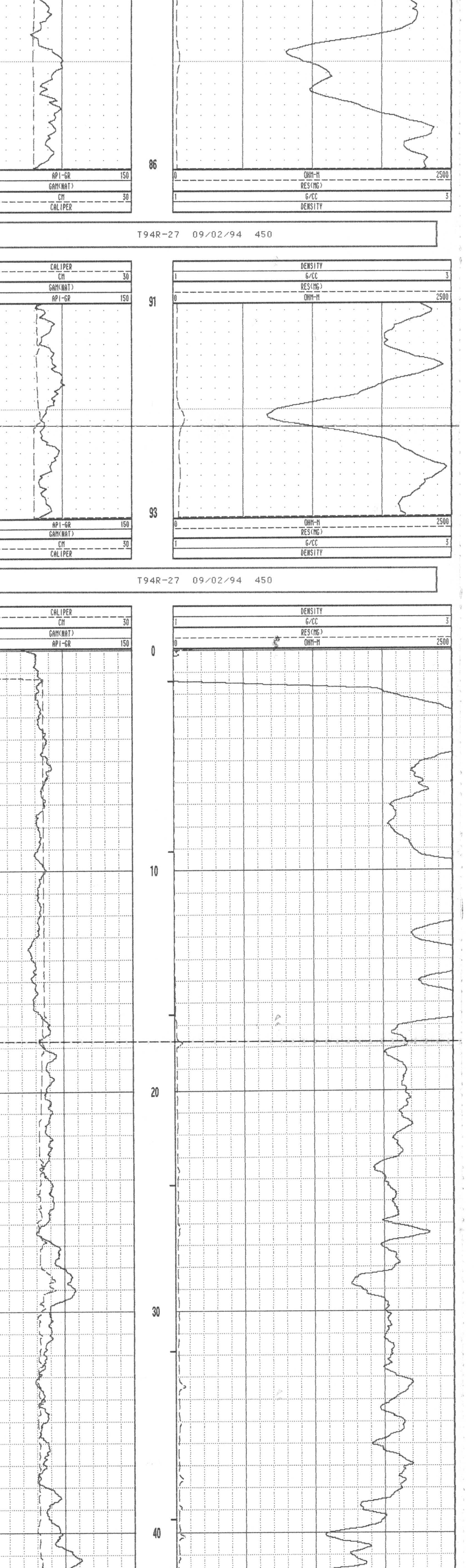
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



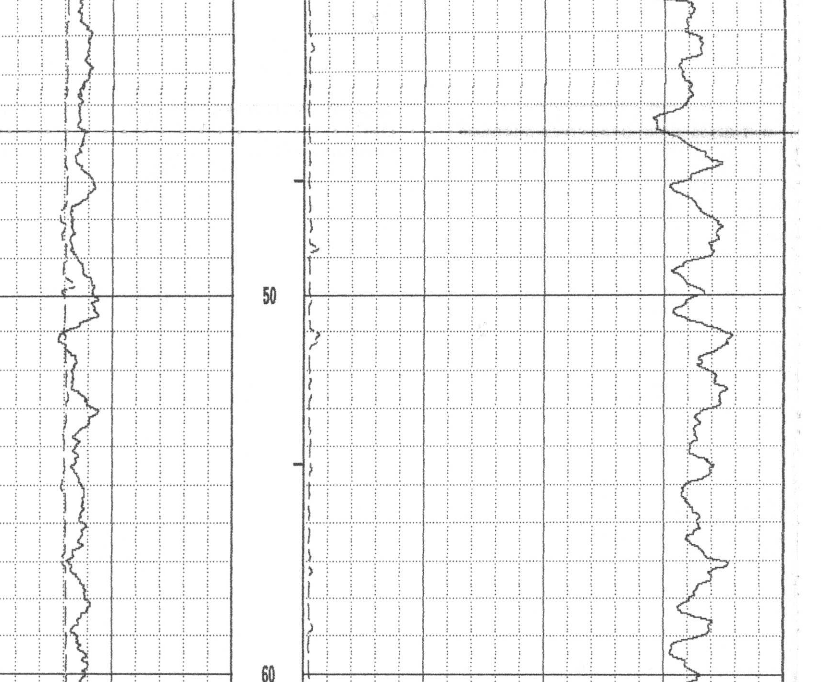
T94R-27 09/02/94 450



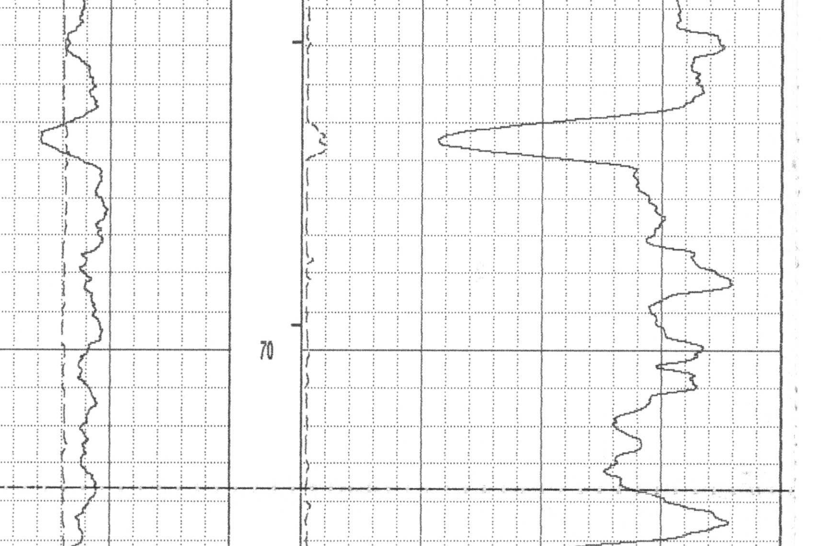
T94R-27 09/02/94 450



T94R-27 09/02/94 450



T94R-27 09/02/94 450



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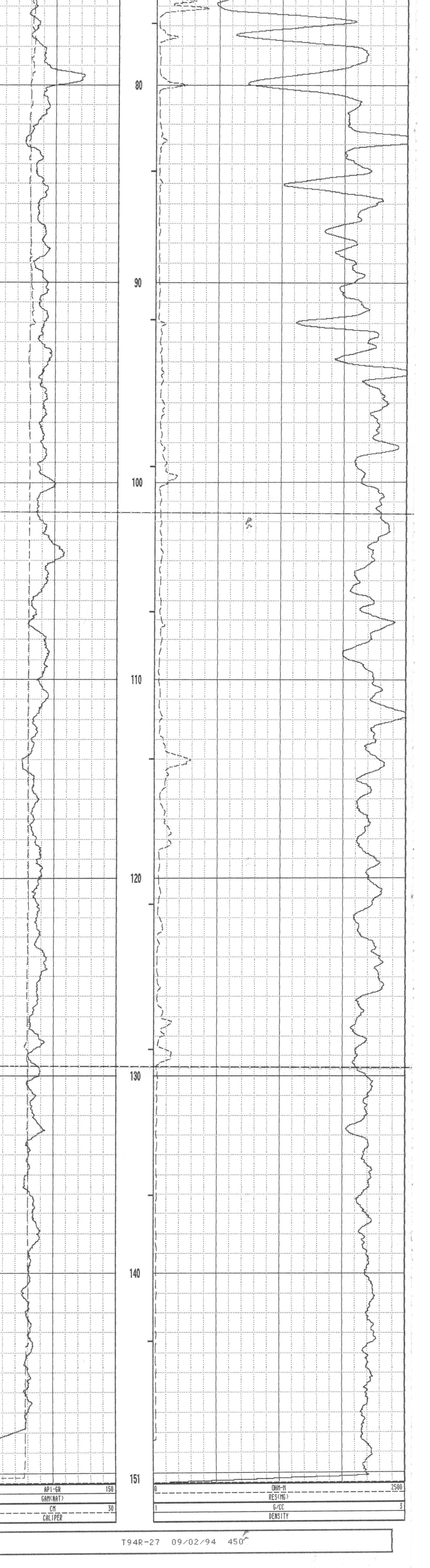


T94R-27 09/02/94 450

#878

Century GEOPHYSICAL CORP.

DIPMETER

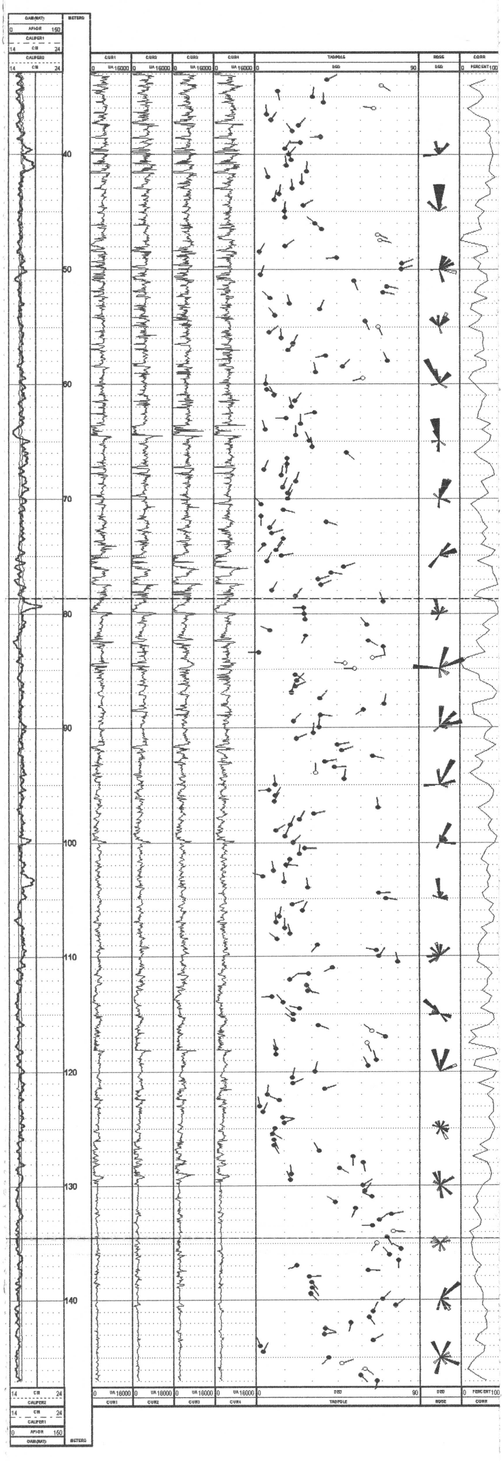
COMPANY	: MANALTA COAL LTD.	OTHER SERVICES:	
WELL	: T94R-27		
LOCATION/FIELD	: TELKWA		
COUNTY	:		
STATE	:		
SECTION	:	TOWNSHIP :	RANGE :

DATE	: 09/02/94	PERMANENT DATUM	: GL	ELEVATIONS:	
DEPTH DRILLER	: 151	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 147.00	LOG MEASURED FROM:	GL	DF	:
LOG TOP	: 32.83	DRL MEASURED FROM:	GL	GL	:
CASING DRILLER	: 17.06	LOGGING UNIT	: 8903		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS:	.25	RECORDED BY	: T. LEWYCKYJ		

BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: PROCESSED
MAGNETIC DECL.	: 25.900	RM	: 0	TYPE	: 8400A
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 5.dip
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	:
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH:	10000

~~REMARKS:~~

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



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

CLIENT : MANALTA COAL LTD.
FIELD OFFICE : CALGARY
DATA FROM :
MAG. DECL. : 25.900

HOLE ID. : T94R-27
DATE OF LOG : 09/02/94
PROBE : 9400A . 367
DEPTH UNITS : METERS LOG 6

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
32.8	32.83	-0.00	-0.00	0.0	226.9	0.9	226.9
37.8	37.83	-0.07	-0.06	0.1	223.6	1.1	218.8
42.8	42.83	-0.16	-0.12	0.2	216.7	1.3	204.6
47.8	47.83	-0.29	-0.17	0.3	210.6	1.7	200.4
52.8	52.82	-0.45	-0.23	0.5	207.5	2.0	202.6
57.8	57.82	-0.64	-0.30	0.7	205.3	2.6	202.7
62.8	62.81	-0.85	-0.38	0.9	204.2	2.9	199.3
67.8	67.81	-1.11	-0.47	1.2	203.0	3.2	198.6
72.8	72.80	-1.42	-0.59	1.5	202.5	4.0	205.8
77.8	77.78	-1.76	-0.74	1.9	202.8	4.5	200.8
82.8	82.77	-2.12	-0.87	2.3	202.3	4.7	204.3
87.8	87.75	-2.51	-1.02	2.7	202.2	5.2	202.2
92.8	92.73	-2.93	-1.20	3.2	202.3	5.1	202.8
97.8	97.71	-3.35	-1.37	3.6	202.3	5.2	201.9
102.8	102.69	-3.76	-1.54	4.1	202.3	5.0	200.2
107.8	107.67	-4.14	-1.70	4.5	202.2	4.6	199.3
112.8	112.66	-4.51	-1.82	4.9	202.0	4.2	195.4
117.8	117.64	-4.87	-1.91	5.2	201.5	3.9	188.9
122.8	122.63	-5.22	-1.96	5.6	200.6	3.9	184.3
127.8	127.62	-5.55	-1.94	5.9	199.3	3.7	171.9
132.8	132.61	-5.86	-1.87	6.2	197.7	3.8	163.1
137.8	137.60	-6.16	-1.77	6.4	196.0	3.5	160.8
142.8	142.59	-6.45	-1.66	6.7	194.4	3.6	161.6
147.8	147.58	-6.73	-1.54	6.9	192.9	3.3	152.4
147.9	147.63	-6.73	-1.53	6.9	192.8	3.3	152.4

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

CLIENT : MANALTA COAL LTD.
FIELD OFFICE : CALGARY
DATA FROM :
MAG. DECL. : 25.900

HOLE ID. : T94R-27
DATE OF LOG : 09/02/94
PROBE : 9400A . 367
DEPTH UNITS : METERS LOG 6

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
32.8	32.83	-0.00	-0.00	0.0	226.9	0.9	226.9
35.0	35.00	-0.03	-0.03	0.0	223.3	1.1	220.9
40.0	40.00	-0.10	-0.09	0.1	220.9	1.2	211.7
45.0	45.00	-0.21	-0.14	0.3	214.0	1.8	209.8
50.0	49.99	-0.35	-0.20	0.4	209.4	1.9	205.3
55.0	54.99	-0.52	-0.26	0.6	206.3	2.2	199.0
60.0	59.99	-0.73	-0.33	0.8	204.6	2.7	203.2
65.0	64.98	-0.96	-0.42	1.0	203.6	3.2	196.7
70.0	69.97	-1.24	-0.51	1.3	202.6	4.0	198.6
75.0	74.96	-1.56	-0.65	1.7	202.8	4.1	202.3
80.0	79.95	-1.91	-0.80	2.1	202.7	4.3	200.7
85.0	84.93	-2.28	-0.93	2.5	202.2	4.6	201.5
90.0	89.91	-2.69	-1.10	2.9	202.3	5.2	203.3
95.0	94.89	-3.11	-1.28	3.4	202.3	5.1	200.9
100.0	99.87	-3.53	-1.45	3.8	202.3	4.9	204.2
105.0	104.85	-3.93	-1.61	4.2	202.3	4.8	202.5
110.0	109.83	-4.31	-1.76	4.7	202.2	4.6	197.3
115.0	114.82	-4.67	-1.87	5.0	201.8	4.2	194.3
120.0	119.81	-5.02	-1.94	5.4	201.1	4.0	186.0
125.0	124.79	-5.36	-1.96	5.7	200.1	3.8	175.2
130.0	129.78	-5.69	-1.92	6.0	198.6	3.6	169.8
135.0	134.77	-5.99	-1.83	6.3	196.9	3.4	161.4
140.0	139.76	-6.29	-1.73	6.5	195.3	3.6	162.4
145.0	144.75	-6.58	-1.61	6.8	193.8	3.5	152.9
147.9	147.63	-6.73	-1.53	6.9	192.8	3.3	152.4

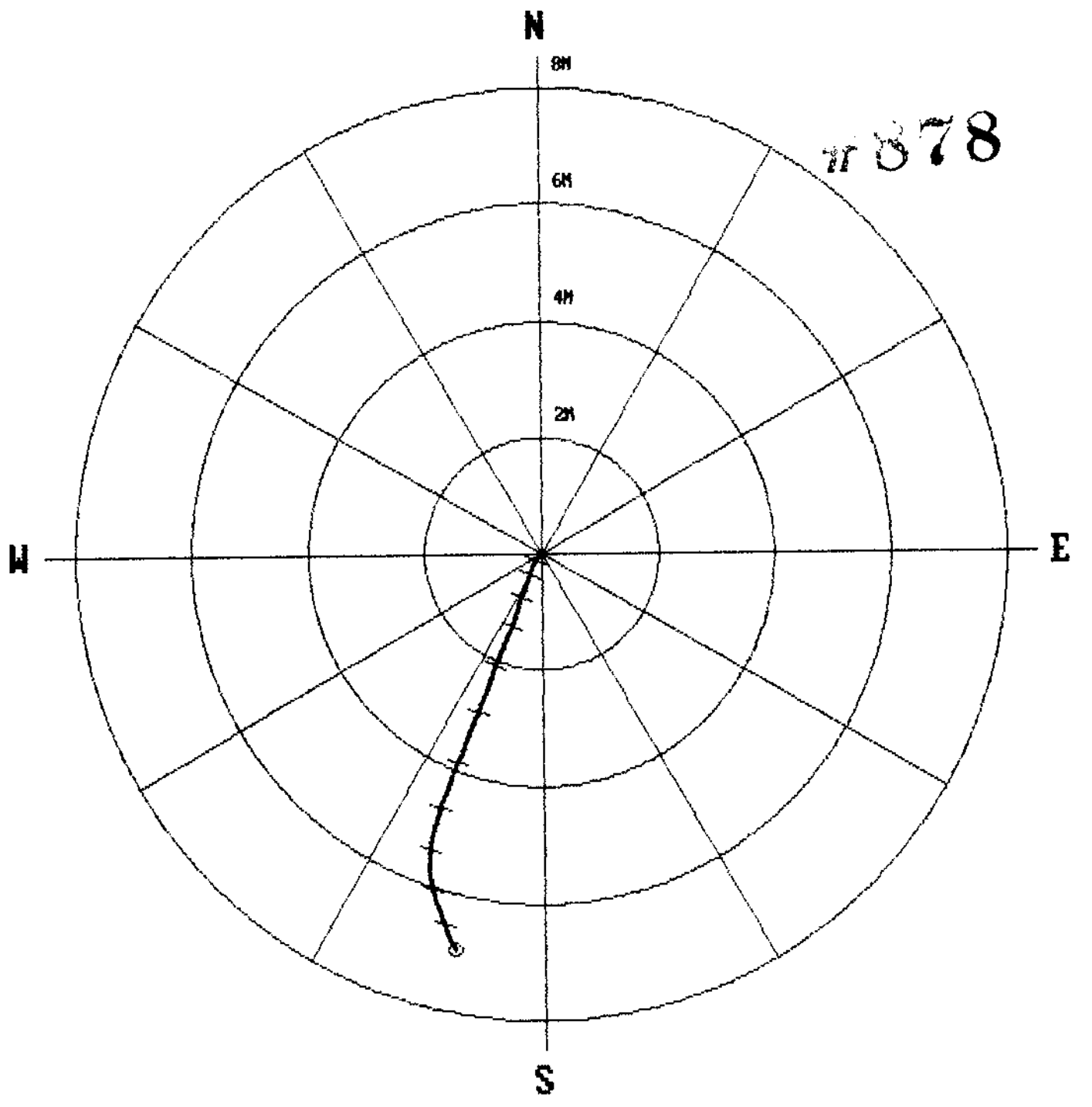
PLAN VIEW

COMPU-LOG DEVIATION

CLIENT: MANALTA COAL LTD.
LOCATION: TELKWA
HOLE ID: T94R-27
DATE OF LOG: 09/02/94
PROBE: 9400A 367

MAG DECL: 25.9

SCALE: 1 M/CM
TRUE DEPTH: 147.64 M
AZIMUTH: 192.8
DISTANCE: 6.9 M
+ = 10 M INCR
○ = BOTTOM OF HOLE



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#878

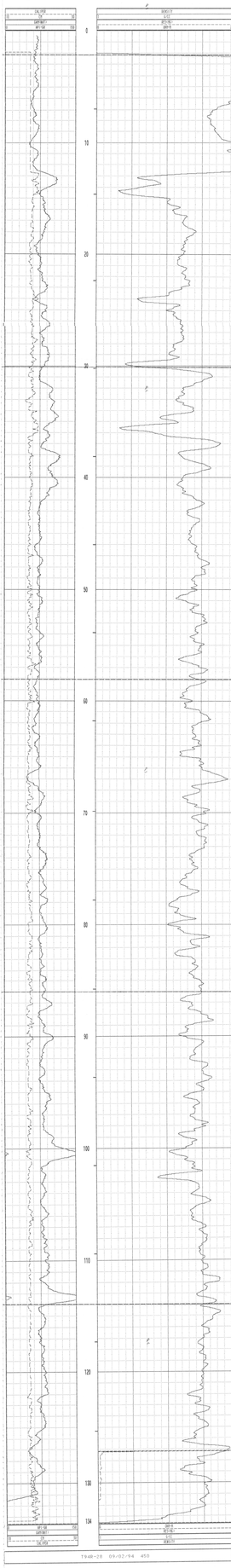
CGC

Century CORPORATION

GAMMA-RES-DENSITY

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:	
WELL	: T948-28				
LOCATION/FIELD	: TELSAS				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 09/02/94	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	: 137.5	ELEV. PERM. DATUM		KB	:
LOG BOTTOM	: 133.67	LOG MEASURED FROM	: GL	DF	:
LOG TOP	: 0.46	DRL MEASURED FROM	: GL	GL	:
CASING DRILLER	: 12.8	LOGGING UNIT	: 8080		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: .25	RECORDED BY	: T. LEWCOFJ		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 25.9	RM	: @	TYPE	: 9830WA
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: @	LOG	: @
FLUID DENSITY	: 1.1	MATRIX DELTA T	: @	PLOT	: MANALTA 6
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: @	THRESH:	10000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



T948-28 09/02/94 450

#878

CGC **Century Corporation**

GAMMA-RES-DENSITY

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:	
WELL	: T94R-28				
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 09/02/94	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	: 137.5	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 133.67	LOG MEASURED FROM	: GL	DF	:
LOG TOP	: 0.46	DRL MEASURED FROM	: GL	GL	:
CASING DRILLER	: 12.0	LOGGING UNIT	: 8903		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: .25	RECORDED BY	: T. LEWYCKYJ		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 25.9	RM	: 0	TYPE	: 9030AA
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 0
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	: MANALTA 6
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH	: 10000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

T94R-28 09/02/94 450

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

CLIENT : MANALTA COAL LTD.
FIELD OFFICE : CALGARY
DATA FROM :
MAG. DECL. : 25.900

HOLE ID. : T94R-28
DATE OF LOG : 09/02/94
PROBE : 9400A , 367
DEPTH UNITS : METERS LOG 7

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
21.9	21.92	-0.00	-0.00	0.0	192.7	1.6	192.7
26.9	26.92	-0.10	-0.02	0.1	193.6	0.8	226.2
31.9	31.92	-0.20	-0.03	0.2	188.8	2.0	190.7
36.9	36.92	-0.34	-0.05	0.3	188.8	1.9	177.5
41.9	41.91	-0.51	-0.05	0.5	185.1	1.9	172.7
46.9	46.91	-0.65	0.02	0.7	178.3	1.8	139.8
51.9	51.91	-0.79	0.13	0.8	170.7	2.1	150.0
56.9	56.90	-0.97	0.23	1.0	166.4	2.9	139.4
61.9	61.90	-1.14	0.35	1.2	163.1	2.3	160.8
66.9	66.89	-1.37	0.42	1.4	162.8	3.1	163.5
71.9	71.88	-1.64	0.48	1.7	163.8	2.7	173.6
76.9	76.88	-1.90	0.51	2.0	164.9	3.4	171.2
79.0	78.91	-2.02	0.52	2.1	165.5	3.2	176.1

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

CLIENT : MANALTA COAL LTD.
FIELD OFFICE : CALGARY
DATA FROM :
MAG. DECL. : 25.900

HOLE ID. : T94R-28
DATE OF LOG : 09/02/94
PROBE : 9400A , 367
DEPTH UNITS : METERS LOG 8

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
79.1	79.11	-0.00	-0.00	0.0	190.1	3.4	190.1
84.1	84.10	-0.30	-0.04	0.3	187.0	3.5	193.2
89.1	89.09	-0.64	-0.11	0.7	190.1	3.9	200.3
94.1	94.08	-0.97	-0.22	1.0	193.0	4.4	200.6
99.1	99.06	-1.31	-0.34	1.4	194.7	4.2	203.6
104.1	104.05	-1.66	-0.47	1.7	195.9	4.1	204.1
109.1	109.03	-2.01	-0.63	2.1	197.3	4.4	204.5
114.1	114.02	-2.36	-0.78	2.5	198.3	3.4	202.4
119.1	119.01	-2.70	-0.92	2.8	198.9	4.2	198.7
122.8	122.63	-2.96	-0.99	3.1	198.5	4.3	195.6

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

CLIENT : MANALTA COAL LTD.
FIELD OFFICE : CALGARY
DATA FROM :
MAG. DECL. : 25.900

HOLE ID. : T94R-28
DATE OF LOG : 09/02/94
PROBE : 9400A , 367
DEPTH UNITS : METERS LOG 7

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
21.9	21.92	-0.00	-0.00	0.0	192.7	1.6	192.7
25.0	25.00	-0.06	-0.02	0.1	193.3	0.7	190.4
30.0	30.00	-0.15	-0.03	0.2	189.8	1.0	190.6
35.0	35.00	-0.28	-0.05	0.3	189.4	1.6	201.6
40.0	39.99	-0.44	-0.05	0.4	186.0	2.0	178.2
45.0	44.99	-0.61	-0.01	0.6	181.3	1.8	144.7
50.0	49.99	-0.74	0.09	0.7	172.9	1.7	136.0
55.0	54.98	-0.90	0.19	0.9	168.1	2.4	144.9
60.0	59.98	-1.06	0.31	1.1	163.8	1.9	136.2
65.0	64.97	-1.27	0.40	1.3	162.7	2.8	161.5
70.0	69.97	-1.53	0.46	1.6	163.2	3.2	170.4
75.0	74.96	-1.80	0.49	1.9	164.8	3.2	172.0
79.0	78.91	-2.02	0.52	2.1	165.5	3.2	176.1

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

CLIENT : MANALTA COAL LTD.
FIELD OFFICE : CALGARY
DATA FROM :
MAG. DECL. : 25.900

HOLE ID. : T94R-28
DATE OF LOG : 09/02/94
PROBE : 9400A , 367
DEPTH UNITS : METERS LOG 8

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
79.1	79.11	-0.00	-0.00	0.0	190.1	3.4	190.1
80.0	80.00	-0.05	-0.01	0.1	187.8	3.6	182.8
85.0	84.99	-0.36	-0.05	0.4	187.5	4.1	189.5
90.0	89.98	-0.70	-0.13	0.7	190.8	4.2	199.4
95.0	94.96	-1.03	-0.25	1.1	193.5	4.1	197.7
100.0	99.95	-1.37	-0.37	1.4	195.0	3.7	205.8
105.0	104.94	-1.73	-0.50	1.8	196.1	4.4	205.0
110.0	109.92	-2.08	-0.65	2.2	197.5	4.0	205.5
115.0	114.91	-2.41	-0.81	2.5	198.6	4.4	207.2
120.0	119.89	-2.76	-0.94	2.9	198.8	4.1	196.6
122.8	122.63	-2.96	-0.99	3.1	198.5	4.3	195.6

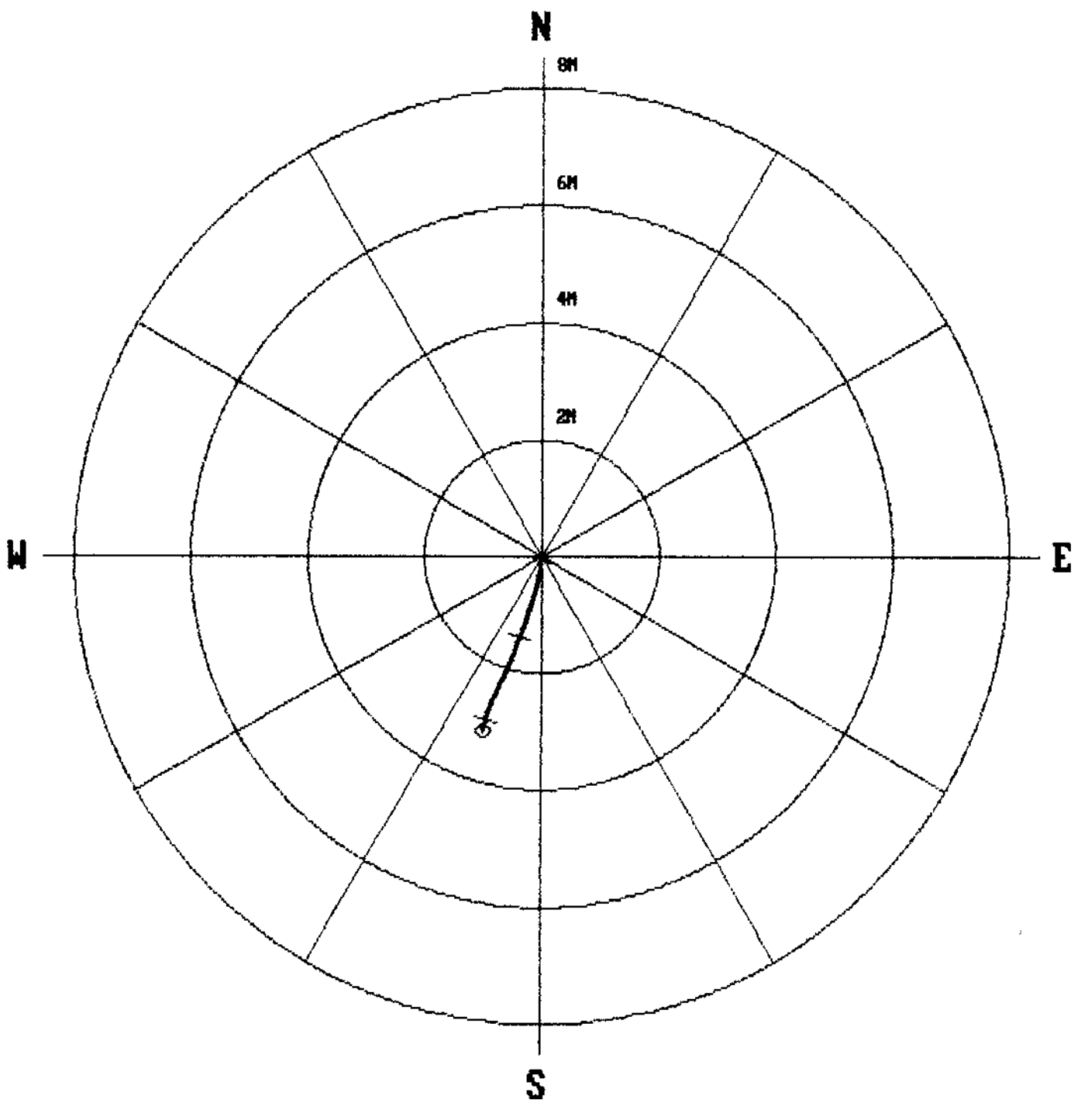
PLAN VIEW

COMPU-LOG DEVIATION

CLIENT: MANALTA COAL LTD.
LOCATION: TELKWA
HOLE ID: T94R-28
DATE OF LOG: 09/02/94
PROBE: 9400A 367

MAG DECL: 25.9

SCALE: 1 M/CM
TRUE DEPTH: 122.64 M
AZIMUTH: 198.5
DISTANCE: 3.1 M
+ = 20 M INCR
◇ = BOTTOM OF HOLE



#878

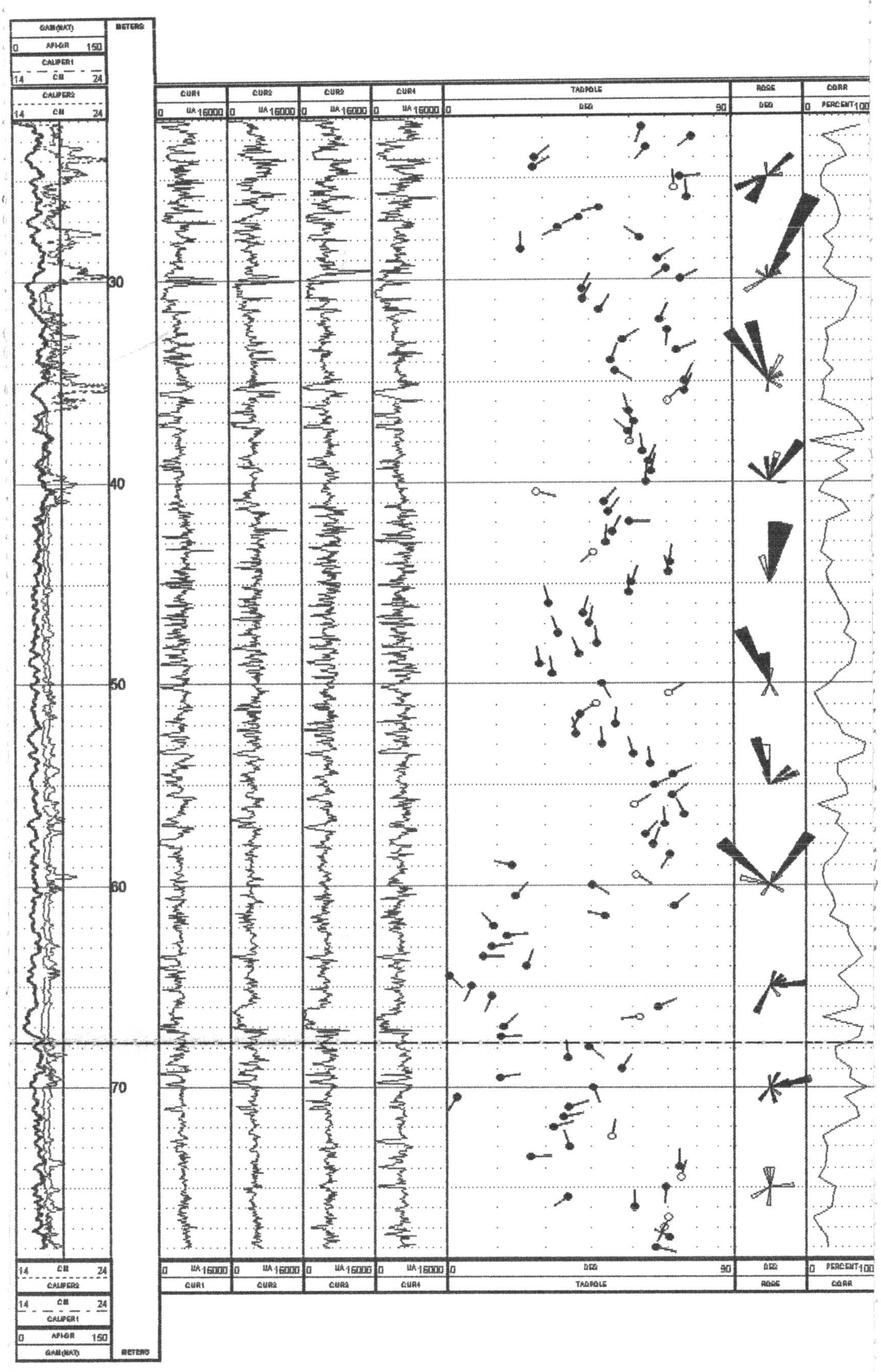
Century Geophysical Corp.

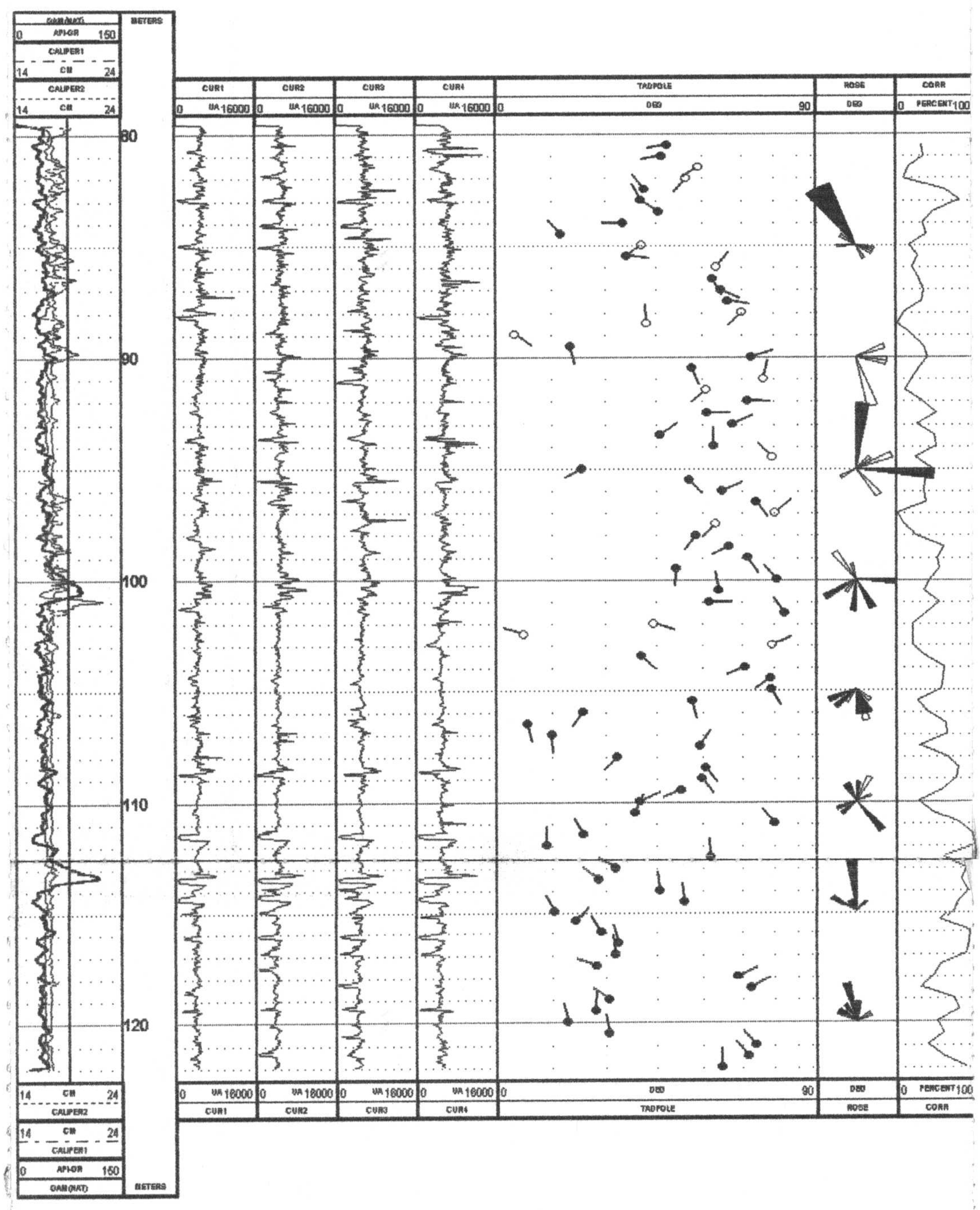
DIPMETER

COMPANY	: MANALTA COAL LTD.	OTHER SERVICES:			
WELL	: T94R-28				
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 09/02/94	PERMANENT DATUM	: GL	ELEVATIONS:	
DEPTH DRILLER	: 137.5	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 78.00	LOG MEASURED FROM:	GL	DF	:
LOG TOP	: 21.92	DRL MEASURED FROM:	GL	GL	:
CASING DRILLER	: 12.0	LOGGING UNIT	: 8903		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS:	.25	RECORDED BY	: T. LEWYCKYJ		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: PROCESSED
MAGNETIC DECL.	: 25.900	RM	: 0	TYPE	: 9400A
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 5.dip
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	:
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH:	10000

REMARKS:

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS





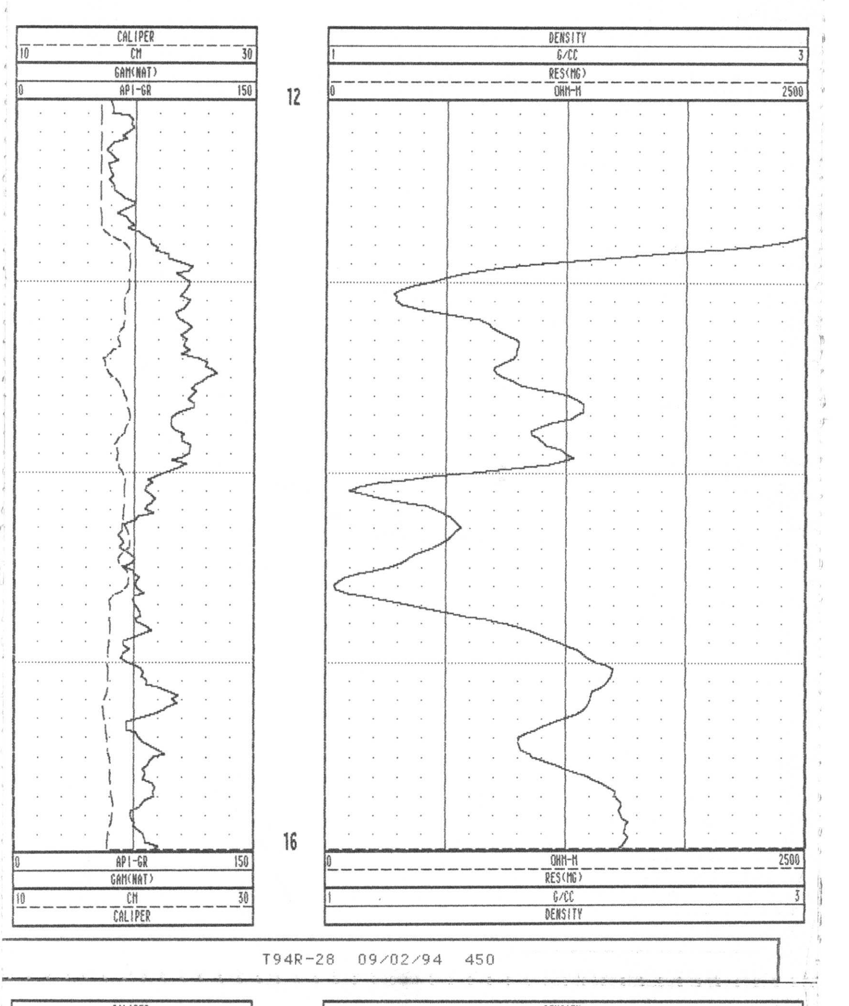
#878

EXPANDED DENSITY

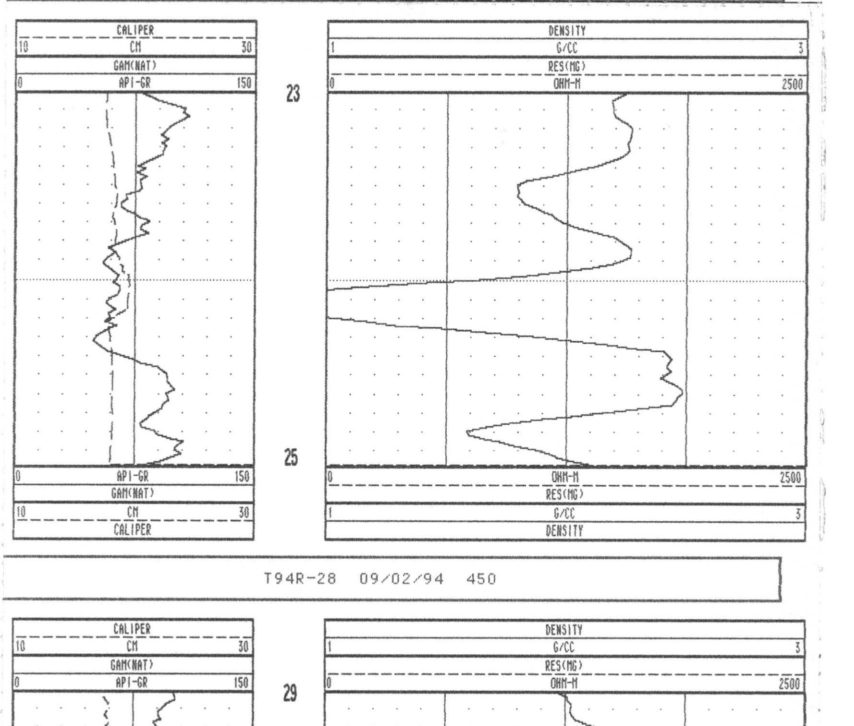
Century Corporation (CGC)

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:	
WELL	: T94R-28				
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 09/02/94	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	: 137.5	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 133.67	LOG MEASURED FROM	: GL	DF	:
LOG TOP	: 0.46	DRL MEASURED FROM	: GL	GL	:
CASING DRILLER	: 12.0	LOGGING UNIT	: 8903		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: .25	RECORDED BY	: T. LEWYCKYJ		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 25.9	RM	: 0	TYPE	: 9030AA
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 0
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	: MANALTA 7
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH	: 10000
REMARKS	:				

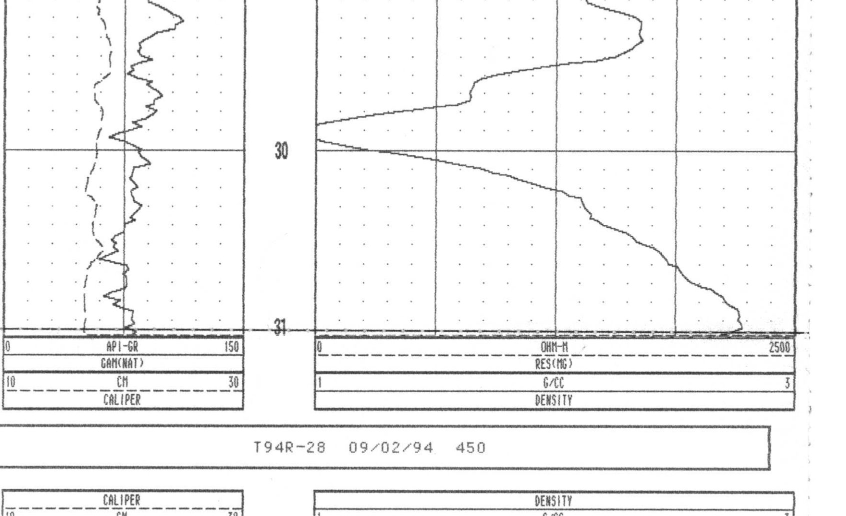
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



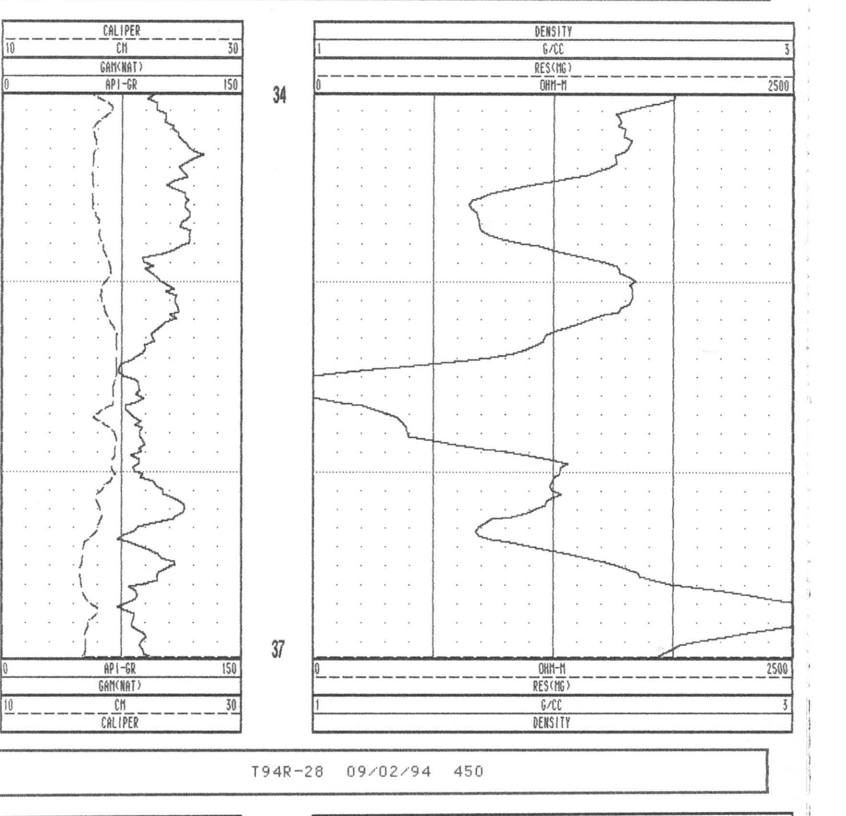
T94R-28 09/02/94 450



T94R-28 09/02/94 450



T94R-28 09/02/94 450



T94R-28 09/02/94 450

T94R-28 09/02/94 450

#878

Century Corporation

EXPANDED DENSITY

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:			
WELL	: T94R-29						
LOCATION/FIELD	: TELKWA						
COUNTY	:						
STATE	:						
SECTION	:	TOWNSHIP	:	RANGE	:		
DATE	: 09/04/94	PERMANENT DATUM	: GL	ELEVATIONS			
DEPTH DRILLER	: 152.9	ELEV. PERM. DATUM	:	KB	:		
LOG BOTTOM	: 151.10	LOG MEASURED FROM	: GL	DF	:		
LOG TOP	: 0.46	DRL MEASURED FROM	: GL	GL	:		
CASING DRILLER	: 4.8	LOGGING UNIT	: 8903				
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY				
CASING THICKNESS	: .25	RECORDED BY	: T. LEWYCKYJ				
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL		
MAGNETIC DECL.	: 25.9	RM	: 0	TYPE	: 9030AA		
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 1		
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	: MANALTA 7		
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH	: 10000		
REMARKS	:						

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

Century Corporation

GAMMA-RES-DENSITY

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:	
WELL	: T94R-29				
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 09/04/94	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	: 152.9	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 151.10	LOG MEASURED FROM	: GL	DF	:
LOG TOP	: 0.46	DRL MEASURED FROM	: GL	GL	:
CASING DRILLER	: 4.8	LOGGING UNIT	: 8903		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: .25	RECORDED BY	: T. LEWYCKYJ		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 25.9	RM	: 0	TYPE	: 9030AA
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 5
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	: MANALTA 6
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH	: 10000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

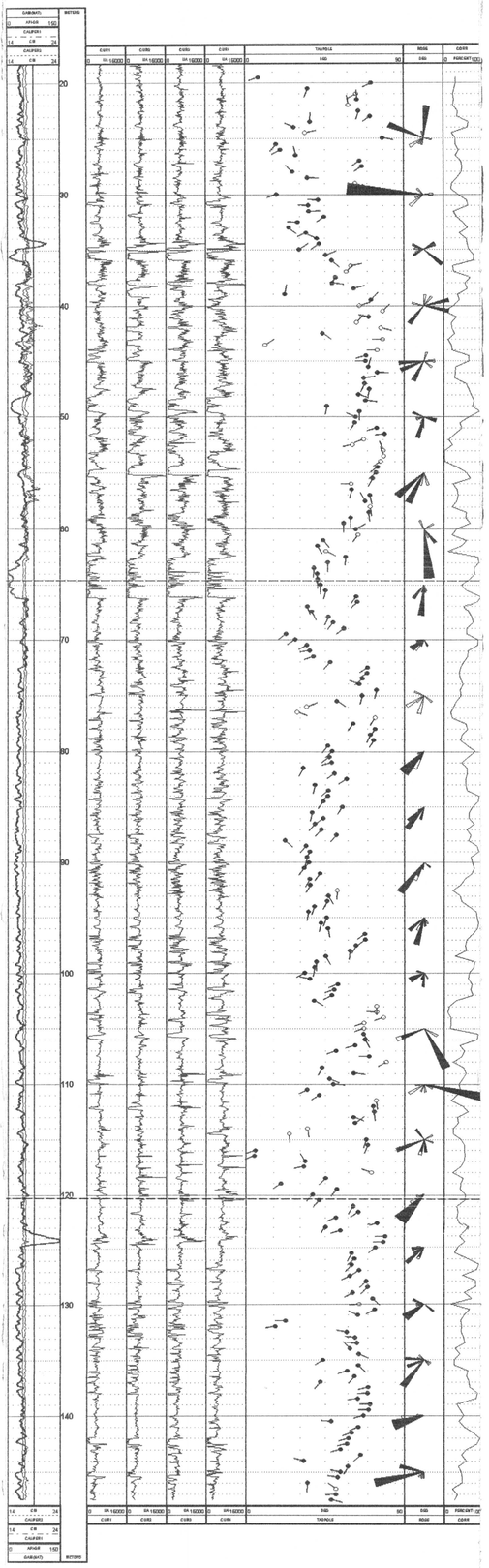
T94R-29 09/04/94 450

Century GEOPHYSICAL CORP.

DIPMETER

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:	
WELL	: T94R-29				
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 09/04/94	PERMANENT DATUM	: GL	ELEVATIONS:	
DEPTH DRILLER	: 152.9	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 147.50	LOG MEASURED FROM:	GL	DF	:
LOG TOP	: 18.27	DRL MEASURED FROM:	GL	GL	:
CASING DRILLER	: 4.8	LOGGING UNIT	: 8903		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS:	.25	RECORDED BY	: T. LEWYCKYJ		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: PROCESSED
MAGNETIC DECL.	: 25.900	RM	: 0	TYPE	: 9400A
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 2.dip
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	: diptest.
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH:	10000
REMARKS:					

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



CGC

Century CORPORATION

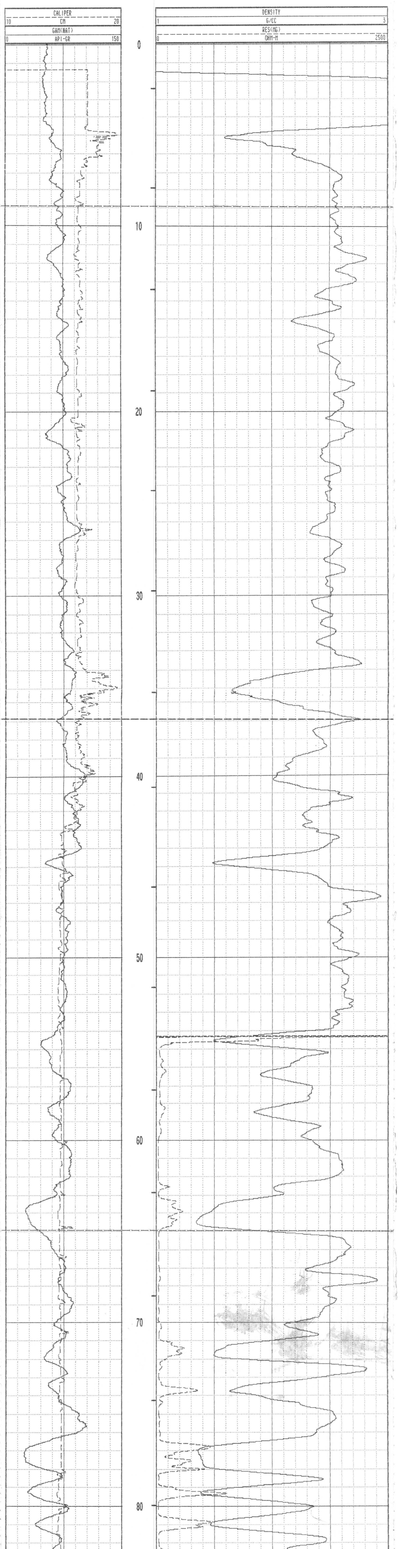
GAMMA-RES-DENSITY

COMPANY	: MANALTA COAL LTD.		OTHER SERVICES:
WELL	: T94R-29C		
LOCATION/FIELD	: TELKWA		
COUNTY	:		
STATE	:		
SECTION	:	TOWNSHIP :	RANGE :

DATE	: 09/06/94	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	: 86.8	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	: 85.83	LOG MEASURED FROM:	GL	DF	:
LOG TOP	: -0.34	DRL MEASURED FROM:	GL	GL	:
CASING DRILLER	: 4.0	LOGGING UNIT	: 0903		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: .25	RECORDED BY	: T. LEWYCKYJ		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 25.9	RM	: 0	TYPE	: 9030AA
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 6
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	: MANALTA 6
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH:	10000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

#878



Century Corporation (CGC)

EXPANDED DENSITY

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:	
WELL	: T94R-29C				
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 09/06/94	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	: 86.8	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 85.83	LOG MEASURED FROM	: GL	DF	:
LOG TOP	: -0.34	DRL MEASURED FROM	: GL	GL	:
CASING DRILLER	: 4.8	LOGGING UNIT	: 8903		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: .25	RECORDED BY	: T. LEWYCKYJ		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 25.9	RM	: 0	TYPE	: 9030AA
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 2
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	: MANALTA 7
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH	: 10000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

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Century GEOPHYSICAL CORP.

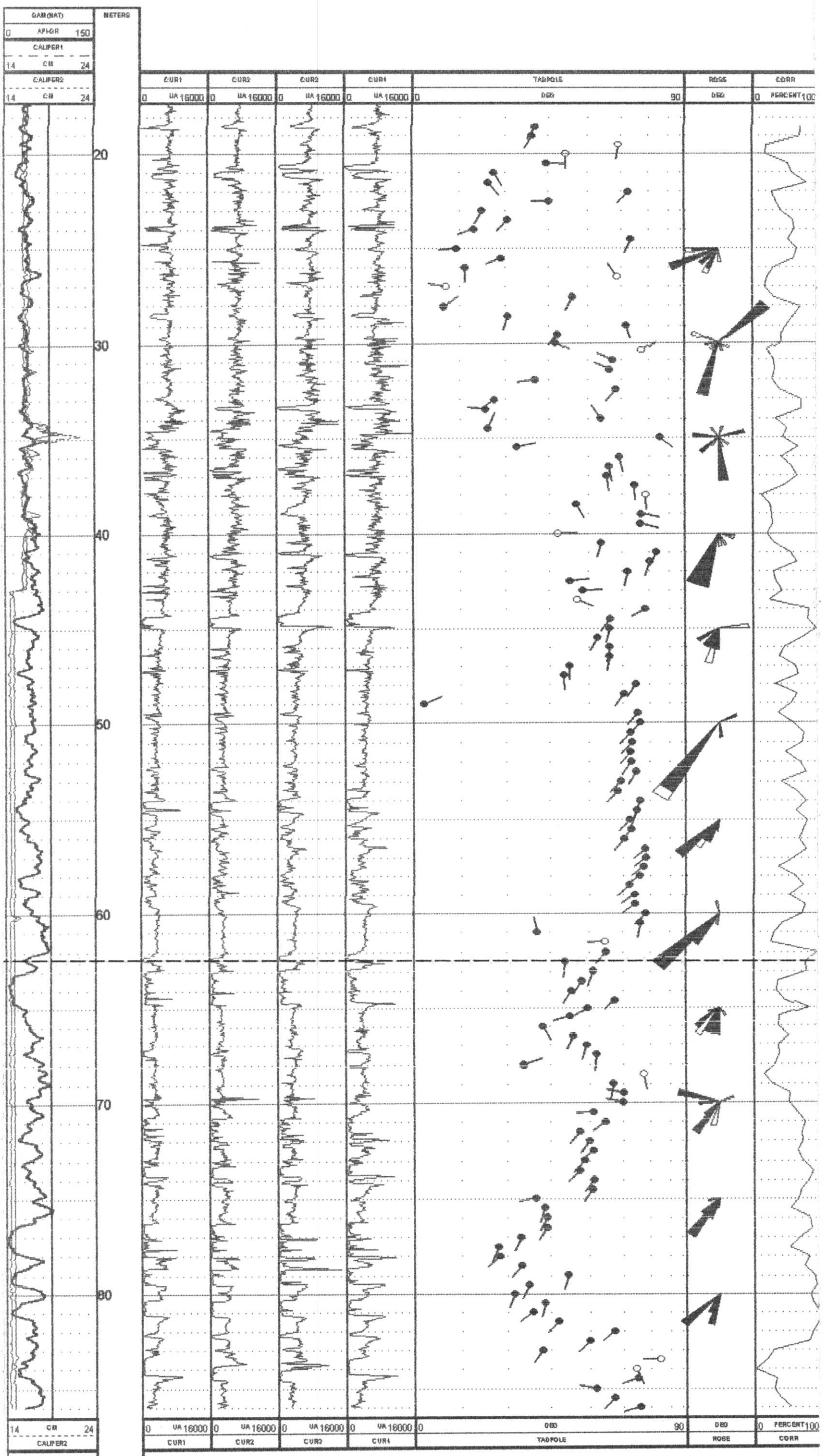
DIPMETER

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:	
WELL	: T94R-29C				
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 09/06/94	PERMANENT DATUM	: GL	ELEVATIONS:	
DEPTH DRILLER	: 86.8	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 86.00	LOG MEASURED FROM	: GL	DF	:
LOG TOP	: 17.28	DRL MEASURED FROM	: GL	GL	:
CASING DRILLER	: 4.8	LOGGING UNIT	: 8903		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS	: .25	RECORDED BY	: T. LEWYCKYJ		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: PROCESSED
MAGNETIC DECL.	: 25.900	RM	: 0	TYPE	: 9400A
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 5.dip
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	: diptest.
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH	: 10000

REMARKS:

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

#878



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

CLIENT : MANALTA COAL LTD.
FIELD OFFICE : CALGARY
DATA FROM :
MAG. DECL. : 25.900

HOLE ID. : T94R-29C
DATE OF LOG : 09/06/94
PROBE : 9400A . 367
DEPTH UNITS : METERS LOG 8

HOLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
17.3	17.28	0.00	0.00	0.0	32.5	0.8	32.5
22.3	22.28	0.07	0.02	0.1	19.0	0.9	17.8
27.3	27.28	0.15	0.05	0.2	19.7	0.9	4.3
32.3	32.28	0.24	0.05	0.2	11.2	1.3	358.9
37.3	37.28	0.34	0.03	0.3	4.5	1.6	338.7
42.3	42.27	0.48	-0.01	0.5	359.3	1.7	346.9
47.3	47.27	0.62	-0.03	0.6	356.9	1.4	348.2
52.3	52.27	0.72	-0.06	0.7	354.9	1.2	330.6
57.3	57.27	0.81	-0.10	0.8	352.9	1.2	333.6
62.3	62.27	0.89	-0.13	0.9	351.4	0.9	341.3
67.3	67.27	0.96	-0.16	1.0	350.8	1.0	344.9
72.3	72.27	1.04	-0.18	1.1	350.1	0.8	344.1
77.3	77.27	1.11	-0.21	1.1	349.4	0.8	355.6
82.3	82.27	1.17	-0.23	1.2	349.0	0.8	347.6
86.6	86.53	1.23	-0.25	1.3	348.6	0.8	332.0

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

CLIENT : MANALTA COAL LTD.
FIELD OFFICE : CALGARY
DATA FROM :
MAG. DECL. : 25.900

HOLE ID. : T94R-29C
DATE OF LOG : 09/06/94
PROBE : 9400A . 367
DEPTH UNITS : METERS LOG 8

HOLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
17.3	17.28	0.00	0.00	0.0	32.2	0.8	31.9
20.0	20.00	0.04	0.02	0.0	24.8	1.0	23.0
25.0	25.00	0.11	0.04	0.1	21.4	1.1	19.2
30.0	30.00	0.20	0.06	0.2	15.6	1.0	340.7
35.0	35.00	0.29	0.04	0.3	8.0	1.0	359.0
40.0	40.00	0.42	0.01	0.4	1.8	1.7	349.1
45.0	44.99	0.56	-0.02	0.6	358.1	1.6	349.1
50.0	49.99	0.68	-0.05	0.7	355.9	1.3	338.0
55.0	54.99	0.77	-0.08	0.8	353.8	1.2	336.9
60.0	59.99	0.85	-0.12	0.9	352.0	0.9	346.5
65.0	64.99	0.93	-0.14	0.9	351.1	1.0	339.8
70.0	69.99	1.01	-0.17	1.0	350.4	0.8	339.5
75.0	74.99	1.08	-0.19	1.1	349.7	0.9	339.6
80.0	79.99	1.14	-0.21	1.2	349.4	0.8	341.5
85.0	84.99	1.21	-0.24	1.2	348.9	0.8	331.0
86.6	86.53	1.23	-0.25	1.3	348.6	0.8	332.0

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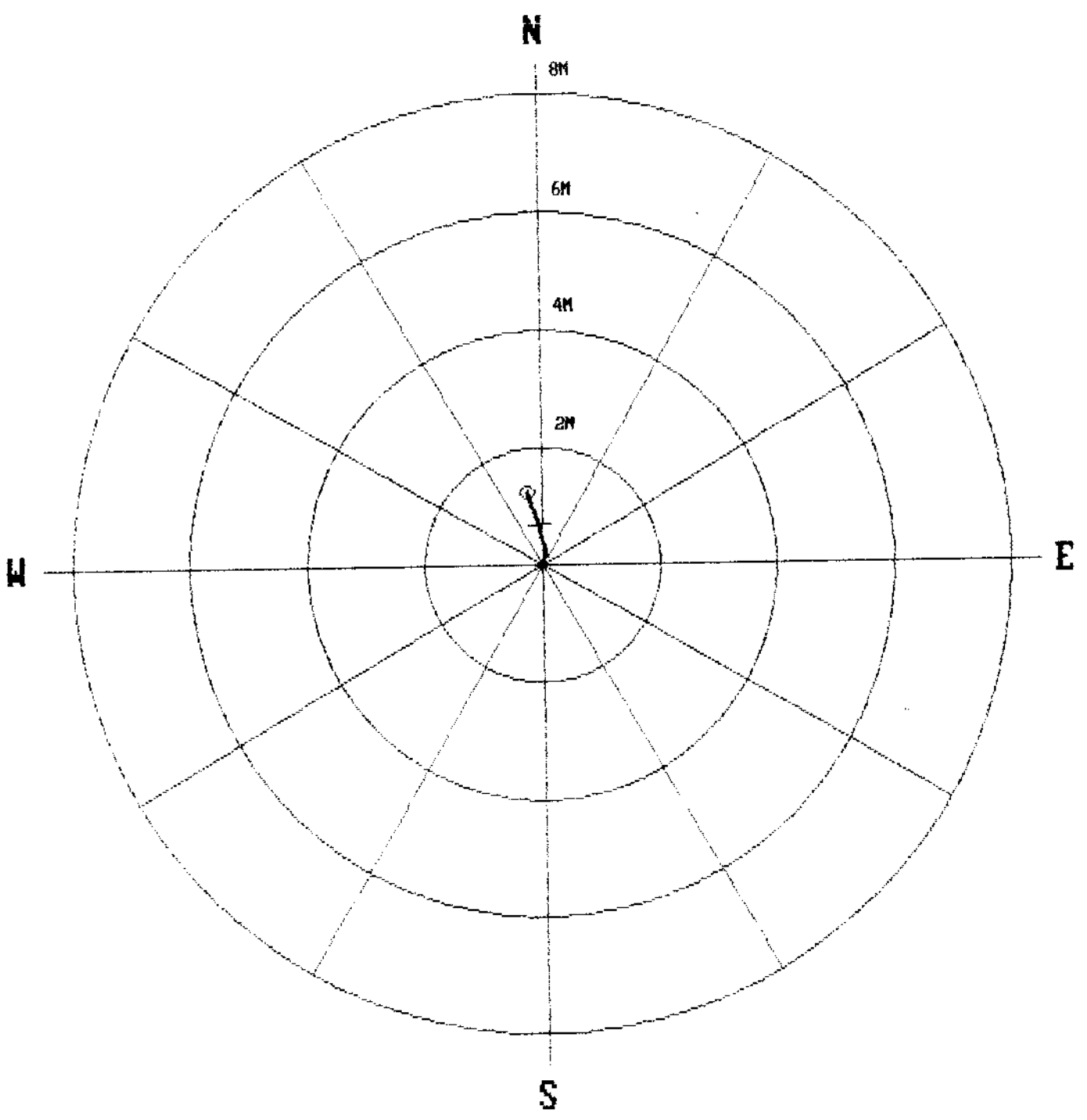
PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: MANALTA COAL LTD.
LOCATION: TELKWA
HOLE ID: T94R-29C
DATE OF LOG: 09/06/94
PROBE: 9400A 367

MAG DECL: 25.9

SCALE: 1 M/CM
TRUE DEPTH: 86.54 M
AZIMUTH: 348.6
DISTANCE: 1.3 M
+ = 50 M INCR
○ = BOTTOM OF HOLE



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#878

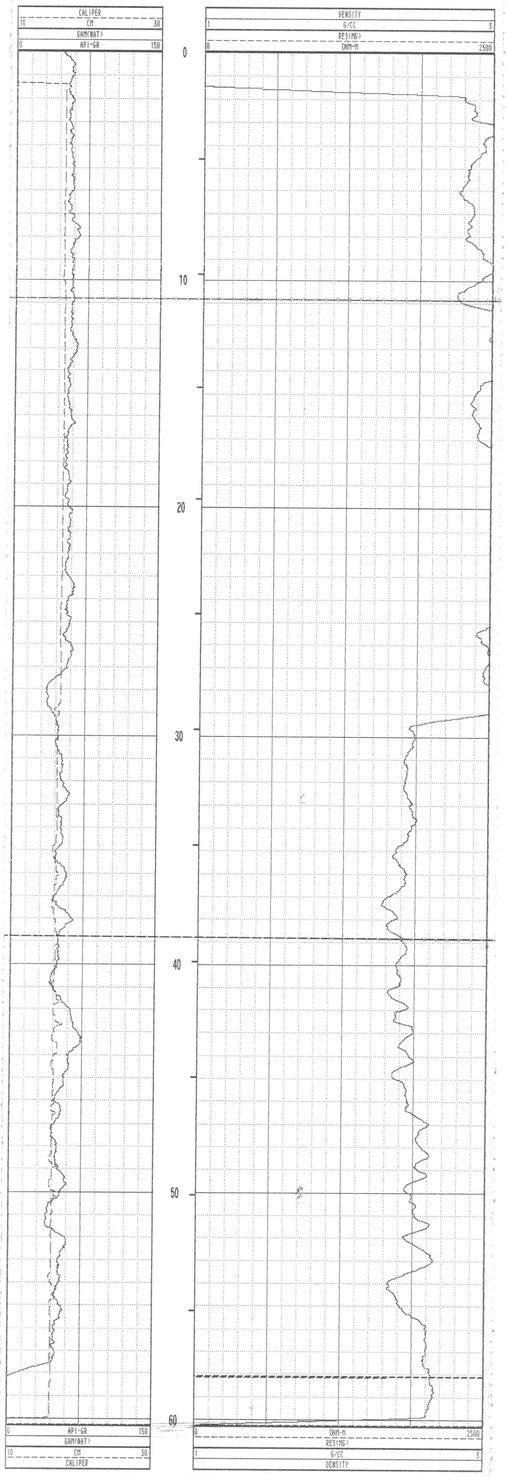
CGC

Century CORPORATION

GAMMA-RES-DENSITY

COMPANY	: MANALTA COAL LTD.			OTHER SERVICES:	
WELL	: T94R-30				
LOCATION/FIELD	: TELKWA				
COUNTY	:				
STATE	:				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 09/03/94	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	: 61	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	: 60.28	LOG MEASURED FROM:	GL	DF	:
LOG TOP	: -0.44	DRL MEASURED FROM:	GL	GL	:
CASING DRILLER	: 29.3	LOGGING UNIT	: 8903		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS:	.25	RECORDED BY	: T. LEWYCKYJ		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: ORIGINAL
MAGNETIC DECL.	: 25.9	RM	: 0	TYPE	: 9030AA
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 0
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	: MANALTA 6
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH:	10000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



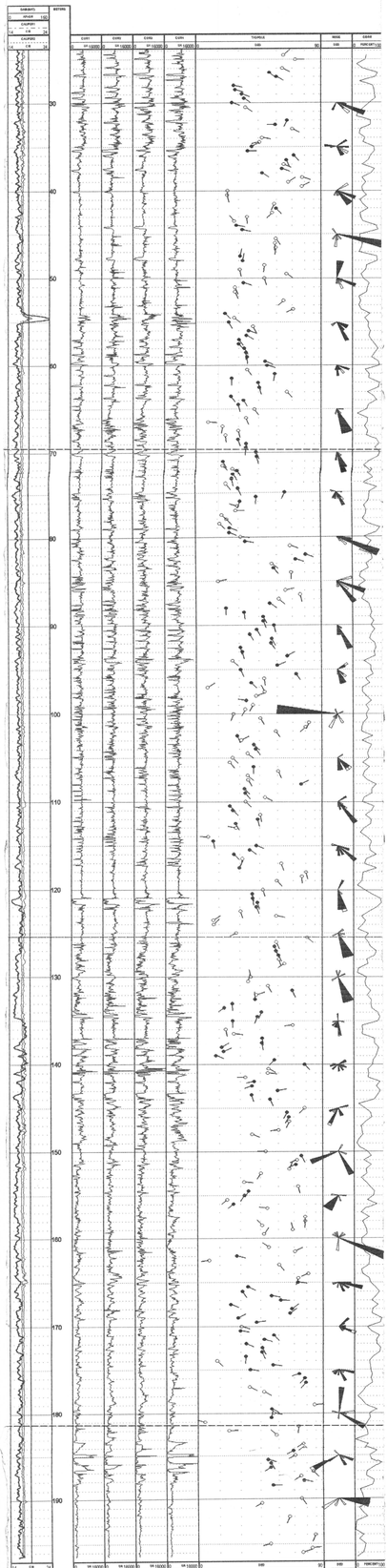
T94R-30 09/03/94 450

Century GEOPHYSICAL CORP.

DIPMETER

COMPANY	: MANALTA COAL LTD.	OTHER SERVICES:	
WELL	: 15AR-31		
LOCATION/FIELD	: TELKWA		
COUNTY	:		
STATE	:		
SECTION	:	TOWNSHIP :	RANGE :

DATE	: 09/06/94	PERMANENT DATUM	: GL	ELEVATIONS:	
DEPTH DRILLER	: 201.4	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 196.50	LOG MEASURED FROM:	GL	DF	:
LOG TOP	: 23.77	DRL MEASURED FROM:	GL	GL	:
CASING DRILLER	: 7.9	LOGGING UNIT	: 8903		
CASING TYPE	: STEEL	FIELD OFFICE	: CALGARY		
CASING THICKNESS:	.25	RECORDED BY	: T. LEWYCKYJ		
BIT SIZE	: 16.5	BOREHOLE FLUID	: WATER	FILE	: PROCESSED
MAGNETIC DECL.	: 25.900	RM	: 0	TYPE	: 9400A
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0	LOG	: 4.dip
FLUID DENSITY	: 1.1	MATRIX DELTA T	: 0	PLOT	:
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 0	THRESH:	10000
REMARKS:					

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

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