



COAL

LITHOLOGY LOG

SONDE TYPE  
COAL  
COMBINATION  
SONDE

LOG SUITE  
GAMMA RAY  
L.S. DENSITY  
CALIPER

WITNESSES

BOREHOLE MR81 05  
CLIENT DEBISON MINES  
AREA FRAMES  
COUNTRY CANADA  
DATE LOGGED 19/09/81  
DEPTH SCALE 200:1  
LOG SCALE 1 of 5 LOGS

BOREHOLE DATA  
PERMANENT DATA  
ELEVATION OF F.O.  
MAGNETIC STRIKE  
DEPTH REACHED  
CASING SIZE  
CASING SEALS

OPERATION DATA  
138  
GAMMA RAY  
L.S. DENSITY  
CALIPER  
HELD IN BOX  
37/258

EQUIPMENT AND RECORDING DATA table with columns for LOG, EQUIPMENT, TAPING, PANEL, CAL COEFF, DEPTHS, SEAM LOG RUN.

COAL QUALITY/SEAM THICKNESS LOG INTERVALS table with columns for FROM, TO, INTERVAL, TOTAL.

ADDITIONAL SONDES RUN table with columns for SONDE, LOG, GENERAL SCALE LOG, DETAIL SCALE LOG, REFER TO.

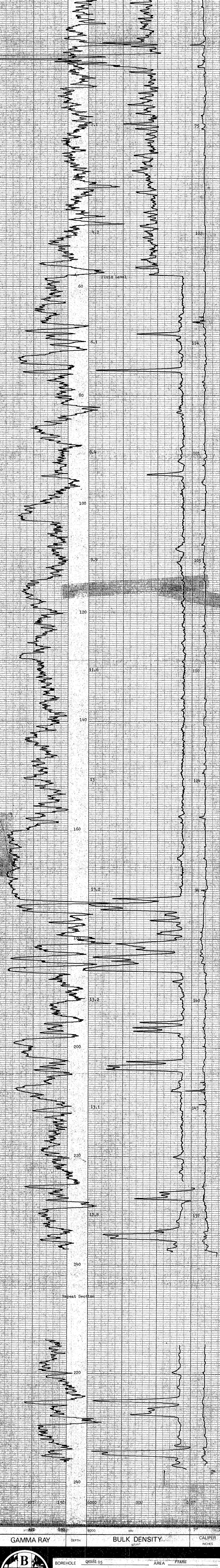
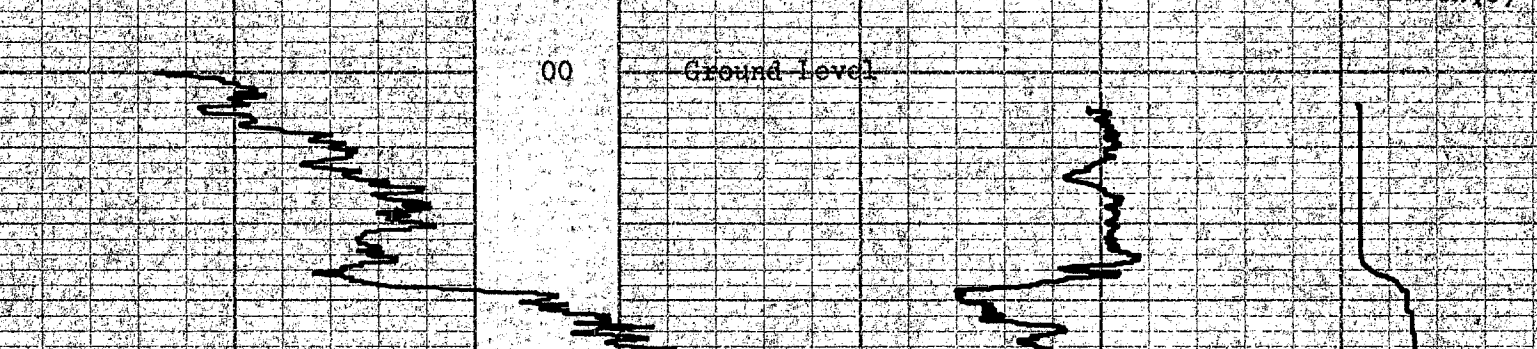
BPB COAL LITHOLOGY LOG

CALIBRATION DATA

JIG No, VALUE @ 2 DIAM, JIG CAL DATE, JIG VALUE, SDU @, g/cm³, ins, cps.

GAMMA RAY, DEPTH, BULK DENSITY, CALIPER

HOLE SIZE CORRECTION DATA



GAMMA RAY, DEPTH, BULK DENSITY, CALIPER



BOREHOLE MR81 05 AREA FRAMES  
CLIENT DEBISON MINES COUNTRY CANADA  
COAL LITHOLOGY LOG

72-01111111 81(5)A

Pr-QUINTETE 8137



NEUTRON-NEUTRON

BOREHOLE QMR81 05

CLIENT DENISON MINES

AREA FRAMB

COUNTRY CANADA

DATE LOGGED 13/09/81

EQUIP SCALE 20011

2. OF 5 LOGS

BOREHOLE DATA REFER TO LITHOLOGY LOG

OPERATION DATA REFER TO " LOG

EQUIPMENT AND RECORDING DATA

LOG LOG TYPING PANEL COLI

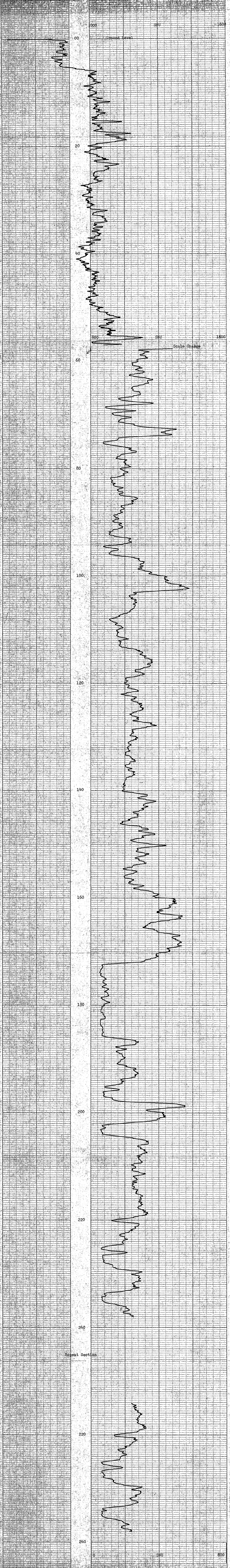
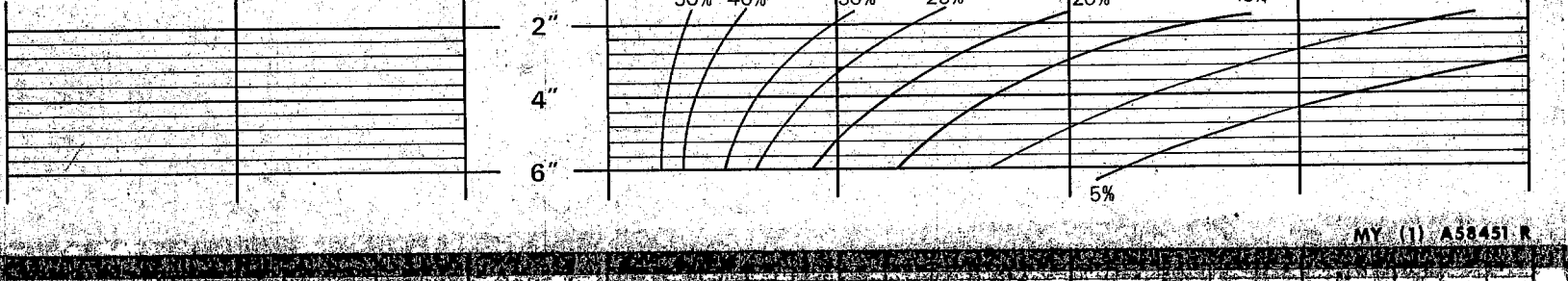
155 RECORD SHEET 555 NORM

31-1 Y 9 2 1 .74

REMARKS

615

GAMMA	DEPTH	NEUTRON-NEUTRON
0	0	0
150	800	800



GAMMA	DEPTH	NEUTRON-NEUTRON
0	0	0
150	800	800



BOREHOLE QMR81 05  
 CLIENT DENISON MINES

AREA FRAMB  
 COUNTRY CANADA

NY A54552

R2-00000000 81(5)A



BOREHOLE QMR-2104  
 CLIENT Denison Mines  
 AREA Exton, B.C.  
 COUNTRY Canada  
 DEPTH SCALE 1:200  
 DATE LOGGED 23.09.05  
 1 of 1 LOGS

**COAL LITHOLOGY LOG**

PERMANENT ID: QMR2104  
 ELEVATION OF #10: 2100  
 MASSBURNINGS/ROOM: C20014  
 DEPTH REACHED: 213.7  
 CASING SHOE: 6.1  
 BIT SIZES: 1 6 10 5.0 2 5 10 21.5, 7  
 CASING SIZES: 1 7 10 6.1 2 10

**BOREHOLE DATA**

FLUID DATA

NATURE: Water  
 LEVEL: 2100  
 VISCOSITY: 100  
 TEMPERATURE: 10

**SONDE TYPE**  
 COAL COMBINATION SONDE

**LOG SUITE**  
 GAMMA RAY  
 U.S. DENSITY  
 CALIPER

**OPERATION DATA**  
 FIRST READING: 211  
 LAST READING: 0  
 INTERNAL LOGGED: 211  
 UNIT TRACK No: 101  
 ENGINEER: Head/Inspector  
 WITNESS:

**EQUIPMENT AND RECORDING DATA**

LOG	EQUIPMENT		LOG TAPED	TAPING RECORD SPEED	DIRECT REPLAY	SPEED	PANEL TC SECS	CAL COEFF	DEPTHS		SEAM LOG RUN	
	SONDE	SOURCE							FROM	TO		INTERVAL
GAMMA RAY	101		Yes	9	D	9	1	1.5	210	0	210	Yes
U.S. DENSITY	101	5822	Yes	9	D	9	1/3	7.9	211	1	210	Yes
CALIPER		SIGNAL POSITION	Yes	9	D	9	1/3		211	1	210	Yes

COAL QUALITY/SEAM THICKNESS LOG INTERVALS (Refer to relevant log)

FROM	TO	INTERVAL TOTAL
196	150	121
189	150	104
INTERVAL	7	3

**ADDITIONAL SONDES RUN**

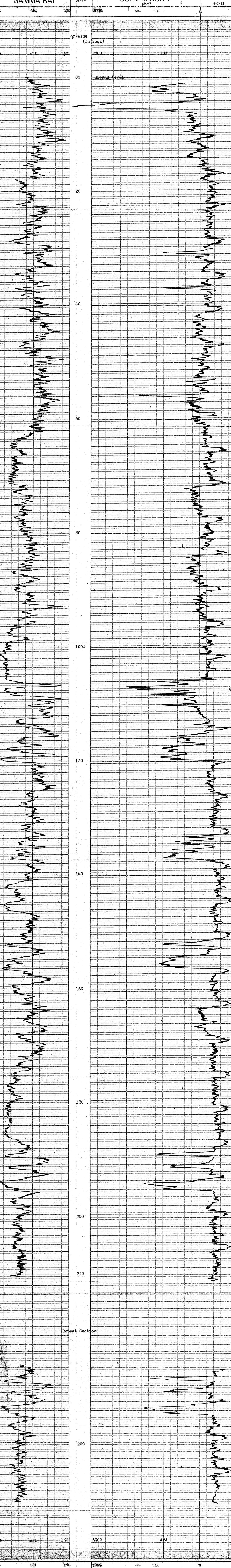
SONDE	LOG	GENERAL SCALE	DETAIL SCALE

**REMARKS**  
 Hole logged through double-wall drill-rods.

**BPB COAL LITHOLOGY LOG**

**CALIBRATION DATA**

JIG No	VALUE	2 DIAM	JIG CAL DATE	JIG VALUE	SDU @	g/cm <sup>3</sup>	ins	cps

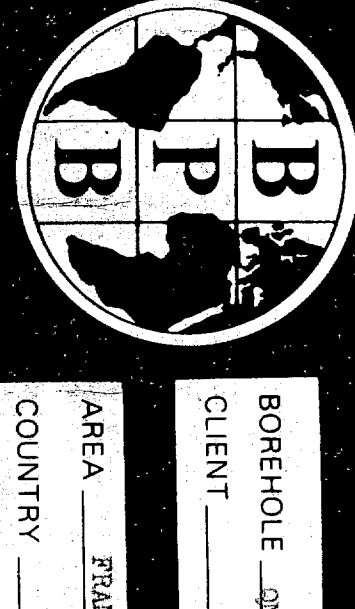


GAMMA RAY	DEPTH	BULK DENSITY	CALIPER
API	150	g/cm <sup>3</sup>	INCHES



BOREHOLE QMR-2104  
 CLIENT Denison Mines  
 AREA Exton, B.C.  
 COUNTRY Canada  
**COAL LITHOLOGY LOG**

92-CURRENT 81(3A)



BOREHOLE: 0881510		CLIENT: HERTSON MINES
AREA: FRASER	PLANT: 20011	DATE LOGGED: 01/09/03
COUNTRY: CANADA	2 OF 2 LOGS	
BOREHOLE DATA REFER TO LITHOLOGY LOG		
OPERATION DATA REFER TO LITHOLOGY LOG		
EQUIPMENT AND RECORDING DATA		
COAL COMBINATION SOURCE		
SIGNAL POSITION		
LOG	PANEL	COAL
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
13	13	13
14	14	14
15	15	15
16	16	16
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18	18	18
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20	20	20
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194	194	194
195	195	195
196	196	196
197	197	197
198	198	198
199	199	199
200	200	200

**B P B COAL QUALITY LOG**

DEPTH	GAMMA RAY
	COAL BULK DENSITY
198	API
6000	g/cm <sup>3</sup>

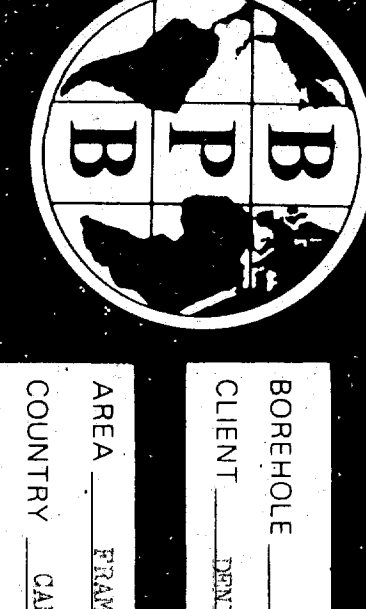


DEPTH	GAMMA RAY
	COAL BULK DENSITY
	g/cm <sup>3</sup>

BOREHOLE: 0881510		AREA: FRASER
CLIENT: HERTSON MINES		COUNTRY: CANADA
<b>COAL QUALITY LOG</b>		



82-007711 81(3)A



BOREHOLE: 82-007711  
 CLIENT: NEW ZEALAND  
 AREA: FRANS  
 COUNTRY: CANADA  
 DATE LOGGED: 07/09/81  
 DEPTH SCALE: 200 ft  
 1/4 OF 8, 1000

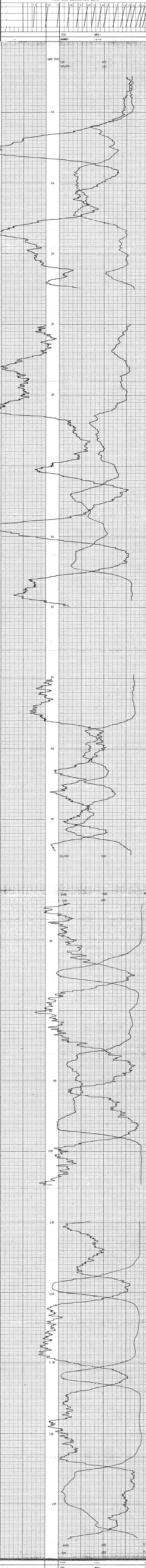
BOREHOLE DATA: REFER TO LITHOLOGY LOG  
 OPERATION DATA: REFER TO LITHOLOGY LOG  
 EQUIPMENT AND RECORDING DATA

LOG: 100  
 LOG NUMBER: 100  
 LOG DATE: 07/09/81  
 LOG TIME: 10:00  
 LOG LOCATION: 100

SONDE TYPE: \_\_\_\_\_  
 COAL COMBINATION: \_\_\_\_\_  
 SONDE: \_\_\_\_\_  
 LOG SUITE: \_\_\_\_\_  
 GAMMA RAY: \_\_\_\_\_  
 L.S. DENSITY: \_\_\_\_\_

REMARKS: **615**

BPB COAL QUALITY LOG



COAL BULK DENSITY: 1.50  
 GAMMA RAY: 100

BOREHOLE: 82-007711  
 CLIENT: NEW ZEALAND  
 AREA: FRANS  
 COUNTRY: CANADA

COAL QUALITY LOG



Page QUINTE 81 (3A)



NEUTRON-NEUTRON  
GAMMA LOG

BOREHOLE QFR2103  
CLIENT DENISON MINES

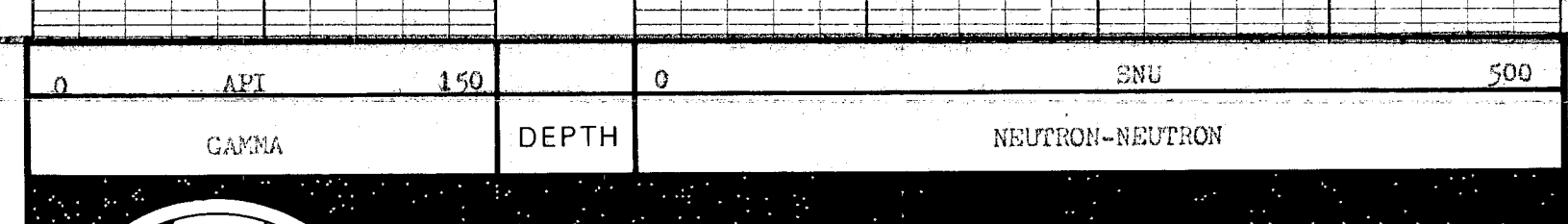
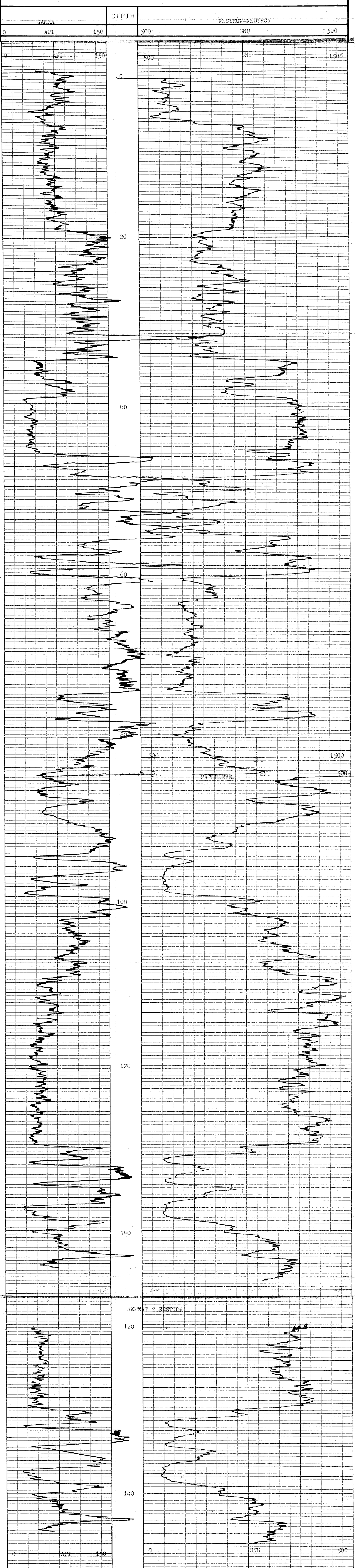
AREA FRAMID  
COUNTRY CANADA  
DATE LOGGED 07/29/91

BOREHOLE DATA REFER TO LITHOLOGY LOG  
OPERATION DATA REFER TO " LOG

EQUIPMENT AND RECORDING DATA

LOG	TAPING	PANEL	DATE
LOG	LOG	LOG	LOG
TAPER	TAPER	TAPER	TAPER
SPEED	SPEED	SPEED	SPEED
RECORD	RECORD	RECORD	RECORD
SECS	SECS	SECS	SECS
NORM	NORM	NORM	NORM
1.60	1.60	1.60	1.60
GAMMA	GAMMA	GAMMA	GAMMA
Y	Y	Y	Y
9	9	9	9
R	R	R	R
9	9	9	9
1	1	1	1
1.51	1.51	1.51	1.51

REMARKS  
**615**



BOREHOLE QFR2103  
CLIENT DENISON MINES  
AREA FRAMID  
COUNTRY CANADA

Re. QUINTEITE S131a



NEUTRON-NEUTRON  
GAMMA LOG

BOREHOLE Q2R2103  
CLIENT DEINSON MINES

AREA FRAME  
COUNTRY CANADA  
DATE LOGGED 03/09/81

DEPTH SCALE  
200:1

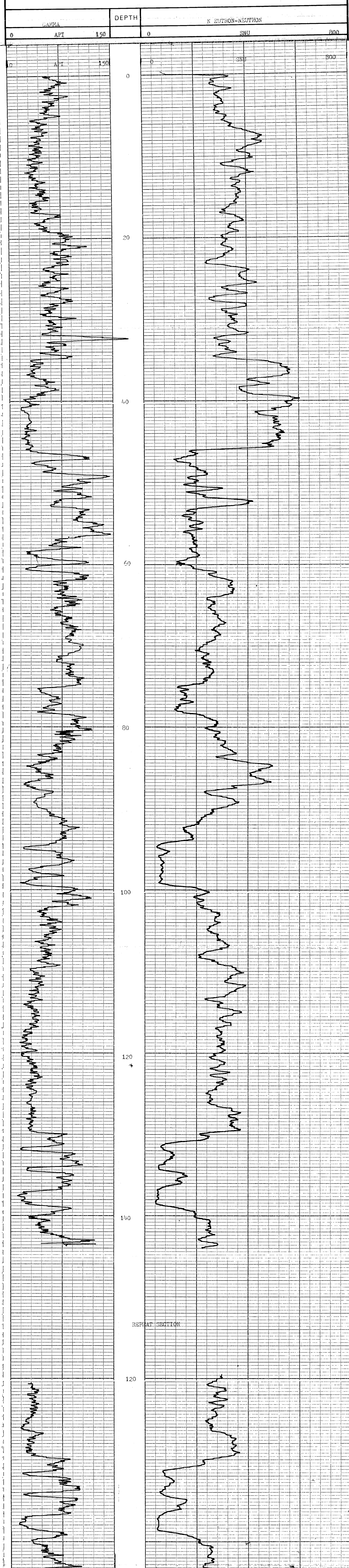
LOG LOSS

BOREHOLE DATA REFER TO LITHOLOGY LOG  
OPERATION DATA REFER TO " LOG

EQUIPMENT AND RECORDING DATA

LOG	TAPPING	PANEL	COEF
LOG	REG	SPD	SEC
N-1	Y	9	D 9 1
GAMMA	Y	9	R 9 1
			1.51

REMARKS  
LOGGED THROUGH BODS  
**615**



GAMMA	DEPTH	NEUTRON-NEUTRON
0	150	0
0	150	800

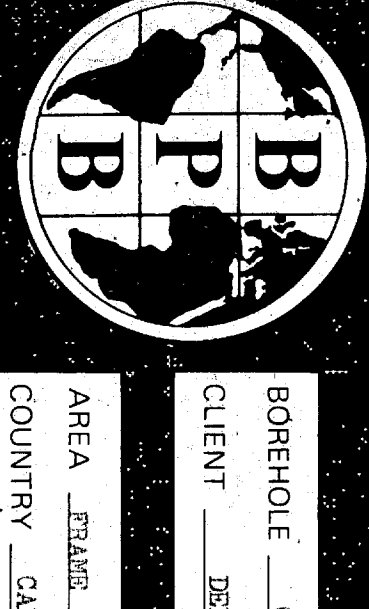


BOREHOLE Q2R2103  
CLIENT DEINSON MINES

AREA FRAME  
COUNTRY CANADA



22-01-2011



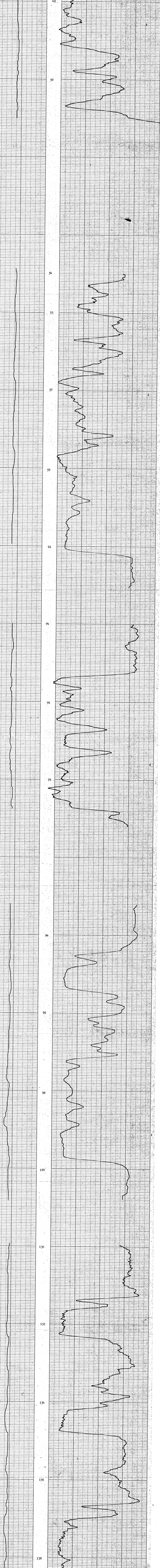
BOREHOLE QFB 8103  
 CLIENT DENISON MINES  
 AREA FRAMB  
 COUNTRY CANADA  
 DATE LOGGED 09/09/85  
 SEAM THICKNESS LOG

SEAM THICKNESS LOG  
 LOG NO. 100  
 LOG DATE 09/09/85  
 LOG TIME 10:00  
 LOG LOCATION 100  
 LOG OPERATOR J. B. BROWN  
 LOG INSTRUMENT MODEL 100  
 LOG SERIAL NO. 100  
 LOG SCALE 100  
 LOG RANGE 100  
 LOG INTERVAL 100  
 LOG CORRECTION 100  
 LOG TOTAL 100

SEAM THICKNESS LOG INTERVALS  
 FROM 139 TO 101 79 62 51  
 FROM 99 TO 75 59 46  
 FROM 6 TO 4 3  
 TOTAL 133  
 REMARKS 615

B P B SEAM THICKNESS LOG

CALIPER INCHES DEPTH BED RESOLUTION DENSITY



CALIPER INCHES DEPTH BED RESOLUTION DENSITY

BOREHOLE QFB 8103  
 CLIENT DENISON MINES  
 AREA FRAMB  
 COUNTRY CANADA  
 SEAM THICKNESS LOG



P2-QUINETTE 8163A



SONIC

BOREHOLE QPR8103  
 CLIENT DENISON MINES

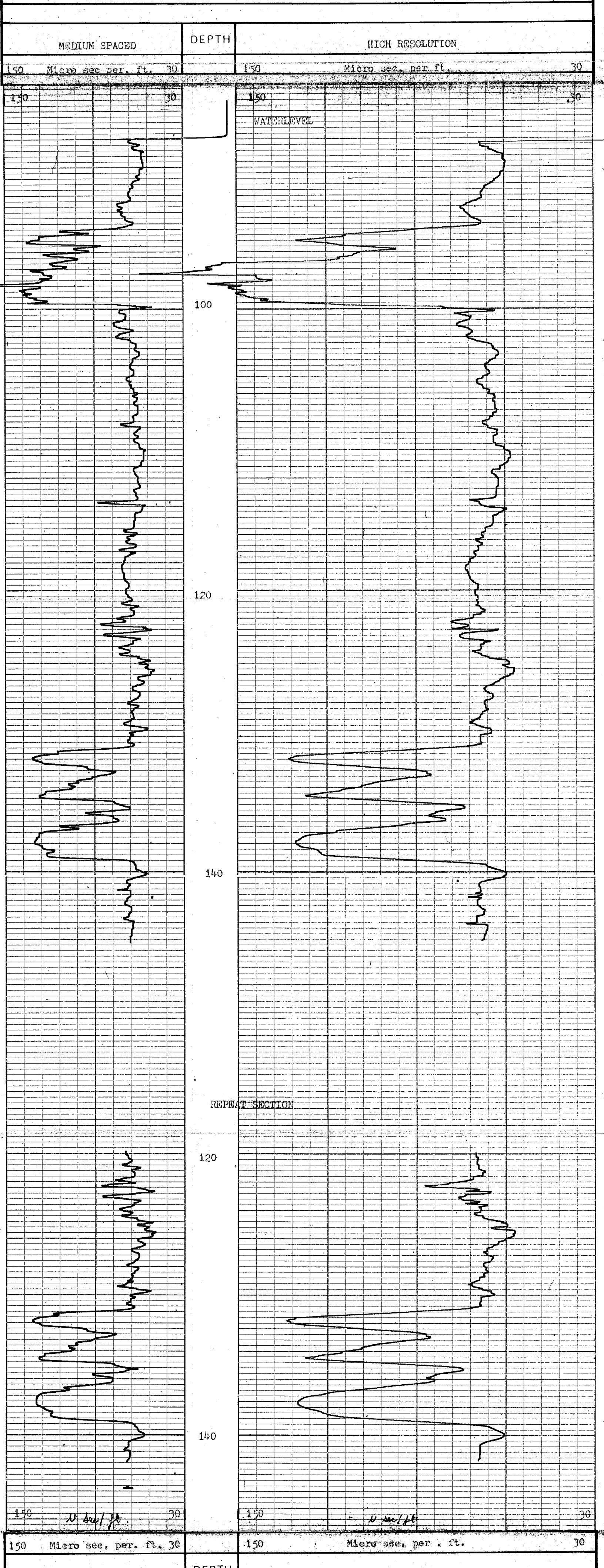
AREA FRAME  
 COUNTRY CANADA  
 DATE LOGGED 03/09/81

DEPTH SCALE  
 200' 1'  
 3 OF 8 LOGS

BOREHOLE DATA REFER TO LITHOLOGY LOG  
 OPERATION DATA REFER TO LITHOLOGY LOG  
 EQUIPMENT AND RECORDING DATA

LOG	TAPING	PANEL	MT. COEFF.
LOG	RECORDING	T.C.	NORM
SONIC	TAPE SPEED	REEL	NO.
	9	D	9
			3

REMARKS  
**615**



BOREHOLE QPR 8103  
 CLIENT DENISON MINES

AREA FRAME  
 COUNTRY CANADA

MT A58452R



22-0117-11 (13)

BOREHOLE QPR103  
CLIENT DENISON MINES

AREA FRANK DEPTH SCALE 200:1  
COUNTRY CANADA  
DATE LOGGED 03/20/84 107.8 LOGS

COAL LITHOLOGY LOG

SONDE TYPE  
COAL COMBINATION  
SONDE

LOG SUITE  
GAMMA RAY  
L.S. DENSITY  
CALIPER

BOREHOLE DATA  
PERMANENT DATUM GEOLIM/LEVEL  
ELEVATION OF P.D. \_\_\_\_\_  
MEASUREMENTS FROM \_\_\_\_\_  
DEPTH REACHED 143.5 147.5  
CASING SIZE 4.6 6.6  
BIT SIZES 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20  
CASING SIZE 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

FLUID DATA  
NATURE \_\_\_\_\_  
LEVEL \_\_\_\_\_  
VISCOSITY \_\_\_\_\_  
BHT \_\_\_\_\_

OPERATION DATA  
FIRST READING 147.5  
LAST READING 0  
INTERVAL LOGGED 147.5  
UNIT-TRUCK No. \_\_\_\_\_  
HEAT-30X \_\_\_\_\_  
ENGINEER DR/201  
WITNESS \_\_\_\_\_

EQUIPMENT AND RECORDING DATA												
COAL COMBINATION SONDE												
LOG	EQUIPMENT			TAPING			PANEL		CAL COEFF	SEAM LOG RUN		
	SONDE	SOURCE	CALIBRATOR	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	T.C SECS			NORM	FROM
GAMMA RAY	101			Y	9	D	9	1	1.60	143.5	0	143.5
L.S. DENSITY				Y	9	D	9	3	7.9	"	"	"
CALIPER	SIDEWALL POSITION			Y	9	D	9	3		"	"	"

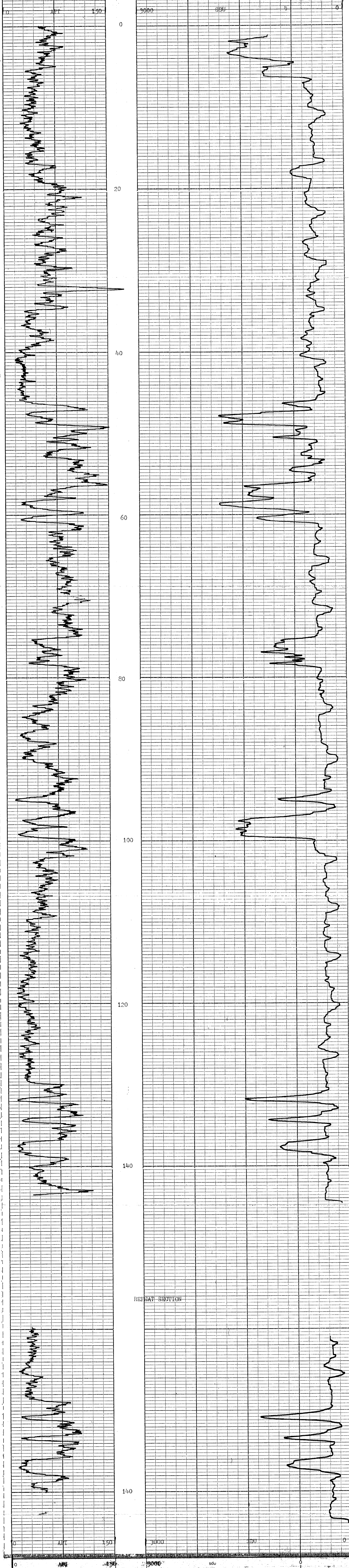
COAL QUALITY/SEAM THICKNESS LOG INTERVALS (Refer to relevant log)									
FROM	139	101	79	62	51	INTERVAL TOTAL			
TO	130	95	75	54	46				
INTERVAL	9	6	4	8	5	33			

ADDITIONAL SONDES RUN				REMARKS
SONDE	LOG	GENERAL SCALE LOG	DETAIL SCALE LOG	
201	N-N	200:1		FIRST RUN OF COS AND NEUTRON DONE THROUGH RODS.
221	DIP	200:1		
217				

BPB COAL LITHOLOGY LOG

CALIBRATION DATA

JIG No	VALUE	@ 2 DIAM	JIG CAL DATE	JIG VALUE	SDU @ 1.03g/cm <sup>3</sup>	2 ins	500 cps
JIG MARK SHOWN AT ABOVE VALUE			JIG No 0041	SPAN 6000	NORM SDU EPS = 7.9	7 ins	912 cps



GAMMA RAY	DEPTH	BULK DENSITY g/cm <sup>3</sup>	CALIPER INCHES
BOREHOLE <u>QPR103</u>		AREA <u>FRANK</u>	
CLIENT <u>DENISON MINES</u>		COUNTRY <u>CANADA</u>	
<b>COAL LITHOLOGY LOG</b>			





RE-DATE 8/13/84

**BOREHOLE** QMR8102  
**CLIENT** DENISON MINES

**AREA** MASS  
**COUNTRY** CANADA

**DATE LOGGED** 01/09/81

**DEPTH SCALE** 2 OF 2 LOSS

**COAL LITHOLOGY LOG**

**BOREHOLE DATA**

PERMANENT DATUM: GROUND SURFACE  
 ELEVATION OF P.D.: 898  
 DRIILLER: [blank]  
 MESS/BR/INSTR./ROM: [blank]  
 CL.: [blank]  
 G.P.: [blank]  
 DEPTH REACHED: 148  
 132.5  
 CASING SIZE: 7.1  
 7.1  
 BIT SIZES: 1 5" TO TD, 2 TO TO, 3 TO TO, 4 TO TO, 5 TO TO  
 CASING STAYS: 1 TO TO, 2 TO TO

**FLUID DATA**

NATURE: AIR

LOG SUIFE: GAMMA RAY, L.S. DENSITY, CALIPER

SONDE TYPE: [blank]  
 COAL COMBINATION: [blank]  
 SONDE: [blank]

OPERATION DATA

FIRST READING: 150  
 LAST READING: 0  
 INTERVAL LOGGED: 130  
 UNIT-TRUCK No: [blank]  
 HEAD-BOX: [blank]  
 ENGINEER: DM/SK

**EQUIPMENT AND RECORDING DATA**

LOG	EQUIPMENT			TAPING			PANEL		CAL COEFF	DEPTHS			SEAM LOG RUN
	SONDE	SOURCE	CALIBRATOR	LOG TAPED	RECORD SPEED	DIRECT REPLAY	SPEED	T.C SECS		FROM	TO	INTERVAL	
GAMMA RAY	101			Y	9	D	9	1	1.51	148	0	148	
L.S. DENSITY				Y	9	D	9	1	7.9	149	0	149	
CALIPER	SIDEWALL POSITION			Y	9	D	9	3		148	0	148	

COAL QUALITY/SEAM THICKNESS LOG INTERVALS (Refer to relevant log)

FROM	TO	INTERVAL	INTERVAL TOTAL
128	118	10	36
37	79	42	49
66	60	6	66
49	40	9	36
36	30	6	30
			39

**ADDITIONAL SONDES RUN**

SONDE	LOG	GENERAL SCALE LOG	DETAIL SCALE LOG

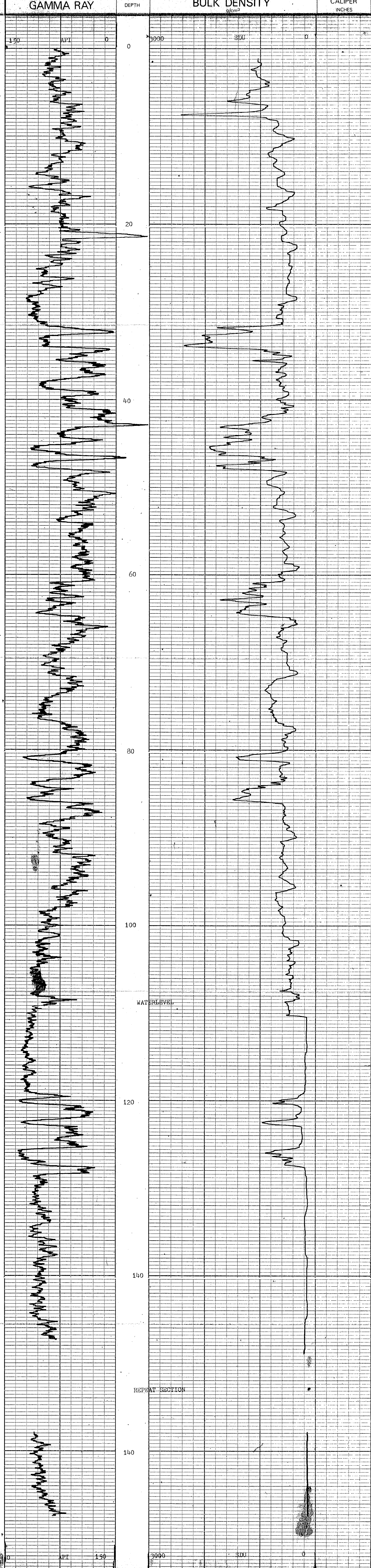
**REMARKS**

NEUTRON AND ONE RUN OF CCS. LOGGED THROUGH RODS

**BPB COAL LITHOLOGY LOG**

**CALIBRATION DATA**

JIG No	VALUE @ 2" DIAM	JIG CAL DATE	JIG VALUE	SDU @ 103 g/cm <sup>3</sup>	2 ins	365 cps
JIG MARK SHOWN AT ABOVE VALUE -		JIG No 0041	SPAN 6000	NORM	SDU CPS 7.9	7 ins 912 cps



GAMMA RAY	DEPTH	BULK DENSITY g/cm <sup>3</sup>	CALIPER INCHES
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**BOREHOLE** QMR8102 **AREA** MASS  
**CLIENT** DENISON MINES **COUNTRY** CANADA

**COAL LITHOLOGY LOG**





DE QUINETTE 8150

**COAL LITHOLOGY LOG**

BOREHOLE: QMR8102  
CLIENT: DENISON MINES  
AREA: MASS  
COUNTRY: CANADA  
DATE LOGGED: 01/09/81  
DEPTH SCALE: 200:1  
10' = 0.1005

PERMANENT DATA: GEOMETRIC  
ELEVATION OF P.D.: BFB  
MAGNETIC STRIKE: 150  
DEPTH REACHED: 150  
CASING SHOE: 7.1  
BIT SIZES: 1 5" TO 7.1" 2 TO 7.1" 3 TO TO 4 TO TO 5 TO TO

SONDE TYPE: COAL COMBINATION SONDE  
LOG SUITE: GAMMA RAY L.S. DENSITY CALIPER

OPERATION DATA: 615  
FIRST READING: 150  
LAST READING: 20  
INTERVAL LOGGED: 150  
UNIT-TICKS No: 10  
UNIT-TICKS: 100  
ENGINEER: JH/SK

**EQUIPMENT AND RECORDING DATA**

LOG	EQUIPMENT		TAPING		PANEL		CAL COEFF	DEPTHS			SEAM LOG RUN
	SONDE	SOURCE	LOG TAPED	RECORD SPEED	DIRECT REPLAY	SPEED		T. SECS	FROM	TO	
GAMMA RAY	101		Y	9	D	9	1	1.51	150	0	150
L.S. DENSITY			Y	9	D	9	1	7.9	151	0	151
CALIPER	SIDEWALL POSITION		Y	9	D	9	.3		150	0	150

COAL QUALITY/SEAM THICKNESS LOG INTERVALS (Refer to relevant log)

FROM	TO	INTERVAL	TOTAL
128	87	66	49
118	79	60	40
10	8	6	9
INTERVAL			39

ADDITIONAL SONDES RUN

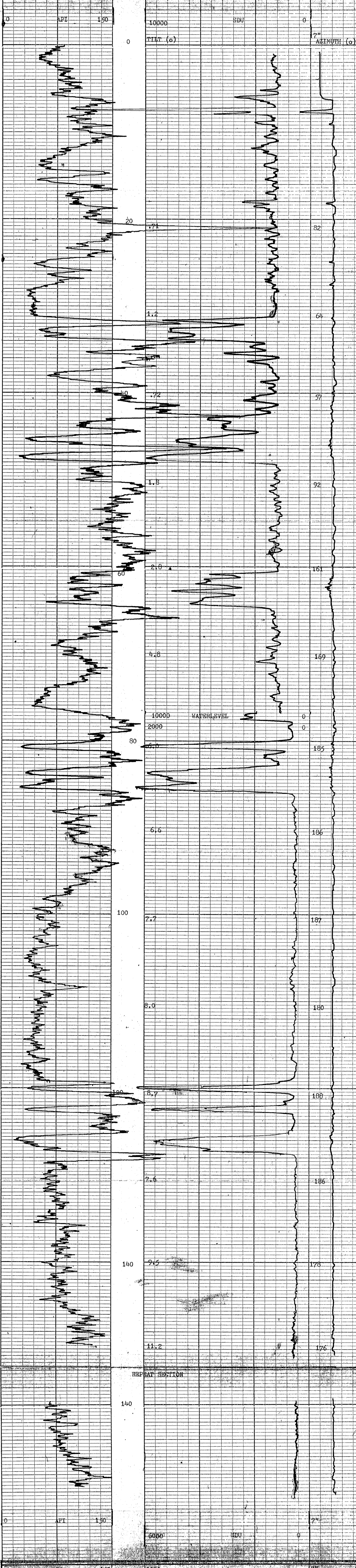
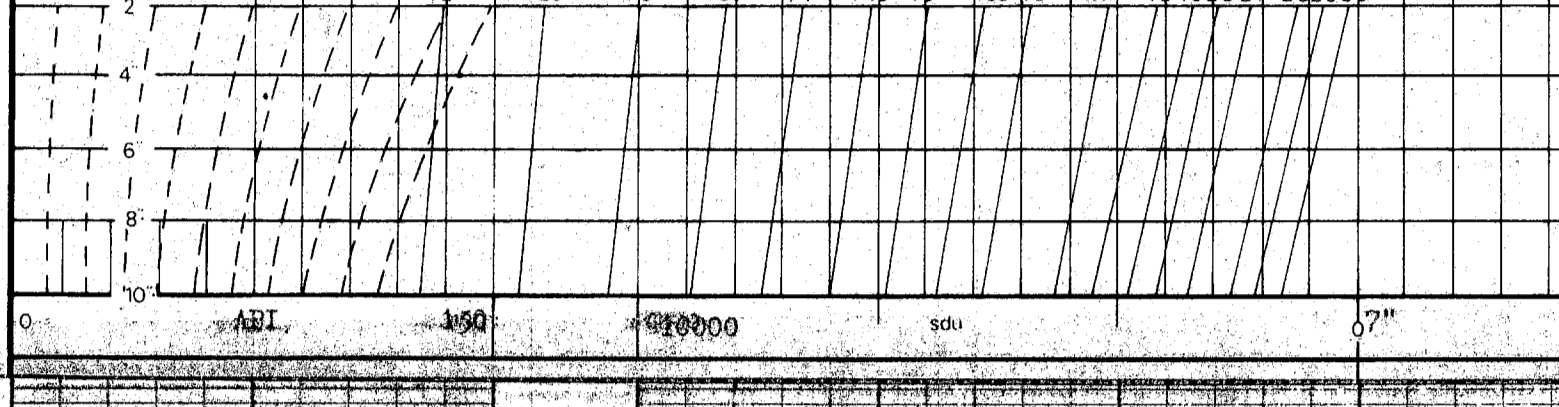
SONDE	LOG	GENERAL SCALE	DETAIL SCALE LOG	REFER TO ADDITIONAL HEADINGS
201	N-N	200:1		
217	DIP	200:1		
221				

**BPB COAL LITHOLOGY LOG**

**CALIBRATION DATA**

JIG No	VALUE @ 2" DIAM	JIG CAL DATE	JIG VALUE	SDU @ 1.03 g/cm <sup>3</sup>	2 ins	365 cps
JIG No 0041	SPAN 6000	NORM	SDU 7.9	7 ins	912 cps	

GAMMA RAY	DEPTH	BULK DENSITY g/cm <sup>3</sup>	CALIPER INCHES
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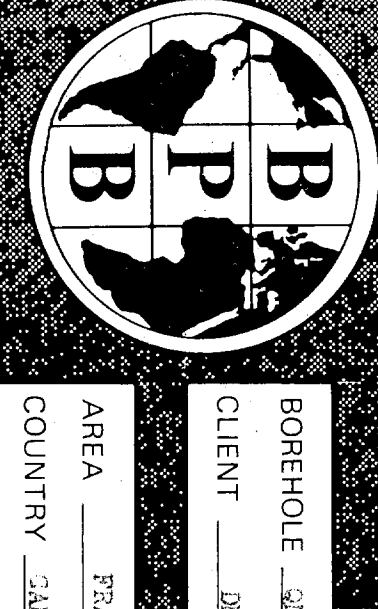
GAMMA RAY	DEPTH	BULK DENSITY g/cm <sup>3</sup>	CALIPER INCHES
-----------	-------	--------------------------------	----------------

**COAL LITHOLOGY LOG**

BOREHOLE: QMR8102  
CLIENT: DENISON MINES  
AREA: MASS  
COUNTRY: CANADA



615



BOREHOLE: 388102  
 CLIENT: DENISON MINES

AREA: FRANKS  
 COUNTRY: CANADA  
 DATE LOGGED: 01/29/24

SEAM THICKNESS LOG

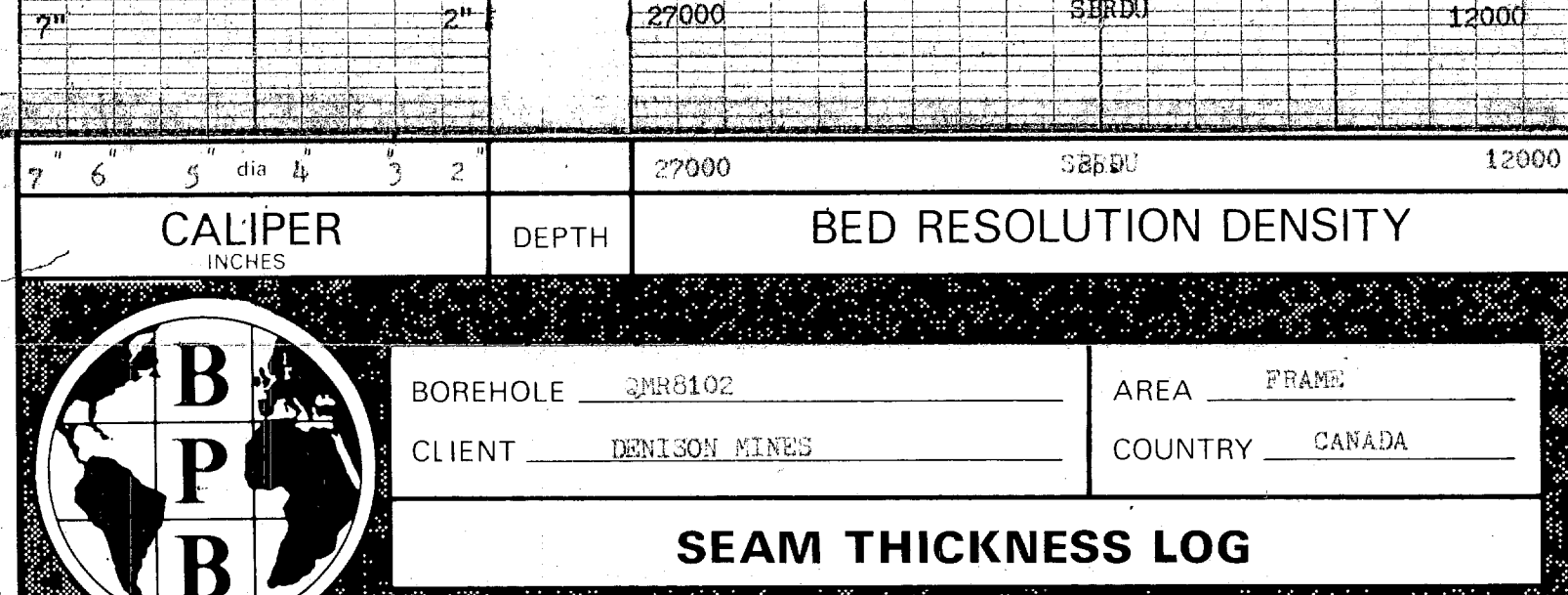
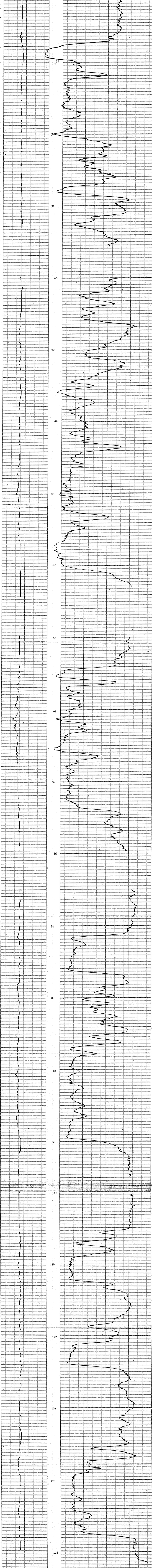
LOG: 118  
 CALIBER: 118  
 CORE NUMBER: 118  
 CORE LENGTH: 2.43

SEAM THICKNESS LOG INTERVALS

FROM: 1.38 TO: 6.19  
 TO: 1.12 TO: 6.04  
 INTERVAL: 1.0 TO: 0.9  
 TOTAL: 4.87

REMARKS: 615

B P B SEAM THICKNESS LOG



BOREHOLE: 388102  
 CLIENT: DENISON MINES  
 AREA: FRANKS  
 COUNTRY: CANADA  
 SEAM THICKNESS LOG



MT#80028

Re-convertite 181(3A)



SONIC

BOREHOLE QMR8102

CLIENT DENTISON MINES

AREA MASS DEPTH SCALE 200 FT

COUNTRY CANADA

DATE LOGGED 01/09/84/31 3 of 8 LOGS

BOREHOLE DATA REFER TO LITHOLOGY LOG

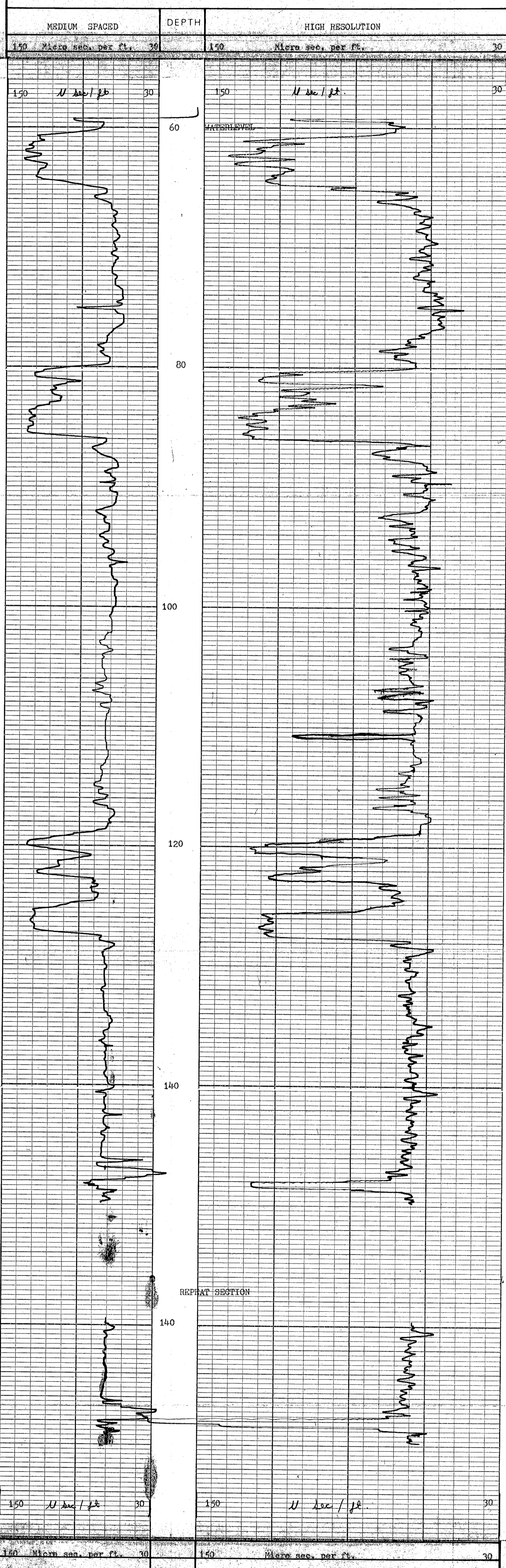
OPERATION DATA REFER TO LITHOLOGY LOG

EQUIPMENT AND RECORDING DATA

LOG	TAPING	RECORDING	PANEL	DATE
LOG	TAPING	RECORDING	PANEL	DATE
LOG	TAPING	RECORDING	PANEL	DATE
LOG	TAPING	RECORDING	PANEL	DATE

REMARKS

**615**



BOREHOLE <u>QMR8102</u>	AREA <u>MASS</u>
CLIENT <u>DENTISON MINES</u>	COUNTRY <u>CANADA</u>



MY 458452R



22-011777 8(3)A



NEUTRON-NEUTRON

BOREHOLE Q1R5102

CLIENT DENISON MINES

AREA FRAMC

COUNTRY CANADA

DATE LOGGED 5/14/93

DEPTH SCALE 200.1

5.0' - 8.00S

BOREHOLE DATA REFER TO LITHOLOGY LOG

OPERATION DATA REFER TO LOG

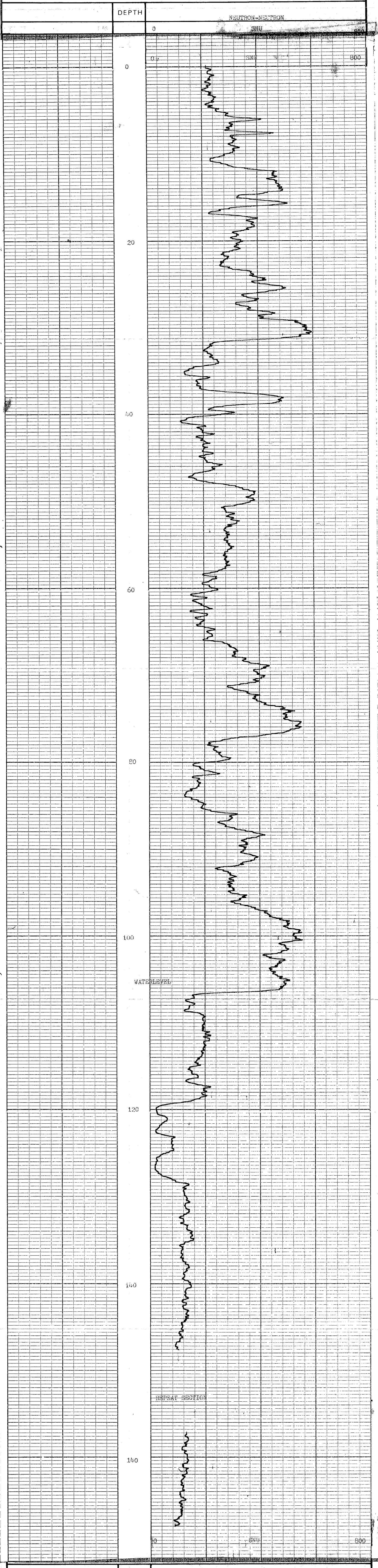
EQUIPMENT AND RECORDING DATA

LOGS

LOG RANGE PANEL CAT  
 TAPING SPEEDS PER SEC NOM  
 N-N Y 9 D 2 1 1.60

REMARKS

615



DEPTH	0	800
	NEUTRON-NEUTRON	
BOREHOLE	Q1R5102	AREA FRAMC
CLIENT	DENISON MINES	COUNTRY CANADA



MY A58452R

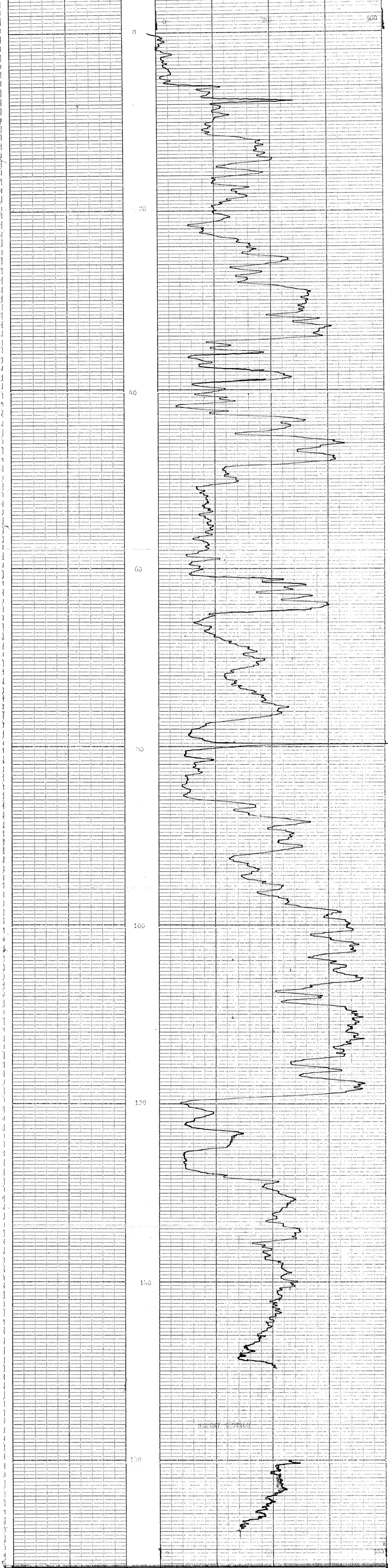
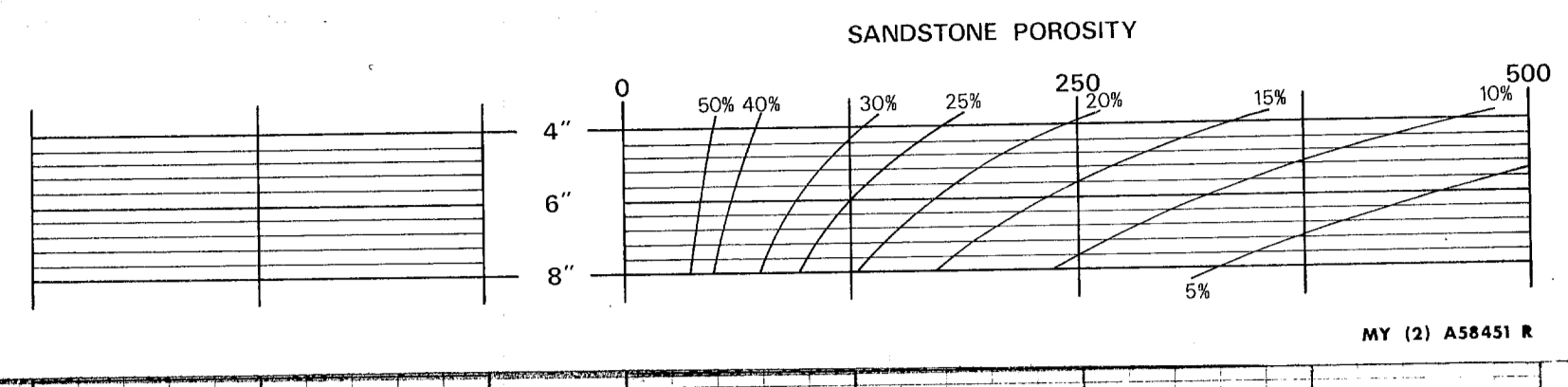
Re-Quintette 8137A



BOREHOLE \_\_\_\_\_  
 CLIENT \_\_\_\_\_  
 AREA \_\_\_\_\_  
 COUNTRY \_\_\_\_\_  
 DATE LOGGED 11/07/11  
 DEPTH SCALE \_\_\_\_\_  
 BOREHOLE DATA REFER TO \_\_\_\_\_  
 OPERATION DATA REFER TO \_\_\_\_\_  
 EQUIPMENT AND RECORDING DATA

LOG	TAPING	PANEL	TEST
LOG	RECORDING SPEED	LOG	NORM
TAPED	SPEED	RECORDING	LOG
RECORDING	SPEED	RECORDING	LOG
RECORDING	SPEED	RECORDING	LOG

DEPTH	



DEPTH	

BOREHOLE \_\_\_\_\_  
 CLIENT \_\_\_\_\_  
 AREA \_\_\_\_\_  
 COUNTRY \_\_\_\_\_



MY A58452R



Pa. 2007-0011 813A



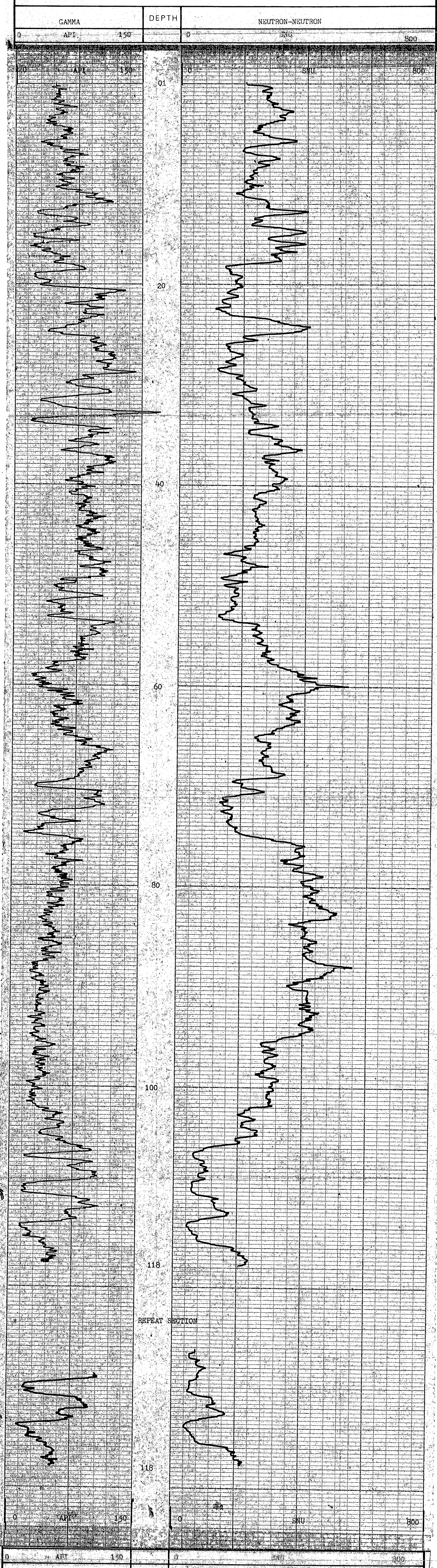
NEUTRON-NEUTRON  
GAMMA RAY

BOREHOLE QMR 8101  
CLIENT DENISON MINES

AREA FRAME 20011  
COUNTRY CANADA  
DATE LOGGED 30 / 09 / 81 2 of 5 LOGS

BOREHOLE DATA REFER TO LITHOLOGY LOG  
OPERATION DATA REFER TO LITHOLOGY LOG  
EQUIPMENT AND RECORDING DATA

LOG	TAPING	LOG RECORDING SPEED	DEPTH	PANEL	CAL
N-N	Y	9	D	9	1
GAMMA	Y	9	D	9	1
REMARKS					4.54
LOGGED THROUGH THE HOLES					678
615					

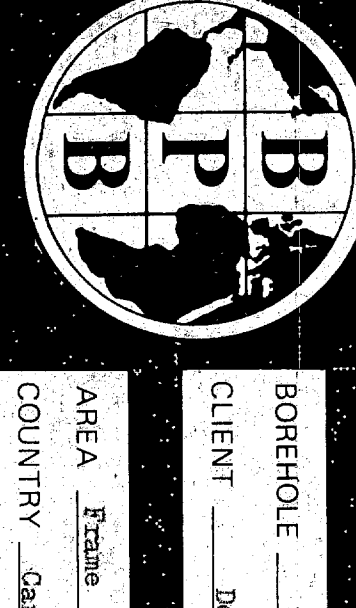


GAMMA	DEPTH	NEUTRON-NEUTRON
API	150	800

	BOREHOLE <u>QMR 8101</u>	AREA <u>FRAME</u>
	CLIENT <u>DENISON MINES</u>	COUNTRY <u>CANADA</u>



74 - QUINTEME 8153a



BOREHOLE QWR-8101  
 CLIENT Dontson Mines  
 AREA Frans DEPTH SCALE 1:25  
 COUNTRY Canada  
 DATE LOGGED 81 09 05 2 OF 3 PAGES

BOREHOLE DATA REF: 1011/1/1/001/LOG  
 OPERATION DATA REF: 1011/1/1/001/LOG  
 EQUIPMENT AND RECORDING DATA

SEAM THICKNESS LOG

LOG TYPE SEAM SERIAL POSITION 1:25  
 COAL COMBINATION SEAM SERIAL POSITION 1:25  
 LOG 1:25 SERIAL POSITION 1:25  
 CALIBRATION YEAR 2 R 2 1/3 1/2

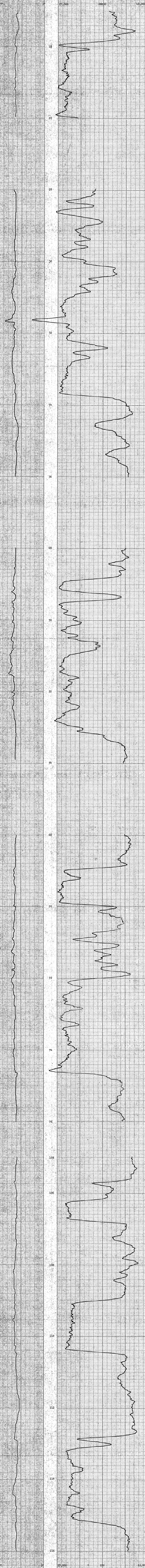
SEAM THICKNESS LOG INTERVALS

FROM	116	76	56	36	29
TO	105	68	48	28	17
INTERVAL	11	8	8	8	3

LOG SUITE  
 CALIBER  
 B.D. DENSITY

REMARKS  
 Open hole re-logged

**B P B SEAM THICKNESS LOG**



CALIPER INCHES DEPTH BED RESOLUTION DENSITY SBR/D

BOREHOLE QWR-8101 AREA Frans  
 CLIENT Dontson Mines COUNTRY Canada

**SEAM THICKNESS LOG**



MY 88002 R





Pa. 20111111 8154

<b>COAL</b>	<b>BOREHOLE DATA</b>	<b>BOREHOLE</b> QMR-8101	<b>DEPTH SCALE</b> 1:200
<b>LITHOLOGY</b>	<b>CLIENT</b> Denison Mines	<b>AREA</b> Frame	<b>DEPTH SCALE</b> 1:200
<b>LOG</b>	<b>DATE LOGGED</b> 01 09 05	<b>COUNTRY</b> Canada	<b>DEPTH SCALE</b> 1:200
<b>SONDE TYPE</b>	<b>PERMANENTUM</b> Ground Level	<b>DEPTH REACHED</b> 119	<b>DEPTH SCALE</b> 1:200
<b>COAL COMBINATION</b>	<b>ELEVATION OF P.D.</b> 819	<b>DEPTH REACHED</b> 119	<b>DEPTH SCALE</b> 1:200
<b>SONDE</b>	<b>WASHERS/FROM</b> Ground	<b>DEPTH REACHED</b> 119	<b>DEPTH SCALE</b> 1:200
<b>LOG SUITE</b>	<b>DRILLER</b> Ground	<b>DEPTH REACHED</b> 119	<b>DEPTH SCALE</b> 1:200
<b>GAMMA RAY</b>	<b>DEPTH REACHED</b> 119	<b>DEPTH REACHED</b> 119	<b>DEPTH SCALE</b> 1:200
<b>L.S. DENSITY</b>	<b>DEPTH REACHED</b> 119	<b>DEPTH REACHED</b> 119	<b>DEPTH SCALE</b> 1:200
<b>CALIPER</b>	<b>DEPTH REACHED</b> 119	<b>DEPTH REACHED</b> 119	<b>DEPTH SCALE</b> 1:200

EQUIPMENT AND RECORDING DATA														
LOG	EQUIPMENT			TAPING		PANEL		CAL COEFF		DEPTHS		SEAM LOG RUN		
	SONDE	SOURCE	CALIBRATOR	LOG TAPED	RECORD SPEED	DIRECT REPLAY	SPEED	T.C SECS	NORM	FROM	TO		INTERVAL	
GAMMA RAY	101			Yes	9	D	9	1		1.51	119	0	119	Yes
DENSITY	101			Yes	9	D	9	1/3	7.9		120	1	119	Yes
CALIPER	101	SIDEWALL POSITION		Yes	9	D	9	1/3			120	1	119	Yes

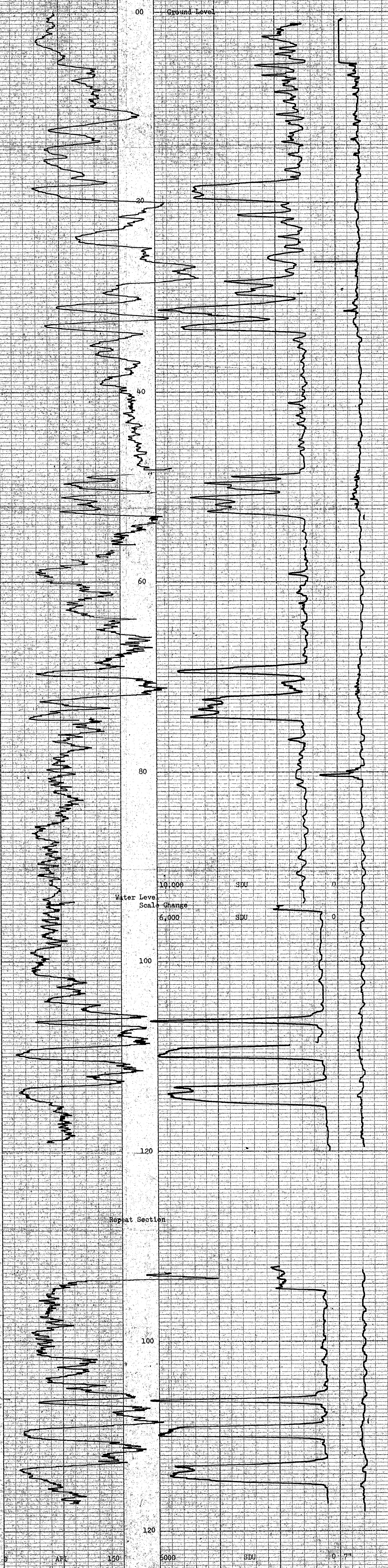
COAL QUALITY/SEAM THICKNESS LOG INTERVALS (Refer to relevant log)						
FROM	116	76	54	36	20	INTERVAL TOTAL
TO	105	68	48	28	17	
INTERVAL	11	8	6	8	3	36

ADDITIONAL SONDES RUN				REMARKS
SONDE	LOG	GENERAL SCALE	DETAIL SCALE	
				Open hole re-logged.

BPB COAL LITHOLOGY LOG					
CALIBRATION DATA					
JIG No	VALUE @ 2" DIAM	JIG CAL DATE	JIG VALUE	SDU @	g/cm <sup>3</sup>
JIG MARK SHOWN AT ABOVE VALUE -		JIG No	SPAN	NORM	SDU CPS

GAMMA RAY	DEPTH	BULK DENSITY	CALIPER
		g/cm <sup>3</sup>	INCHES

HOLE SIZE CORRECTION DATA			
2"	125	13	135
4"	125	13	135
6"	125	13	135
8"	125	13	135
10"	125	13	135

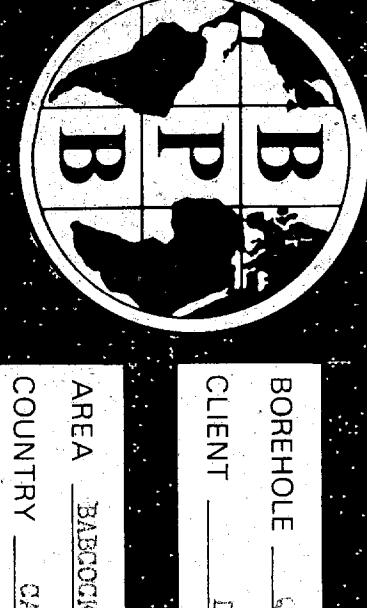


GAMMA RAY	DEPTH	BULK DENSITY	CALIPER
		g/cm <sup>3</sup>	INCHES

<b>BOREHOLE</b> QMR-8101	<b>AREA</b> Frame
<b>CLIENT</b> Denison Mines	<b>COUNTRY</b> Canada

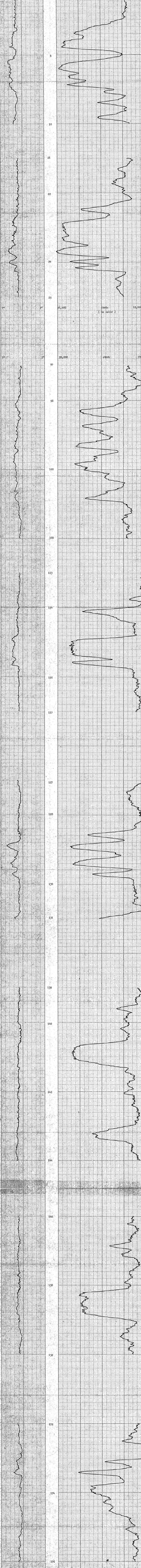


22.000000 8/10/91

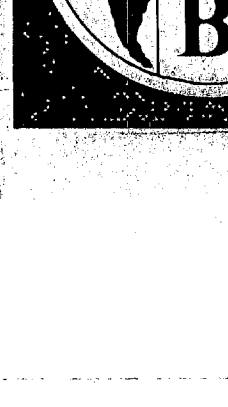


<b>BOREHOLE</b>	GBR 8122	<b>AREA</b>	BANDOOK
<b>CLIENT</b>	DEMISON	<b>COUNTRY</b>	CAHAMA
<b>DATE LOGGED</b>	22/10/91	<b>SEAM THICKNESS LOG</b>	
<b>BOREHOLE DATA</b>	REFER TO LITHOLOGY LOG	<b>OPERATION DATA</b>	REFER TO LITHOLOGY LOG
<b>SEAM THICKNESS LOG</b>		<b>EQUIPMENT AND RECORDING DATA</b>	
<b>LOG</b>		<b>SEAM THICKNESS LOG</b>	
<b>SOIL TYPE</b>		<b>SEAM THICKNESS LOG</b>	
<b>COAL COMBINATION</b>		<b>SEAM THICKNESS LOG</b>	
<b>SONDE</b>		<b>SEAM THICKNESS LOG</b>	
<b>LOG SUITE</b>		<b>SEAM THICKNESS LOG</b>	
<b>CALIPER</b>		<b>SEAM THICKNESS LOG</b>	
<b>BR/DENSITY</b>		<b>SEAM THICKNESS LOG</b>	

**B P B SEAM THICKNESS LOG**



<b>BOREHOLE</b>	GBR 8122	<b>AREA</b>	BANDOOK
<b>CLIENT</b>	DEMISON	<b>COUNTRY</b>	CAHAMA
<b>SEAM THICKNESS LOG</b>			



HR420012



AR-2017-11-28 81530

**BOREHOLE** QBR 8122  
**CLIENT** DENISON  
**AREA** BARBOCK  
**COUNTRY** CANADA  
**DATE LOGGED** 22/10/51  
**DEPTH SCALE** 200-1  
**DEPTH OF LOGS** 4 OF 4 LOGS

**COAL LITHOLOGY LOG**

**PERMANENT LOG** GROUND LEVEL  
**ELEVATION OF #10** 5  
**DEPTH REACHED** 130m  
**CASING SIZE** 1 TO 2 TO 4 TO 10  
**CASING SIZES** 1 TO 2 TO 4 TO 10

**SONDE TYPE** 62m  
**COAL COMBINATION** 62m  
**LOG SUITE** GAMMA RAY  
 U.S. DENSITY  
 CALIPER

**OPERATION DATA**  
**FIRST READING** 183m  
**LAST READING** 0  
**INTERNAL LOGGED** 183m  
**UNIT-TRUCK No.**  
**ENGINEER** JN/AM  
**WITNESS**

**EQUIPMENT AND RECORDING DATA**

LOG	EQUIPMENT			TAPING			PANEL		CAL. COEFF.	DEPTHS		SEAM LOG RUN	
	SONDE	SOURCE	CALIBRATOR	LOG TAPE	RECORD SPEED	DIRECT/REPLAY	SPEED	TC SECS		FROM	TO		INITIAL
GAMMA RAY	161			y	9	d	9	1	1.43	188	0	188	y
U.S. DENSITY		5022		y	9	d	9	1	8.28	189	0	189	y
CALIPER	SIDEWALL POSITION			y	9	d	9	1		189	0	189	y

**COAL QUALITY/SEAM THICKNESS LOG INTERVALS (Refer to relevant log)**

FROM	176	152	144	131	117	102	25	10	INTERVAL TOTAL
TO	172	138	139	122	113	97	21	6	34m
INTERVAL	4	4	5	4	4	5	4	4	

**ADDITIONAL SONDES RUN**

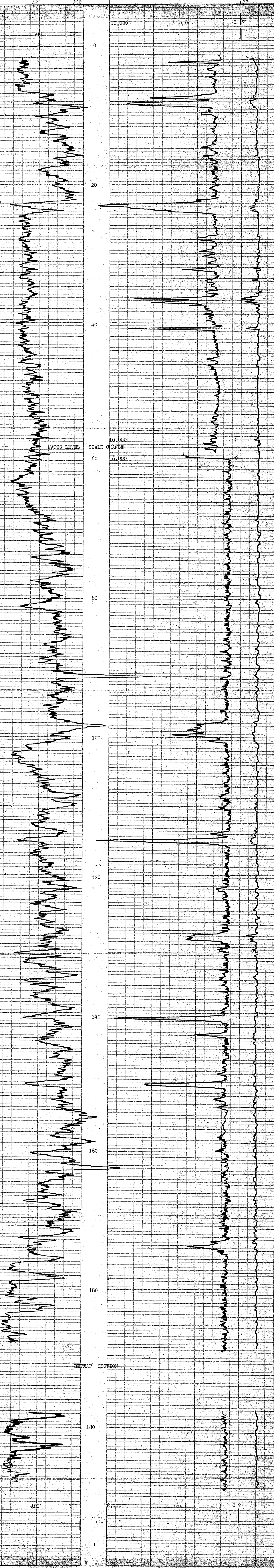
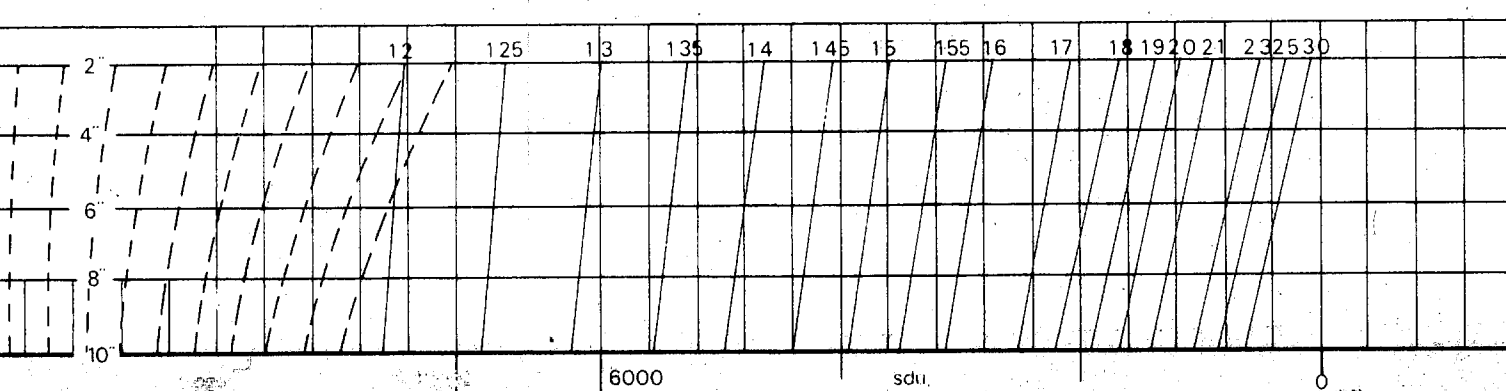
SONDE	LOG	GENERAL SCALE LOG	DETAIL SCALE LOG	REFER TO ADDITIONAL HEADINGS	REMARKS
204	N-N				
210/220	DTP				

**BPB COAL LITHOLOGY LOG**

**CALIBRATION DATA**

JIG No	VALUE @ 2" DIAM	JIG CAL DATE	JIG VALUE	SDU @	g/cm <sup>3</sup>	ins	cms
JIG MARK SHOWN AT ABOVE VALUE -		JIG No	SPAN	NORM	SDU =	ins	cms

GAMMA RAY	DEPTH	BULK DENSITY g/cm <sup>3</sup>	CALIPER INCHES
-----------	-------	--------------------------------	----------------



GAMMA RAY	DEPTH	BULK DENSITY g/cm <sup>3</sup>	CALIPER INCHES
-----------	-------	--------------------------------	----------------

**BOREHOLE** QBR 8122  
**CLIENT** DENISON  
**AREA** BARBOCK  
**COUNTRY** CANADA



Re-QUIRETE 813A



GAMMA RAY & NEUTRON-NEUTRON

BOREHOLE QBR 8122

CLIENT DENISON

AREA BABCOCK

COUNTRY CANADA

DATE LOGGED 27/10/51

DEPTH SCALE  
200.1

1 OF 3 LOGS

BOREHOLE DATA REFER TO LITHOLOGY LOG

OPERATION DATA REFER TO LOG

EQUIPMENT AND RECORDING DATA

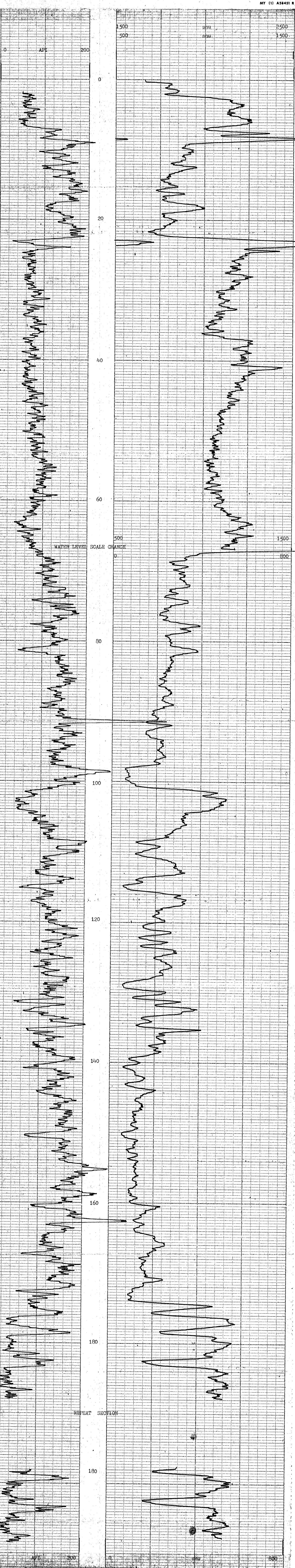
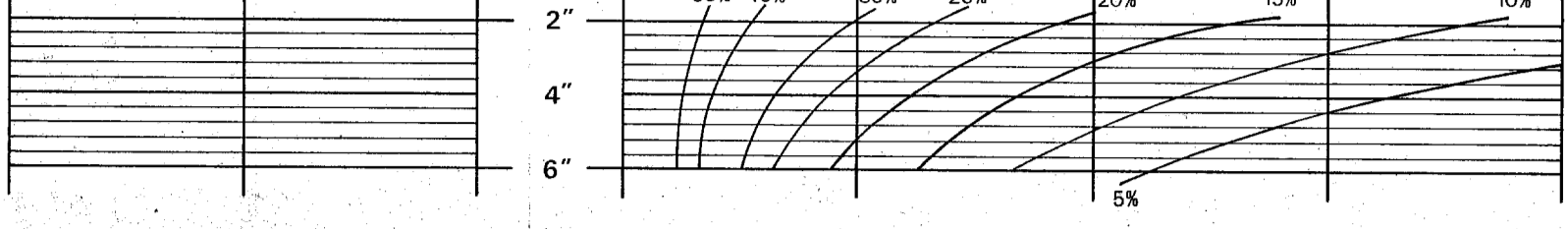
LOG	TAPING	PANEL	COEFF
LOG	100	100	1.00
TAPO	9	9	1.12
SECO	9	9	1.12
DEFC	9	9	1.12
SECS	9	9	1.12
NORR	9	9	1.12

REMARKS

**615**

GAMMA RAY	DEPTH	NEUTRON-NEUTRON
0	API 200	0 500 1000

SANDSTONE POROSITY



0	API 200	0	SPU 500
GAMMA RAY	DEPTH	NEUTRON-NEUTRON	



BOREHOLE QBR 8122

CLIENT DENISON

AREA BABCOCK

COUNTRY CANADA

MY A58452R













22-01112-81519



BOREHOLE \_\_\_\_\_ 022 0112  
 CLIENT \_\_\_\_\_ DENISON  
 AREA \_\_\_\_\_ EABROCK  
 COUNTRY \_\_\_\_\_ CANADA  
 DATE LOGGED \_\_\_\_\_ 26/10/71  
 DEPTH SCALE \_\_\_\_\_ 200' ±  
 LOG OF L. LOGS \_\_\_\_\_

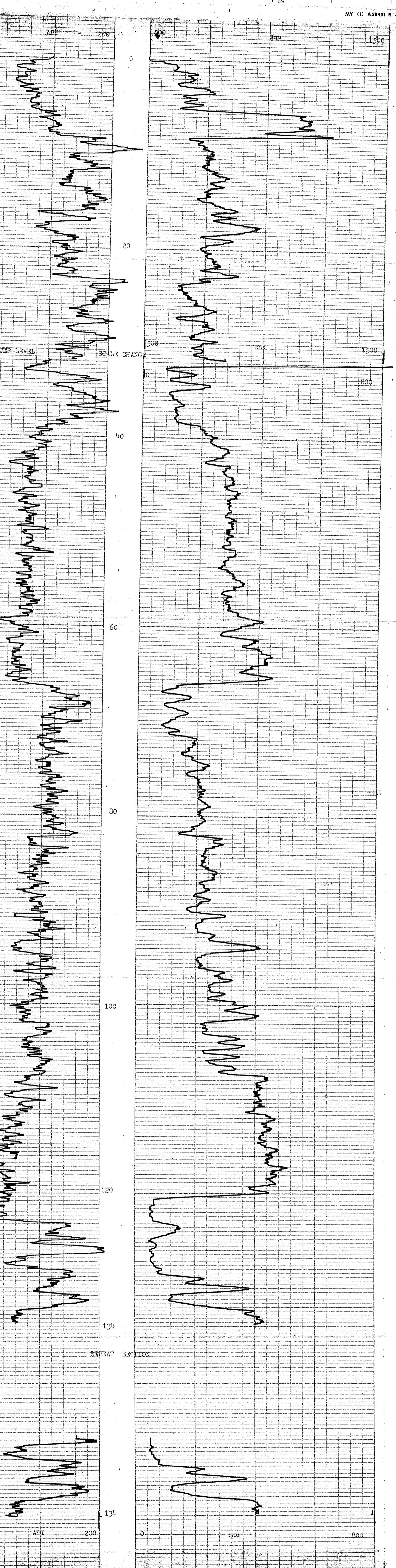
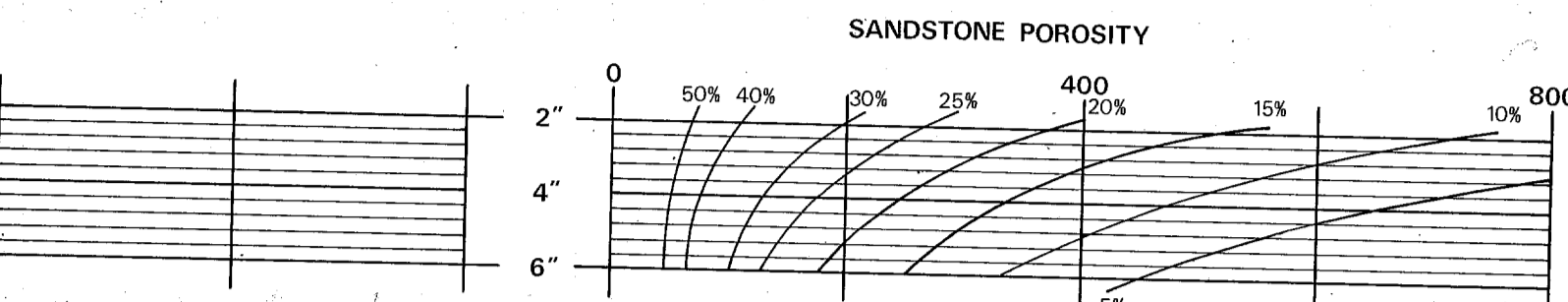
BOREHOLE DATA REF. TO LITHOLOGY LOG  
 OPERATION DATA REF. TO " LOG  
 EQUIPMENT AND RECORDING DATA

LOG	TAPING	PANEL	CON. COEFF.
LOG RECORD	9	4	9
TAPED SPEED	9	1	1
RECORDING SPEED	9	1	1
SCALE	9	1	1
NO. OF LOGS	9	1	1
NO. OF PANELS	9	1	1

REMARKS

615

DEPTH	NEUTRON-NEUTRON
0	200
200	200
400	200
600	200
800	200
1000	200
1200	200
1400	200
1600	200



DEPTH	NEUTRON-NEUTRON
0	200
200	200
400	200
600	200
800	200
1000	200
1200	200
1400	200
1600	200



BOREHOLE \_\_\_\_\_ 022 0112  
 CLIENT \_\_\_\_\_ DENISON  
 AREA \_\_\_\_\_ EABROCK  
 COUNTRY \_\_\_\_\_ CANADA

MY A58452R

R- QUINTE 815A



**SEAM THICKNESS LOG**

SONDE TYPE: \_\_\_\_\_  
 COAL COMBINATION: \_\_\_\_\_  
 SONDE: \_\_\_\_\_  
 LOG SUITE: \_\_\_\_\_  
 CALIPER: \_\_\_\_\_  
 BR DENSITY: \_\_\_\_\_

BOREHOLE: QBR 8119  
 CLIENT: DENISON  
 AREA: BARBOCK  
 COUNTRY: CANADA  
 DATE LOGGED: 25/10/51  
 DEPTH SCALE: 20:1  
 1" = 4' LOSS

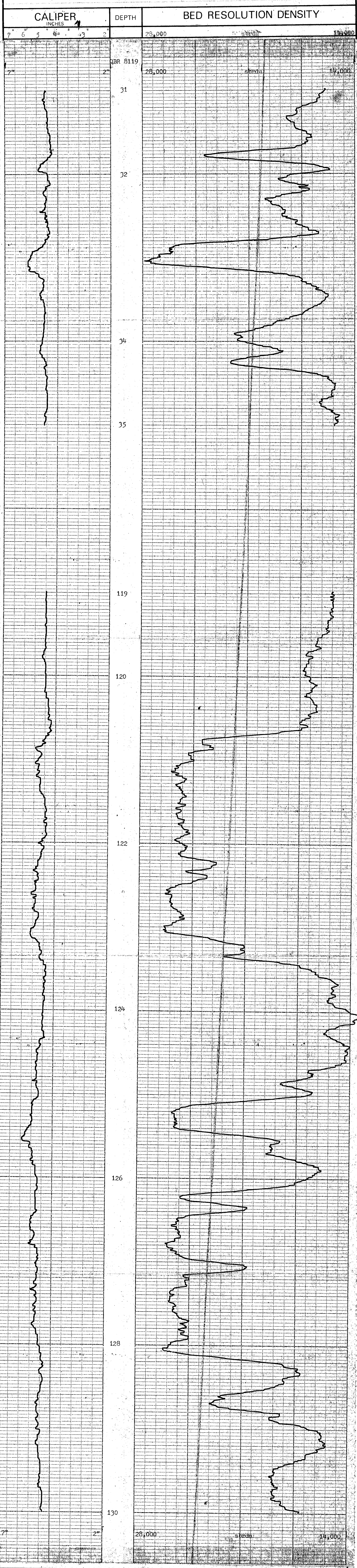
BOREHOLE DATA: REFER TO LITHOLOGY LOG  
 OPERATION DATA: REFER TO LITHOLOGY LOG  
 EQUIPMENT AND RECORDING DATA: \_\_\_\_\_  
 COAL COMBINATION SONDE: \_\_\_\_\_  
 LOG: \_\_\_\_\_  
 TAPING: \_\_\_\_\_  
 SIDEWALL POSITION: \_\_\_\_\_  
 CALIPER: \_\_\_\_\_  
 BR DENSITY: \_\_\_\_\_  
 SOURCE SONDE AND CALIBRATION: \_\_\_\_\_  
 REFER TO LITHOLOGY LOG

SEAM THICKNESS LOG INTERVALS

FROM	130	35
TO	119	31
INTERVAL	11	4
FROM		
TO		
INTERVAL		
TOTAL		1.575

REMARKS: **615**

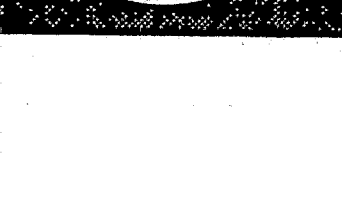
**B P B SEAM THICKNESS LOG**

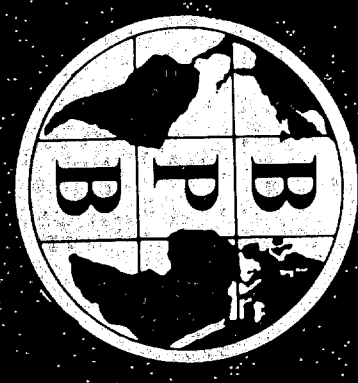


CALIPER INCHES	DEPTH	BED RESOLUTION DENSITY
7 6 5 4 3 2	28,000	114,000

BOREHOLE: QBR 8119  
 CLIENT: DENISON  
 AREA: BARBOCK  
 COUNTRY: CANADA

**SEAM THICKNESS LOG**





**COAL LITHOLOGY LOG**

**SONDE TYPE**  
COAL COMBINATION  
**SONDE**

**LOG SUITE**  
GAMMA RAY  
L.S. DENSITY  
CALIPER

**BOREHOLE DATA**

PERMANENT ID: 8119  
ELEVATION OF FID: 8119  
MAGNETIC DEVIATION: 13.2  
DEPTH REACHED: 132m  
CASING SHOE: 132m  
BIT SIZES: 1 TO 2  
CASING SIZES: 1 TO 2

CLIENT: DENISON  
AREA: BARCOCK  
COUNTRY: CANADA  
DATE LOGGED: 26/10/91

DEPTH SCALE: 200:1  
4" OF LOGS

**OPERATION DATA**

FIRST READING: 1.30m  
LAST READING: 9  
INTERVAL LOGGED: 1.25m  
UNIT - TRUCK NO: 17/204  
ENGINEER: TW/BAW

**615**

**EQUIPMENT AND RECORDING DATA**

LOG	EQUIPMENT	SONDE	SOURCE	CALIBRATOR	LOG TAPE	TAPING RECORD SPEED	DIRECT or REPLAY	SPEED	TC SECS	NORM	CAL COEFF	DEPTHS FROM	TO	INTERVAL	SEAM LOG RUN
GAMMA RAY	101				y	9	d	9	1		1.4	13m	0	13m	y
L.S. DENSITY			5822		y	9	d	9	13	8.28		13m	0	13m	y
CALIPER	SIDEWALL POSITION				y	9	d	9	13			13m	0	13m	y

COAL QUALITY/SEAM THICKNESS LOG INTERVALS (Refer to relevant log)

FROM	130m	35	INTERVAL	
TO	119	31	TOTAL	15m
INTERVAL	11	4		

**ADDITIONAL SONDES RUN**

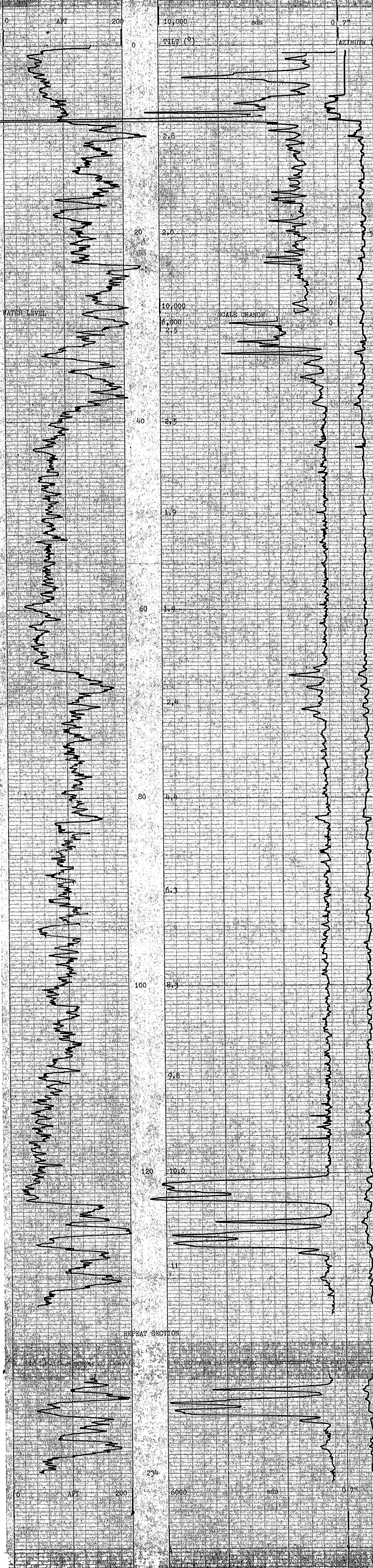
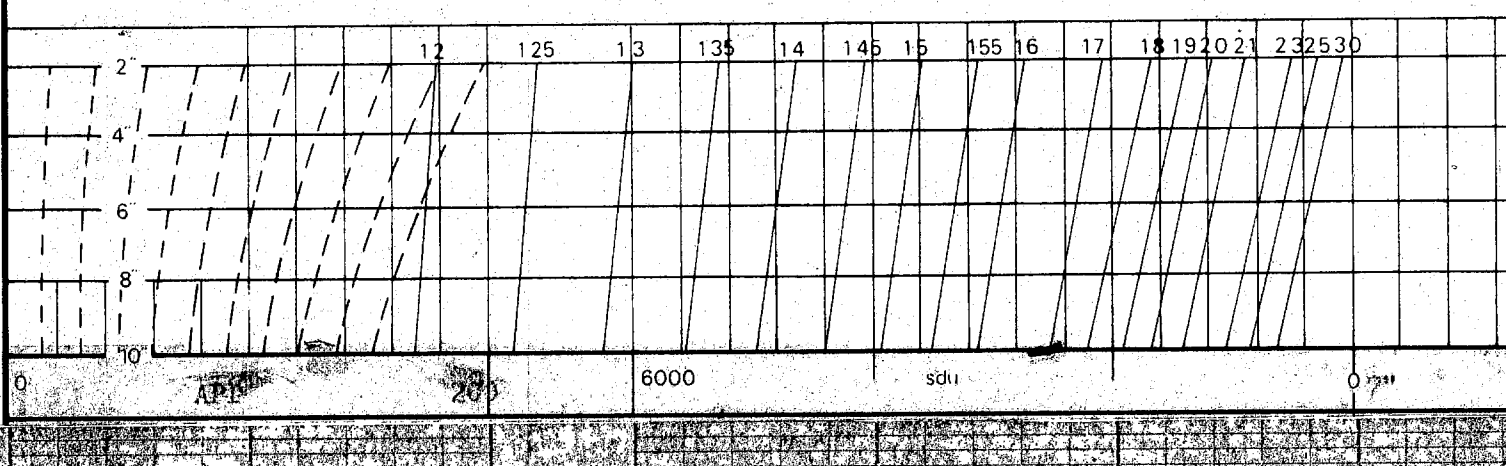
SONDE	LOG	GENERAL SCALE LOG	DETAIL SCALE LOG	REFER TO ADDITIONAL HEADINGS	REMARKS
204	N-N				
17/204	DIP				

**BPB COAL LITHOLOGY LOG**

**CALIBRATION DATA**

JIG No	VALUE @ 2" DIAM	JIG CAL DATE	JIG VALUE	SDU @	g/cm <sup>3</sup>	ins	CPS
JIG MARK SHOWN AT ABOVE VALUE -		JIG No	SPAN	NORM	SDU - CPS	ins	CPS

GAMMA RAY	DEPTH	BULK DENSITY g/cm <sup>3</sup>	CALIPER INCHES
-----------	-------	--------------------------------	----------------



GAMMA RAY	DEPTH	BULK DENSITY g/cm <sup>3</sup>	CALIPER INCHES
-----------	-------	--------------------------------	----------------

**COAL LITHOLOGY LOG**

BOREHOLE: 8119  
CLIENT: DENISON  
AREA: BARCOCK  
COUNTRY: CANADA



the - QUINCY 8119

Re-Composite 815



**COAL QUALITY LOG**

LOG SUITE:  
GAMMA RAY  
L.S. DENSITY

BOREHOLE	QBR8119	DEPTH SCALE	20:1
CLIENT	DEMLCON	AREA	BABCOCK
		COUNTRY	CANADA
		DATE LOGGED	26/10/81
			1 of 1 LOGS

BOREHOLE DATA	REFER TO LITHOLOGY LOG
OPERATION DATA	REFER TO LITHOLOGY LOG
EQUIPMENT AND RECORDING DATA	
COAL COMBINATION SONDE	

LOG	TAPPING	SIDEWALL POSITION	COEFF
GAMMA	1	1	1.47
L.S. DENSITY	2	2	1.47

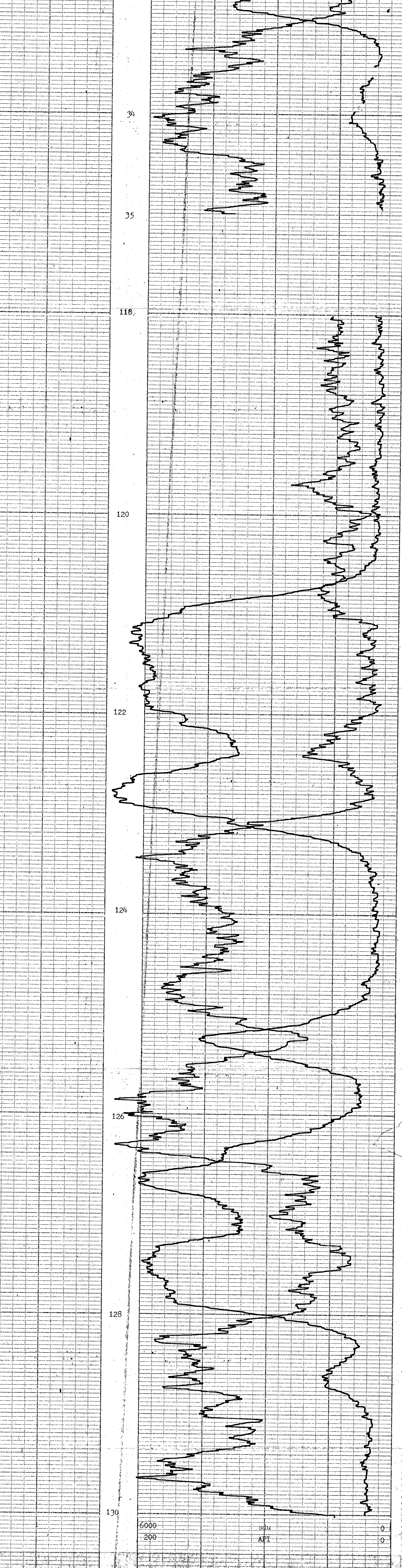
SONDE TYPE:	COAL QUALITY LOG INTERVALS
COAL COMBINATION SONDE	

FROM	130	2.5
TO	119	31
INTERVAL	11	7
FROM		
TO		
INTERVAL		
REMARKS		

**B P B COAL QUALITY LOG**

DEPTH	GAMMA RAY
	COAL BULK DENSITY

HOLE SIZE CORRECTION DATA	
2"	125
4"	13
6"	135
8"	14
	145
	15
	155
	16
	17
	18
	19
	20
	22
	24
	30



6000	800	0
200	200	0
	API	0
	API	0

DEPTH	GAMMA RAY
	COAL BULK DENSITY

BOREHOLE	QBR8119	AREA	BABCOCK
CLIENT	DEMLCON	COUNTRY	CANADA



MT 4002X



RE-ADVERTISE 8162A

**COAL LITHOLOGY LOG**

SONDE TYPE: \_\_\_\_\_  
 COAL COMBINATION: \_\_\_\_\_  
 SONDE: \_\_\_\_\_

LOG SUITE:  
 GAMMA RAY  
 L.S. DENSITY  
 CALIPER

**BOREHOLE DATA**

PERMANENT DATUM: \_\_\_\_\_  
 ELEVATION OF P.D.: \_\_\_\_\_  
 DRILLER: \_\_\_\_\_

MAXIMUM DEPTH FROM: \_\_\_\_\_  
 DEPTH REACHED: \_\_\_\_\_  
 CASING SHOE: \_\_\_\_\_

BIT SIZES: 1 TO 2 TO 3 TO 4 TO 5 TO  
 CASING SIZES: 1 TO 2 TO 3 TO 4 TO 5 TO

BOREHOLE: 03R 2118  
 CLIENT: DENISON

AREA: BARBOCK  
 COUNTRY: CANADA

DATE LOGGED: 21/10/81

DEPTH SCALE: 200:1  
 1 OF 1 LOGS

**EQUIPMENT AND RECORDING DATA**

COAL COMBINATION / SONDE		EQUIPMENT		TAPING		PANEL		CAL COEFF		DEPTHS		SEAM LOG RUN		
LOG	SONDE	SOURCE	CALIBRATOR	LOG TAPED	RECORD SPEED	DIRECT REPLAY	SPEED	TC SECS	NORM	FROM	TO	INTERVAL		
GAMMA RAY	101			y	9	d	9	1		1.5	104	0	104	y
L.S. DENSITY		5922		y	9	d	9	1	2.01		105	0	105	y
CALIPER		SIDEWALL POSITION		y	9	d	9	.3			105	0	105	y

COAL QUALITY/SEAM THICKNESS LOG INTERVALS (Refer to relevant log)

FROM	72	INTERVAL TOTAL
TO	54	
INTERVAL	18	

**ADDITIONAL SONDES RUN**

SONDE	LOG	GENERAL SCALE LOG	DETAIL SCALE LOG	REFER TO ADDITIONAL HEADINGS
217/201	DIP			
204	N-N			

**REMARKS**

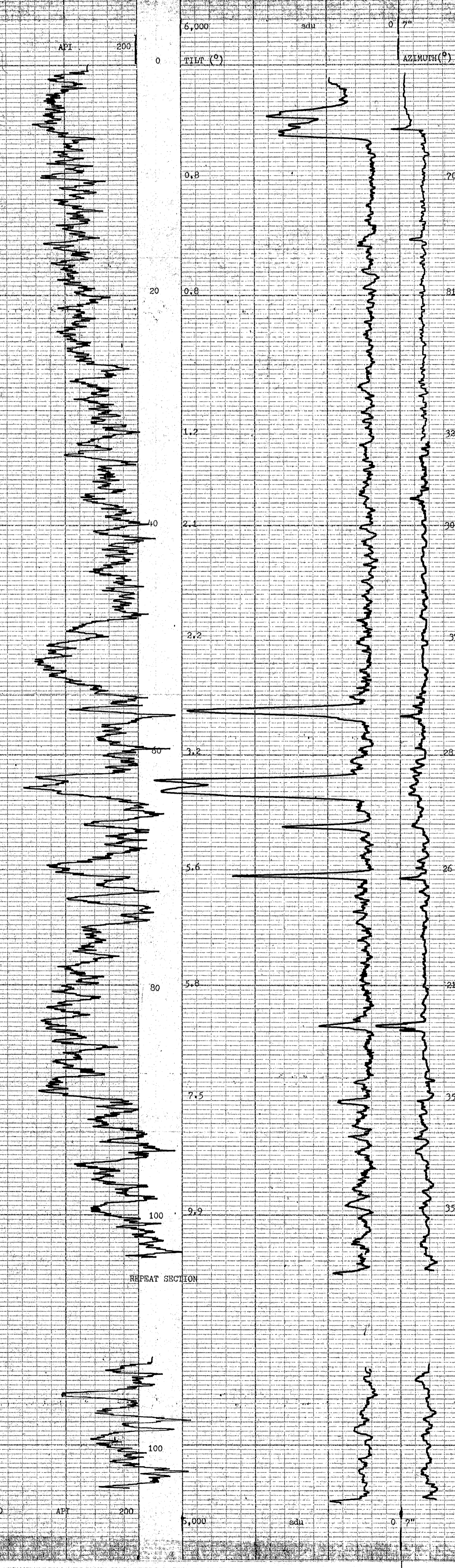
**BPB COAL LITHOLOGY LOG**

**CALIBRATION DATA**

JIG No	VALUE @ 2 DIAM	JIG CAL DATE	JIG VALUE	SDU @	g/cm <sup>3</sup>	ins	cps
JIG MARK SHOWN AT ABOVE VALUE -				NORM	SDU =	ins	cps

GAMMA RAY	DEPTH	BULK DENSITY (g/cm <sup>3</sup> )	CALIPER (INCHES)

**HOLE SIZE CORRECTION DATA**



GAMMA RAY	DEPTH	BULK DENSITY (g/cm <sup>3</sup> )	CALIPER (INCHES)

**BPB**

BOREHOLE: 03R 2118      AREA: BARBOCK  
 CLIENT: DENISON      COUNTRY: CANADA

**COAL LITHOLOGY LOG**

MY A50261 R

Fr- QUINTETE 815A



GAMMA RAY & NEUTRON-NEUTRON LOGS

BOREHOLE QBR 8118  
 CLIENT DENISON

AREA BABCOCK  
 COUNTRY CANADA  
 DATE LOGGED 21/10/81

DEPTH SCALE  
 200:1

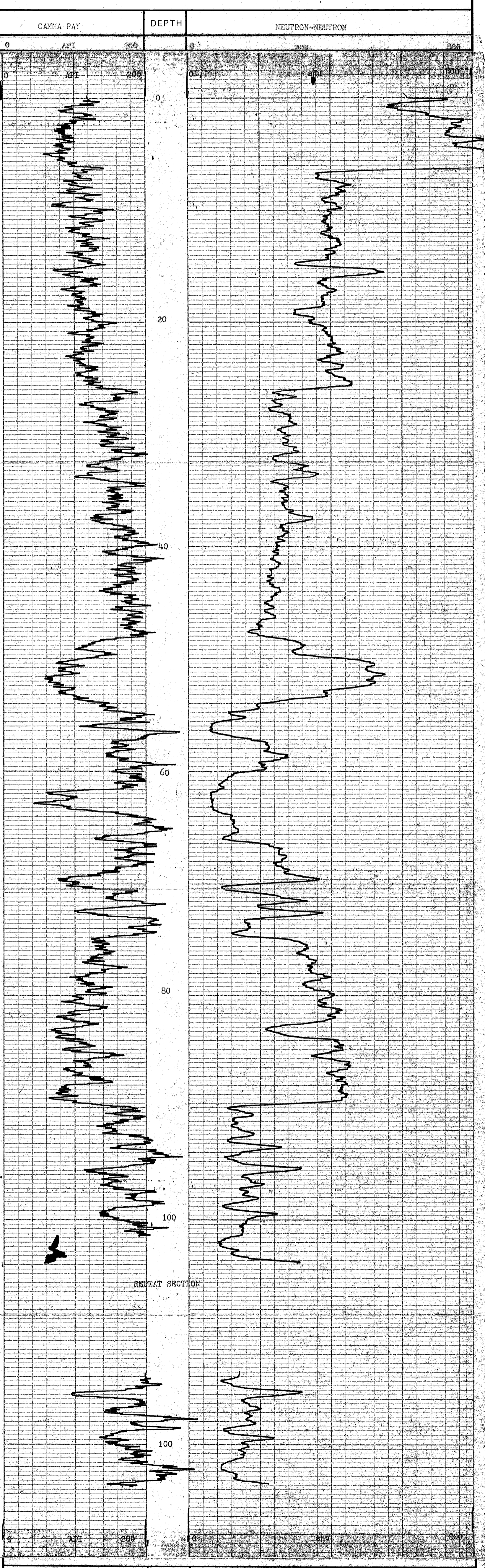
1 OF 4 LOGS

BOREHOLE DATA REFER TO LITHOLOGY LOG  
 OPERATION DATA REFER TO " LOG

EQUIPMENT AND RECORDING DATA

LOG	TAPING	LOG TAPED	RECORD SPEED	DIRECT REPLAY	T.S. SECS	PANEL	CAL COEFF
GAMMA	Y	9m	3	2	1	1	1.74
N-N	Y	9	4	9	1	1	
		SOURCE 204				SOURCE 62787	

REMARKS  
**615**



GAMMA RAY	DEPTH	NEUTRON-NEUTRON
0	0	0
200	200	200



BOREHOLE QBR 8118  
 CLIENT DENISON

AREA BABCOCK  
 COUNTRY CANADA

72-201-NETTE 815A



BOREHOLE QER9119  
CLIENT DENTON

AREA BABCOCK  
COUNTRY CANADA

DATE LOGGED 21/10/81

DEPTH SCALE 200:1

LOGS 1 of 1

**COAL QUALITY LOG**

BOREHOLE DATA REFER TO LITHOLOGY LOG

OPERATION DATA REFER TO LITHOLOGY LOG

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE

SONDE TYPE: COAL COMBINATION SONDE

LOG INTERVALS

FROM 25 TO 51

INTERVAL 13

FROM 0 TO 13

INTERVAL 13

FROM 0 TO 13

INTERVAL 13

FROM 0 TO 13

INTERVAL 13

FROM 0 TO 13

INTERVAL 13

FROM 0 TO 13

INTERVAL 13

FROM 0 TO 13

INTERVAL 13

FROM 0 TO 13

INTERVAL 13

FROM 0 TO 13

INTERVAL 13

FROM 0 TO 13

INTERVAL 13

FROM 0 TO 13

LOG SUITE:  
GAMMA RAY  
L.S. DENSITY

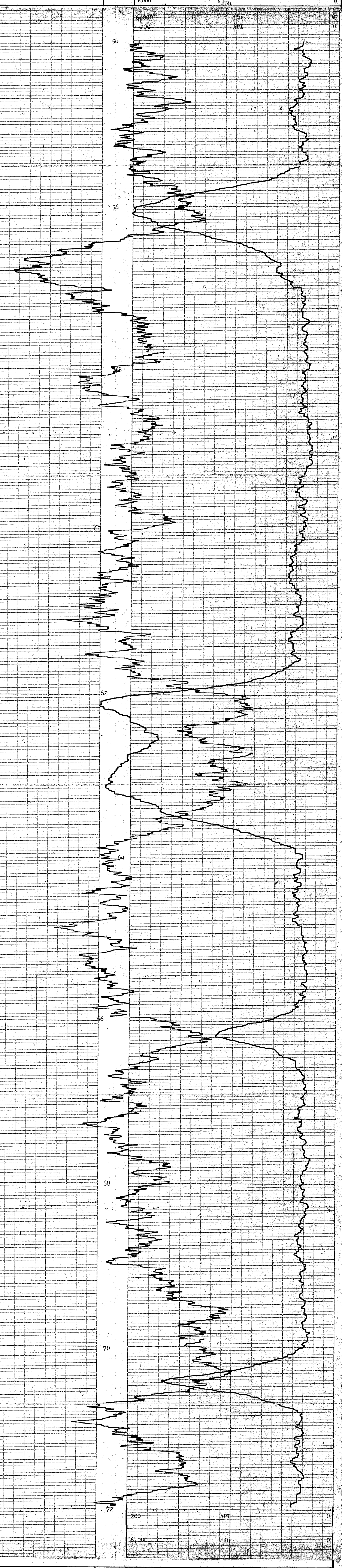
615

**BPB COAL QUALITY LOG**

DEPTH GAMMA RAY  
COAL BULK DENSITY  
g/cm<sup>3</sup>

HOLE SIZE CORRECTION DATA

2"	1.2	1.25	1.3	1.35	1.4	1.45	1.5	1.55	1.6	1.7	1.8	1.9	2.0	2.2	2.4	3.0
4"																
6"																
8"																



DEPTH 6000 s.d.u. 0  
200' API 0

COAL BULK DENSITY  
g/cm<sup>3</sup>

DEPTH GAMMA RAY



BOREHOLE QER 9119  
CLIENT DENTON

AREA BABCOCK  
COUNTRY CANADA

**COAL QUALITY LOG**

MT 18007 R

AR-QUINLETTE 8(15)A



BOREHOLE QAR 9113  
CLIENT DENISON

AREA BARBOCK  
COUNTRY CANADA  
DATE LOGGED 21/11/21

SEAM THICKNESS LOG

SEAM THICKNESS LOG

SONDE TYPE  
COAL COMBINATION  
SONDE

LOG SUITE  
CALIPER  
BR DENSITY

BOREHOLE DATA REFER TO LITHOLOGY LOG  
OPERATION DATA REFER TO LITHOLOGY LOG  
EQUIPMENT AND RECORDING DATA REFER TO LITHOLOGY LOG

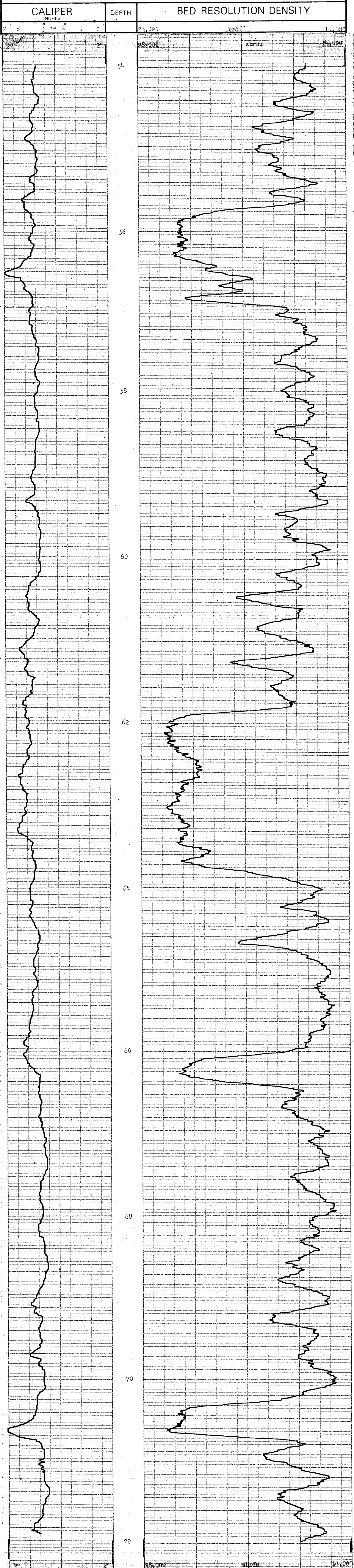
COAL COMBINATION SONDE  
SIDE WALL POSITION  
LOG TAPPING PANEL  
LOG RECORDING SPEED SEC NORM  
CALIPER 1 2 3 4 5 6 7  
BR DENSITY 1 2 3 4 5 6 7

SEAM THICKNESS LOG INTERVALS

FROM 72  
TO 54  
INTERVAL 13  
FROM  
TO  
INTERVAL TOTAL  
REMARKS

615

B PB SEAM THICKNESS LOG



CALIPER INCHES DEPTH BED RESOLUTION DENSITY



BOREHOLE QAR 9113  
CLIENT DENISON

AREA BARBOCK  
COUNTRY CANADA

SEAM THICKNESS LOG







Fr - GUMMETTE 513A



BOREHOLE QBR 8117  
CLIENT DENISON

AREA BABCOCK  
COUNTRY CANADA

DEPTH SCALE 20:1  
DATE LOGGED 22/10/81

1 OF 1 LOGS

BOREHOLE DATA REFER TO LITHOLOGY LOG  
OPERATION DATA REFER TO LITHOLOGY LOG

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE

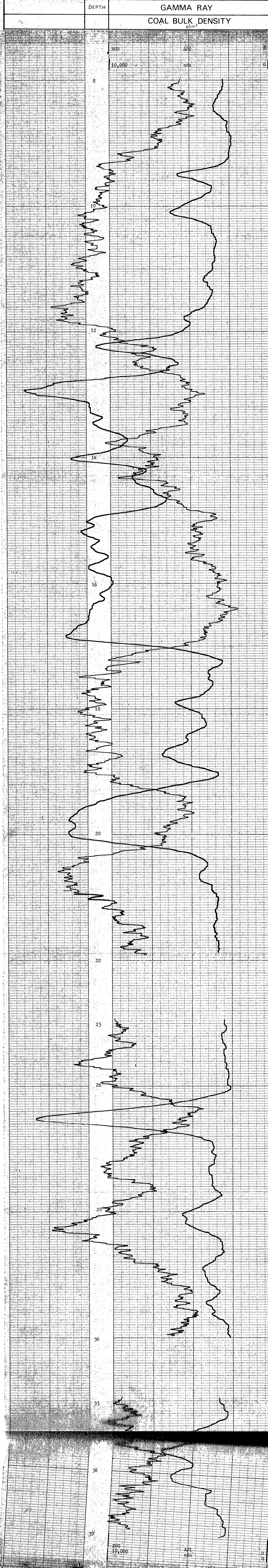
LOG TANKING PANEL CASE  
GAMMA 1 100 1000 10000 100000 1000000  
US DENSITY 2 2 1 1.01

SONDE TYPE: COAL COMBINATION SONDE

LOG SUITE: GAMMA RAY  
L.S. DENSITY

615

B P B COAL QUALITY LOG



DEPTH	GAMMA RAY	COAL BULK DENSITY (g/cm <sup>3</sup> )
39	~100	~1.0

B P B logo

BOREHOLE QBR 8117  
CLIENT DENISON  
AREA BABCOCK  
COUNTRY CANADA

COAL QUALITY LOG

PA-BOURGETTE 81(3)2



SONDE TYPE  
COAL COMBINATION  
SONDE  
LOG SUITE:  
GAMMA RAY  
L.S DENSITY  
CALIPER

COAL LITHOLOGY LOG

BOREHOLE: 031 0117  
CLIENT: BOURGETTE  
AREA: BARBOCK  
COUNTRY: CANADA  
DATE LOGGED: 22/10/81  
DEPTH SCALE: 200:1  
1 of 2 LOGS

BOREHOLE DATA  
PERMANENT DIAL: 020000  
ELEVATION OF D: 818  
MAGNETIC STRIKE: 0.1 E.  
DEPTH REACHED: 177m  
CASING SIZE: 1 TO 2 TO 3 TO 4 TO 5 TO  
CASING SIZES: 1 TO 2 TO 3 TO 4 TO 5 TO

FLUID DATA  
NAME: 42m  
LEVEL: 42m  
VISCOSITY: 170cP  
BHT: 170cP  
OPERATION DATA  
FIRST READING: 170cP  
LAST READING: 170cP  
INTERNAL LOGGED: 170cP  
UNIT-TRUCK No: 714/314  
WITNESS: TH/314

EQUIPMENT AND RECORDING DATA															
COAL COMBINATION SONDE															
LOG	EQUIPMENT	TAPING	PANEL	CAL	DEPTHS	SEAM LOG RUN									
SONDE	SOURCE	LOG TAPED	RECORD SPEED	DIRECT REPLAY	SPEED	T.C SECS	NORM	COEFF	FROM	TO	INTERVAL				
GAMMA RAY	101		Y	2	d	2	1	1.74	170	0	170	Y			
L.S DENSITY			Y	2	d	2	1	1.02	171	0	171	Y			
CALIPER	SIDEWALL POSITION		Y	2	d	2	1		171	0	171	Y			

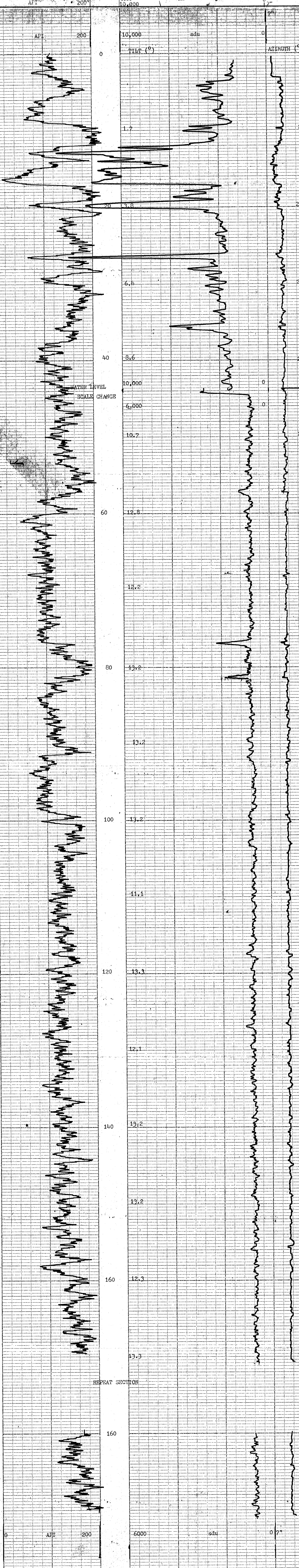
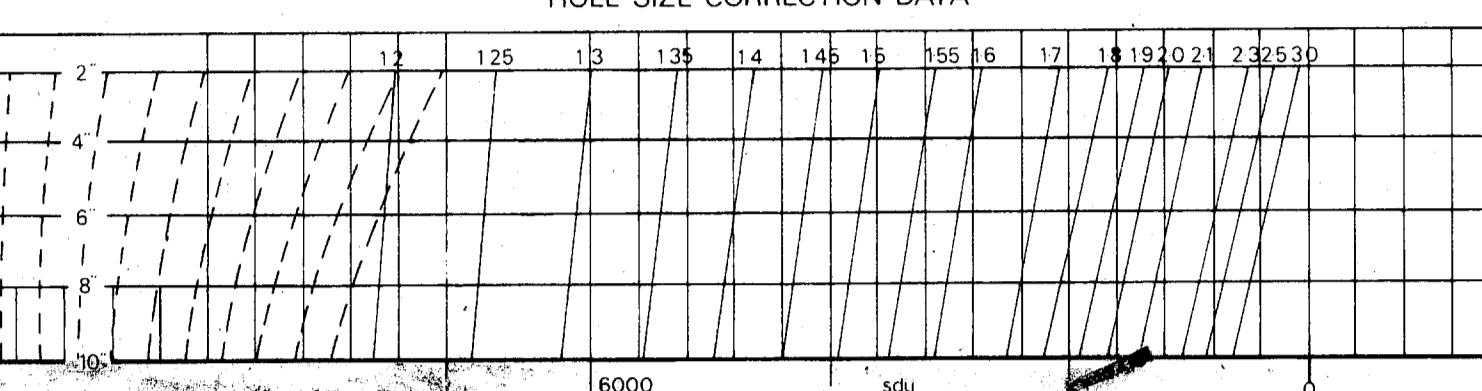
COAL QUALITY/SEAM THICKNESS LOG INTERVALS (Refer to relevant log)										
FROM	TO	INTERVAL	NO WATER							INTERNAL TOTAL
37	30	22								
35	25	8								
2	5	14								21

ADDITIONAL SONDES RUN				REMARKS
SONDE	LOG	GENERAL SCALE	DETAIL SCALE LOG	
204	N-N			REFER TO ADDITIONAL HEADINGS

BPB COAL LITHOLOGY LOG

CALIBRATION DATA									
JIG No	VALUE @ 2 DIAM	JIG CAL DATE	JIG VALUE	SDU @	g/cm <sup>3</sup>	ins	cps		
JIG MARK SHOWN AT ABOVE VALUE -		SPAN	NORM	SDU - CPS	ins	cps			

GAMMA RAY	DEPTH	BULK DENSITY	CALIPER
		g/cm <sup>3</sup>	INCHES



GAMMA RAY	DEPTH	BULK DENSITY	CALIPER
		g/cm <sup>3</sup>	INCHES

BOREHOLE: 031 0117  
CLIENT: BOURGETTE  
AREA: BARBOCK  
COUNTRY: CANADA  
COAL LITHOLOGY LOG





GAMMA RAY & NEUTRON-NEUTRON

BOREHOLE QBR 8116

CLIENT DENISON

AREA BARBOCK

COUNTRY CANADA

DATE LOGGED 19/10/81

DEPTH SCALE 200' 1 OF 4 LOGS

BOREHOLE DATA REFER TO LITHOLOGIST LOG

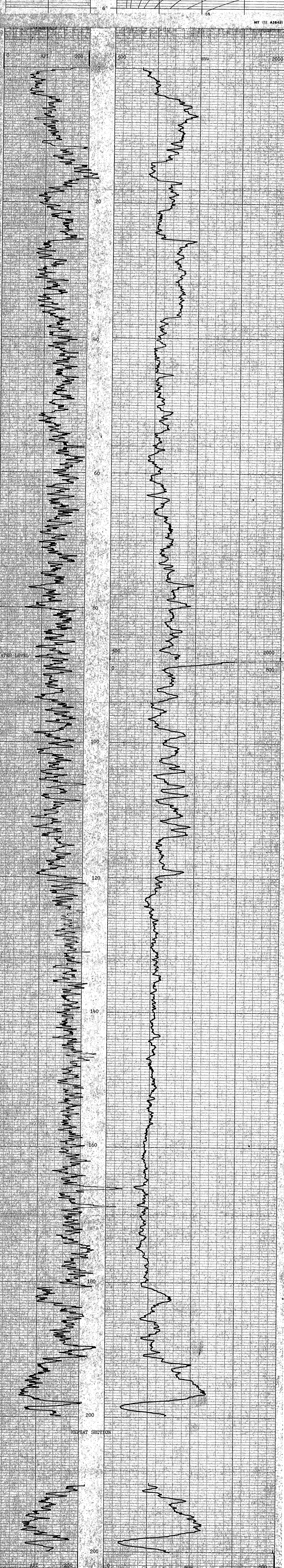
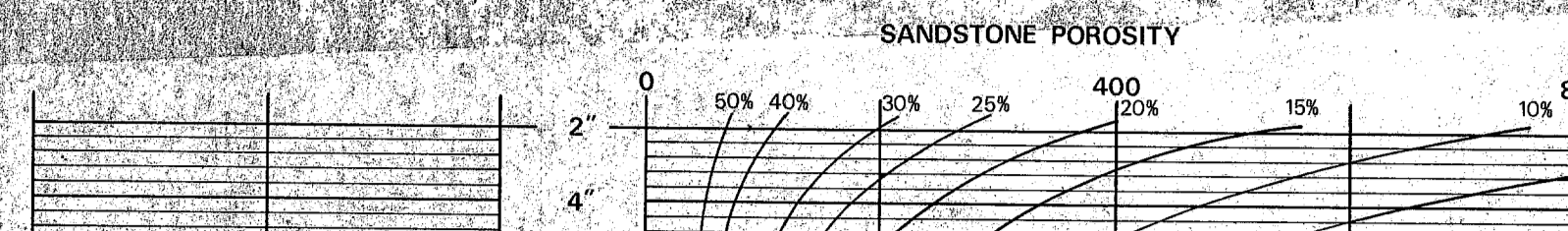
OPERATION DATA REFER TO LOG

EQUIPMENT AND RECORDING DATA

LOG	TAPING	PANEL	DATE
GAMMA	1	9	1
NEUTRON	1	9	1
RESISTIVITY	1	9	1
TEMPERATURE	1	9	1
LOG	1	9	1

REMARKS  
**615**

GAMMA RAY	DEPTH	NEUTRON-NEUTRON
0	200	0
500	500	800



GAMMA RAY	DEPTH	NEUTRON-NEUTRON
0	200	0
500	500	800



BOREHOLE QBR 8116

CLIENT DENISON

AREA BARBOCK

COUNTRY CANADA

702. QUINTE 8157a



A2 - QUINTE 815A

BOREHOLE QBR 8115  
 CLIENT DENISON

AREA BABCOCK DEPTH SCALE 20:1  
 COUNTRY CANADA  
 DATE LOGGED 19/10/81 1 OF 4 LOGS

BOREHOLE DATA REFER TO LITHOLOGY LOG  
 OPERATION DATA REFER TO LITHOLOGY LOG

**COAL QUALITY LOG**

SONDE TYPE:  
 COAL COMBINATION  
 SONDE

LOG SUITE:  
 GAMMA RAY  
 L.S. DENSITY

LOG	TAPING	LOG RECORDING SPEED	RECORDING SPEED	PANEL	SIDEWALL POSITION	COAL
GAMMA RAY	Y	2	2	2	2	2
L.S. DENSITY	Y	2	2	2	2	2

COAL COMBINATION SONDE: \_\_\_\_\_  
 COAL QUALITY LOG INTERVALS: \_\_\_\_\_  
 FROM 200 TO 196  
 INTERNAL FROM 4 TO \_\_\_\_\_  
 REMARKS: \_\_\_\_\_

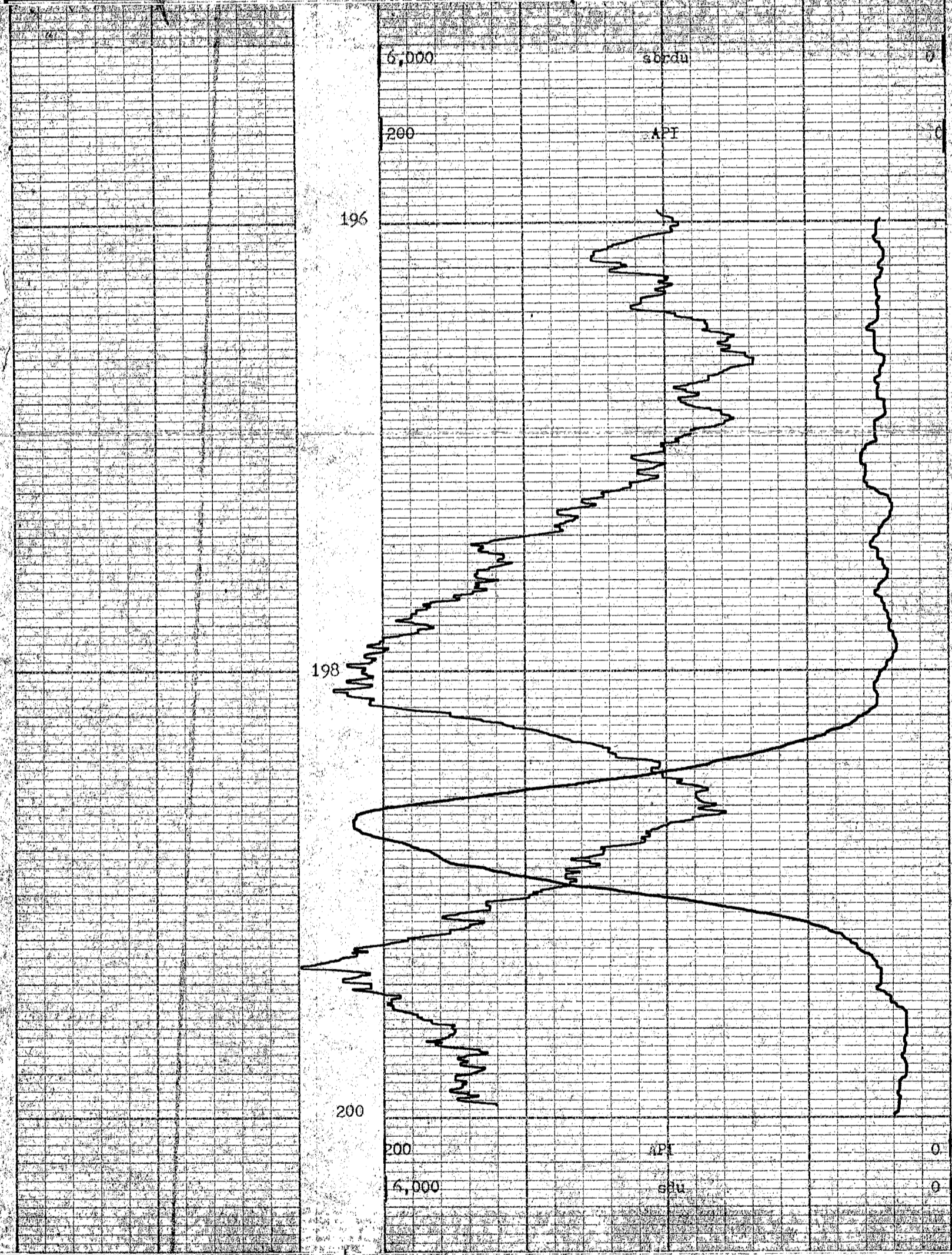
615

**BPB COAL QUALITY LOG**

DEPTH	GAMMA RAY	COAL BULK DENSITY
		g/cm <sup>3</sup>

HOLE SIZE CORRECTION DATA

DEPTH	1.2	1.25	1.3	1.35	1.4	1.45	1.5	1.55	1.6	1.7	1.8	1.9	2.0	2.2	2.4	3.0
2'																
4'																
6'																
8'																



DEPTH	GAMMA RAY	COAL BULK DENSITY
		g/cm <sup>3</sup>



BOREHOLE QBR 8116 AREA BABCOCK  
 CLIENT DENISON COUNTRY CANADA

**COAL QUALITY LOG**

MT 8800B



72-00000000 8157A

<b>BOREHOLE</b> QBR 8116	<b>DEPTH SCALE</b> 200:1
<b>CLIENT</b> DENISON	<b>AREA</b> BARROCK
<b>COUNTRY</b> CANADA	<b>DATE LOGGED</b> 19/09/81
<b>SONDE TYPE</b> COAL COMBINATION SONDE	<b>LOG</b> L.S. DENSITY CALIPER
<b>OPERATION DATA</b>	<b>615</b>

EQUIPMENT AND RECORDING DATA													
COAL COMBINATION SONDE				TAPING		PANEL		CAL COEFF		DEPTHS		SEAM LOG RUN	
LOG	EQUIPMENT	SONDE	SOURCE	CAUBRATOR	LOG TAPED	RECORD SPEED	DIRECTOR REPLAY	SPEED	T.C. SECS	NORM	FROM	TO	INTERVAL
GAMMA RAY	101				y	9	d	9	1	1.54	200	0	200
L.S. DENSITY		5822			y	9	d	9	1	8.01	200	0	200
CALIPER			SIDEWALL POSITION		y	9	d	9	1		200	0	200

COAL QUALITY/SEAM THICKNESS LOG INTERVALS (Refer to relevant log)		INTERVAL TOTAL
FROM	200	
TO	196	
INTERVAL	4	

ADDITIONAL SONDES RUN				REMARKS	
SONDE	LOG	GENERAL SCALE LOG	DETAIL SCALE LOG	REFER TO	ADDITIONAL HEADINGS
204	N-N				
217/20	DIR				

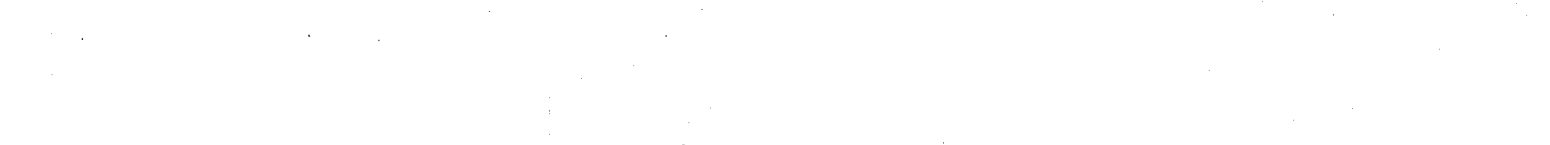
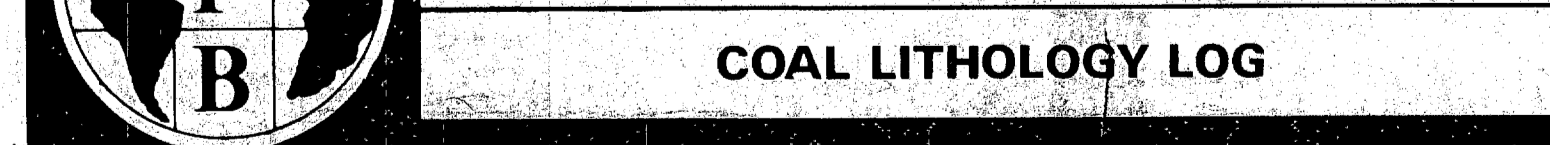
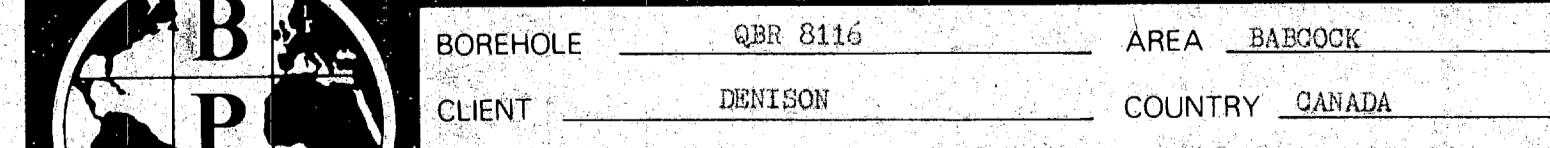
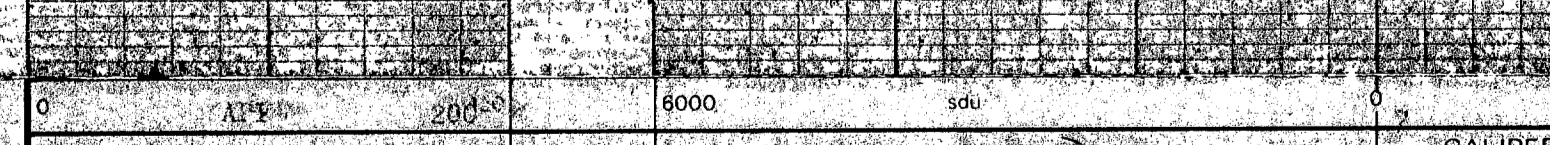
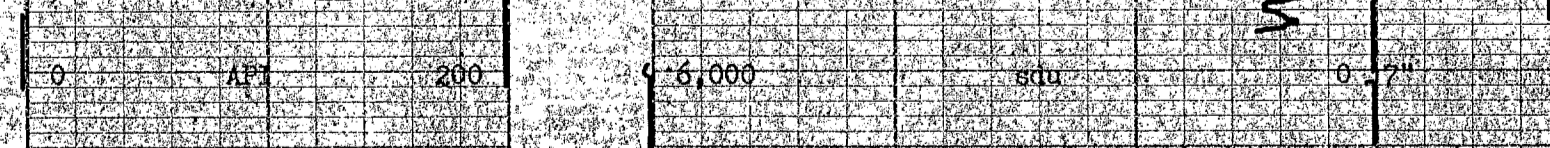
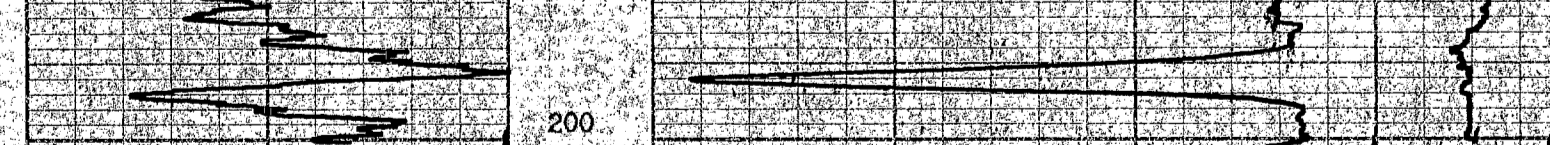
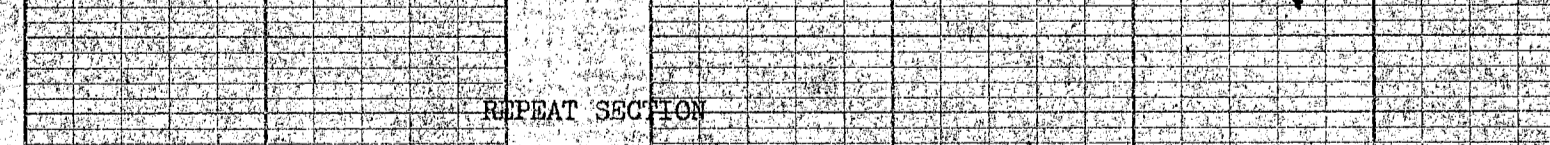
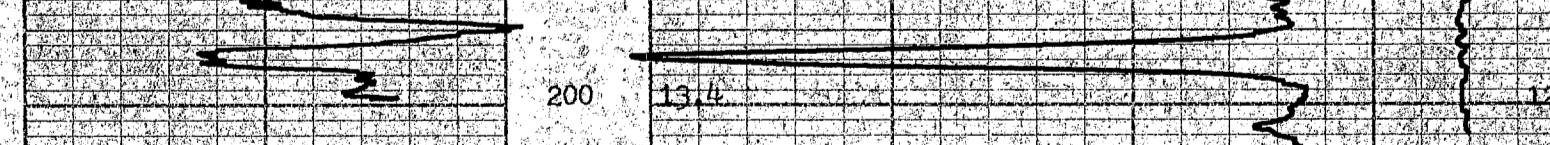
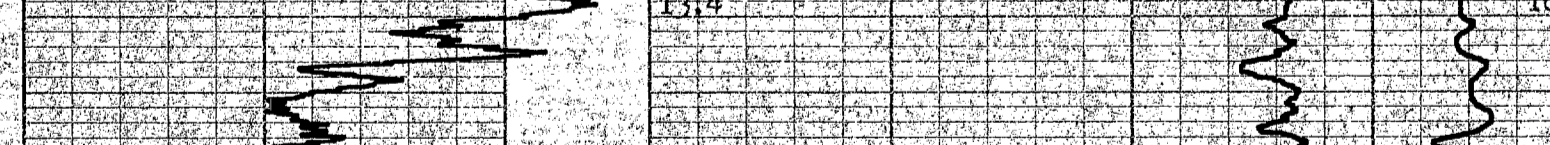
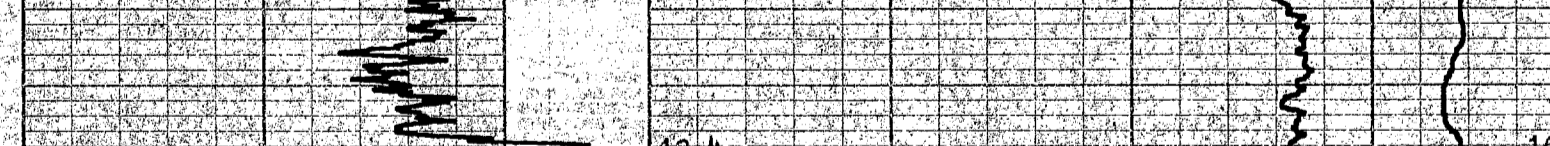
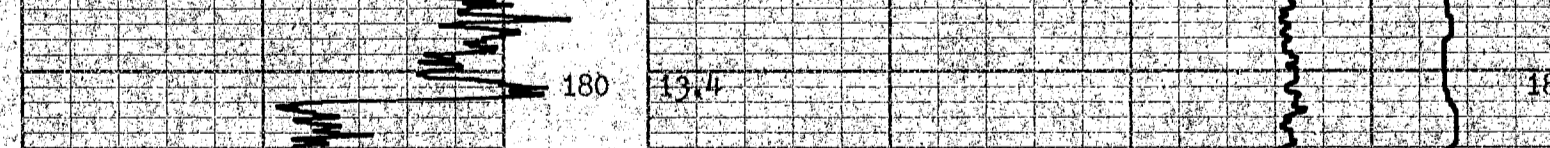
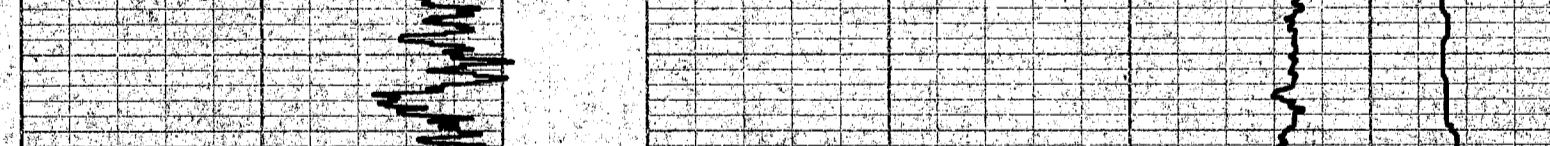
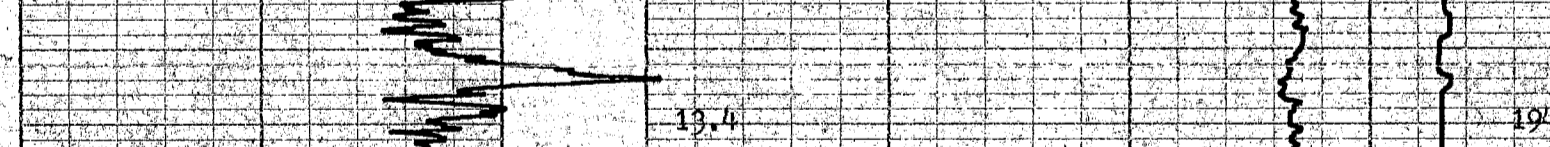
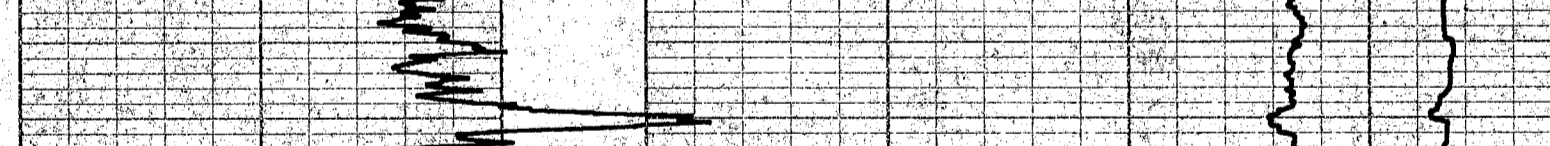
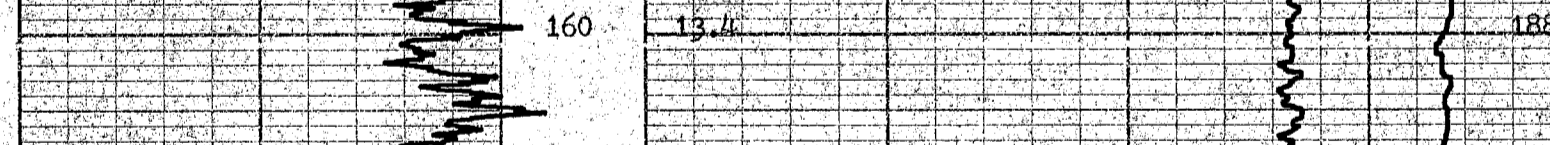
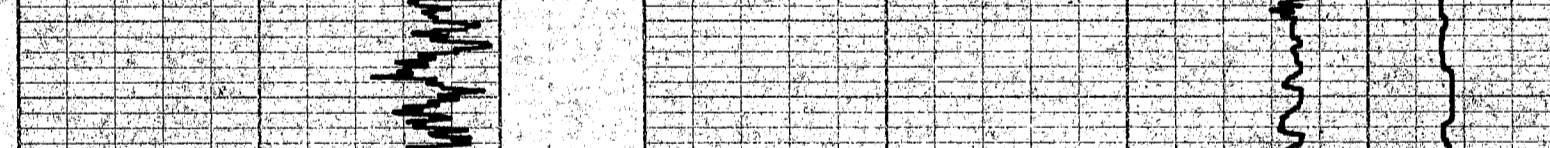
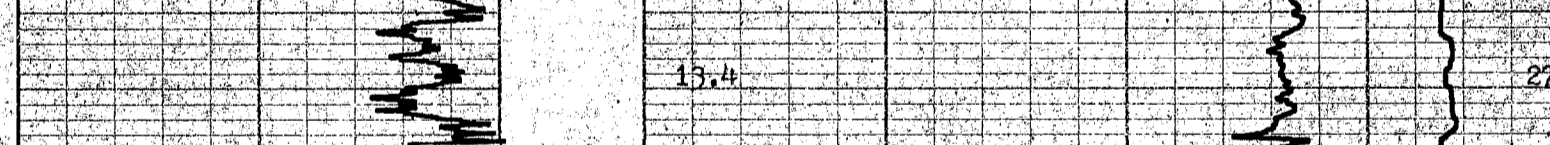
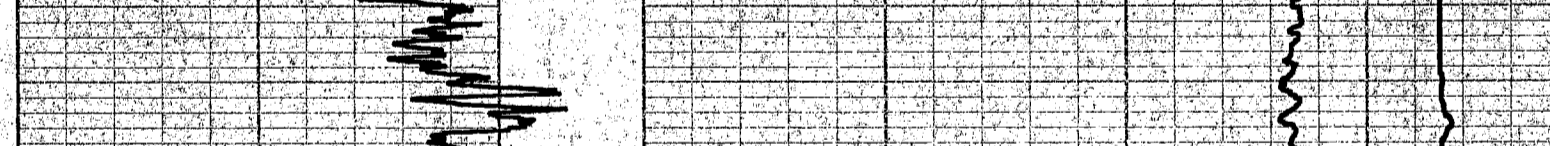
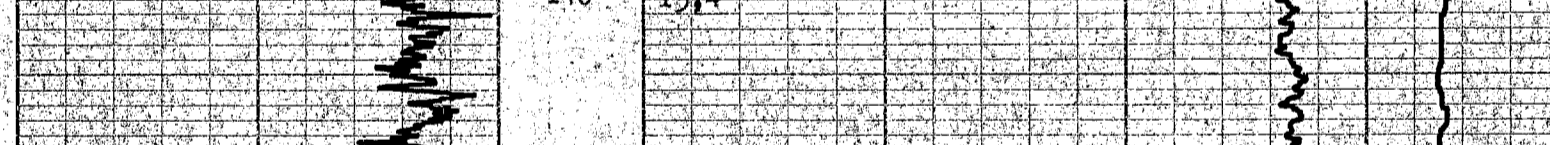
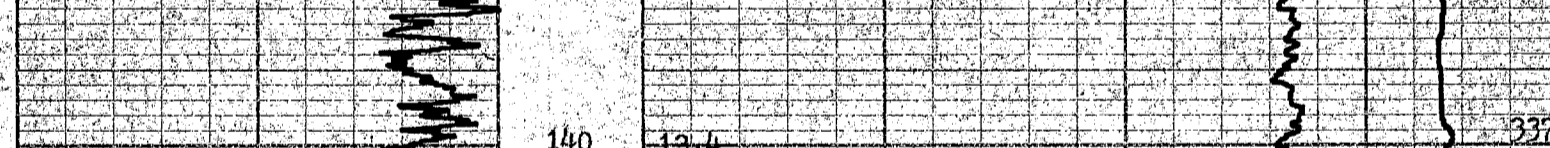
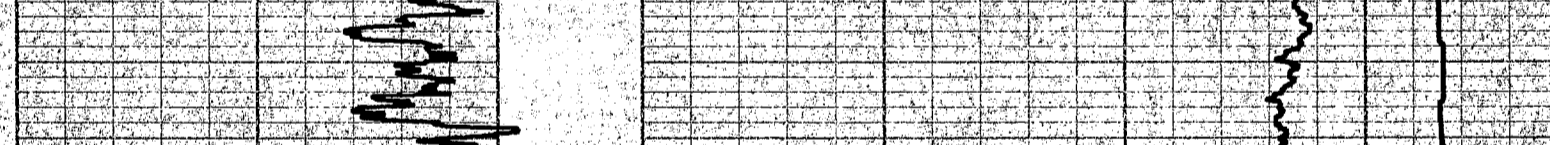
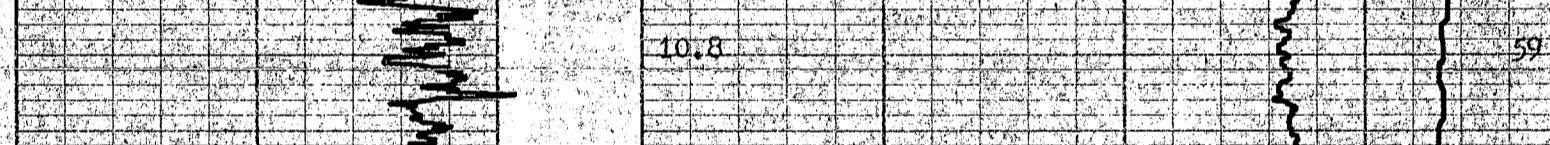
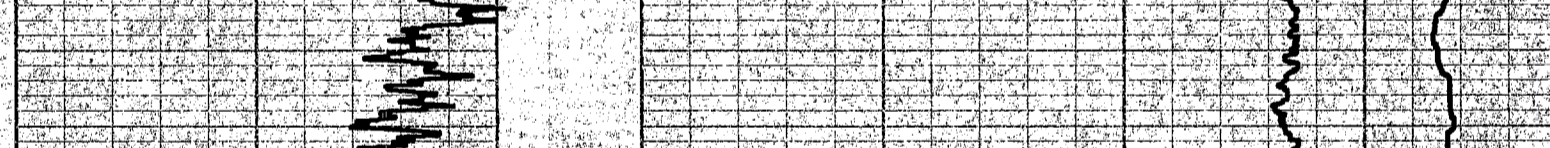
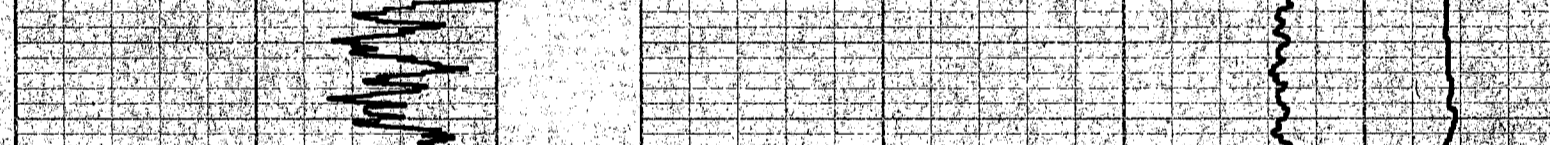
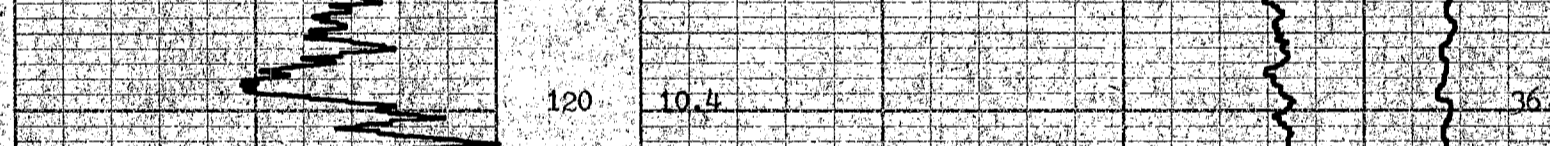
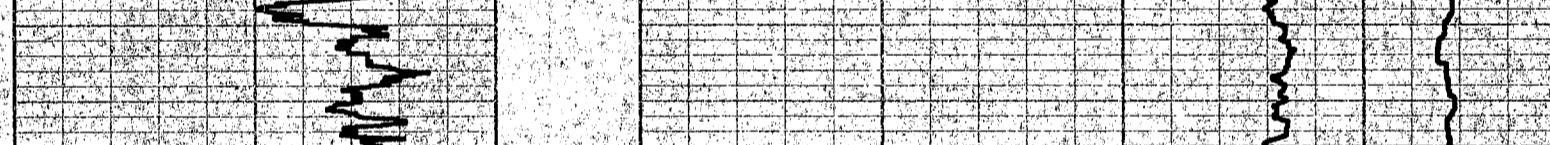
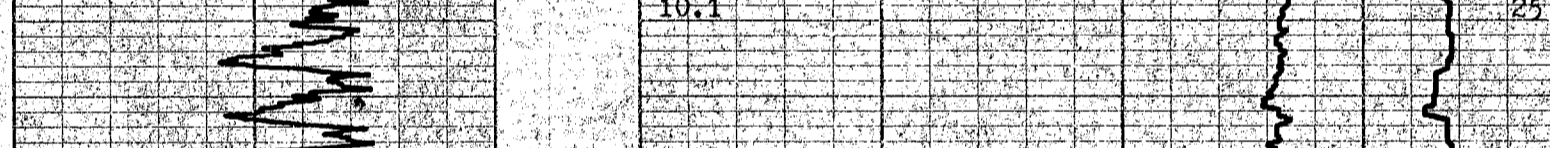
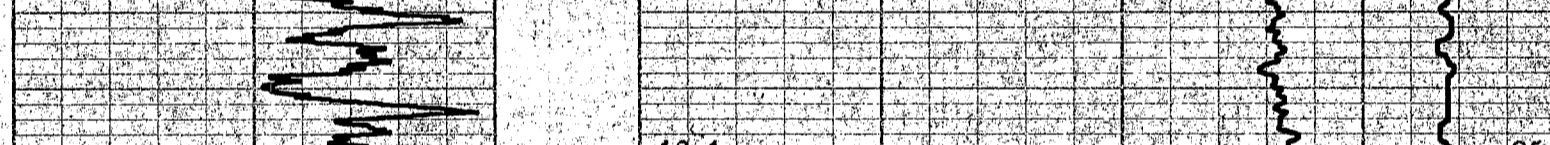
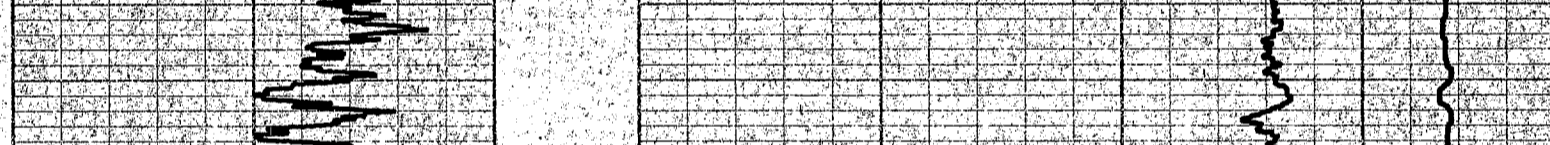
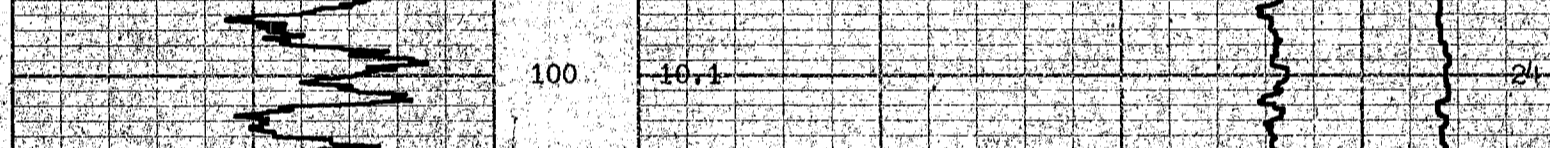
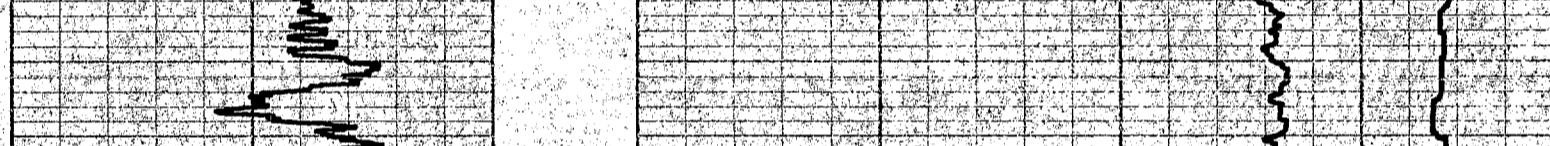
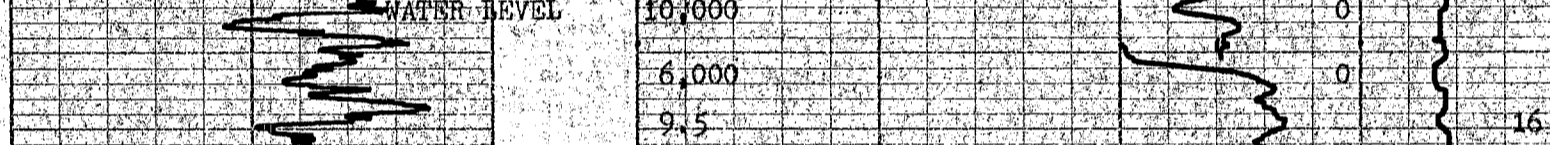
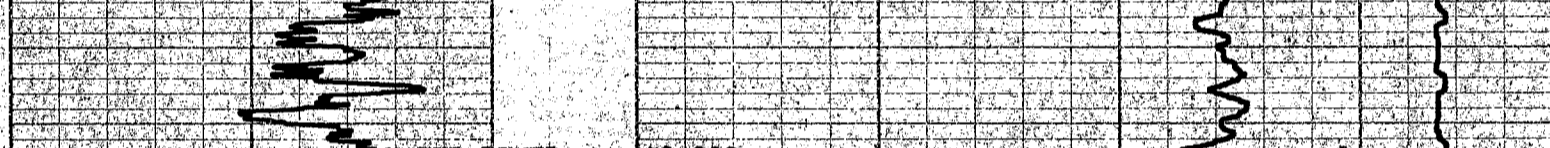
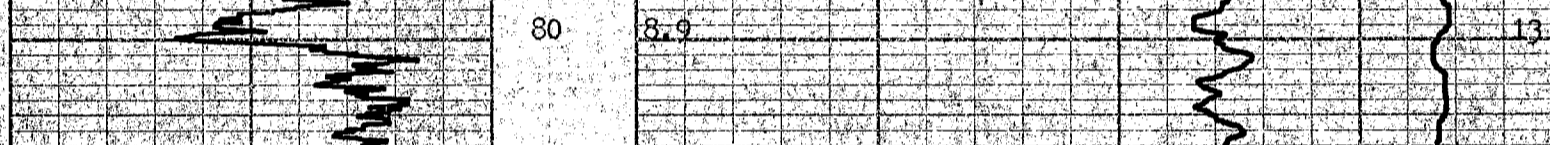
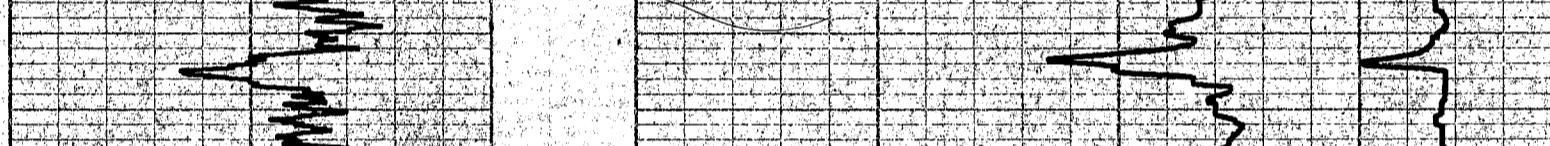
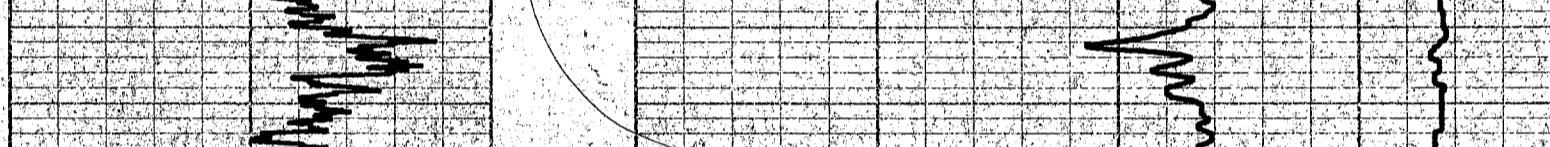
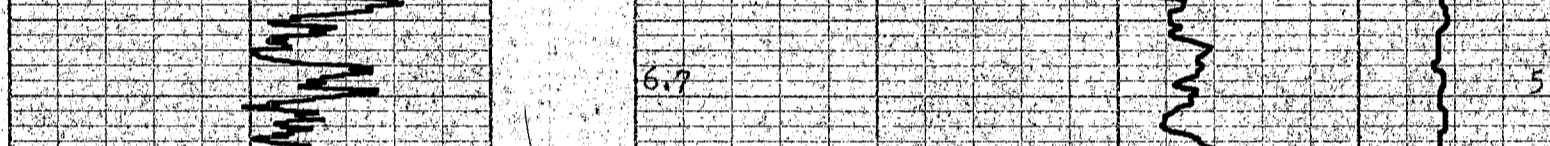
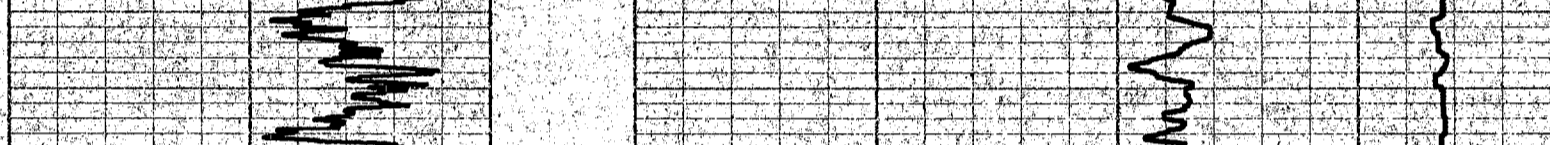
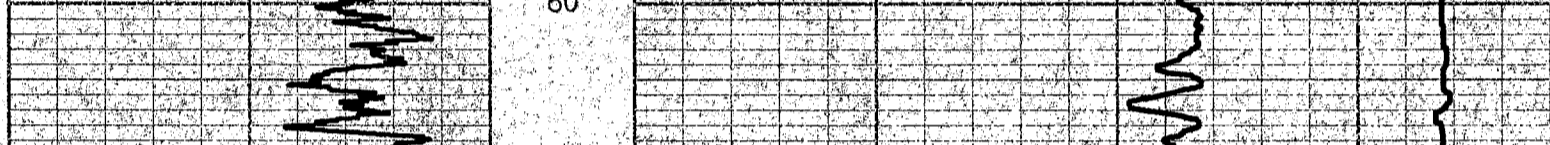
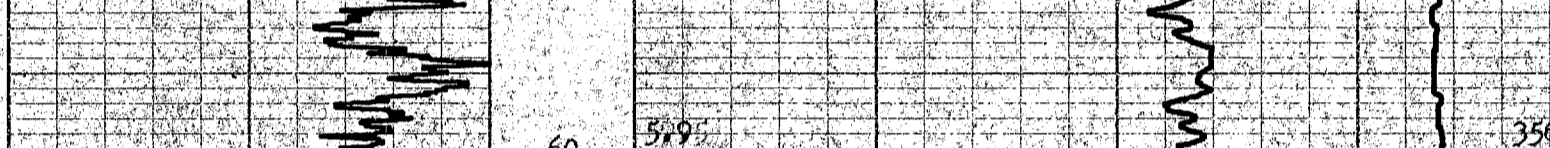
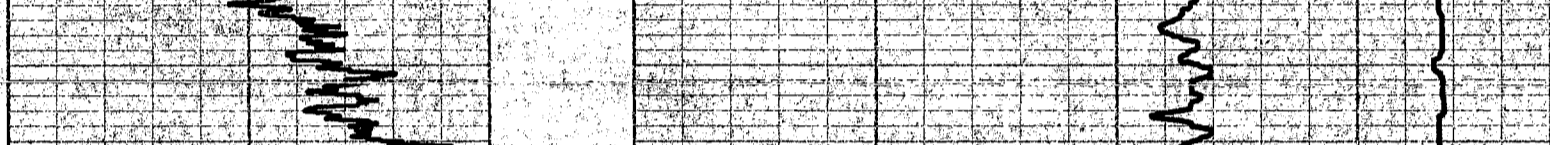
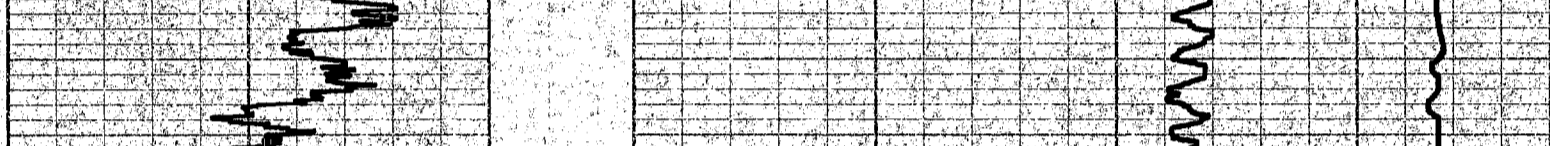
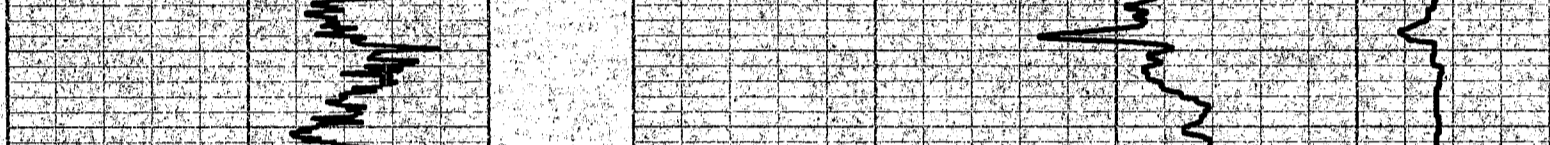
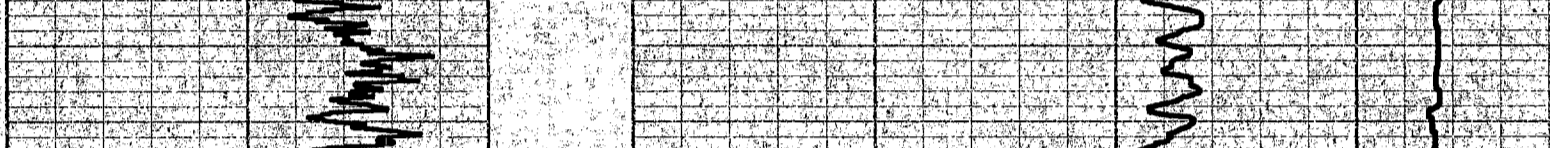
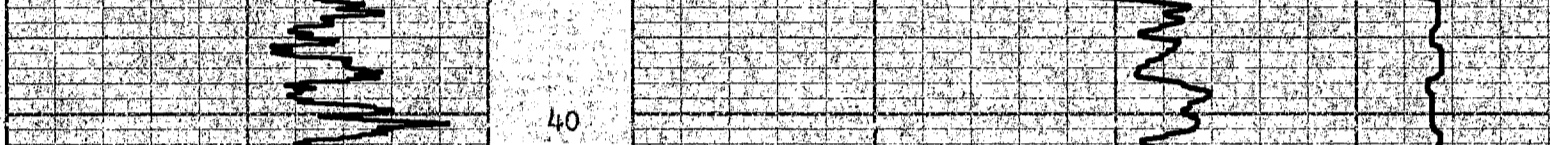
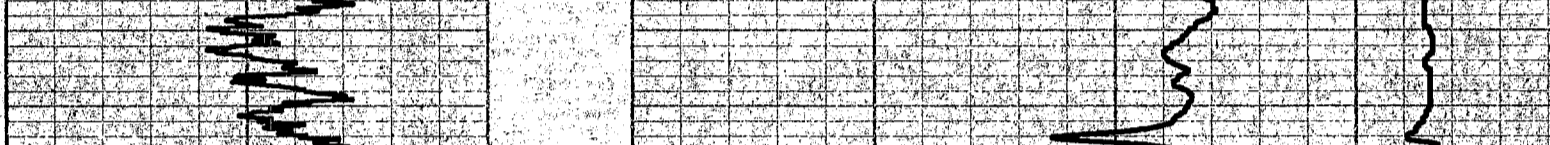
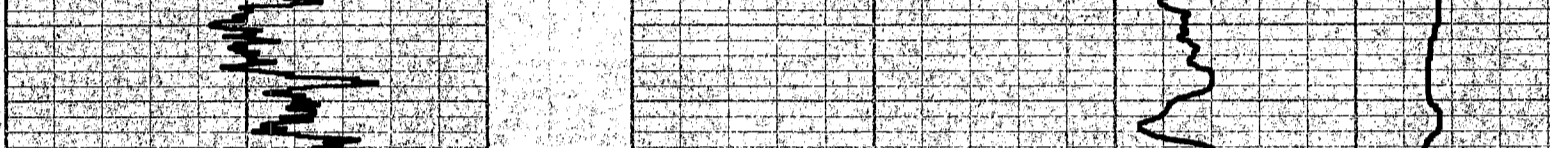
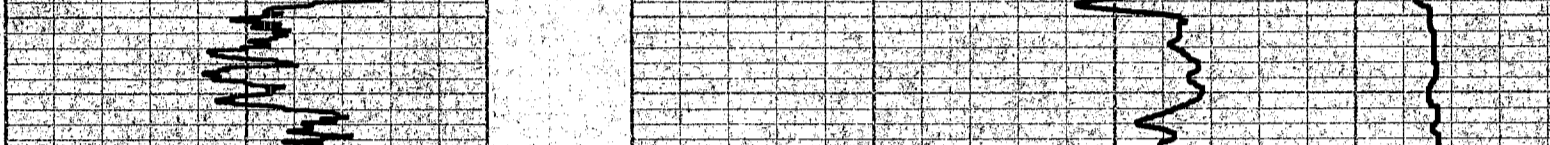
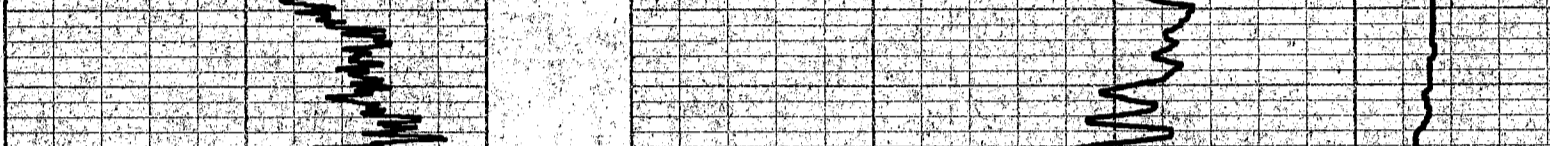
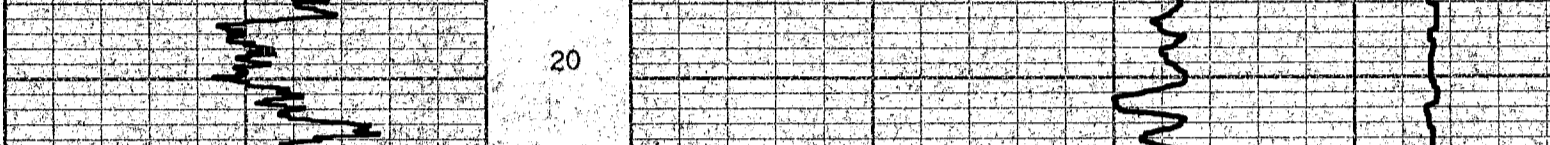
### BPB COAL LITHOLOGY LOG

#### CALIBRATION DATA

JIG No	VALUE	@ 2" DIAM	JIG CAL DATE	JIG VALUE	SDU (g)	g/cm <sup>3</sup>	ins	cps
JIG MARK SHOWN AT ABOVE VALUE								

#### GAMMA RAY BULK DENSITY CALIPER

##### HOLE SIZE CORRECTION DATA

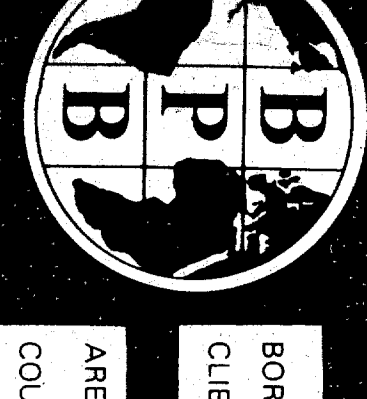


<b>GAMMA RAY</b>	<b>DEPTH</b>	<b>BULK DENSITY</b>	<b>CALIPER</b>
BOREHOLE QBR 8116		AREA BARROCK	
CLIENT DENISON		COUNTRY CANADA	
<b>COAL LITHOLOGY LOG</b>			





72- QUINTE 81(3)A



**BOREHOLE** 20115  
**CLIENT** DENTON  
**AREA** BARBOCK  
**COUNTRY** CANADA  
**DATE LOGGED** 15/10/74  
**DEPTH SCALE** 20:1  
**LOGS** 1 of 4

**COAL QUALITY LOG**  
 BOREHOLE DATA REFER TO LITHOLOG LOG  
 OPERATION DATA REFER TO LITHOLOG LOG  
 EQUIPMENT AND RECORDING DATA

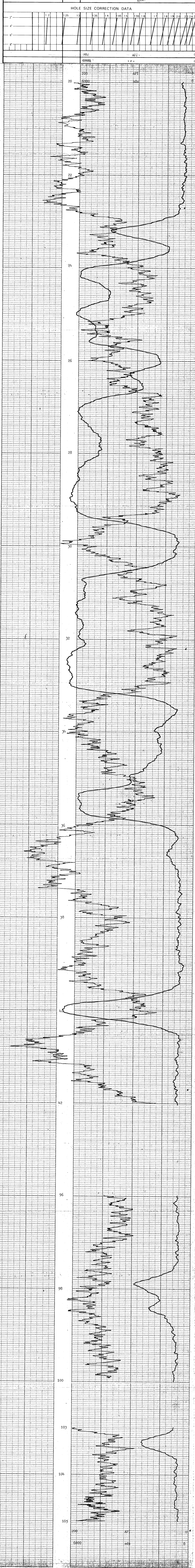
**COAL COMBINATION SONDE**  
 LOG RANGE SURVEILL POSITION  
 FROM 103 TO 105  
 TO 103 96 20  
 FROM 103 96 20  
 TO 103 96 20  
 FROM 103 96 20  
 TO 103 96 20  
 FROM 103 96 20  
 TO 103 96 20

**SONDE TYPE:**  
 COAL COMBINATION SONDE

**LOG SUITE:**  
 GAMMA RAY  
 L.S. DENSITY

**REMARKS**  
**615**

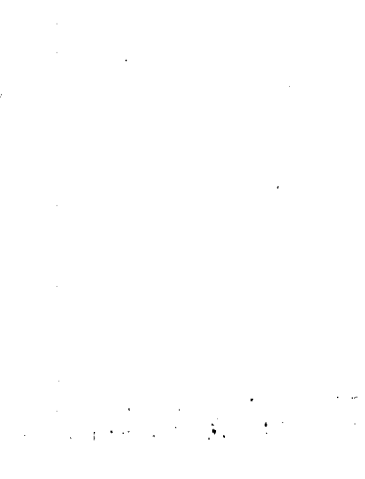
**BPB COAL QUALITY LOG**



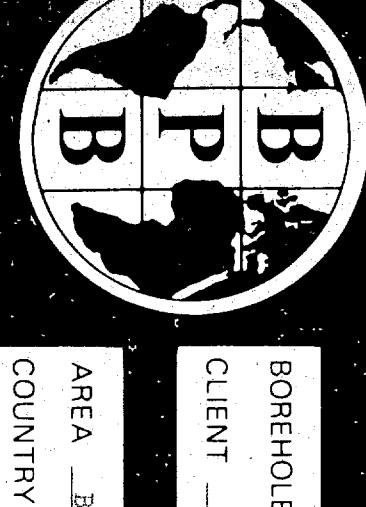
**COAL BULK DENSITY**  
**GAMMA RAY**  
**DEPTH**

**BOREHOLE** 20115  
**CLIENT** DENTON  
**AREA** BARBOCK  
**COUNTRY** CANADA

**COAL QUALITY LOG**



Pa. documents 8/6/2



**SEAM THICKNESS LOG**

BOREHOLE QBR 8115  
 CLIENT DENISON  
 AREA BABCOCK  
 COUNTRY CANADA  
 DATE LOGGED 15/12/71  
 1 of 4 LOGS

BOREHOLE DATA REFER TO LITHOLOGY LOG  
 OPERATION DATA REFER TO LITHOLOGY LOG  
 EQUIPMENT AND RECORDING DATA  
 COAL COMBINATION SONDE SIDE WALL POSITION

LOG TAPPING PANEL CHECK  
 1 100% RECORD (SCREEN SIZE) NONE  
 CALIPER Y 2 X 2 1  
 BR BRUSH Y 2 X 2 3 7.3

SONDE TYPE \_\_\_\_\_  
 COAL COMBINATION SONDE \_\_\_\_\_  
 LOG SUITE \_\_\_\_\_  
 CALIPER \_\_\_\_\_  
 BR DENSITY \_\_\_\_\_

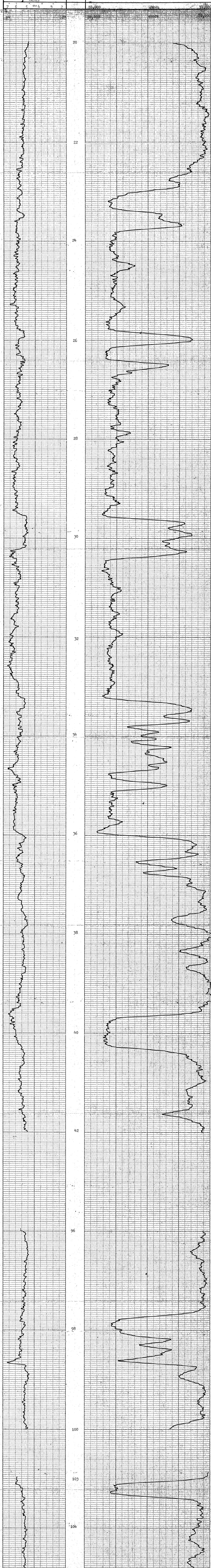
SEAM THICKNESS LOG INTERVALS

FROM	105	130	1/2
INITIAL	103	98	20
INTERVAL			
TOTAL			

REMARKS

**615**

**B P B SEAM THICKNESS LOG**



CALIPER INCHES DEPTH BED RESOLUTION DENSITY

BOREHOLE QBR 8115 AREA BABCOCK  
 CLIENT DENISON COUNTRY CANADA

**SEAM THICKNESS LOG**

MY88002 R