



GAMMA RAY & NEUTRON-NEUTRON LOGS

BOREHOLE 4BR 2115
CLIENT DENISON

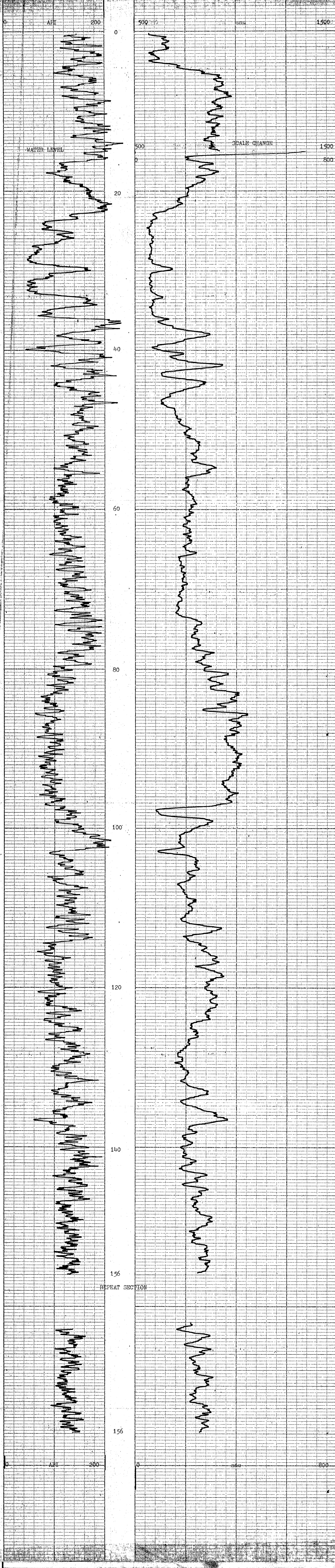
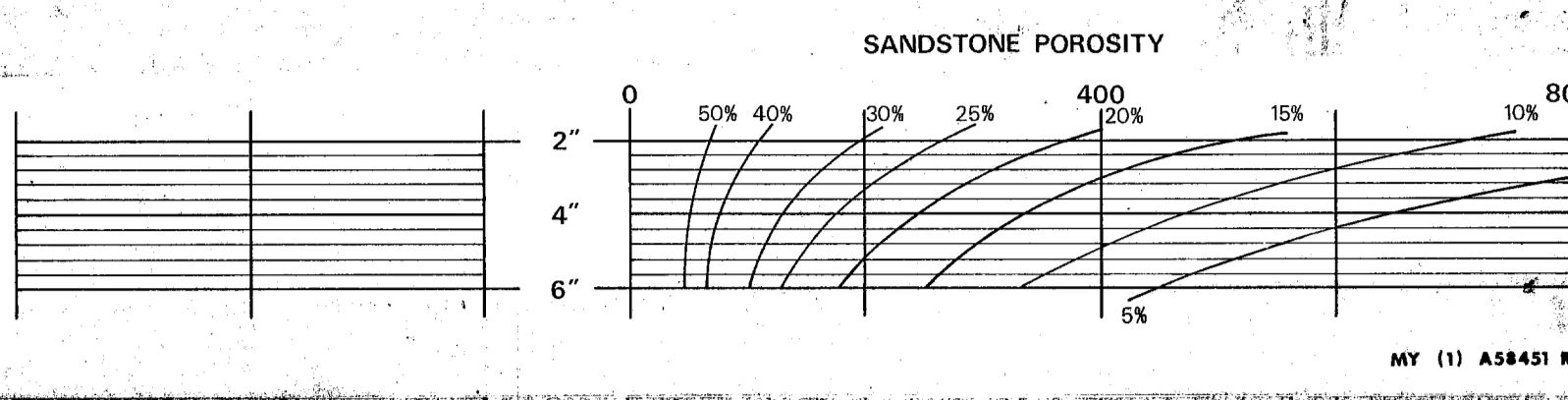
AREA BARBOCK
COUNTRY CANADA
DATE LOGGED 13/10/74

DEPTH SCALE
200'
1 OF 2 LOGS

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

EQUIPMENT AND RECORDING DATA
LOG TAPING PANEL CAT
LOG RECORDED SPEED SCS NOM 1.56
GAMMA Y 9 D 9 1 1 56
N-N I 9 C 9 1 1 24
REMARKS
615

GAMMA RAY	DEPTH	NEUTRON-NEUTRON
0	200	500
AFI		CPM
		1500



GAMMA RAY	DEPTH	NEUTRON-NEUTRON
0	200	500
AFI		CPM
		1500

BOREHOLE 4BR 2115 AREA BARBOCK
CLIENT DENISON COUNTRY CANADA

Page 2115 8137A



782 - QUINTETE SLSA

BOREHOLE QBR 2117
CLIENT DEMINOR

AREA BABCOCK
COUNTRY CANADA
DATE LOGGED 12/16/51

BOREHOLE SCALE
200:1
LOG 1.00 L. LOGS

COAL

LITHOLOGY LOG

SONDE TYPE: 1.75

COAL COMBINATION SONDE

LOG SUITE:
GAMMA RAY
L.S. DENSITY
CALIPER

BOREHOLE DATA	
PERMANENT DATUM	GROUND SURFACE
ELEVATION OF P.D.	
MEASUREMENT FROM	DRILLER
DEPTH REACHED	156
CASING SIZE	1.75
BIT SIZES	1 TO 2 TO 3 TO 4 TO 5 TO 6 TO 7 TO 8 TO 9 TO 10
CASING SIZES	1 TO 2 TO 3 TO 4 TO 5 TO 6 TO 7 TO 8 TO 9 TO 10
FLUID DATA	
VALVE	
SG	
LEVEL	
VISCOSITY	
Flow of Fluid, Temp	
DATE	

OPERATION DATA	
FIRST READING	1.52
LAST READING	0
INTERVAL LOGGED	1.50
UNIT-TRUCK No.	
ENGINEER	
WITNESS	

615

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE												
LOG	EQUIPMENT			TAPING		PANEL		CAL COEFF	DEPTHS	SEAM LOG RUN		
	SONDE	SOURCE	CALIBRATOR	LOG TAPED	RECORD SPEED	DIRECT REPLAY	SPEED	TC SECS	FROM	TO	INTERVAL	
GAMMA RAY	101			y	9	d	9	1	1.54	1.50	0	1.50
L.S. DENSITY		6822		y	9	d	9	1	2.21	1.50	0	1.50
CALIPER		SIDEWALL POSITION		y	9	d	9	1	1.50	0	1.50	

COAL QUALITY/SEAM THICKNESS LOG INTERVALS (Refer to relevant log)			
FROM	107	100	52
TO	107	96	20
INTERVAL			2.50

ADDITIONAL SONDES RUN				REMARKS
SONDE	LOG	GENERAL SCALE LOG	DETAILED SCALE LOG	
204	S-3			REFER TO ADDITIONAL HEADINGS
17/204	DI			

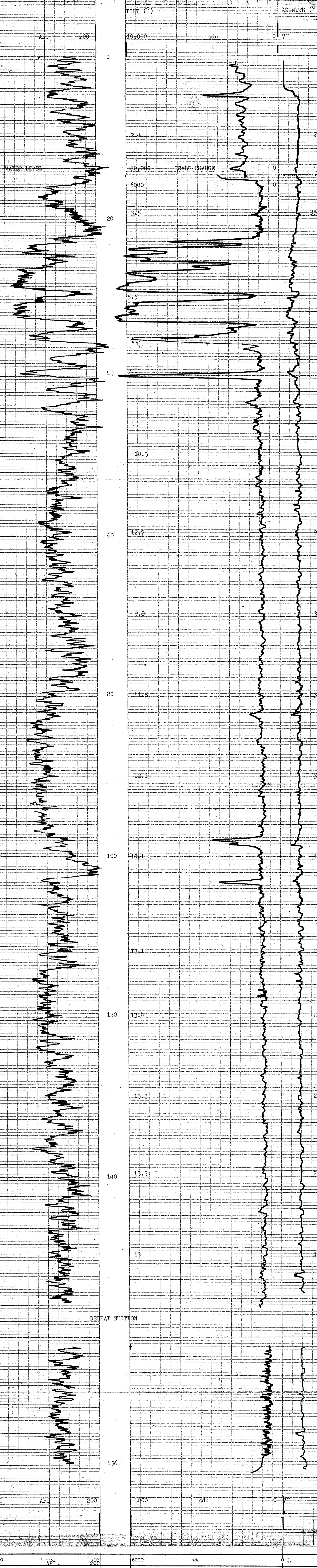
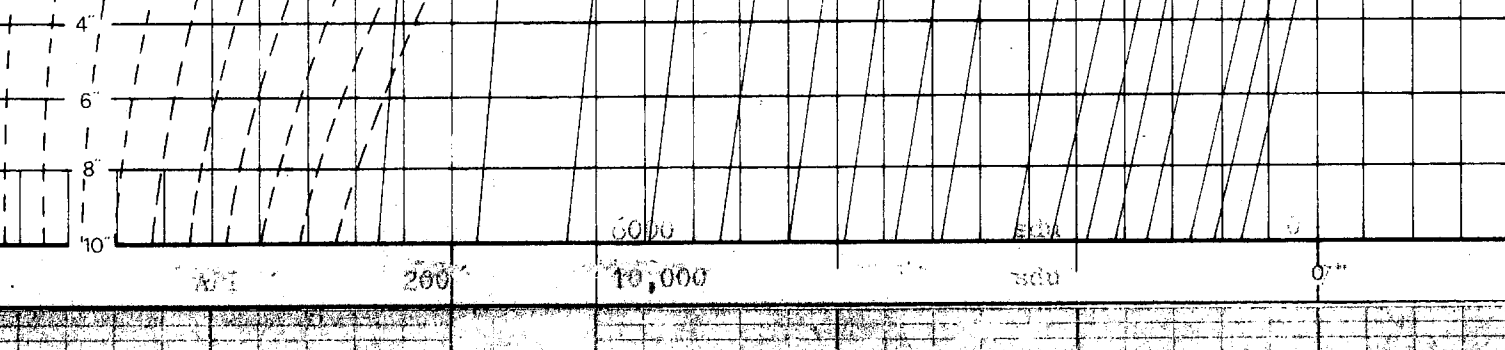
BPB COAL LITHOLOGY LOG

CALIBRATION DATA

JIG No	VALUE @ 2 DIAM	JIG CAL DATE	JIG VALUE	SDU @	g/cm ³	ins	cps
				NORM	SDU		cps

GAMMA RAY	DEPTH	BULK DENSITY g/cm ³	CALIPER INCHES
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HOLE SIZE CORRECTION DATA



GAMMA RAY	DEPTH	BULK DENSITY g/cm ³	CALIPER INCHES
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BOREHOLE QBR 2117 AREA BABCOCK
 CLIENT DEMINOR COUNTRY CANADA

COAL LITHOLOGY LOG



Pa. 001287 81 (33)



BOREHOLE 33B 8112	CLIENT BETHCO	AREA B45002K	DEPTH SCALE 201
COUNTRY CANADA	DATE LOGGED 19/10/91	1 of 1 LOGS	

COAL QUALITY LOG

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

LOG	TANK	SIGNAL POSITION	SCALE
GAMMA	1000	1000	1000
LS RENSITY	2	2	1
SOURCE SONDE AND CALIBRATION			
REFER TO LITHOLOGY LOG			

SONDE TYPE COAL QUALITY LOG INTERVALS

FROM 4.0 **TO** 40.0

FROM 1.0 **TO** 3.5

FROM 10.0 **TO** 18.0

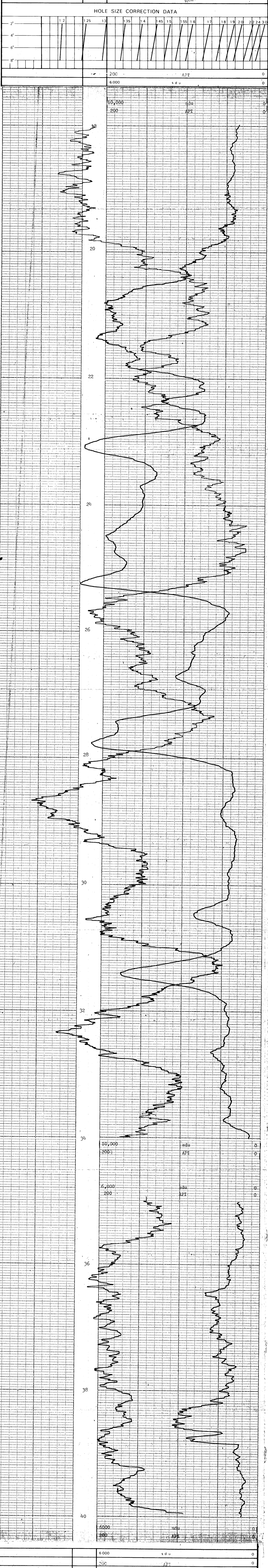
FROM 30.0 **TO** 38.0

REMARKS

NO CHANGE

615

B P B COAL QUALITY LOG



BOREHOLE 33B 8112	AREA B45002K
CLIENT BETHCO	COUNTRY CANADA

COAL QUALITY LOG



PR-QUINTETE 8137A



BOREHOLE QBR 8112
CLIENT DENISON

AREA BABCOCK
COUNTRY CANADA

DATE LOGGED 12/10/81

SEAM THICKNESS LOG

BOREHOLE DATA REFER TO LITHOLOGY LOG

OPERATION DATA REFER TO LITHOLOGY LOG

EQUIPMENT AND RECORDING DATA

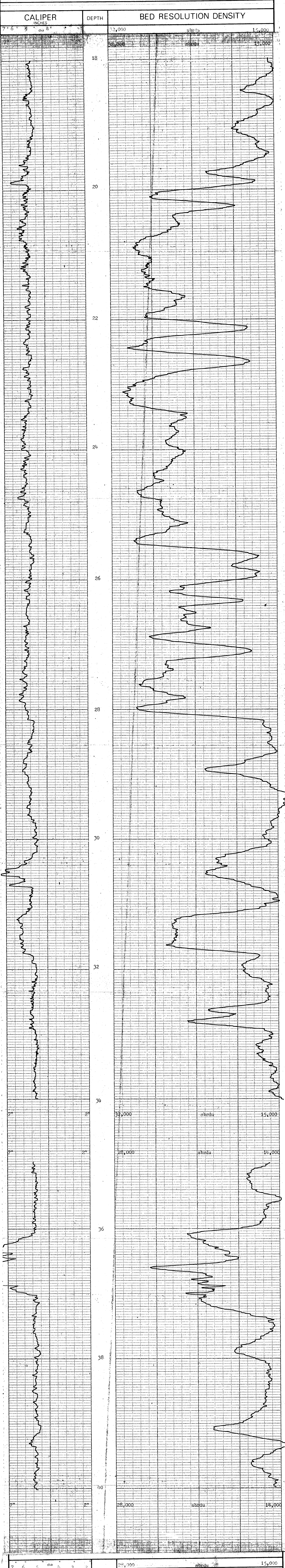
COAL COMBINATION SONDE

SONDE TYPE
COAL COMBINATION SONDE

LOG SUITE
CALIPER
BR DENSITY

615

B P B SEAM THICKNESS LOG



CALIPER INCHES	DEPTH	BED RESOLUTION DENSITY
7.6	18	15,000
7.5	20	14,000
7.4	22	14,000
7.3	24	14,000
7.2	26	14,000
7.1	28	14,000
7.0	30	14,000
6.9	32	14,000
6.8	34	14,000
6.7	36	14,000
6.6	38	14,000
6.5	40	14,000



BOREHOLE QBR 8112
CLIENT DENISON

AREA BABCOCK
COUNTRY CANADA

SEAM THICKNESS LOG



CANNA RAY & NEUTRON-NEUTRON LOGS

BOREHOLE QBR 8112

CLIENT DENISON

AREA BARCOCK

COUNTRY CANADA

DATE LOGGED 19/10/81

1 OF 1 LOGS

BOREHOLE DATA REFER TO LITHOLOGY LOG

OPERATION DATA REFER TO LOG

EQUIPMENT AND RECORDING DATA

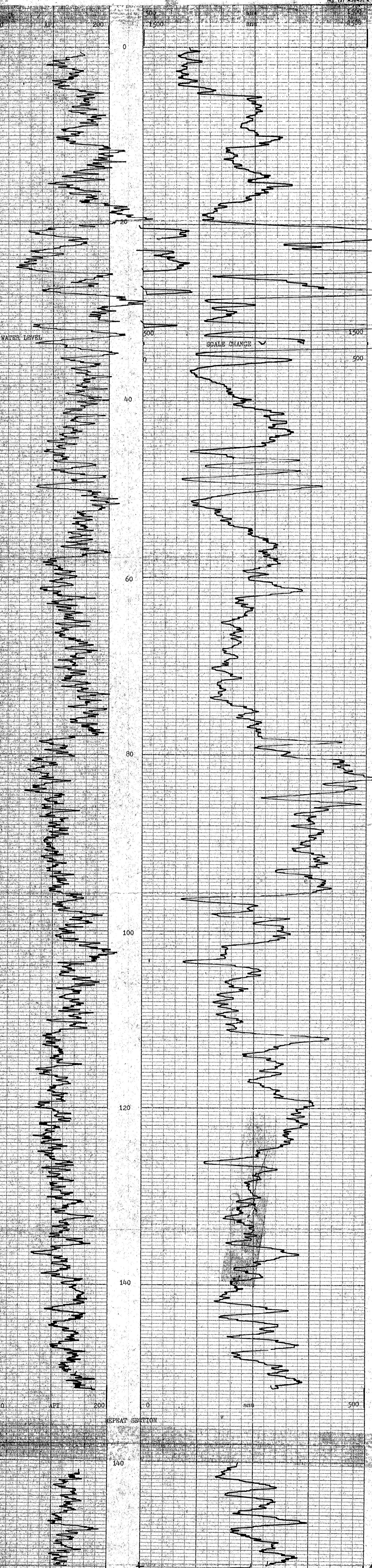
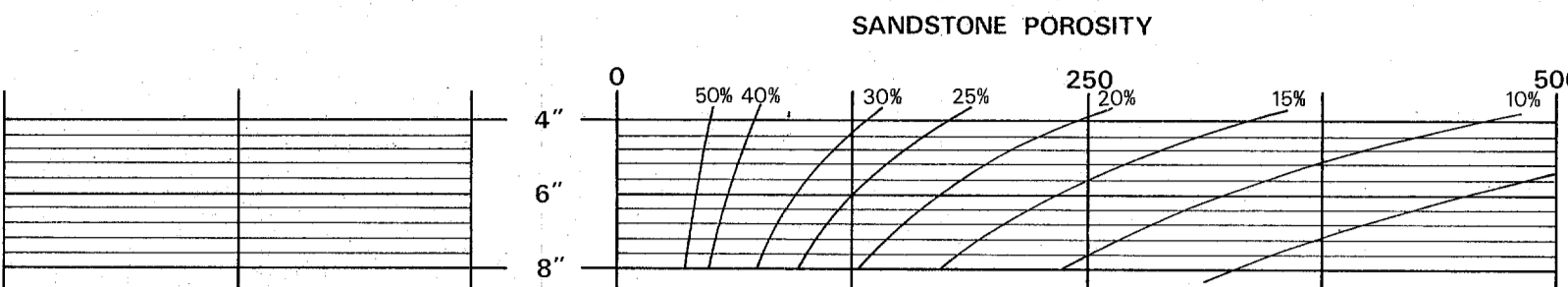
LOG TAPING PANEL CTR

GAMMA Y 9 F 9 1 1 24

REMARKS

615

CANNA RAY	DEPTH	0	200	500
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CANNA RAY	DEPTH	0	200	500
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CANNA RAY	DEPTH	0	200	500
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BOREHOLE	QBR 8112	AREA	BARCOCK
CLIENT	DENISON	COUNTRY	CANADA



MY A58452K

Paquette 8/13/81



Re-converted 8/13/78

COAL	BOREHOLE DATA	BOREHOLE QBR 8112	CLIENT DENISON
LITHOLOGY LOG	PERMANENT DATUM 30000 LEVEL	AREA BARBOCK	DEPTH SCALE 200:1
	ELEVATION OF P.O. 888	COUNTRY CANADA	DATE LOGGED 12/10/71
	MEASUREMENT FROM 5.7		
	DEPTH REACHED 152m		
	CASING SIZE 6.75		
	BIT SIZES 1 TO 2		
	CASING SIZES 1 TO 2		
SONDE TYPE: COAL	FLUID DATA		
COMBINATION SONDE	NATURE		
LOG SUITE: GAMMA RAY, L.S. DENSITY, CALIPER	LEVEL 13m		
	VISCOSITY		
	TEMP. AT 10m		
	BHT		
	OPERATION DATA		
	FIRST READING 1.5m		
	LAST READING 1.5m		
	INTERVAL LOGGED 1.5m		
	UNIT-TRUCK No.		
	ENGINEER JAL/78		
	WITNESS		

EQUIPMENT AND RECORDING DATA															
COAL COMBINATION SONDE															
LOG	SONDE	EQUIPMENT	SOURCE	CALIBRATOR	LOG TAPED	TAPING RECORD SPEED	DIRECT OF REPLAY	PANEL SPEED	T.C SECS	NORM	CAL COEFF	DEPTHS FROM	TO	INTERVAL	SEAM LOG RUN
GAMMA RAY	101				y	9	d	9	1		1.54	152	0	152	y
DENSITY			5822		y	9	d	9	1	3.01		153	0	153	y
CALIPER		SIDEWALL POSITION			y	9	d	9	3			153	0	153	y

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

FROM	4	40	24												
TO		35	18												
INTERVAL		5	16m												21m

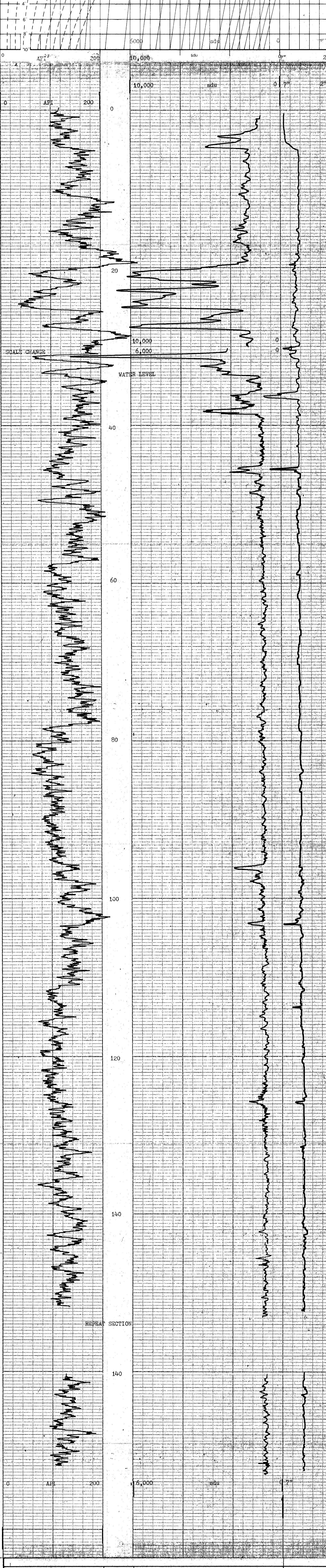
ADDITIONAL SONDES RUN				REMARKS	
SONDE	LOG	GENERAL SCALE LOG	DETAIL SCALE LOG	REFER TO ADDITIONAL HEADINGS	
204	N-N				NO DIPMETER RUN DUE TO HOLE CONDITIONS

BPB COAL LITHOLOGY LOG

CALIBRATION DATA									
JIG No	VALUE @ 2" DIAM	JIG CAL DATE	JIG VALUE	SDU @	g/cm ³	ins	cps		

GAMMA RAY	DEPTH	BULK DENSITY g/cm ³	CALIPER INCHES
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HOLE SIZE CORRECTION DATA															
2"	4"	6"	8"	10"	12"	13"	14"	15"	16"	17"	18"	19"	20"	21"	22"



GAMMA RAY	DEPTH	BULK DENSITY g/cm ³	CALIPER INCHES
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BOREHOLE QBR 8112	AREA BARBOCK
CLIENT DENISON	COUNTRY CANADA



COAL

LITHOLOGY LOG

LOG

SONDE TYPE
COAL
COMBINATION
SONDE

LOG SUITE
GAMMA RAY
L.S DENSITY
CALIPER

BOREHOLE QBR3110
CLIENT DENISON MINES

AREA BABCOCK
COUNTRY CANADA
DATE LOGGED 25/08/81

DEPTH SCALE
200:1
1 or 1.00S

BOREHOLE DATA

PERMANENT DATUM	UTM/UTM ZONE
ELEVATION OF F.D.	BFB
WASSERMAN'S FROM	02
DEPTH REACHED	135
CASING SHOE	135.6
BIT SIZES	1 5" TO 7"D 2 TO
	3 TO 4 TO
CASING SIZES	1 TO 2 TO

FLUID DATA

NATURE	ATE
LEVEL	91B
VISCOSITY	
TEMP	
PH	
OPERATION DATA	
FIRST READING	156
LAST READING	0
INTERVAL LOGGED	156
UNIT TRACK NO.	H21-302
ENGINEER	RB/SK
WITNESS	

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE									
LOG	EQUIPMENT	LOG TAPE	TAPING RECORD SPEED	DIRECT REPLAY	PANEL SPEED	TC SECS	CAL COEFF	DEPTHS FROM	SEAM LOG RUN
GAMMA RAY	129		Y 9	D 9	9 1	1.48	156	0	156
L.S DENSITY			Y 9	D 9	9 .3	7.78	156	0	156
CALIPER	SIDEWALL POSITION		Y 9	D 9	9 .3		156	0	156

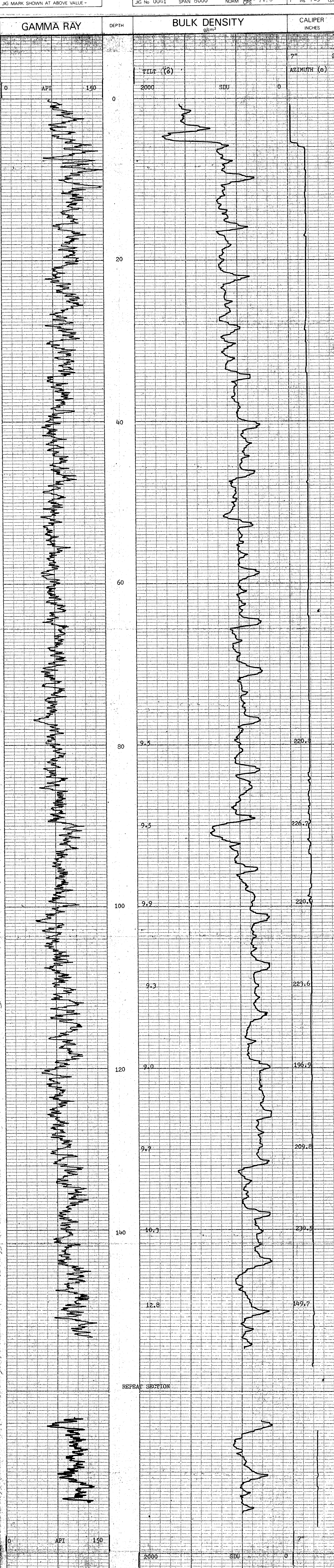
COAL QUALITY/SEAM THICKNESS LOG INTERVALS (Refer to relevant log)	INTERVAL TOTAL
FROM	
TO	
INTERVAL	

ADDITIONAL SONDES RUN				REFER TO ADDITIONAL HEADINGS	REMARKS
SONDE	LOG	GENERAL SCALE LOG	DETAILED SCALE LOG		
204	N-N	200:1			NEUTRON AND GAMMA AND DENSITY LOGGED THROUGH RODS
	SONIC	200:1			WATERLEVEL AT 91 m (OPEN HOLE)

B&B COAL LITHOLOGY LOG

CALIBRATION DATA

JIG No	VALUE 33 @ 2 DIAM	JIG CAL DATE	JIG VALUE 3680 SDU @ 1.09/cm ³	2 ins 365 cps
JIG MARK SHOWN AT ABOVE VALUE -		JIG No 0041	SPAN 6000 NORM SDU = 7.78	7 ins 715 cps



GAMMA RAY	DEPTH	BULK DENSITY g/cm ³	CALIPER INCHES
0	0	2000	7"
150	150	0	2"



BOREHOLE QBR3110 AREA BABCOCK
CLIENT DENISON MINES COUNTRY CANADA

COAL LITHOLOGY LOG

FR-QUINETTE 8/13/81

DE QUINTELL 8132A



NEUTRON NEUTRON
GAMA LOG

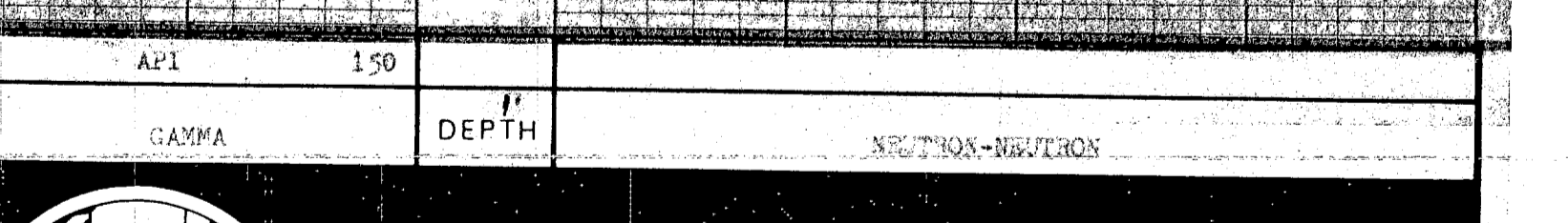
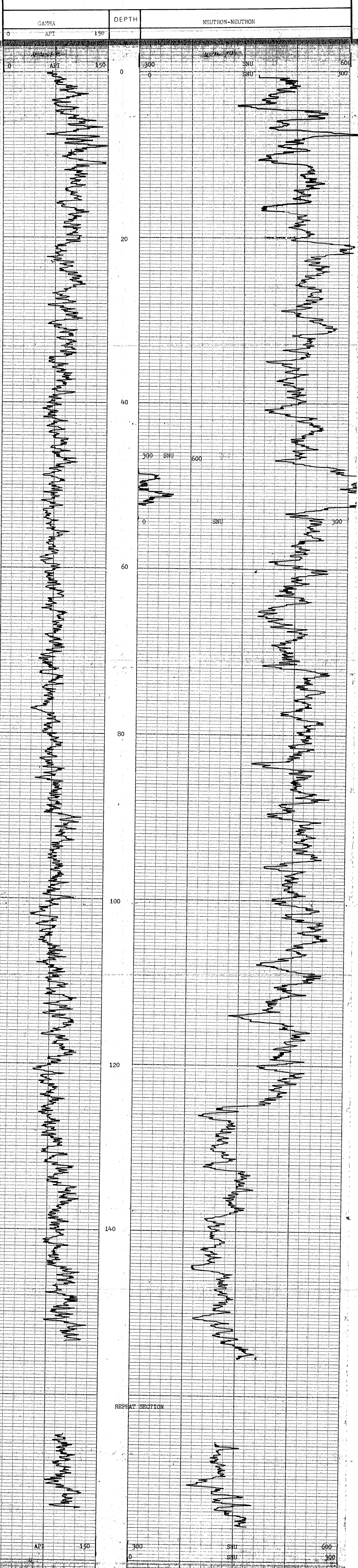
BOREHOLE QBR8110
CLIENT DENISON MINES

AREA BABCOCK
COUNTRY CANADA
DATE LOGGED 29/08/91

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

EQUIPMENT AND RECORDING DATA

LOG LOG TAPPING PANEL DATE
LOG RECORDING SPEED 1 K. NORM
TAPING SPEED FEEDBACK 9 1
GAMA 7 9 1 9 1 1.45
REMARKS
NEUTRON AND GAMA LOGGED
THROUGH ROPE
615



BOREHOLE QBR8110
CLIENT DENISON MINES

AREA BABCOCK
COUNTRY CANADA

MY A58452R



SONIC

BOREHOLE QBR8110

CLIENT DENISON MINES

AREA BABCOCK

COUNTRY CANADA

DATE LOGGED 25/08/81

DEPTH SCALE 200:1

3 of 3 LOGS

BOREHOLE DATA REFER TO LITHOLOGY LOG

OPERATION DATA REFER TO " LOG

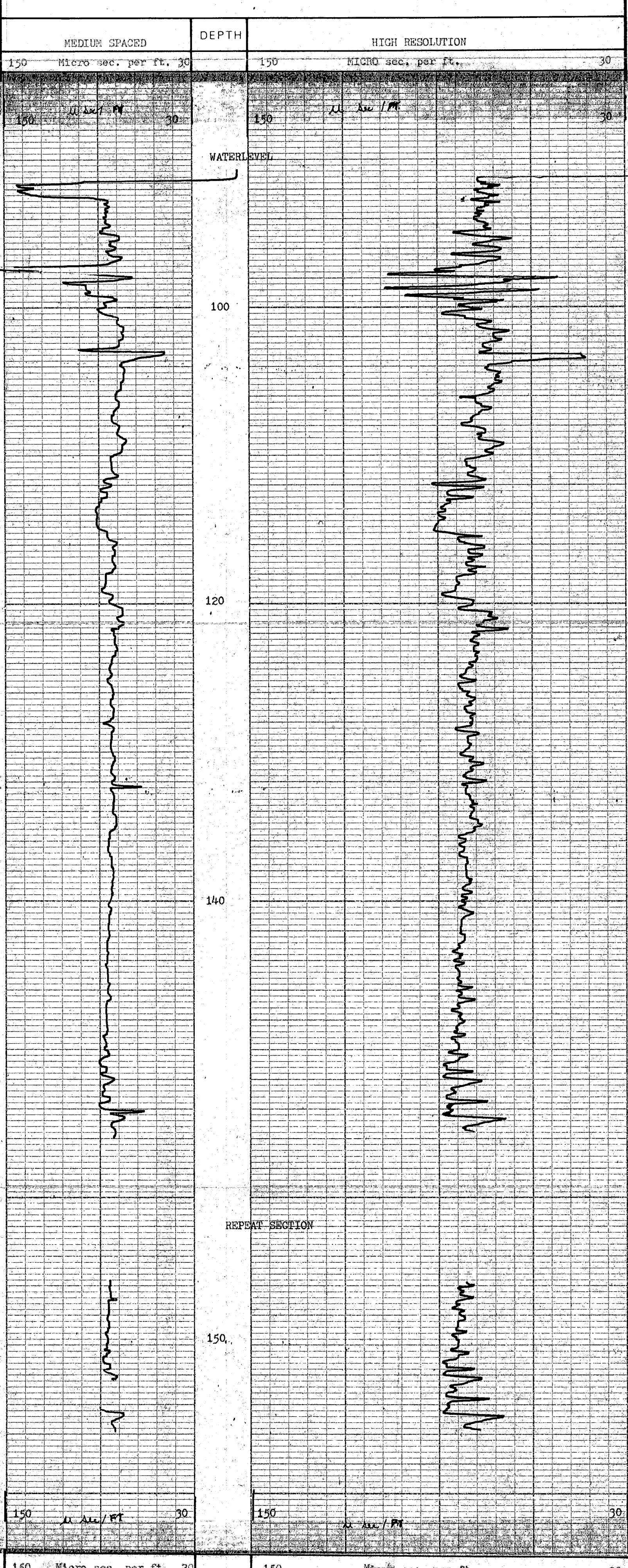
EQUIPMENT AND RECORDING DATA

LOG	TAPPING	PANEL	COIL
	LOG RECORDING SPEED T.C. NORM		
SOUND	Y	D	9
			3

REMARKS

WATER LEVEL AT 91m

615



BOREHOLE QBR8110

CLIENT DENISON MINES

AREA BABCOCK

COUNTRY CANADA



22-QUINTETE 8109

COAL LITHOLOGY LOG

BOREHOLE DATA

PERMANENT DATA: BOREHOLE QBR 8109, CLIENT DENISON MINES, AREA BABCOCK, COUNTRY CANADA, DATE LOGGED 24/09/81, DEPTH SCALE 200.1, 1 of 3 LOGS

BOREHOLE DATA

ELEVATION OF P.O.: BPP, OBBLER: U, DEPTH RECORDED: 157, CASING SIZE: 1 TO 1.75 TO 2 TO 3 TO 4 TO 6 TO 8 TO 10

SONDE TYPE

COAL COMBINATION SONDE

LOG SUITE

GAMMA RAY, L.S. DENSITY, CALIPER

OPERATION DATA

FIRST READING: 155, LAST READING: 156, INTERVAL LOGGED: 155-200, UNIT-TORQUE No.: 155, UNIT-TORQUE No.: 156, ENGINEER: JLF/sm, WITNESS:

EQUIPMENT AND RECORDING DATA

LOG	EQUIPMENT			TAPING		PANEL		CAL. COEFF.	DEPTHS			SEAM LOG RUN
	SONDE	SOURCE	CALIBRATOR	LOG TAPED	RECORD SPEED	DIRECTOR REPLAY	TC SECS		NORM	FROM	TO	
GAMMA RAY	129			Y	9	D	9	1	1.46	156	0	156
L.S. DENSITY				Y	9	D	9	.3	7.78	156	0	156
CALIPER		SIDEWALL POSITION		Y	9	D	9	.3				

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

FROM	TO	INTERVAL TOTAL

ADDITIONAL SONDES RUN

SONDE	LOG	GENERAL SCALE LOG	DETAIL SCALE LOG	REFER TO ADDITIONAL HEADINGS
204	N-N	200.1		

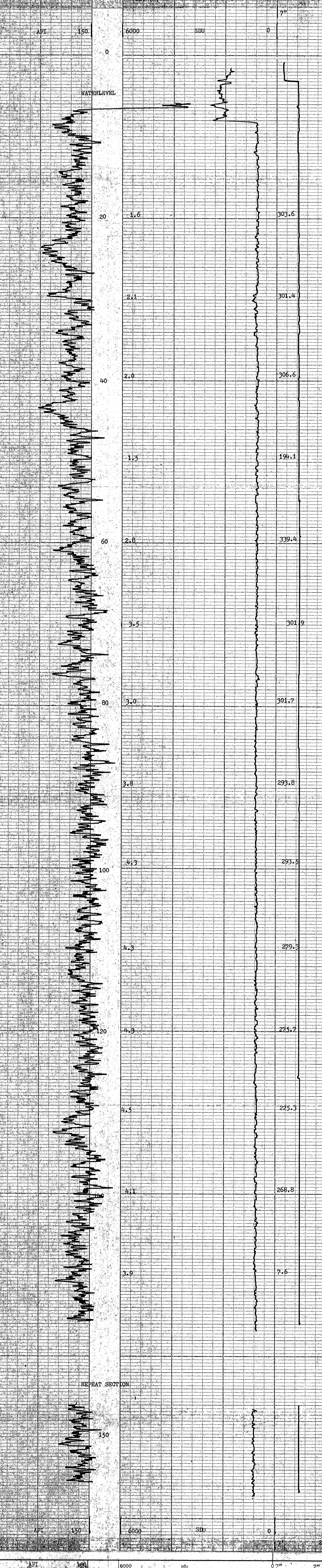
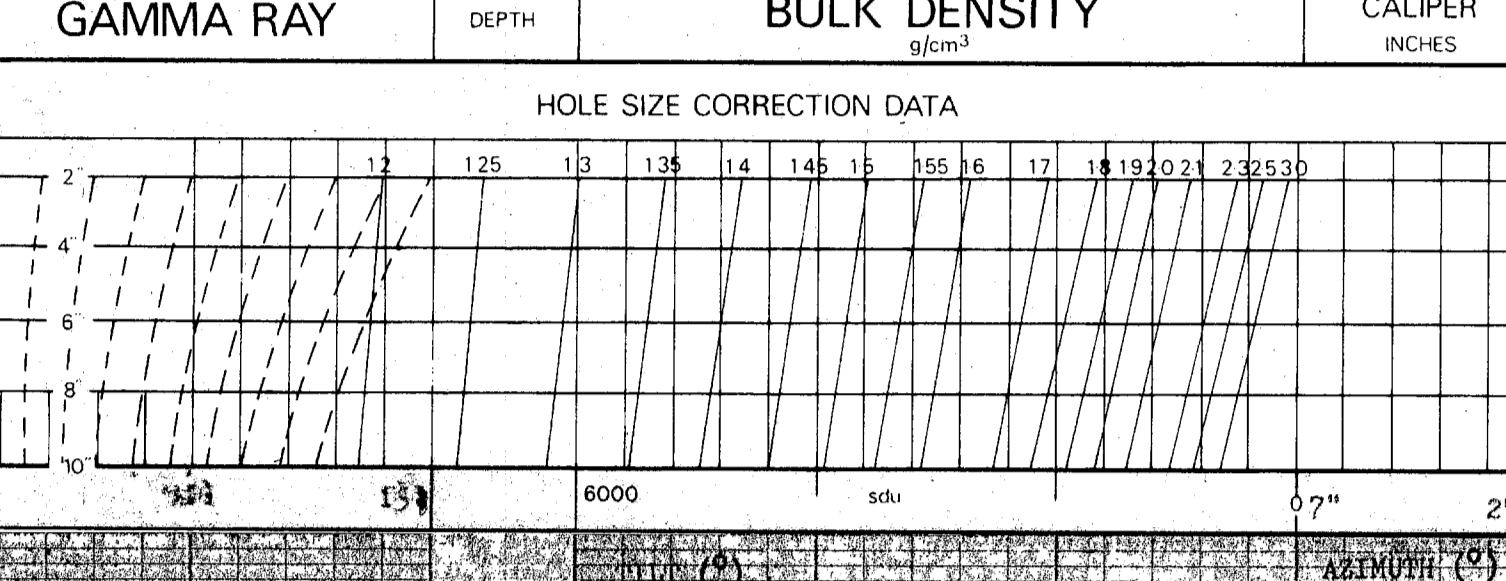
REMARKS

BPB COAL LITHOLOGY LOG

CALIBRATION DATA

JIG No	VALUE	2" DIAM	JIG CAL DATE	JIG VALUE	SDU @ 1.0 g/cm ³	2 ins	365 cps
	337			3690			

JIG MARK SHOWN AT ABOVE VALUE -	JIG No	SPAN	NORM	SDU	CPS	7 ins	715 cps
	0041	6000		7.78			



GAMMA RAY **DEPTH** **BULK DENSITY** (g/cm³) **CALIPER** (INCHES)

COAL LITHOLOGY LOG

BOREHOLE QBR 8109 AREA BABCOCK

CLIENT DENISON MINES COUNTRY CANADA





R-QUINTE 813A

NEUTRON NEUTRON
GAMMA LOG

BOREHOLE QBR8109
CLIENT DENISON MINES

AREA BABCOCK
COUNTRY CANADA

DATE LOGGED 24/08/81

DEPTH SCALE
200:1
0-400 LOGS

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

EQUIPMENT AND RECORDING DATA

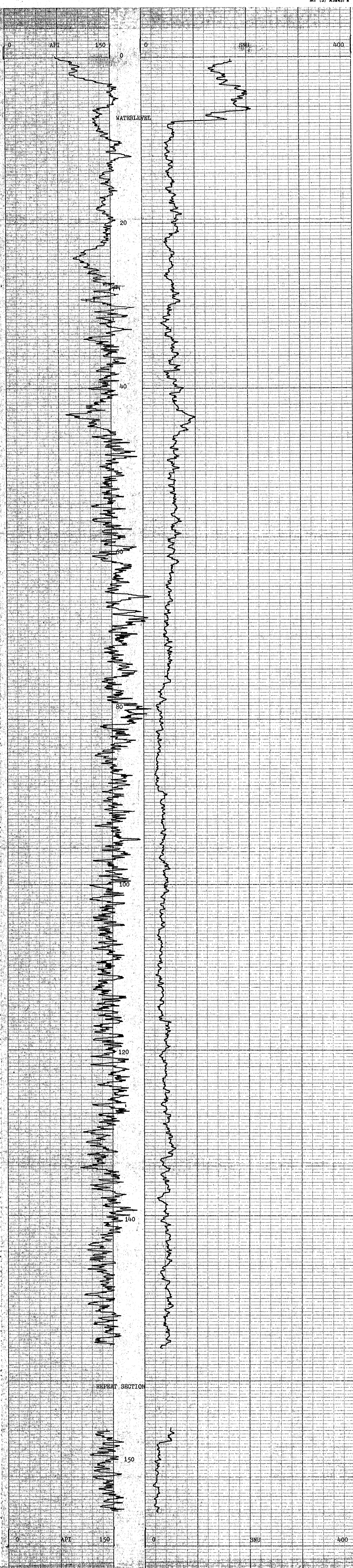
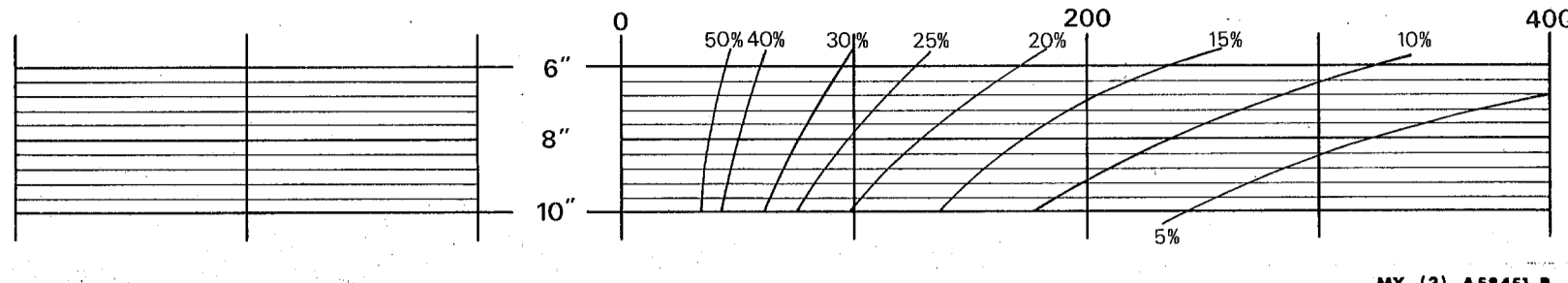
LOG	TYPING	PANEL	DATE
LOG	TYPE	NO. OF	DATE
X	9	D	9
Y	9	J	9
Z	9	I	9

REMARKS

615

GAMMA RAY	DEPTH	NEUTRON-NEUTRON
API	150	SNU
0		400

SANDSTONE POROSITY



GAMMA RAY	DEPTH	NEUTRON-NEUTRON
API	150	SNU
0		400



BOREHOLE QBR8109
CLIENT DENISON MINES

AREA BABCOCK
COUNTRY CANADA

MY A58452R

722-QUINETTE 81600



SONIC LOGS

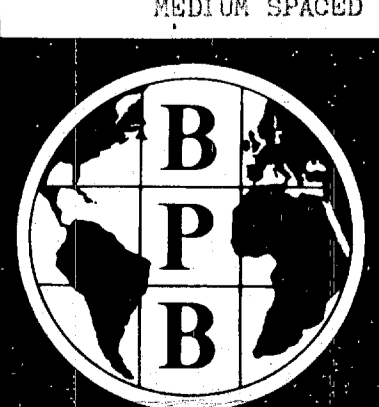
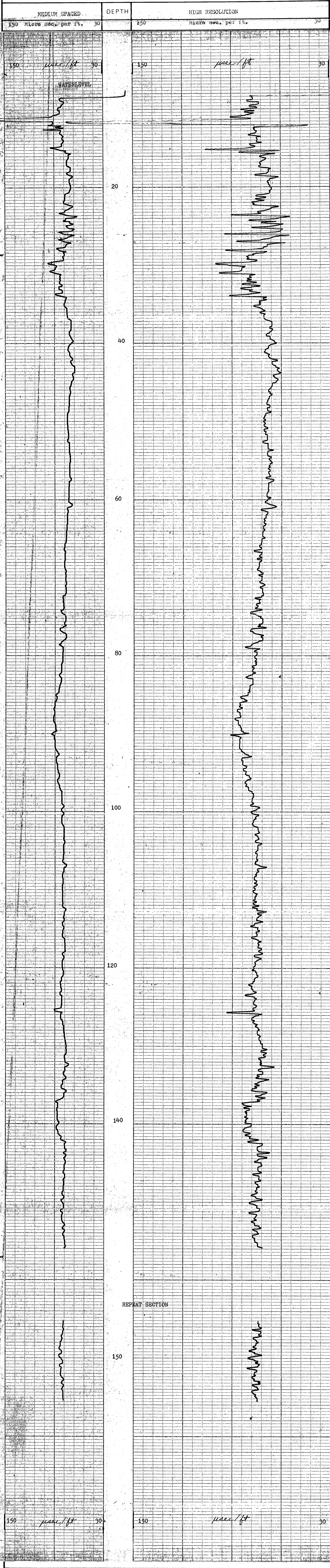
BOREHOLE QBR8109
 CLIENT DENISON MINES

AREA BABCOCK
 COUNTRY CANADA
 DATE LOGGED 24/09/81

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

EQUIPMENT AND RECORDING DATA
 LOG TAPING PANEL CAT
 LOG REFERENCE PREFIX SPEED SCS NORM
 SOUNG I 9 J 9 .3
 SCALE SURF

REMARKS
615



BOREHOLE QBR8109
 CLIENT DENISON

AREA BABCOCK
 COUNTRY CANADA



COAL LITHOLOGY LOG

SONDE TYPE: COAL COMBINATION SONDE

LOG SUITE: GAMMA RAY
L.S. DENSITY
CALIPER

OPERATION DATA:
FIRST READING 1.728
LAST READING 0
INTERVAL LOGGED 1.372m
UNIT - TRUCK NO. 300-11
ENGINEER TJA/AC
WITNESS

BOREHOLE DATA:
PERMANENT DATUM: 230000 LEVEL
ELEVATION OF # 0: " " DRILLER
MEASUREMENTS FROM: 1.1m 1.372m
DEPTH REACHED: 1.372m
CASING SIZE: 2.5" TO 2.5"
BIT SIZES: 3 TO 2
CASING SIZES: 1 TO 2

FLUID DATA:

BOREHOLE: QBR 5108
CLIENT: JENICOM
AREA: BARBOCK
COUNTRY: CANADA
DEPTH SCALE: 200:1
DATE LOGGED: 27/9/81
OF: 1005

EQUIPMENT AND RECORDING DATA

LOG	EQUIPMENT			TAPING		PANEL	CAL COEFF	DEPTHS		SEAM LOG RUN			
	SONDE	SOURCE	CALIBRATOR	LOG TAPED	RECORD SPEED			DIRECT or REPLAY	FROM		TO	INTERVAL	
GAMMA RAY	101			y	9	d	9	1	1.53	132	0	132	no
L.S. DENSITY		5822	0041	y	9	d	9	3	7.90	133	0	133	
CALIPER				y	9	d	9	3		133	0	133	

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

FROM	TO	INTERVAL	INTERVAL TOTAL

ADDITIONAL SONDES RUN

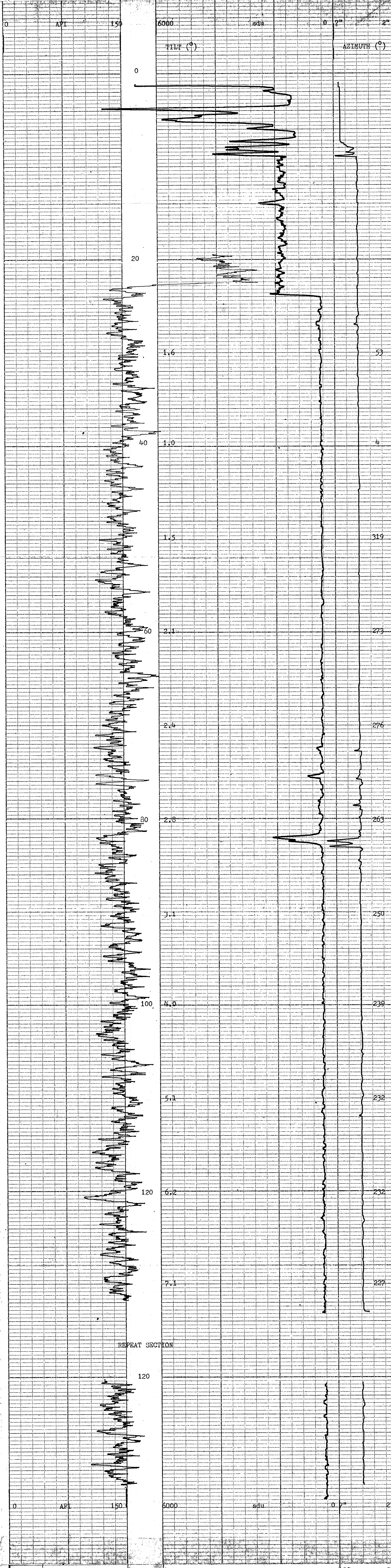
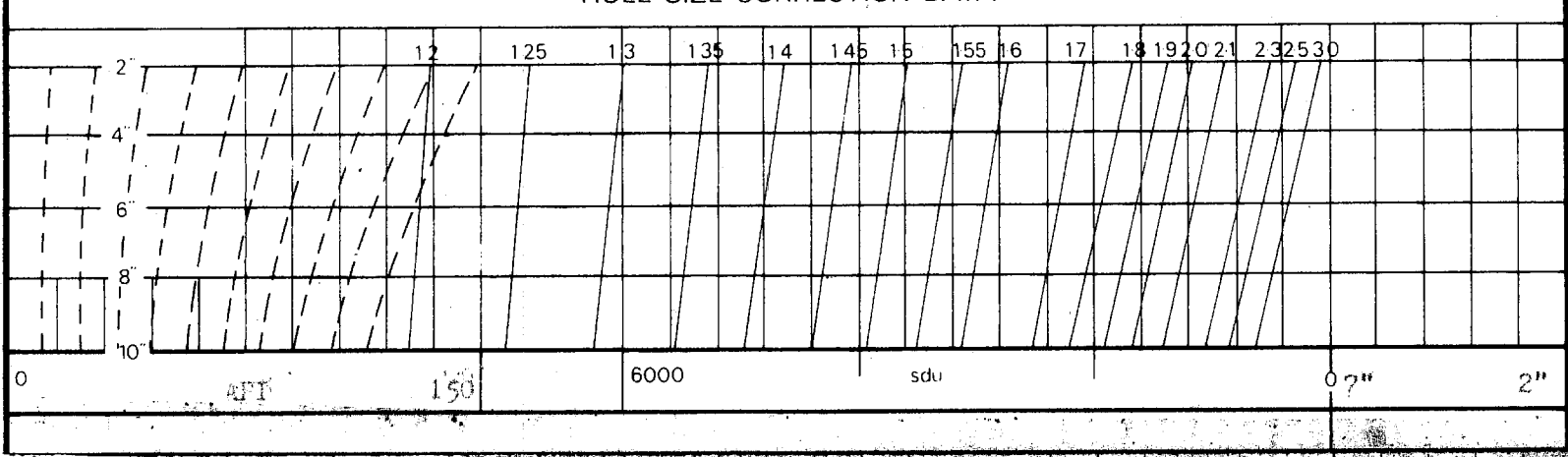
SONDE	LOG	GENERAL SCALE LOG	DETAIL SCALE LOG	REFER TO ADDITIONAL HEADINGS
204	N-N			
217/221	LIP			
	SONIC			

REMARKS:

BPB COAL LITHOLOGY LOG

CALIBRATION DATA

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



GAMMA RAY	DEPTH	BULK DENSITY g/cm ³	CALIPER INCHES



BOREHOLE: QBR 5108 **AREA:** BARBOCK
CLIENT: JENICOM **COUNTRY:** CANADA

COAL LITHOLOGY LOG

Pe-QUINTETE 81(3)a

615

72- QUINTE 813A



GAMMA RAY & NEUTRON-NEUTRON LOGS

BOREHOLE QBR 8108
 CLIENT DENISON
 AREA BABCOCK
 COUNTY CANADA
 DATE LOGGED 23/2/81

DEPTH SCALE OF LOGS

BOREHOLE DATA REFER TO LITHOLOGY LOG

OPERATION DATA REFER TO " LOG

EQUIPMENT AND RECORDING DATA

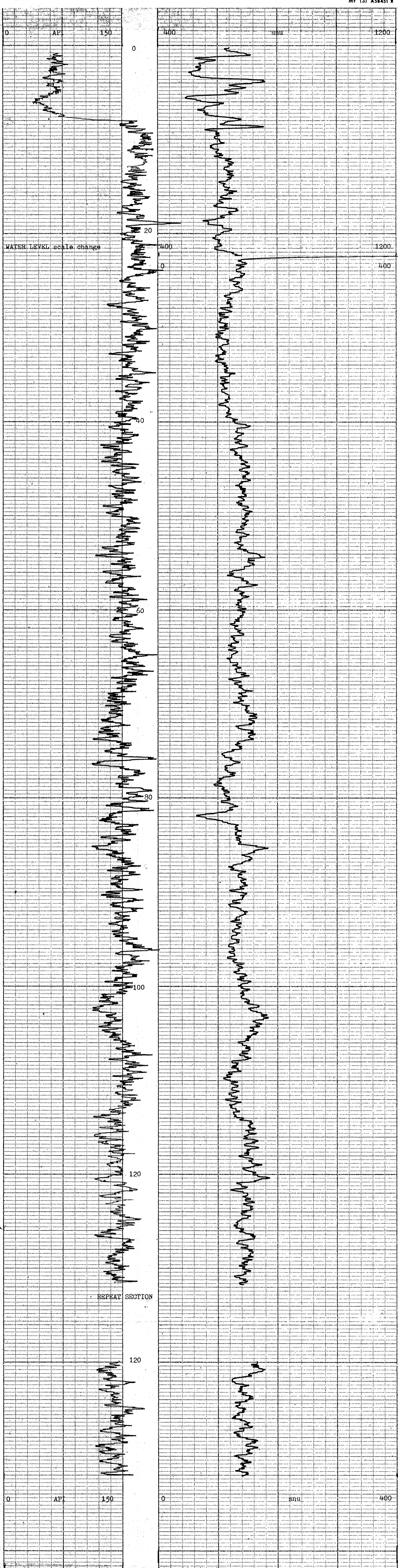
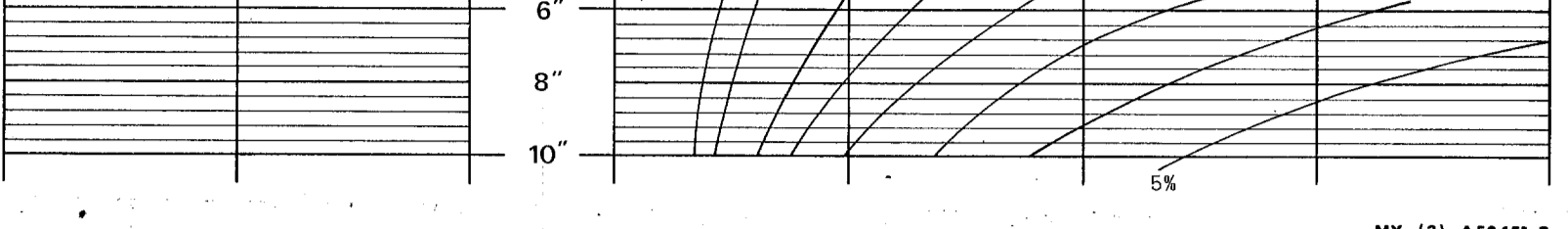
LOG	TARING	PANEL	ZONE
LITHO	RECORDED	NO.1	
GAMMA	9	9	1.53
N-N	9	9	1.56
SOURCE SCALE NO. 1727			

REMARKS

615

GAMMA RAY	DEPTH	NEUTRON-NEUTRON
0	150	400
1200		1200

SANDSTONE POROSITY



0	API	150	0	Gnu	400
GAMMA RAY	DEPTH		NEUTRON-NEUTRON		



BOREHOLE QBR 8108
 CLIENT DENISON
 AREA BABCOCK
 COUNTY CANADA

TAP-QUINTETE 8103A



JONIC LOGS

BOREHOLE QBR 8103

CLIENT DENISON

AREA BARCOCK

COUNTRY CANADA

DATE LOGGED 23/9/51

DEPTH SCALE
200:1

OF LOGS

BOREHOLE DATA REFER TO LITHOLOGY LOG

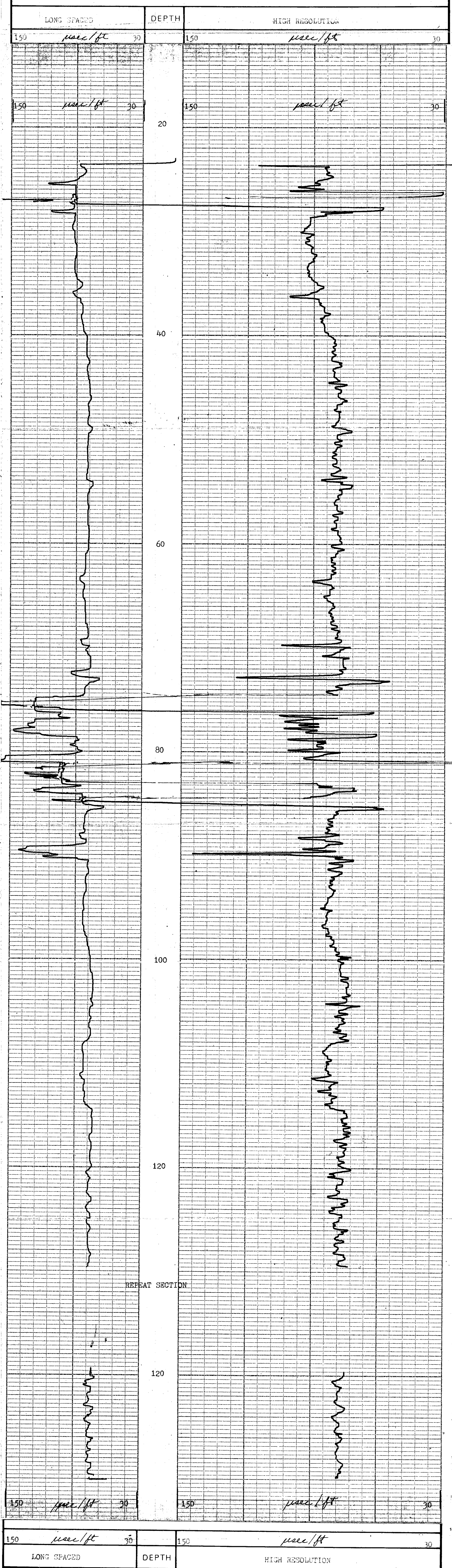
OPERATION DATA REFER TO " LOG

EQUIPMENT AND RECORDING DATA

LOG	TAPPING	PANEL	DATE
LOG	RECORD	T.C. NORM.	
SONIC	Y	9	9
	d	9	

REMARKS

615



BOREHOLE QBR 8103
 CLIENT DENISON
 AREA BARCOCK
 COUNTRY CANADA



Ore. DISTRICT 813A

COAL LITHOLOGY LOG	COAL	LOG	SONDE TYPE COAL COMBINATION SONDE
PERMANENTUM ELEVATION OF F.O. WAS/BS/MS/ST/BM DEPTH REACHED CASING SIZE BIT SIZES CASING SIZES	GENERAL LEVEL BFB 3.1 157 6in 1 TO 2 3 TO 4 TO	DRILLER S.L. 185 TO TO TO	LOG SUITE: GAMMA RAY L.S. DENSITY CALIPER
BOREHOLE DATA	BOREHOLE QBR 8107 CLIENT DENISON	AREA BABCOCK COUNTRY CANADA	DEPTH SCALE 0-301.1 DATE LOGGED 21/7/81
FLUID DATA	NATURE	OPERATION DATA	FIRST READING 157m LAST READING 0 INTERVAL LOGGED 157m UNIT-TICK MARK H2O1-30X ENGINEER DJ/AL WITNESSES

EQUIPMENT AND RECORDING DATA																
COAL COMBINATION SONDE																
LOG	SONDE	EQUIPMENT	SOURCE	CALIBRATOR	LOG TAPED	TAPING	RECORD SPEED	DIRECT/REPLAY	PANEL	IC SECS	NORM	CAL COEFF	DEPTHS	SEAM LOG RUN		
													FROM	TO	INTERVAL	
GAMMA RAY	101				y	9	d	9	1			1.53	162m	0	162m	no
L.S. DENSITY			5222	0041	y	9	d	9	.3	7.02			163m	0	163m	
CALIPER		SIDEWALL POSITION			y	9	d	9	.3				163m	0	163m	

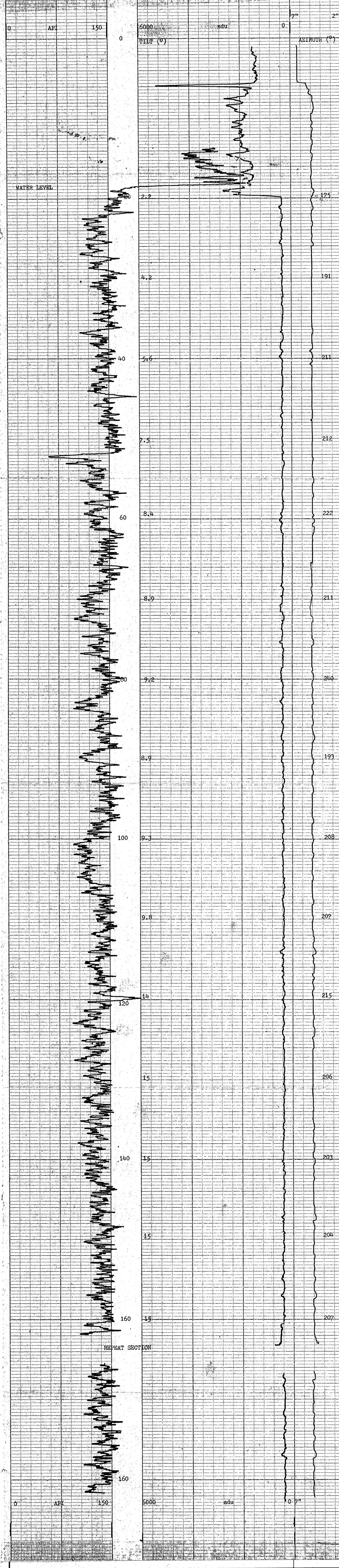
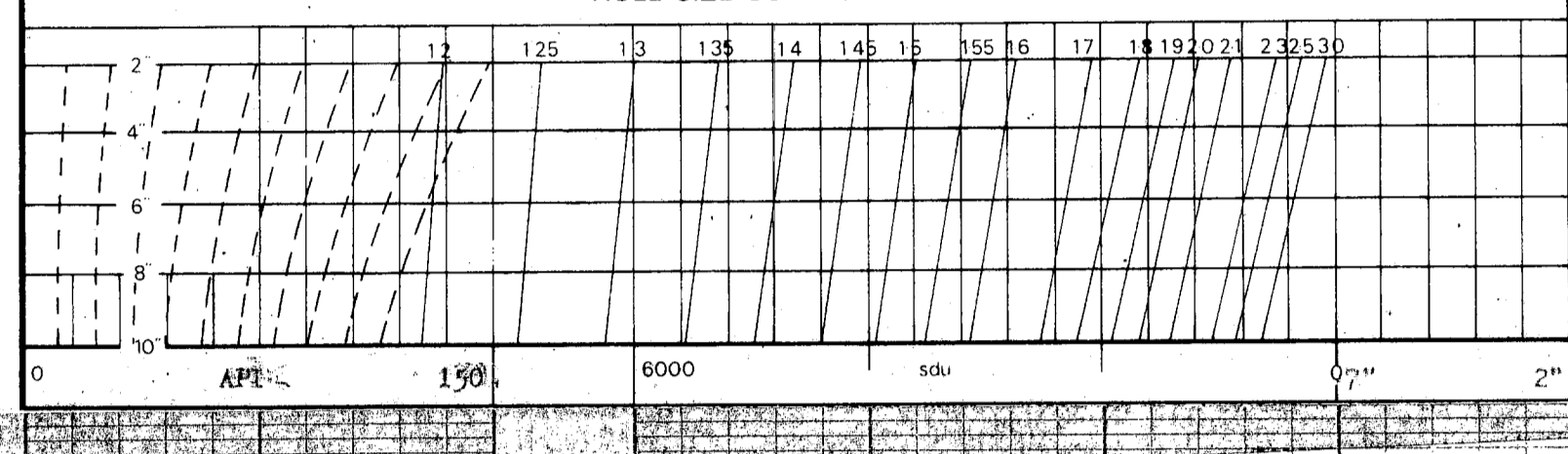
COAL QUALITY/SEAM THICKNESS LOG INTERVALS (Refer to relevant log)		INTERVAL TOTAL
FROM		
TO		
INTERVAL		

ADDITIONAL SONDES RUN				REFER TO ADDITIONAL HEADINGS	REMARKS
SONDE	LOG	GENERAL SCALE	DETAIL SCALE		
104	N-N	200			
	SONIC	200			
		DIPMETER	200		

BPB COAL LITHOLOGY LOG

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

GAMMA RAY	DEPTH	BULK DENSITY	CALIPER
		g/cm ³	INCHES



GAMMA RAY	DEPTH	BULK DENSITY	CALIPER
		g/cm ³	INCHES

BOREHOLE QBR 8107	AREA BABCOCK
CLIENT DENISON	COUNTRY CANADA

COAL LITHOLOGY LOG



RE BUREAU 8137



GAMMA RAY & NEUTRON-NEUTRON

BOREHOLE QBR 8107
CLIENT DENISON

AREA BABCOCK
COUNTRY CANADA

DATE LOGGED 21/6/81

BOREHOLE DATA REF TO LITHOLOGY LOG
OPERATION DATA REF TO " " LOG

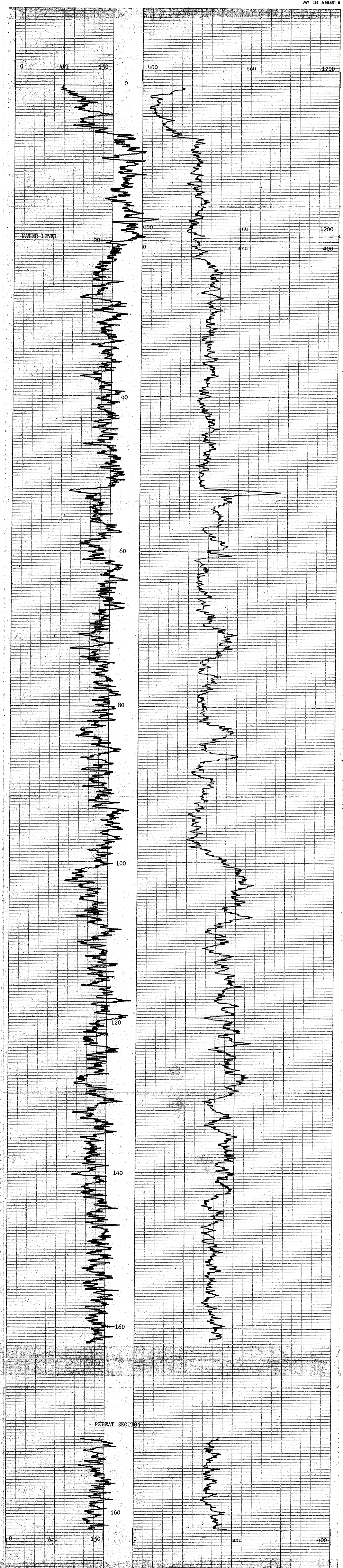
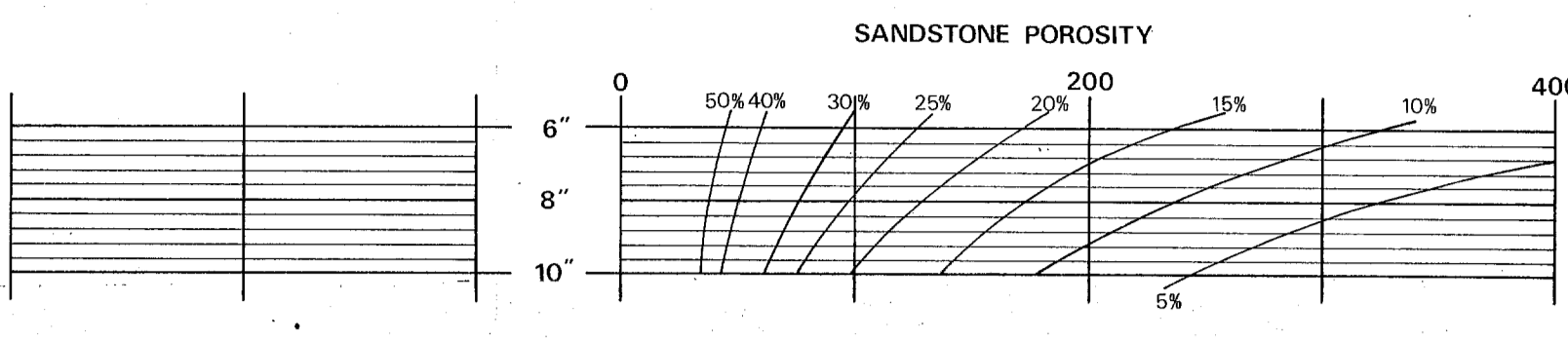
EQUIPMENT AND RECORDING DATA

LOG TANGS PAVE CAL
LOG RECORDING BEHAVIOR SLS NORM CAL
GAMMA Y 9 d 9 1 1.53
N-A 7 9 d 9 1 6.51

REMARKS

615

GAMMA RAY	DEPTH	NEUTRON-NEUTRON
API	150	400
		sn
		1200



API	150	sn	400
GAMMA RAY	DEPTH	NEUTRON-NEUTRON	

BOREHOLE QBR 8107
CLIENT DENISON

AREA BABCOCK
COUNTRY CANADA



MY A58452R

PK-QUINTEITE 8162A



SONIC LOGS

BOREHOLE QBR 8107
CLIENT DENISON

AREA BABCOCK
COUNTRY CANADA
DATE LOGGED 21/8/81

DEPTH SCALE
200:1

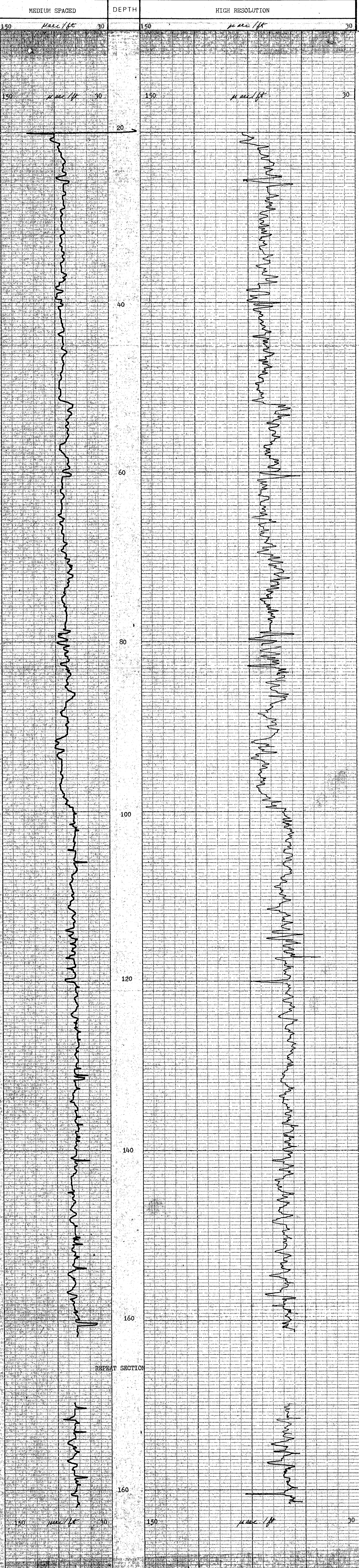
OF LOGS

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

EQUIPMENT AND RECORDING DATA

LOG TAPING PANEL CTR
TAPING SPEED SEC. NORM.
SONIC I 9 d 9 .3

REMARKS
615



MEDIUM SPACED DEPTH HIGH RESOLUTION



BOREHOLE QBR 8107
CLIENT DENISON

AREA BABCOCK
COUNTRY CANADA



COAL LITHOLOGY LOG

SONDE TYPE _____
 COAL COMBINATION _____
 SONDE _____

LOG SUITE:
 GAMMA RAY _____
 L.S. DENSITY _____
 CALIPER _____

BOREHOLE QBR 8106
 CLIENT DENISON
 AREA BABCOCK
 COUNTRY CANADA
 DATE LOGGED 21/9/81

DEPTH SCALE
 200:1

BOREHOLE DATA

PERMANENT DATUM _____
 ELEVATION OF D _____
 MASTHEADS FROM _____
 DEPTH REACHED 125m
 CASING SIZE _____
 BIT SIZES _____
 CASING SIZES _____

FLUID DATA

NATURE _____
 LEVEL _____
 VISCOSITY _____
 BHT _____

OPERATION DATA

FIRST READINGS _____
 LAST READINGS _____
 INTERVAL LOGGED _____
 UNIT TRACK No _____
 ENGINEER _____
 WITNESS _____

EQUIPMENT AND RECORDING DATA												
COAL COMBINATION SONDE												
LOG	EQUIPMENT	TAPING	PANEL	CAL	DEPTHS			SEAM LOG RUN				
SONDE	SOURCE	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	T.C SECS	NORM	COEFF	FROM	TO	INTERVAL	SEAM LOG RUN
GAMMA RAY	101	Y	9	d	9	1		1.57	124	0	124	n
L.S. DENSITY	5822	y	9	d	9	1	7.02		125	0	125	m
CALIPER	SIDEWALL POSITION	y	9	d	9	3			125	0	125	

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

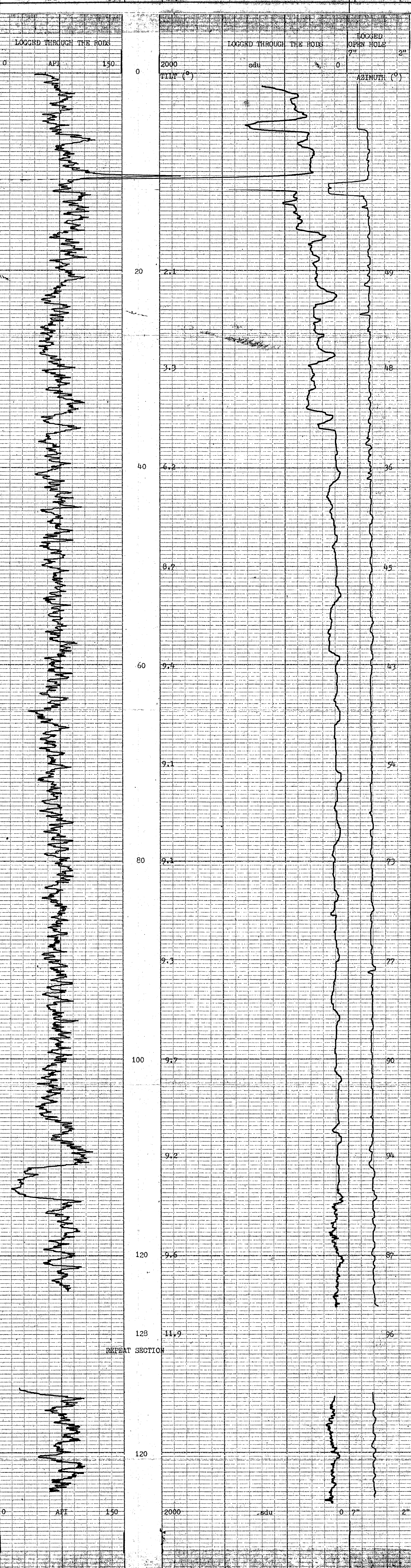
FROM	TO	INTERVAL	TOTAL

ADDITIONAL SONDES RUN				REMARKS
SONDE	LOG	GENERAL SCALE LOG	DETAIL SCALE LOG	
101	GAMMA	200:1	OPEN HOLE	GAMMA & L.S.D. LOGGED THROUGH THE RODS
204	N-N	200:1		

BPB COAL LITHOLOGY LOG

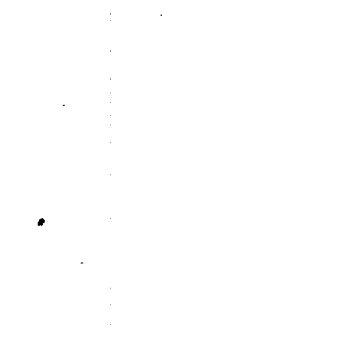
CALIBRATION DATA

JIG No	VALUE @ 2" DIAM	JIG CAL DATE	JIG VALUE	SDU @	g/cm ³	ins	cps



GAMMA RAY	DEPTH	BULK DENSITY	CALIPER
		g/cm ³	INCHES
	0		2"

BOREHOLE QBR 8106 AREA BABCOCK
 CLIENT DENISON COUNTRY CANADA



COAL LITHOLOGY LOG

MY A50261

72-01111111 8/23

82-QUINTE 813A



GAMMA RAY & NEUTRON-NEUTRON LOGS

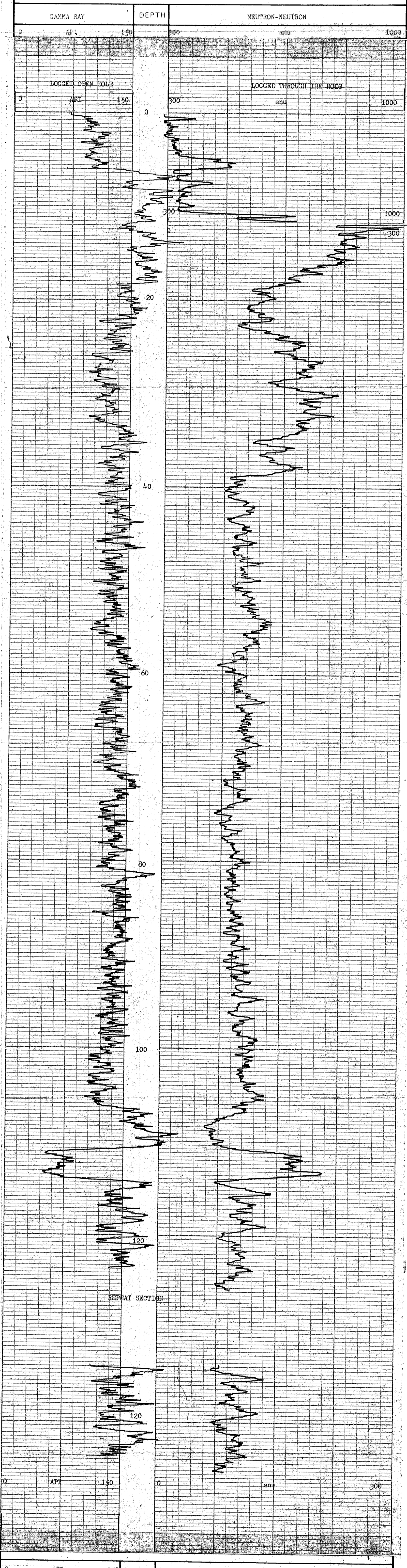
BOREHOLE QBR 8106
 CLIENT DENISON
615

AREA BABCOCK
 COUNTRY CANADA
 DATE LOGGED 21/8/81
 DEPTH SCALE 200.1
 OF LOGS

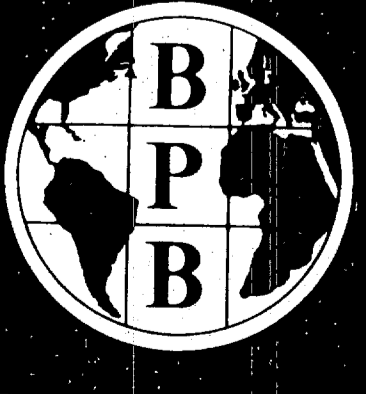
BOREHOLE DATA REFER TO LITHOLOGY LOG
 OPERATION DATA REFER TO " LOG

EQUIPMENT AND RECORDING DATA

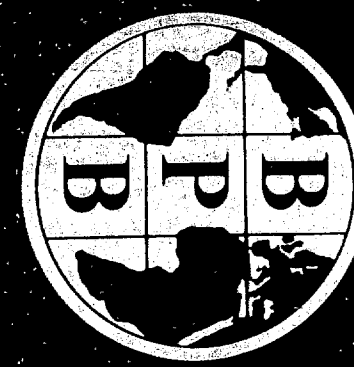
LOG	TAPING	PANEL	CAL
LOG	LOG	LOG	LOG
GAMMA	Y	9	1
N-N	Y	9	1
REMARKS	GAMMA LOGGED OPEN HOLE		
	NEUTRON LOGGED THROUGH THE RODS		



0	API	150	0	snu	300
GAMMA RAY			DEPTH	NEUTRON-NEUTRON	
BOREHOLE QBR 8106		AREA BABCOCK			
CLIENT DENISON		COUNTRY CANADA			



Page 2 of 2



SONIC LOGS

BOREHOLE QBR 8106
CLIENT DENISON

AREA BARCOCK
COUNTRY CANADA
DATE LOGGED 21/8/81

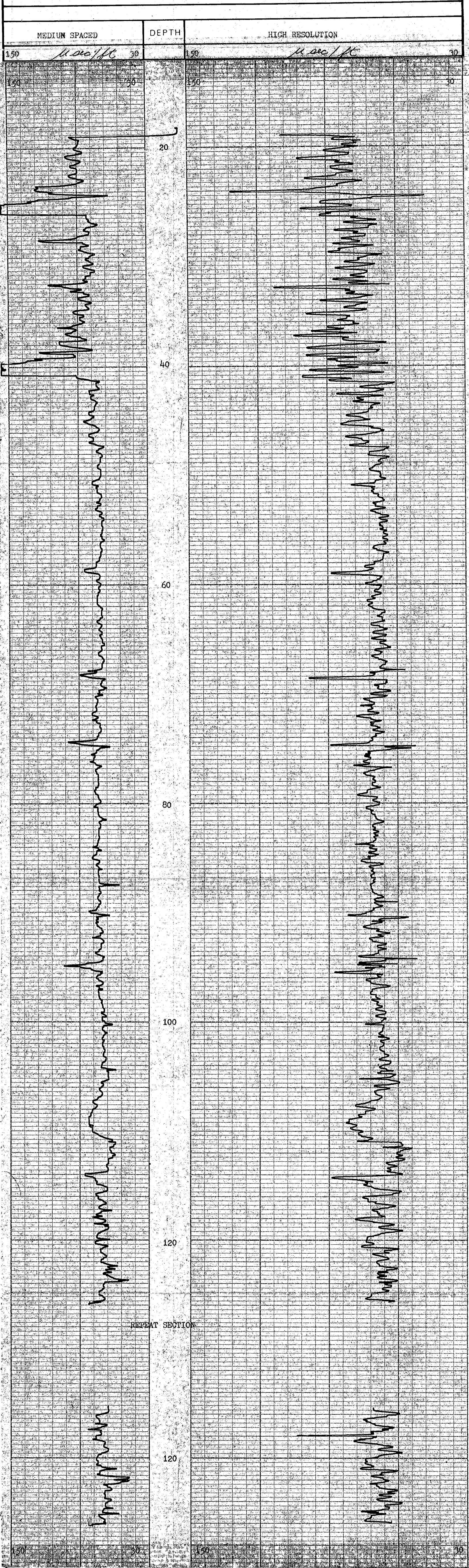
DEPTH SCALE
200:1

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

EQUIPMENT AND RECORDING DATA

LOG	TAPING	PANEL	CAL
LOG	RECORDING	SPEED	STCS
TAPER	SPEED	RESCALE	NORM
SONIC	1	9	4
			9
			.3

REMARKS
615



150	μsec/ft	30	150	μsec/ft	30	
MEDIUM SPACED			DEPTH	HIGH RESOLUTION		
BOREHOLE QBR 8106		AREA BARCOCK		COUNTRY CANADA		
CLIENT DENISON						



PR-SUNNETTE 813A



COAL QUALITY LOG

SONDE TYPE: _____
 COAL COMBINATION: _____
 SONDE: _____

LOG SUITE:
 GAMMA RAY
 L.S. DENSITY

BOREHOLE: QBR8105
 CLIENT: DENISON

AREA: BABCOCK
 COUNTRY: CANADA

DATE LOGGED: 19/8/81

DEPTH SCALE: 20:1
 OF LOGS: _____

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

LOG	TAPPING	LOG RECORDING SPEED	PANEL	SIDEWALL POSITION	DATE
GAMMA RAY	Y	2	X	2	1
L.S. DENSITY	X	2	X	2	1

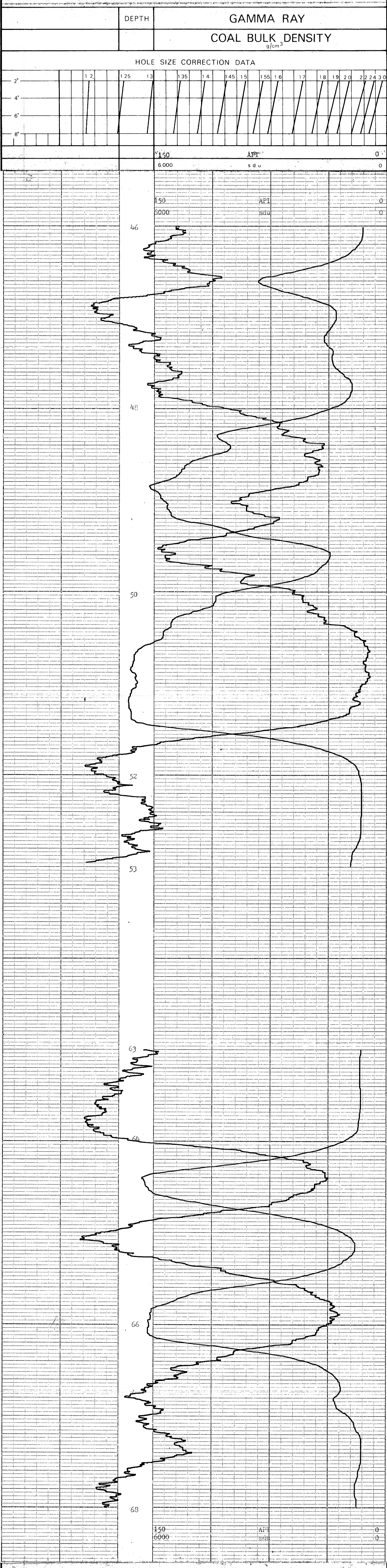
COAL QUALITY LOG INTERVALS

FROM	TO	INTERVAL	INTERVAL TOTAL
68	53	15	15
63	46	17	32
5	7	2	34

REMARKS: _____

615

B P B COAL QUALITY LOG



BOREHOLE: QBR 8105
 CLIENT: DENISON

AREA: BABCOCK
 COUNTRY: CANADA

COAL QUALITY LOG

Re-surveyed 8/68



NEUTRON-NEUTRON

BOREHOLE QBR 8105
CLIENT DENISON

AREA BABCOCK
COUNTRY CANADA
DATE LOGGED 19/8/81

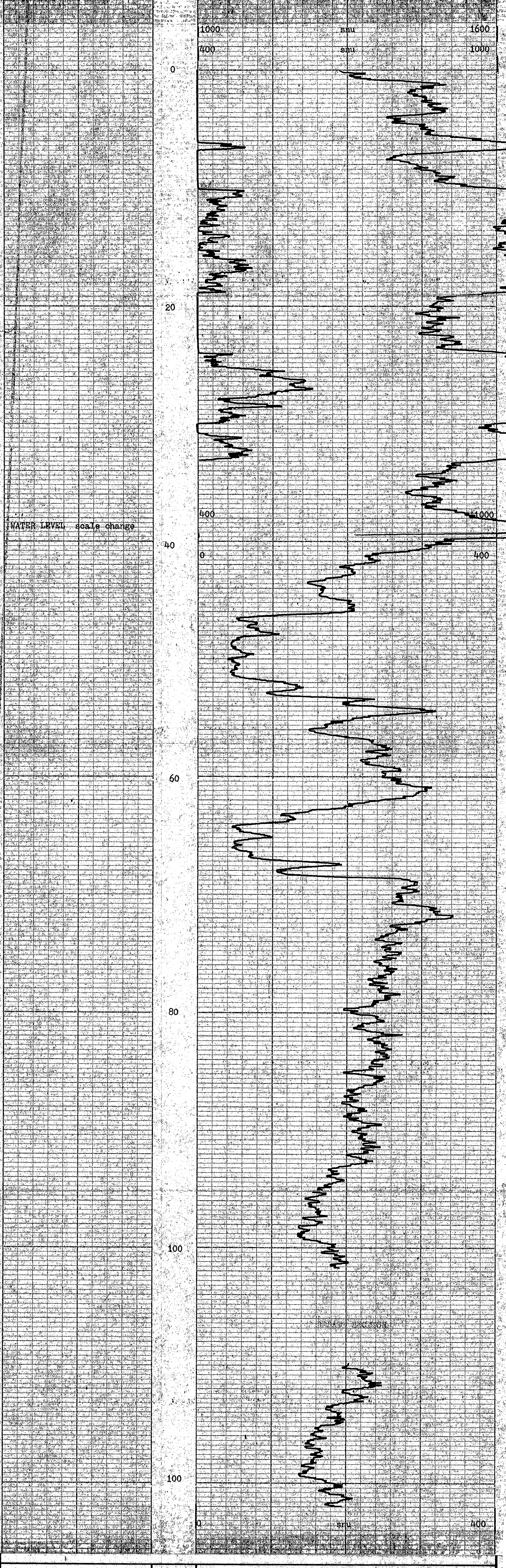
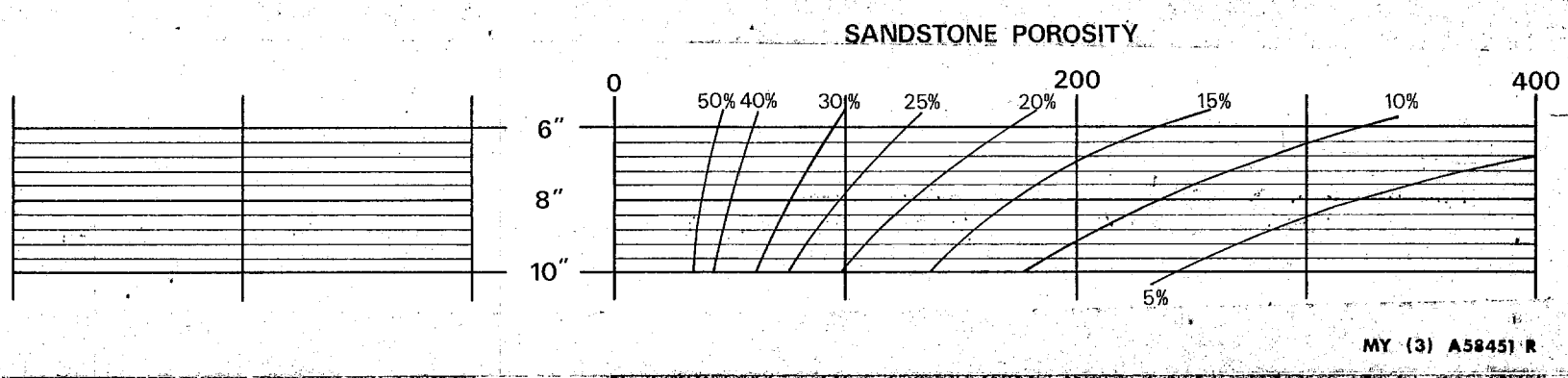
DEPTH SCALE
200:1

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

LOG	TAPING	PANEL	CAI
LOG	RECORD	DIRECT	SPEED
TAPER	SCALE	SECS	NORM
1-N	J	9	4
		9	1
		6	58

REMARKS
615

DEPTH	NEUTRON-NEUTRON	1000
400	SRU	



DEPTH	NEUTRON-NEUTRON	0	400
		SRU	

BOREHOLE QBR 8105 AREA BABCOCK

CLIENT DENISON COUNTRY CANADA

DR-00777E 81(3)A



DETAIL
MICRO-RESISTIVITY LOG

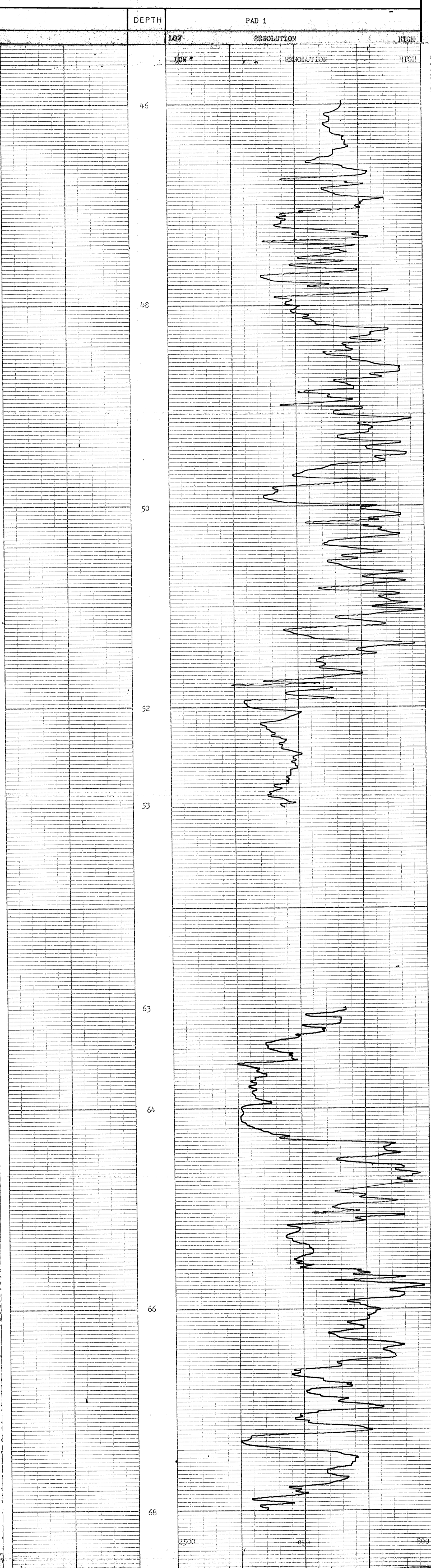
BOREHOLE QBR 8105
CLIENT DENISON

AREA BABCOCK
COUNTRY CANADA
DATE LOGGED 19/8/81

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

EQUIPMENT AND RECORDING DATA
LOG TAPING LOG RECORDING T.C. PANEL DATE
TAPED SPEED REPLAY SECS. NORM. CAL. OFF

REMARKS
61S



BOREHOLE QBR 8105
CLIENT DENISON
AREA BABCOCK
COUNTRY CANADA



COAL LITHOLOGY LOG

SONDE TYPE
COAL COMBINATION SONDE

LOG SUITE
GAMMA RAY
L.S. DENSITY
CALIPER

BOREHOLE DATA

BOREHOLE: QBR 8105
CLIENT: DENISON

AREA: BARCOCK
COUNTRY: CANADA
DATE LOGGED: 19/3/81

DEPTH SCALE: 2001
OF LOSSES: _____

BOREHOLE DATA

FORMATION: GROUND LEVEL
ELEVATION: 710
METERS FROM: 810
DEPTH REACHED: C.L. 103m
CASING SHOE: 5.5m
BIT SIZES: 1 TO 2
CASING SIZES: 1 TO 2

FLUID DATA

NATURE: _____
LEVEL: 40m
VISCOSITY: _____
RHO @ 20°C: _____
RHO @ 40°C: _____

OPERATION DATA

FIRST READING: 102m
LAST READING: 0
INTERVAL LOGGED: 102m
UNIT TRACK NO: HEIL-BOX
ENGINEER: DM/AT/HTA

EQUIPMENT AND RECORDING DATA

LOG	EQUIPMENT		TAPING		PANEL		CAL COEFF	DEPTHS		SEAM LOG RUN		
	SONDE	SOURCE	LOG TAPED	RECORD SPEED	DIRECT/REPLAY	TC SECS		NORM	FROM		TO	
GAMMA RAY	129	5822	y	9	d	9	1	1.5	102	0	102m	y
L.S. DENSITY			y	9	d	9	3	7.05	101	0	101m	y
CALIPER			y	9	d	9	3		101m	0	101m	y

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

FROM	68	53	INTERVAL TOTAL	
TO	63	46		
INTERVAL	5	7		12m

ADDITIONAL SONDES RUN

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

REMARKS

BPB COAL LITHOLOGY LOG

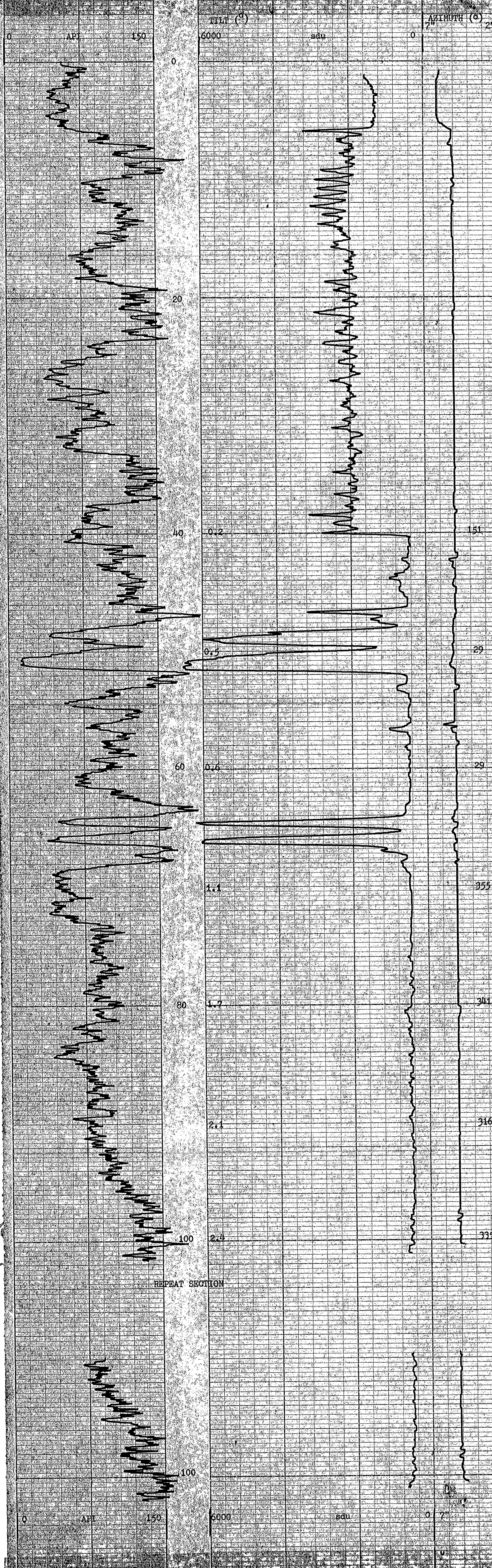
CALIBRATION DATA

JIG No	VAL 437 @ 2" DIAM	JIG CAL DATE	29/7/81	JIG VALUE	3680	SDU @	1.03 g/cm ³	7 ins	705 cps
JIG MARK SHOWN AT ABOVE VALUE -		JIG No	0041	SPAN	6000	NORM	SDU = 7.05	2 ins	360 cps

GAMMA RAY	DEPTH	BULK DENSITY (g/cm ³)	CALIPER INCHES
-----------	-------	-----------------------------------	----------------

HOLE SIZE CORRECTION DATA

2	12	125	13	135	14	145	15	155	16	17	18	19	20	21	22	23	25	30
---	----	-----	----	-----	----	-----	----	-----	----	----	----	----	----	----	----	----	----	----



GAMMA RAY	DEPTH	BULK DENSITY (g/cm ³)	CALIPER INCHES
-----------	-------	-----------------------------------	----------------

BOREHOLE DATA

BOREHOLE: QBR 8105
CLIENT: DENISON

AREA: BARCOCK
COUNTRY: CANADA

COAL LITHOLOGY LOG



see comments 815A



SONIC LOGS

BOREHOLE QBR 8105

CLIENT DENISON

AREA BARCOCK

COUNTRY CANADA

DATE LOGGED 19/8/81

DEPTH SCALE 200:1

OF LOGS

BOREHOLE DATA

OPERATION DATA

EQUIPMENT AND RECORDING DATA

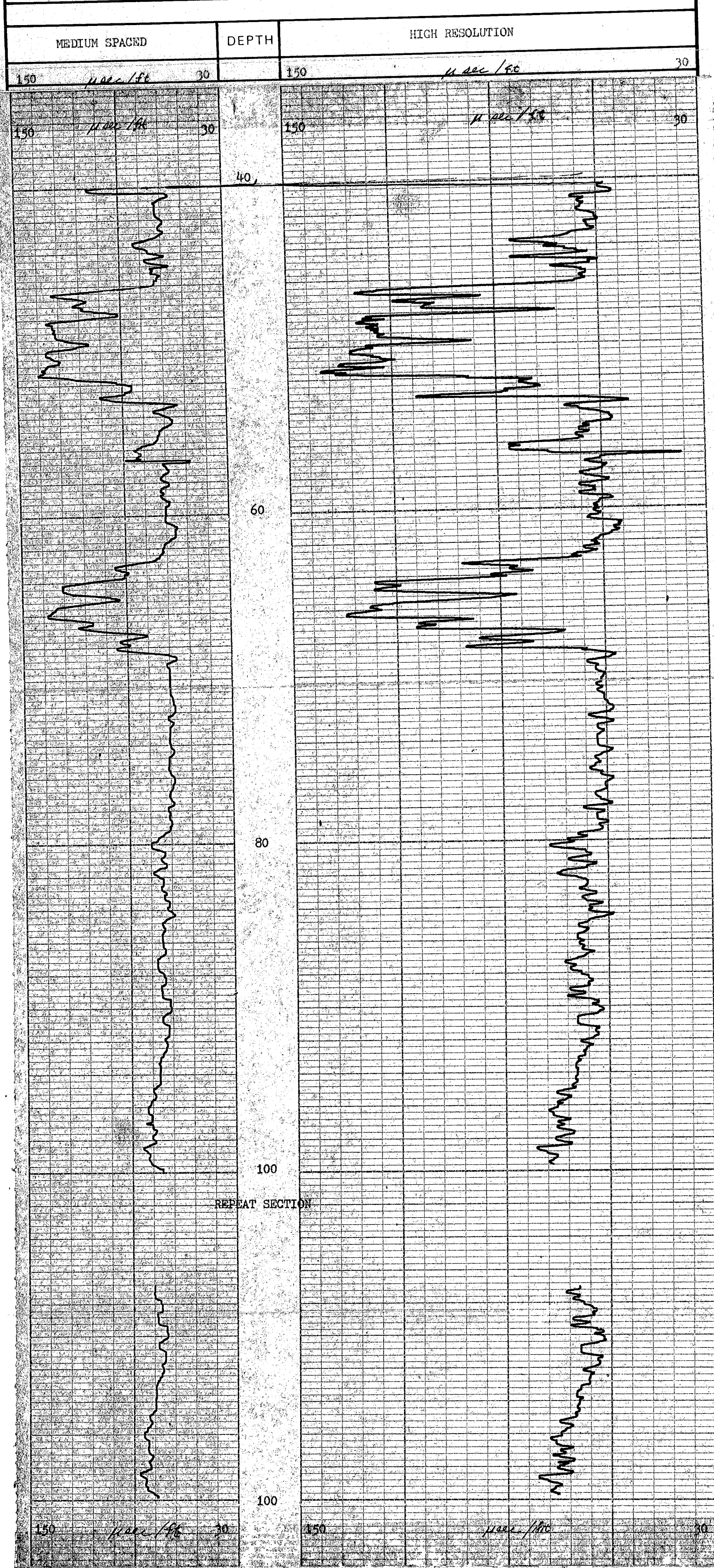
LOG TAPPING RECORDING DIRECTOR T.C. PANEL CAL

LOG TAPPING RECORDING DIRECTOR T.C. PANEL CAL

SONIC Y 9 d 9 .3

REMARKS

6/5



BOREHOLE QBR 8105
CLIENT DENISON

AREA BARCOCK
COUNTRY CANADA

PR-DUMETTE 81(3)A



BOREHOLE QBR8105
 CLIENT DENTSON

DEPTH SCALE
 2011

AREA BABCOCK
 COUNTRY CANADA
 DATE LOGGED 19/8/81

OF LOGS

SEAM THICKNESS LOG

LOG

BOREHOLE DATA REFER TO LITHOLOGY LOG

OPERATION DATA REFER TO LITHOLOGY LOG

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE

LOG TAPPING PANEL CAL

LOG RECORDING SPEED SECS. NORVI

CALIPER 7 2 2 1 2 3 6 94

BR DENSITY 7 2 2 2 2 3 6 94

SOURCE SONDE AND CALIBRATION

REFER TO LITHOLOGY LOG

SEAM THICKNESS LOG INTERVALS

COAL COMBINATION SONDE

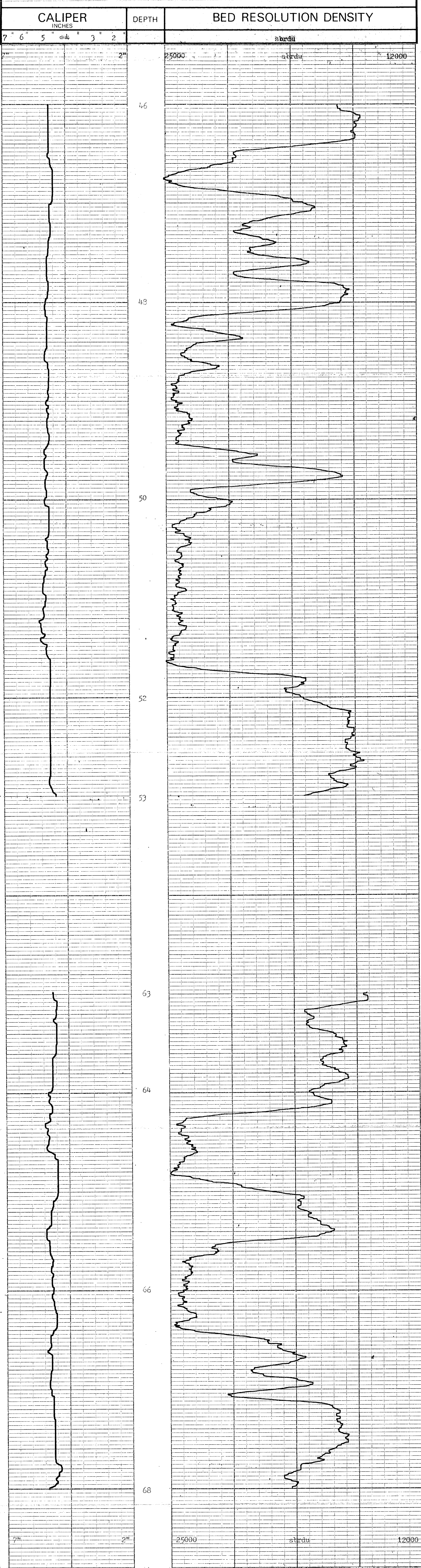
LOG SUITE

CALIPER

BR DENSITY

615

B P B SEAM THICKNESS LOG



CALIPER INCHES	DEPTH	BED RESOLUTION DENSITY
7 6 5 4 3 2		
BOREHOLE <u>QBR 8105</u> CLIENT <u>DENTSON</u>		AREA <u>BABCOCK</u> COUNTRY <u>CANADA</u>
SEAM THICKNESS LOG		





GAMMA RAY & NEUTRON-NEUTRON LOGS

BOREHOLE QBR 8105

CLIENT DENISON

AREA BABCOCK

COUNTRY CANADA

DATE LOGGED 12/8/81

DEPTH SCALE 200:1

OF LOGS

BOREHOLE DATA REFER TO LOG

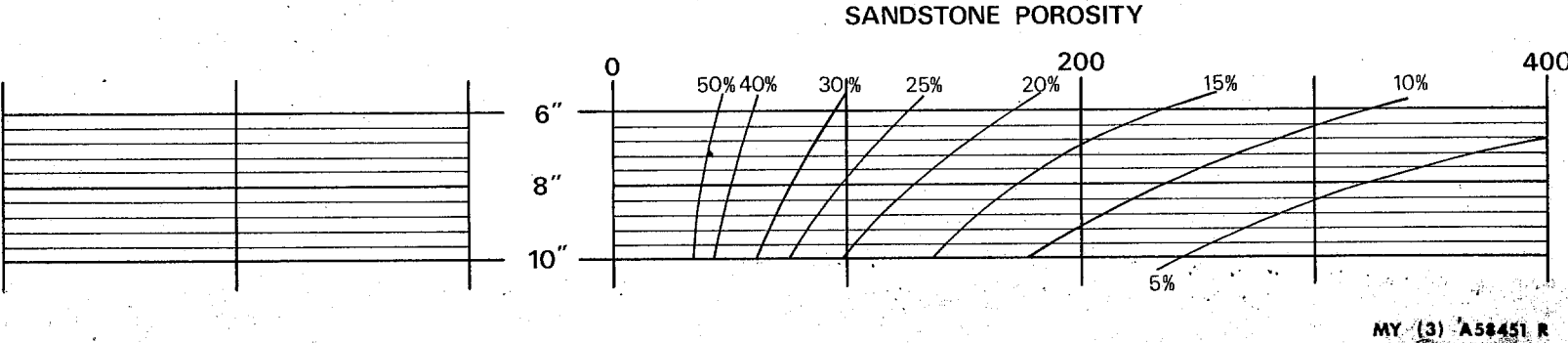
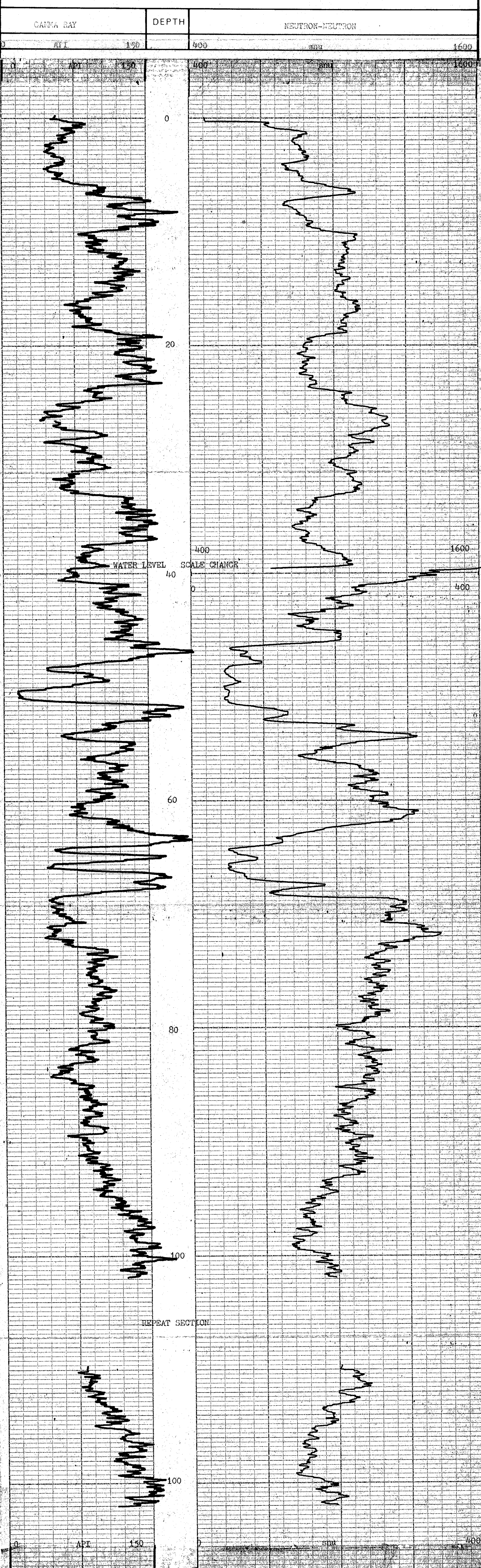
OPERATION DATA REFER TO LOG

EQUIPMENT AND RECORDING DATA

LOG	TAPING	PANEL	CAL
LOG	APPROXIMATE	REFLECTOR	SPEED SLS
TABO	1	2	3
GAUSS	9	8	9
MM	9	9	1
			1.5
	SCALE 200	SHEET 6707	

REMARKS

615



GAMMA RAY	DEPTH	NEUTRON-NEUTRON
API	150	400



BOREHOLE QBR 8105

CLIENT DENISON

AREA BABCOCK

COUNTRY CANADA

MY A58452 R

72-QUINLETTE 8(3)A

FA-615271E 8152a



DETAIL
MINI-RESISTIVITY PAD TRACE

BOREHOLE QBR 8104

CLIENT DENISON

AREA BABCOCK

COUNTRY CANADA

DATE LOGGED 18/9/91

RESISTIVITY SCALE
20 V

OF LOGS

BOREHOLE DATA REFER TO LITHOLOG LOG

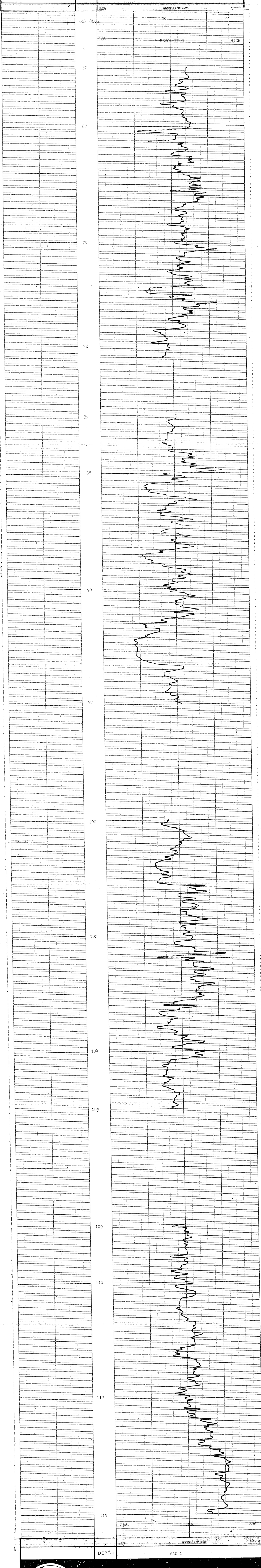
OPERATION DATA REFER TO " LOG

EQUIPMENT AND RECORDING DATA

LOG TAPPING PANEL CITE
LOG RECORDING SPEED 3000
PAD 1 2 4 2

REMARKS

615



DEPTH	FAD 1
-------	-------



BOREHOLE QBR 8104
CLIENT QBR 8104

AREA BABCOCK
COUNTRY CANADA

MY A5452A

22-QUINLETTE 8104

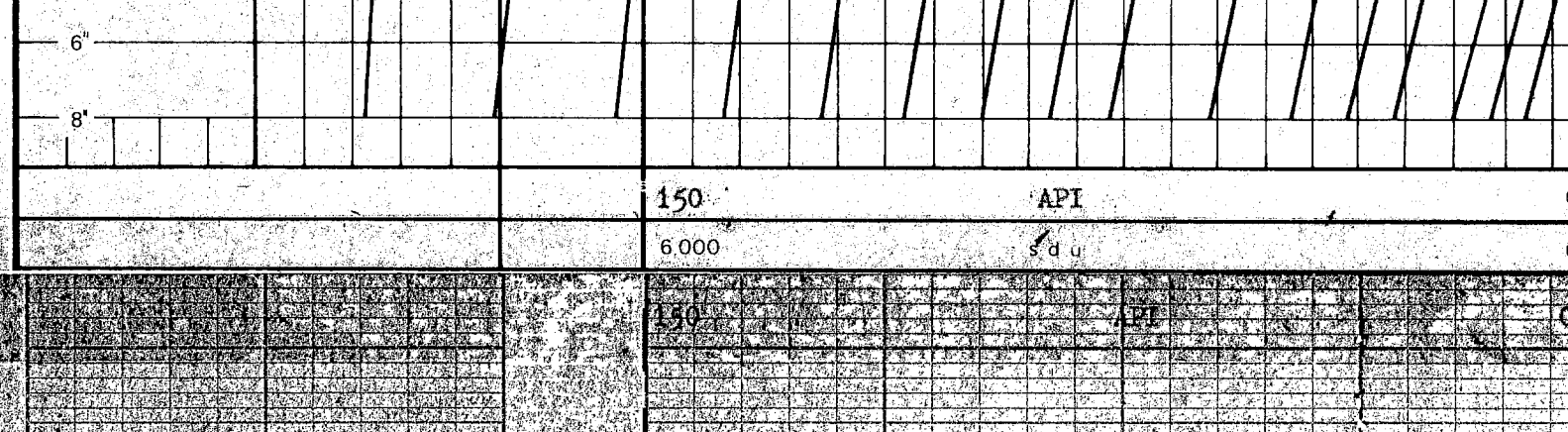


BOREHOLE QBR 8104	AREA BABCOCK	DEPTH SCALE 2011
CLIENT DENISON	COUNTRY CANADA	DATE LOGGED 18/8/91
LOG QUALITY	LOG	COAL COMBINATION
SONDE TYPE	OPERATION DATA	EQUIPMENT AND RECORDING DATA
COAL COMBINATION	COAL QUALITY LOG INTERVALS	REMARKS
LOG SUITE	LOG INTERVALS	
GAMMA RAY		
LS DENSITY		

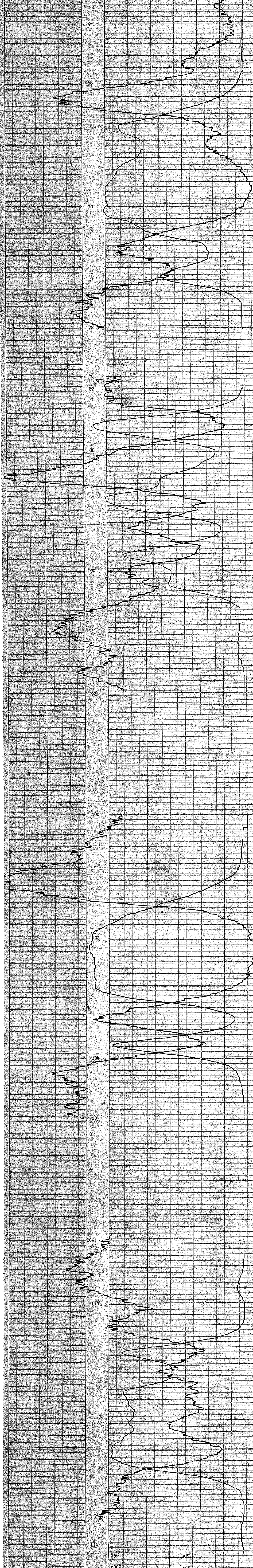
B P B COAL QUALITY LOG

GAMMA RAY
COAL BULK DENSITY
g/cm³

HOLE SIZE CORRECTION DATA



150 API 0
6000 ft 0



6000 API 0
150 ft 0

COAL BULK DENSITY
g/cm³

GAMMA RAY

BOREHOLE QBR 8104	AREA BABCOCK
CLIENT DENISON	COUNTRY CANADA

COAL QUALITY LOG



140081 1W

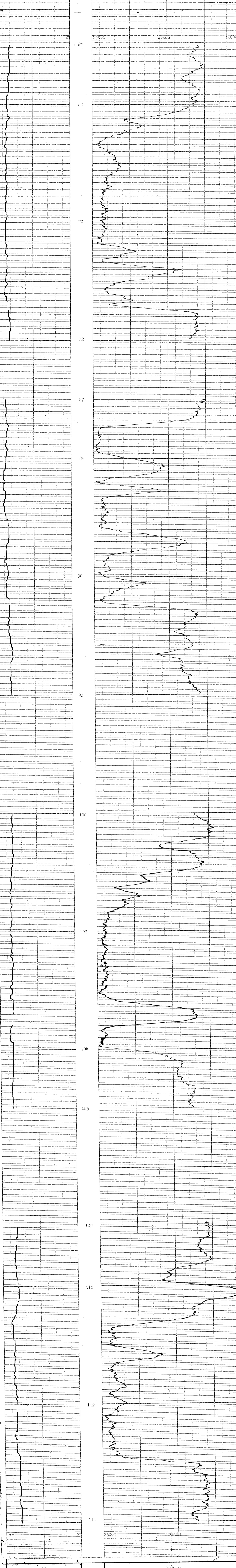
72-0117-113A



SEAM THICKNESS LOG

BOREHOLE QBR 8106
 CLIENT DENISON
 AREA BABCOCK
 COUNTRY CANADA
 DATE LOGGED 18/7/81
 OF LOGS
 BOREHOLE DATA REFER TO LITHOLOGY LOG
 OPERATION DATA REFER TO LITHOLOGY LOG
 EQUIPMENT AND RECORDING DATA
 COAL COMBINATION SONDE
 LOG TAPING POINT
 CALIPER 1 2 3 4 5 6 7 8
 BED RESONANCE 1 2 3 4 5 6 7 8
 SOURCE SONDE AND CALIBRATION
 REFER TO LITHOLOGY LOG

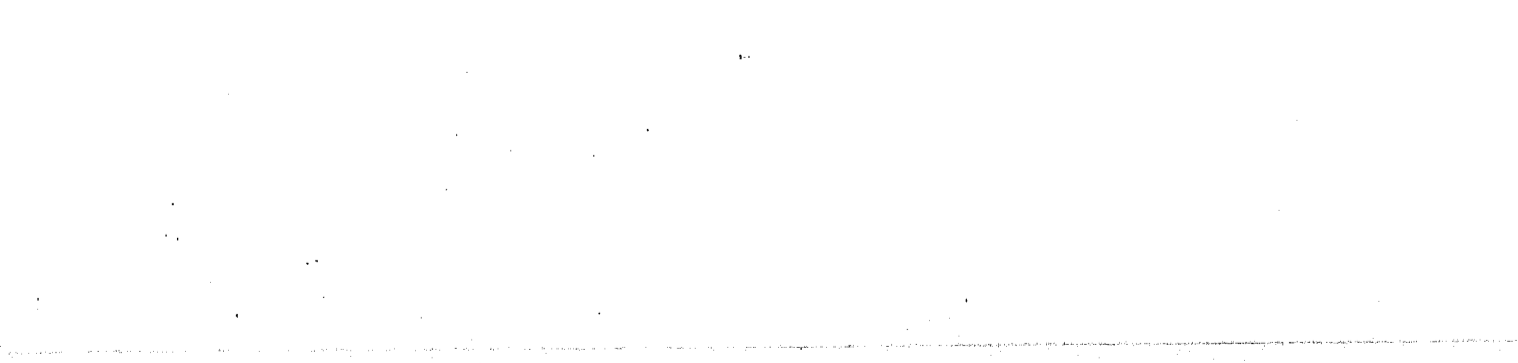
B P B SEAM THICKNESS LOG



CALIPER INCHES: 7 6 5 4 3 2
 DEPTH: 114 109 105 100 95 90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0
 BED RESOLUTION DENSITY

BOREHOLE QBR 8106
 CLIENT DENISON
 AREA BABCOCK
 COUNTRY CANADA

SEAM THICKNESS LOG



MY 88002 R

SEAM THICKNESS LOG INTERVALS
 FROM 114 105 92 72
 TO 109 100 87 67
 INTERVAL 5 5 5 5
 LOG SUITE
 CALIPER
 BED DENSITY

615

72-QUINETTE 815A



SONIC LOSS

BOREHOLE QBR 8104
CLIENT DENISON

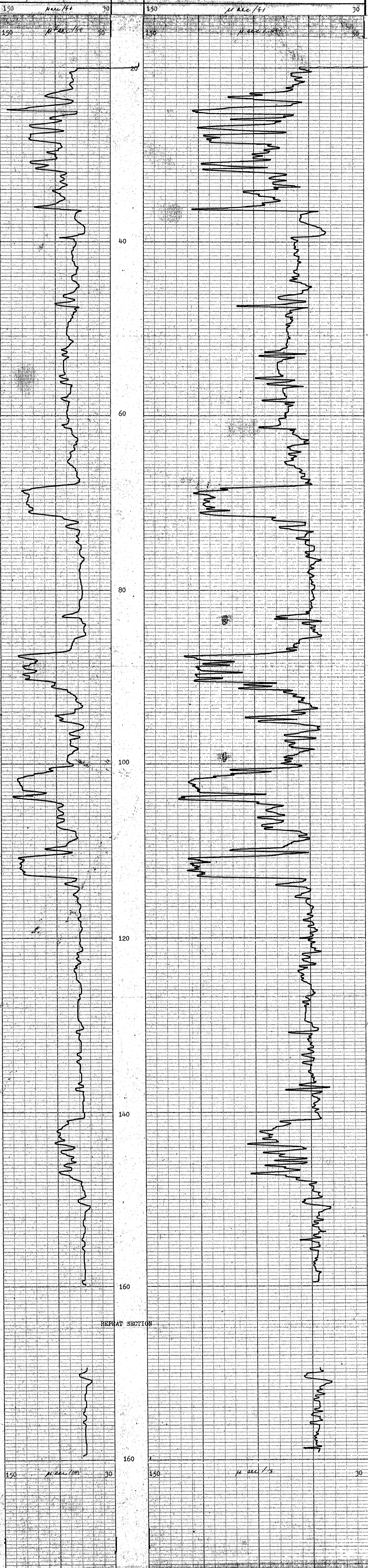
AREA BARBOCK
COUNTRY CANADA
DATE LOGGED 12/8/81

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

EQUIPMENT AND RECORDING DATA

LOG	TAPING	PANEL	CAL
LOG	TAPING	PANEL	CAL
SONIC	Y	D	3
SONIC	Y	D	3
SONIC	Y	D	3

REMARKS
615



150	30	150	30
MEDIUM SPACED	DEPTH	HIGH RESOLUTION	



BOREHOLE QBR 8104
CLIENT DENISON

AREA BARBOCK
COUNTRY CANADA

P2-QUINTES 81(3)A



NEUTRON-NEUTRON

BOREHOLE QBR 8104
CLIENT DENISON

AREA BARCOCK
COUNTRY CANADA

DATE LOGGED 18/8/81

DEPTH SCALE
200 FT

OF LOGS

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

EQUIPMENT AND RECORDING DATA

LOG TAPPING PANEL CATH
LOG RECORD SPEED SLS NORM

LOG TAPPING PANEL CATH
LOG RECORD SPEED SLS NORM

LOG TAPPING PANEL CATH
LOG RECORD SPEED SLS NORM

LOG TAPPING PANEL CATH
LOG RECORD SPEED SLS NORM

LOG TAPPING PANEL CATH
LOG RECORD SPEED SLS NORM

LOG TAPPING PANEL CATH
LOG RECORD SPEED SLS NORM

LOG TAPPING PANEL CATH
LOG RECORD SPEED SLS NORM

LOG TAPPING PANEL CATH
LOG RECORD SPEED SLS NORM

LOG TAPPING PANEL CATH
LOG RECORD SPEED SLS NORM

LOG TAPPING PANEL CATH
LOG RECORD SPEED SLS NORM

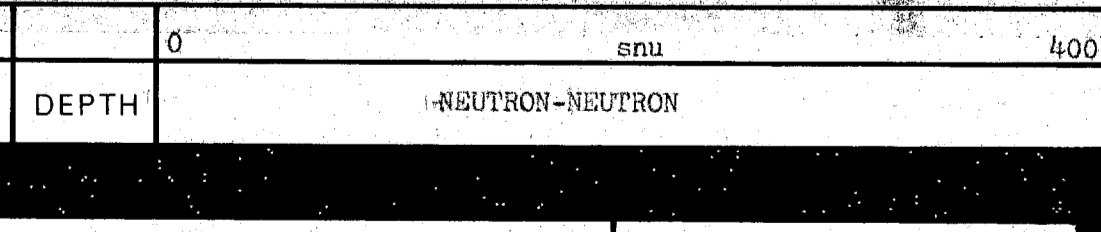
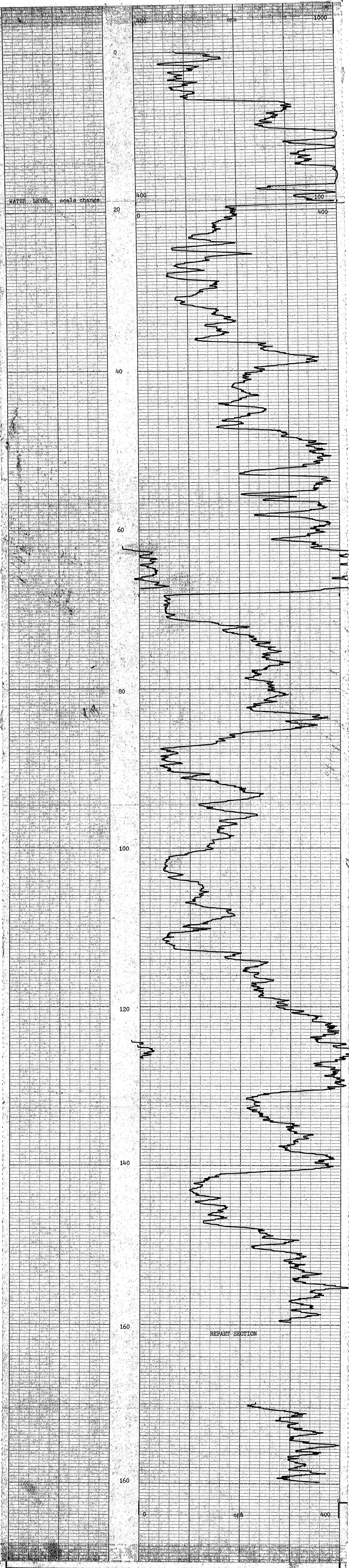
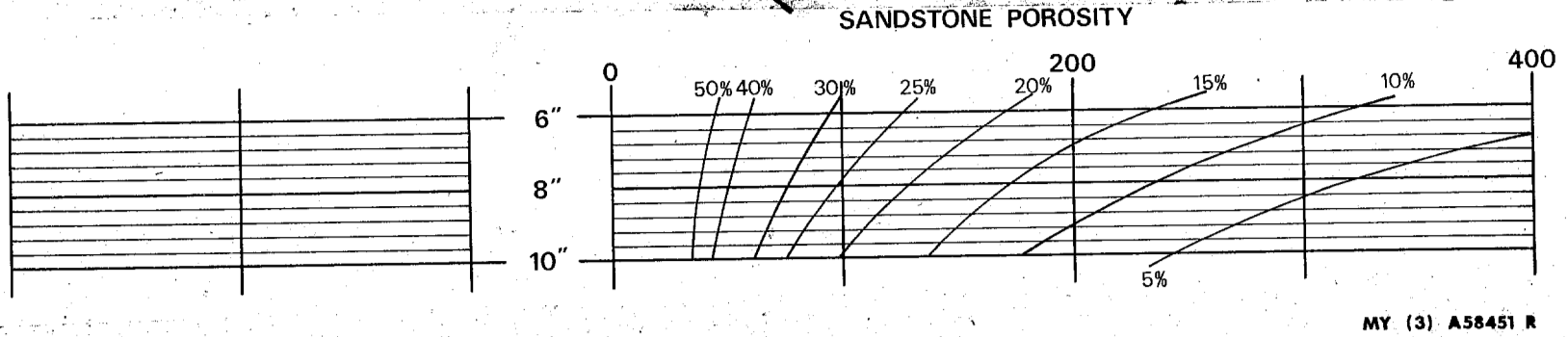
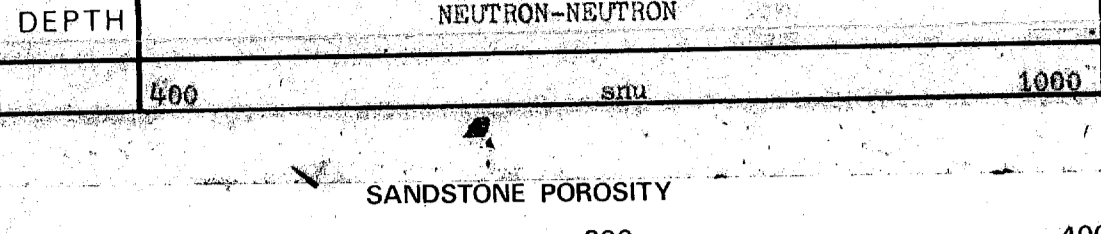
LOG TAPPING PANEL CATH
LOG RECORD SPEED SLS NORM

LOG TAPPING PANEL CATH
LOG RECORD SPEED SLS NORM

LOG TAPPING PANEL CATH
LOG RECORD SPEED SLS NORM

LOG TAPPING PANEL CATH
LOG RECORD SPEED SLS NORM

REMARKS
615



BOREHOLE QBR 8104
CLIENT DENISON

AREA BARCOCK
COUNTRY CANADA

MY A58452R

22-00177E S/L31A



COAL LITHOLOGY LOG

SONDE TYPE
COAL COMBINATION
SONDE

LOG SUITE
GAMMA RAY
L.S. DENSITY
CALIPER

BOREHOLE DATA
REMARKS: Ground Layers

FLUID DATA
NATURE: A1/Vacuum
SG: N/A
LEVEL: 13m
VISCOSITY: N/A
Rm # mass temp: N/A
BH1: N/A

OPERATION DATA
LOG SUITE: 211.2
GAMMA RAY: 211.2
L.S. DENSITY: 211.2
INSTRUMENT LOG: FALL BOX
UNIT TRACK No: 21/7/2002
ENGINEER: DJ/7/2002
WITNESS:

AREA Quintette
COUNTRY Canada
DATE LOGGED 06/09/01

DEPTH SCALES
1 - 0' - 2' LOGS

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
GAMMA RAY	101	5822	337	Y	9	D	9	1	.	211.00	211.2	
L.S. DENSITY			3800	Y	9	D	9	1.3	5.14	211.2	0	211.2
CALIPER												

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

FROM	TO	INTERVAL	TOTAL

ADDITIONAL SONDES RUN

SONDE	LOG	GENERAL SCALE	DETAIL SCALE
204	N/A	1:200	
	Vert		
	Dip	1:200	

REMARKS
Hole was logged through rods.
Dipmeter only available from 21m due to poor hole conditions.

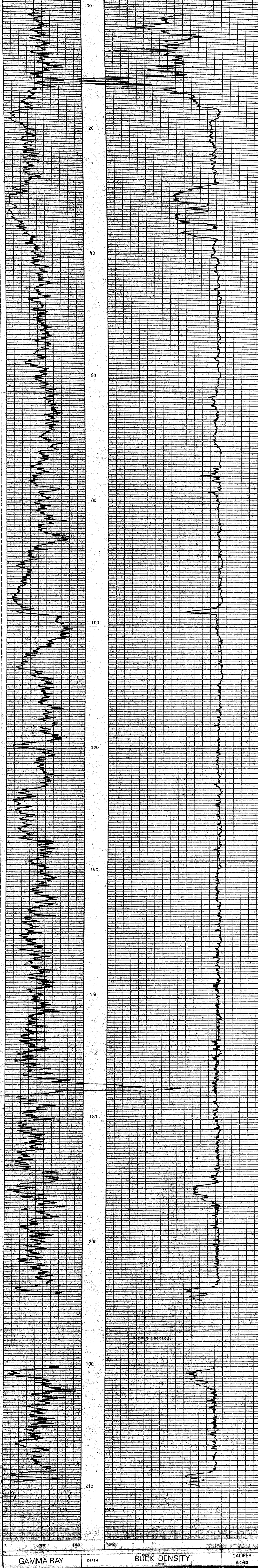
BPB COAL LITHOLOGY LOG

CALIBRATION DATA

JIG No 51	VALUES 37 @ 2 DIAM	JIG CAL DATE 29/07/91	JIG VALUE 3800	SDU @	g/cm ³	ms	cps
JIG MARK SHOWN AT ABOVE VALUE - .33		JIG No 0001	SPAN 3000	NORM	SDU	6.14	ms

GAMMA RAY	DEPTH	BULK DENSITY	CALIPER
		g/cm ³	INCHES

HOLE SIZE CORRECTION DATA



GAMMA RAY	DEPTH	BULK DENSITY	CALIPER
		g/cm ³	INCHES



BOREHOLE 08A 0101 **AREA** Quintette
CLIENT Denison Mines Ltd. **COUNTRY** Canada

COAL LITHOLOGY LOG

PP-QUINTETTE 8151b



NEUTRON/NEUTRON LOG

BOREHOLE QAR 8101

CLIENT Danison Mines Ltd.

AREA Quintette

COUNTRY Canada

DATE LOGGED 06/08/81

DEPTH SCALE
1:200

2 OF 2 LOGS

BOREHOLE DATA REFER TO LITHOLOGY LOG

OPERATION DATA REFER TO LITHOLOGY LOG

EQUIPMENT AND RECORDING DATA

LOG TAPPING PANEL

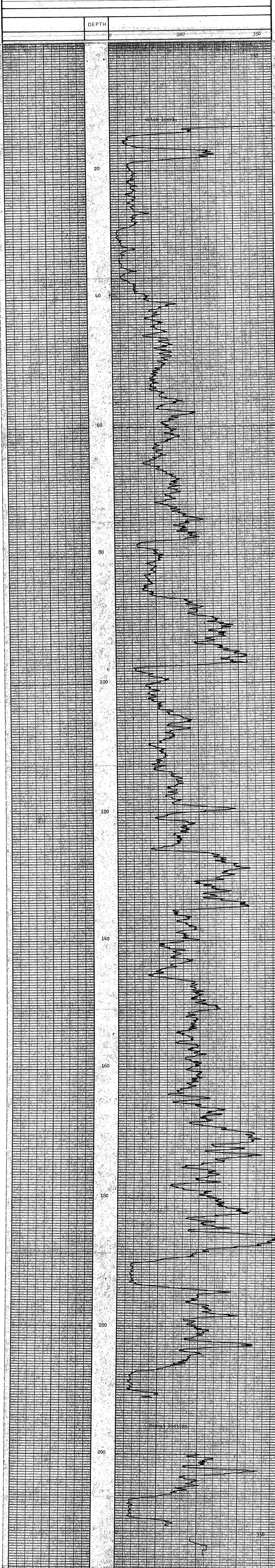
LOG RECORD DIRECT SPEED LOGS

N/A Y 9 D 9 I .978

REMARKS

N/A was logged through rods.

615



BOREHOLE QAR 8101 AREA Quintette
 CLIENT Danison Mines Ltd. COUNTRY Canada

712-DUMETTE 815A



GAMMA RAY & NEUTRON-NEUTRON

BOREHOLE QBR 8102
CLIENT DENISON

AREA BABCOCK DEPTH SCALE 200:1
COUNTRY CANADA
DATE LOGGED 20/8/81

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

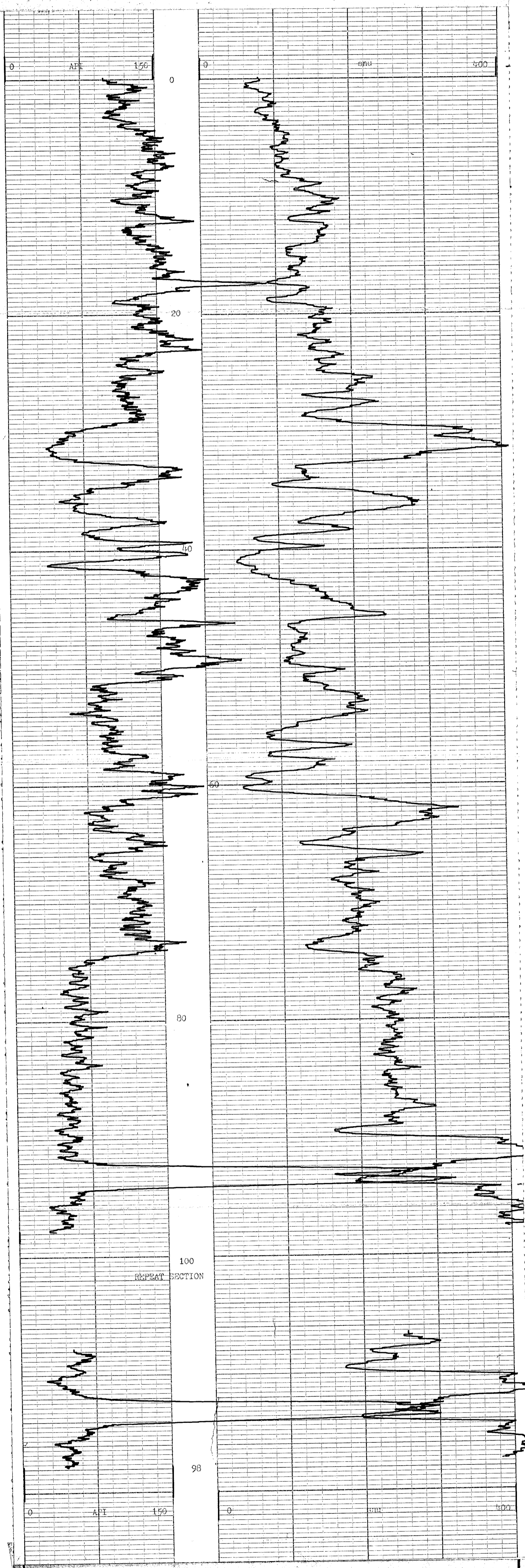
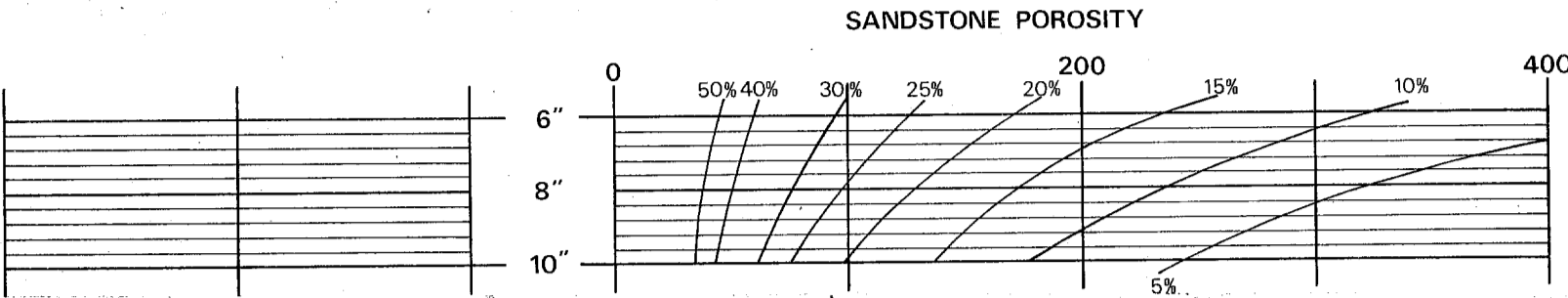
EQUIPMENT AND RECORDING DATA

LOG	TAPING	LOG RECORDING SPEED	REFLECTOR SPEED	PANEL	CAL	CORR
GAMMA	Y	9	4	9	1	1.36
N-N	Y	9	4	9	1	5.56

SCALES: 704, 7287

615

GAMMA RAY	DEPTH	NEUTRON-NEUTRON
0	150	0

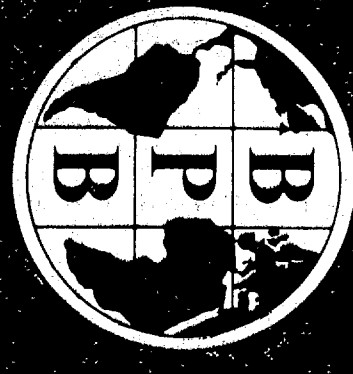


GAMMA RAY	DEPTH	NEUTRON-NEUTRON
0	150	0



BOREHOLE QBR 8102 AREA BABCOCK
CLIENT DENISON COUNTRY CANADA

MY A58452R



COAL LITHOLOGY LOG

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

BOREHOLE: QBR 8102
CLIENT: DENISON

AREA: BARROCK
COUNTRY: CANADA
DATE LOGGED: 20/8/81

DEPTH SCALE: 2007.1
OF LOGS

BOREHOLE DATA
PERMANENT DATA (GROUND LEVEL)
ELEVATION OF P.D.: BFB
MEASUREMENTS FROM: C.I.
DEPTH REACHED: .98m
CASING SHOE: TO
BIT SIZES: 1 5/8" TO 7/8" TO
CASING SIZES: 1 TO 2 TO

FLUID DATA
NATURE: S.G.
LEVEL: 00
VISCOSITY: 0
BHT: 0
OPERATION DATA
FIRST READING: 9m
LAST READING: 9m
INTERVAL LOGGED: 9m
UNIT-TRUCK NO: HELL-30X
ENGINEER: TW / AL
WITNESS:

EQUIPMENT AND RECORDING DATA

Table with columns: LOG, EQUIPMENT, TAPING, PANEL, CAL COEFF, DEPTHS, SEAM LOG RUN. Includes data for GAMMA RAY, L.S. DENSITY, and CALIPER.

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

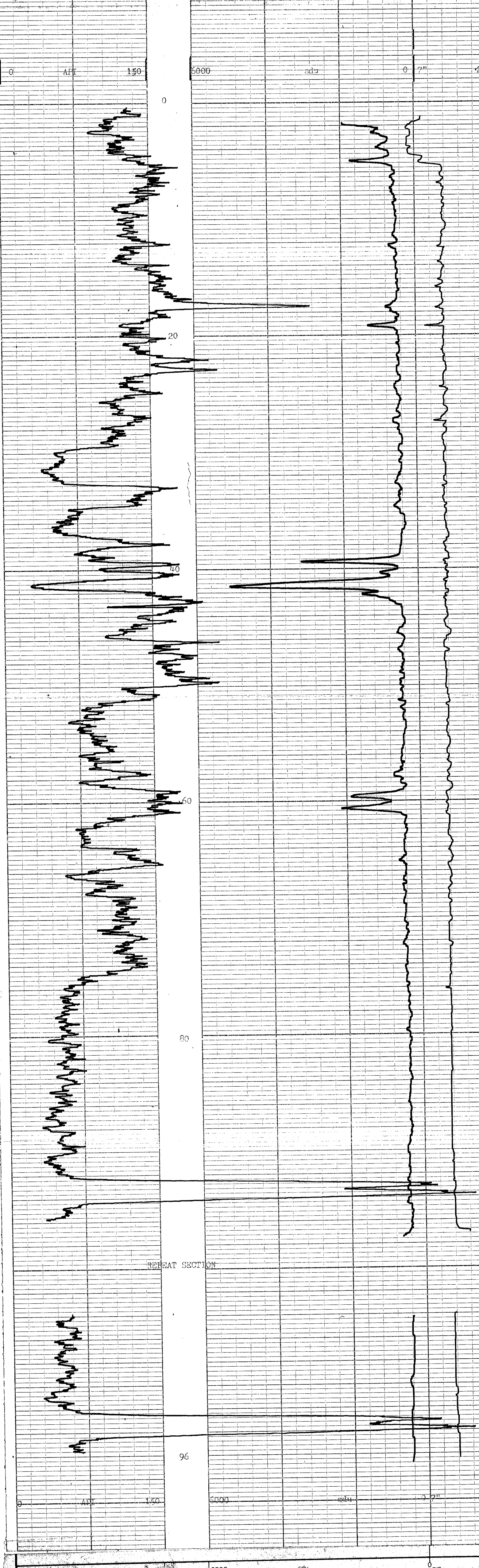
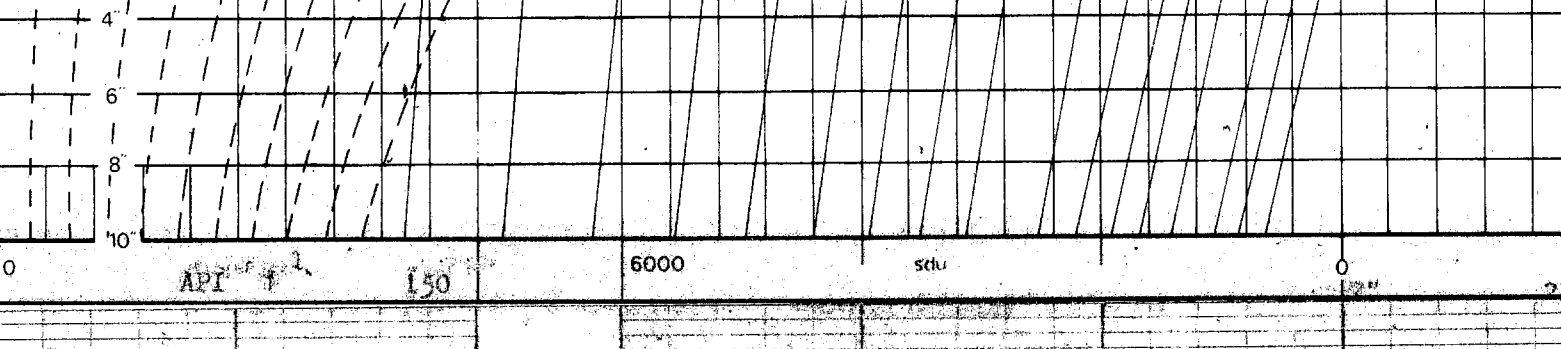
ADDITIONAL SONDES RUN and REMARKS section.

BPB COAL LITHOLOGY LOG CALIBRATION DATA

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

JIG MARK SHOWN AT ABOVE VALUE - JIG No, SPAN, NORM, g/cm³, ins, cps

GAMMA RAY, DEPTH, BULK DENSITY (g/cm³), CALIPER (INCHES)



GAMMA RAY, DEPTH, BULK DENSITY (g/cm³), CALIPER (INCHES)



BOREHOLE: QBR 8102 AREA: BARROCK
CLIENT: DENISON COUNTRY: CANADA

COAL LITHOLOGY LOG

Re. QUANTITE 5/13/81

Re-CONTENTS 813A



SONIC LOGS

BOREHOLE QBR 8103

CLIENT DENTISON

AREA BABCOCK

COUNTRY CANADA

DATE LOGGED 15/8/81

GEAR SCALE 200:1

OF LOGS

BOREHOLE DATA REFER TO LITHOLOGY LOG

OPERATION DATA REFER TO LOG

EQUIPMENT AND RECORDING DATA

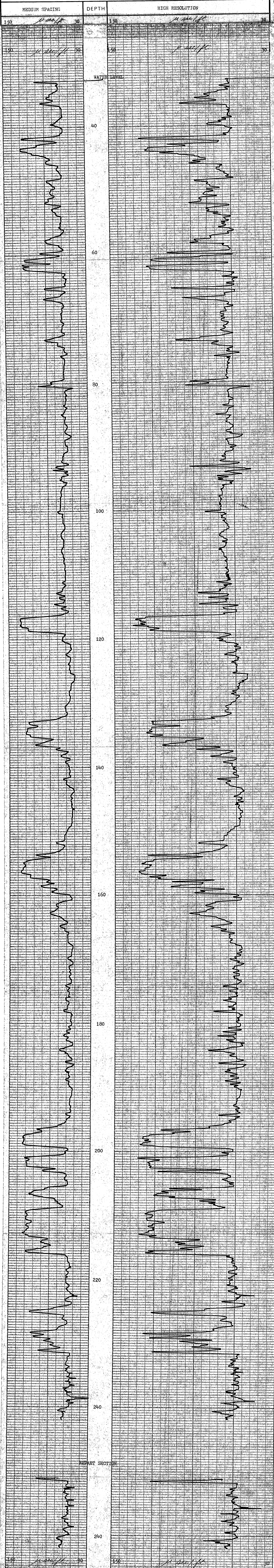
LOG TAPPING PANEL DATE

LOG RECORDING SPEED 1.5 IN/PM

SONIC TAPED SPEED REEL A 9 9 .3

REMARKS

615



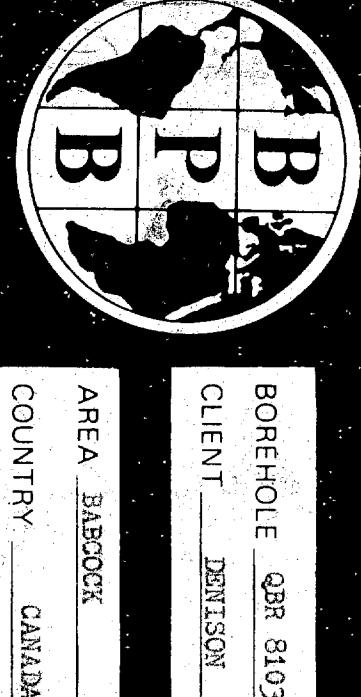
MEDIUM SPACING DEPTH HIGH RESOLUTION



BOREHOLE QBR 8103
CLIENT DENTISON

AREA BABCOCK
COUNTRY CANADA

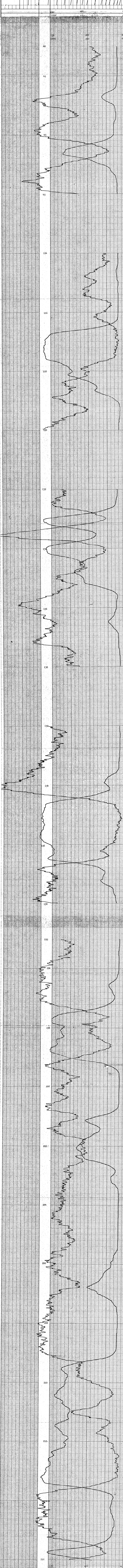
PER QUANTITE 8133



BOREHOLE QBR 8103	AREA BABCOCK
CLIENT DESPLON	COUNTRY CANADA
DATE LOGGED 12/27/81	DATE LOGGED 12/27/81
BOREHOLE DATA REFER TO LITHOLOGY LOG	OPERATION DATA REFER TO LITHOLOGY LOG
EQUIPMENT AND RECORDING DATA	COAL COMBINATIONS
LOG	COAL QUALITY LOG
SONG TYPE	SONG TYPE
COMBINATION	COMBINATION
LOG SUITE	LOG SUITE
GAMMA RAY	GAMMA RAY
LS DENSITY	LS DENSITY
REMARKS	REMARKS

615

B P B COAL QUALITY LOG



BOREHOLE QBR 8103	AREA BABCOCK
CLIENT DESPLON	COUNTRY CANADA
COAL QUALITY LOG	



WIND-RESISTANCE AND TORSION

BOREHOLE QBR 8103
CLIENT BENTON

AREA BARBOCK
COUNTRY CANADA
DATE LOGGED 15/07/01

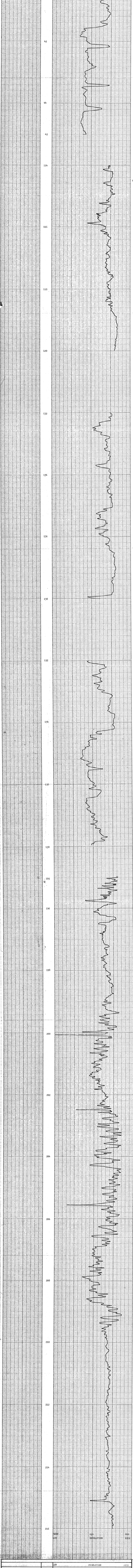
BOREHOLE DATA REFER TO LITHOLOGY LOG
OPERATION DATA REFER TO LOG

EQUIPMENT AND RECORDING DATA

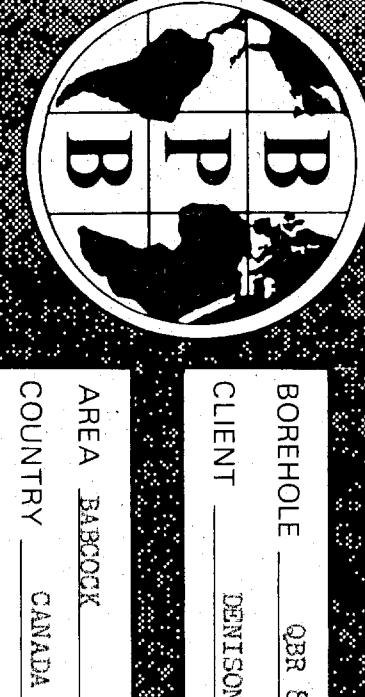
LOG	TYPING	PANEL	COIL
1	1	1	1
2	2	2	2
3	3	3	3

REMARKS

615



Paquette 8158



BOREHOLE QBR 8103
 CLIENT TRINCON
 AREA BABCOCK
 COUNTRY CANADA
 DATE LOGGED 15/03/01

SEAM THICKNESS LOG

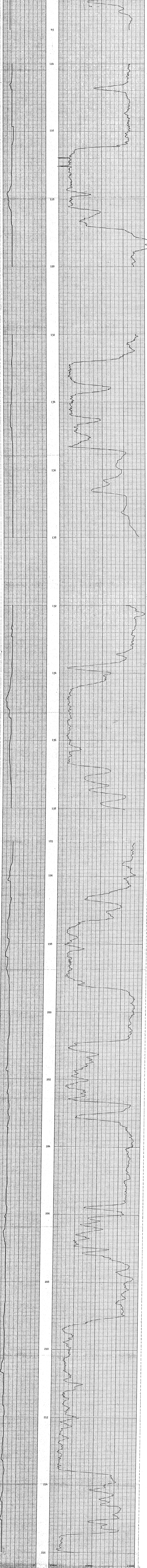
BOREHOLE DATA REFER TO LITHOLOGY LOG
 OPERATION DATA REFER TO LITHOLOGY LOG
 EQUIPMENT AND RECORDING DATA
 COAL COMPOSITION SOURCE
 SEGWAL POSITION
 LOG NUMBER 1
 LOG DATE 15/03/01

COAL COMBINATION SONDE
 LOG SUITE
 CALIPER
 B&D DENSITY

SEAM THICKNESS LOG INTERVALS
 FROM 262 158 138 120 115
 TO 271 166 146 136 135
 INTERVAL 9 18 8 6 5
 TOTAL 54
 FROM 262 158 138 120 115
 TO 271 166 146 136 135
 INTERVAL 9 18 8 6 5
 TOTAL 54

615

B P B SEAM THICKNESS LOG



CALIPER INCHES DEPTH BED RESOLUTION DENSITY

BOREHOLE QBR 8103 AREA BABCOCK
 CLIENT TRINCON COUNTRY CANADA
SEAM THICKNESS LOG



GAMMA RAY & NEUTRON-NEUTRON LOGS

BOREHOLE QBR 3103

CLIENT DAVENON

AREA BARCOCK

COUNTRY CANADA

DATE LOGGED 15/9/81

280 FT SCALE

OF LOGS

BOREHOLE DATA refer to LITHOLOGY LOG

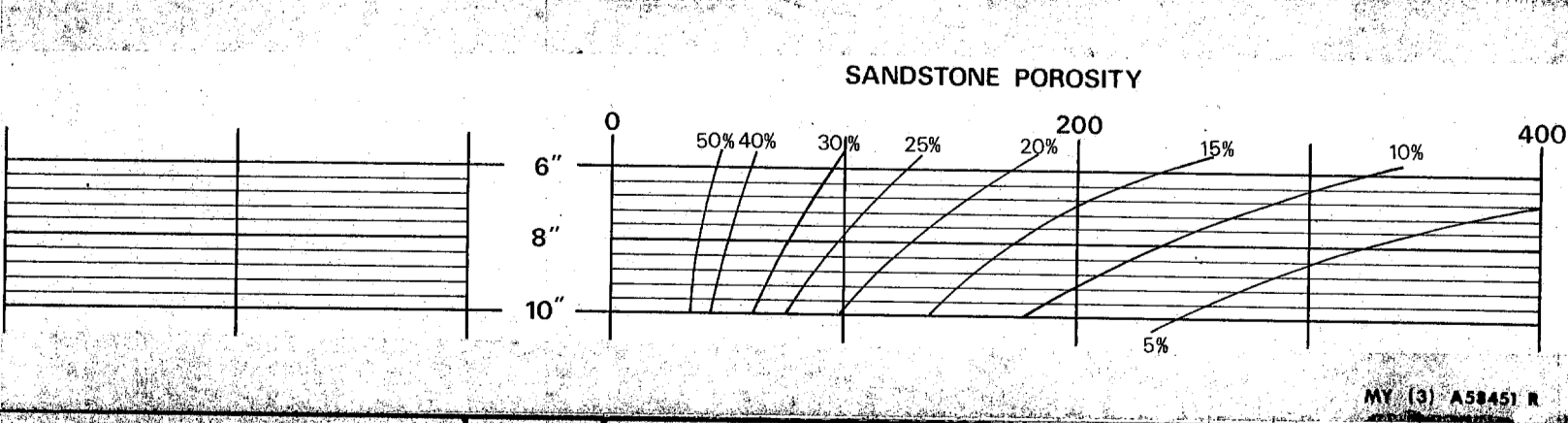
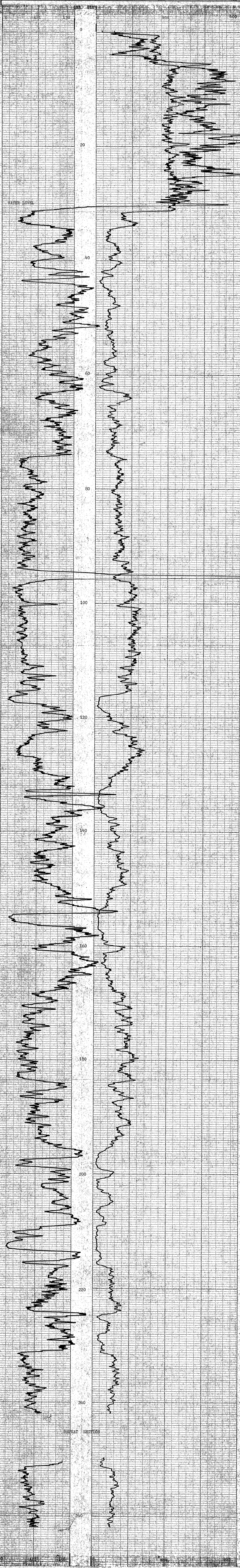
OPERATION DATA refer to LOG LOG

EQUIPMENT AND RECORDING DATA

LOG	TRAINING	PANEL	DATE
LOG	1000	1000	1.51
LOG	9	9	1.51
LOG	9	9	1.51
LOG	9	9	1.51
LOG	9	9	1.51

REMARKS

615



GAMMA RAY	DEPTH	NEUTRON-NEUTRON
0	0	0
1.50	300	400

BOREHOLE QBR 3103

CLIENT DAVENON

AREA BARCOCK

COUNTRY CANADA

MY (3) A38451 R

MYA28452R

72-COINETTE 813A



NEUTRON-NEUTRON LOGS

BOREHOLE QBR 8103

CLIENT DENISON

AREA BABCOCK

COUNTRY CANADA

DATE LOGGED 15/8/81

BOREHOLE DATA REFER TO LITHOLOGY LOG

OPERATION DATA REFER TO " LOG

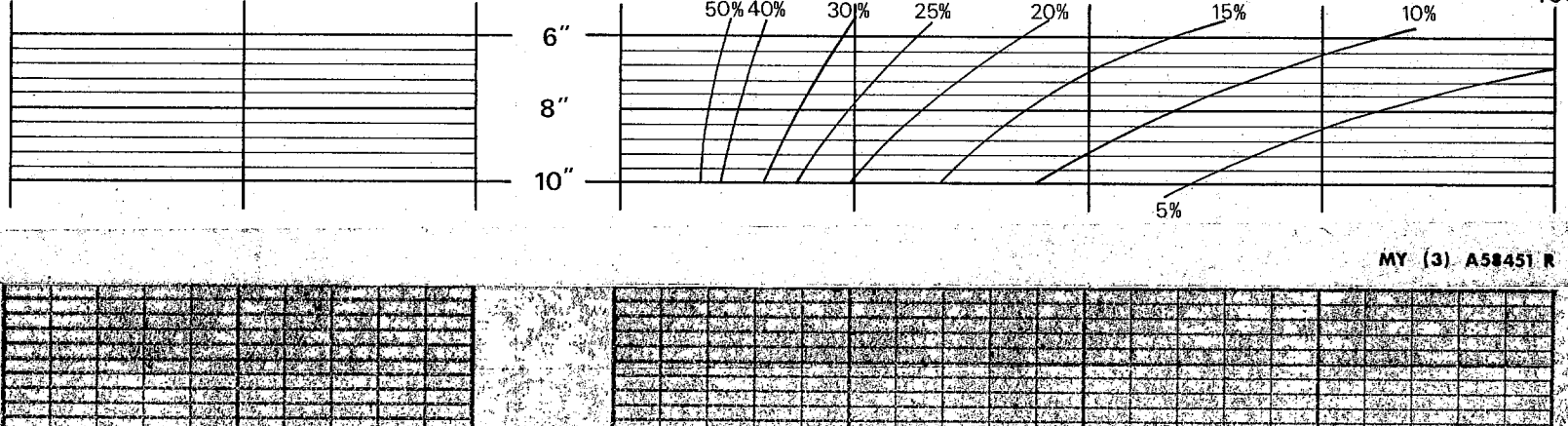
EQUIPMENT AND RECORDING DATA

LOGS TAPING PANEL LOGS TAPING SPEED SECS. NORM. LOGS TAPING SPEED SECS. NORM. LOGS TAPING SPEED SECS. NORM.

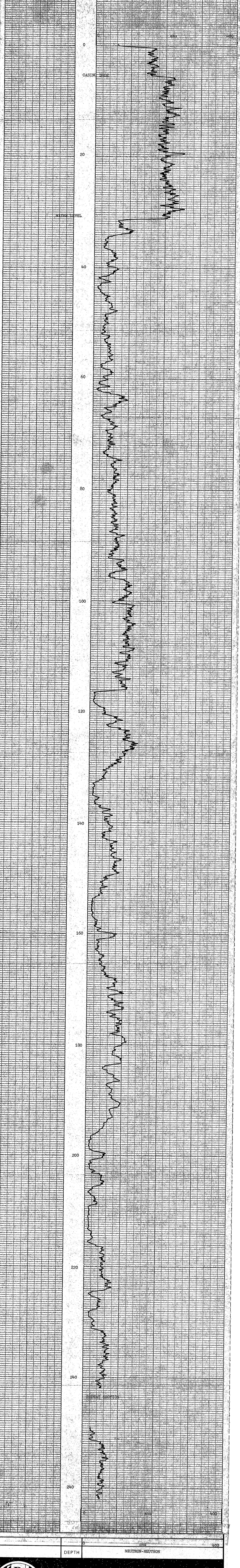
REMARKS 615

DEPTH 0 200 400 NEUTRON-NEUTRON

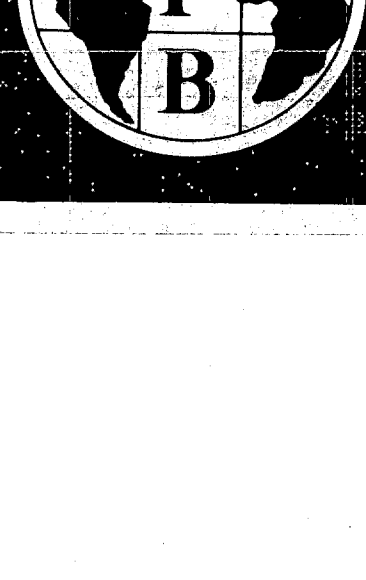
SANDSTONE POROSITY



MY (3) A58451 R



DEPTH 0 200 400 NEUTRON-NEUTRON



BOREHOLE QBR 8103 CLIENT DENISON

AREA BABCOCK COUNTRY CANADA

MY A58452 R

72-011767E 815A



GENERAL LOG
 MICRO-RESISTIVITY PAD TRACE

BOREHOLE QBR 0103
 CLIENT DENISON

AREA BABCOCK
 COUNTRY CANADA

DATE LOGGED 12/9/81

DEPTH SCALE
 20011

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

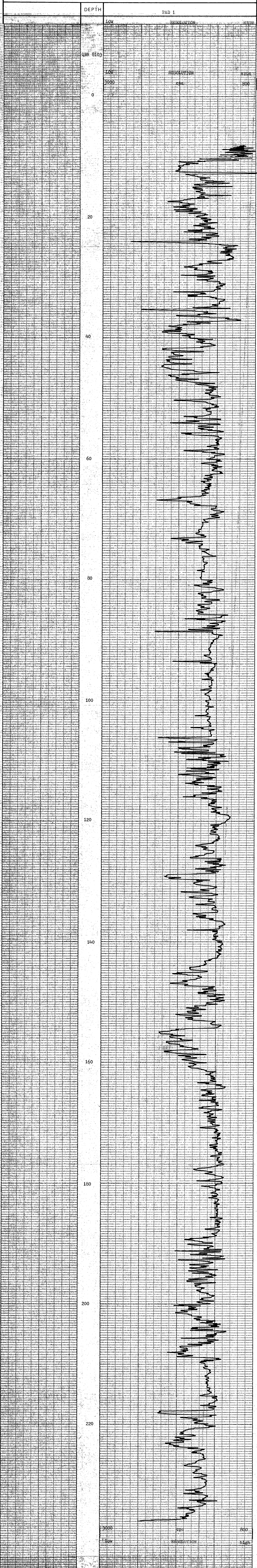
EQUIPMENT AND RECORDING DATA

LOG TAPING PANEL DATE
 LOG RECORD SPEED S.C. NORM. OFF.

PAD 1 X 4 Z 9.2

REMARKS

615



	LOW	RESOLUTION	HIGH
DEPTH	PAD 1		

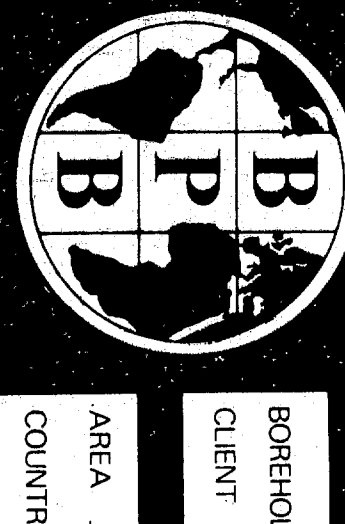
BOREHOLE QBR 0103
 CLIENT DENISON

AREA BABCOCK
 COUNTRY CANADA



NY A58452R

72-0-UNTESTE 815A



BOREHOLE QBR 3103
 CLIENT DENISON
 AREA BARBOCK
 COUNTRY CANADA
 DATE LOGGED 15/09/91

COAL LITHOLOGY LOG

REMARKS DATA
 ELEVATION OF H.D. _____
 M/S/STATION/STRAW C.I. _____
 DEPTH REACHED 23.2m
 LOGGING SHIRT 2-2m
 BIT SIZES 7 10 10 5.5 2 6 TO 17
 LOGGING SIZES 1 6 5.5 2 TO

SONDE TYPE

SONDE TYPE 3.3m
 COAL COMBINATION SONDE
 LOG SUITE
 GAMMA RAY
 L.S. DENSITY
 CALIPER

OPERATION DATA

OPERATION DATA
 FIRST RECORDING 20/2m
 LAST RECORDING 23/2m
 INTERVAL LOGGED 2m
 UNIT-TRACK No. 3851-200X
 ENGINEER DJV/AL

615

EQUIPMENT AND RECORDING DATA

LOG	EQUIPMENT	TAPING LOG TAPED	DIRECT RECORD REPLAY	PANEL SPEED	REC. RECS	CAL. COEFF	DEPTHS FROM	TO	SEAM LOG RUN		
GAMMA RAY	101	y	9	d	9	1	1.5'	242	0	242m	y
DENSITY		y	9	d	9	.3		243	0	243	y
CALIPER		y	9	d	9	.3		243	0	243	y

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

FROM	216	158	138	120	45	INTERVAL TOTAL
TO	195	152	132	114	40	44m
INTERVAL	21	6	6	6	5	

ADDITIONAL SONDES RUN

SONDE	LOG	GENERAL SCALE LOG	DETAIL SCALE LOG
221/211	DIP	200:1	20:1
204	N-N	200:1	
	SONIC	200:1	

REMARKS
 NO FOCUSED ELECTRIC BHS TO LOW WATER LEVEL

BPB COAL LITHOLOGY LOG

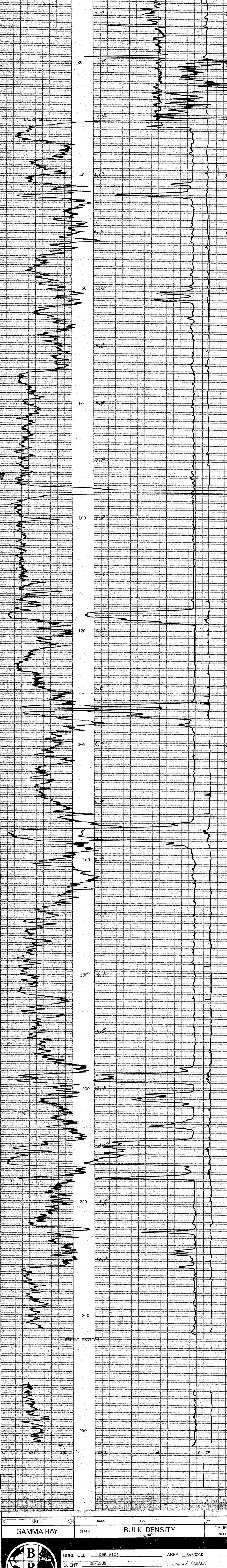
CALIBRATION DATA

JIG No. VALUE 3530 @ 2 DIAM
 JIG MARK SHOWN AT ABOVE VALUE -

JIG CAL. DATE 29/7/81
 JIG No. 0041
 JIG VALUE 8000
 SDU Q1.03 g/cm³
 NORM 884 * 7.98

2 mm 488 cps
 7 mm 907 cps

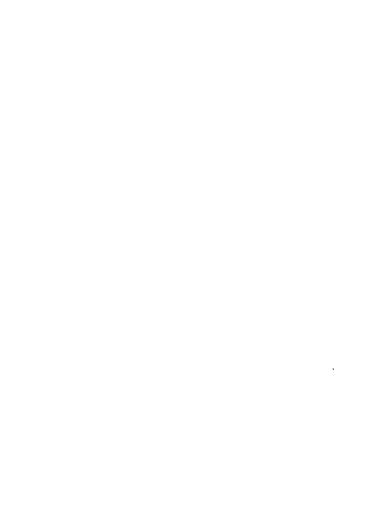
GAMMA RAY	DEPTH	BULK DENSITY g/cm ³	CALIPER INCHES
-----------	-------	--------------------------------	----------------



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

BOREHOLE QBR 3103
 CLIENT DENISON
 AREA BARBOCK
 COUNTRY CANADA

COAL LITHOLOGY LOG



NY A50241-R



BOREHOLE QBR 8104
 CLIENT BENTON

AREA BABCOCK
 COUNTRY CANADA
 DATE LOGGED 18/8/81

DEPTH SCALE 200:1
 OF 100S

SONDE TYPE
 COAL
 COMBINATION
 SONDE

LOG SUITE
 GAMMA RAY
 L.S DENSITY
 CALIPER

WITNESS

BOREHOLE DATA

PERMANENT DATUM
 ELEVATION OF P.D.
 MASS BENTONITE
 DEPTH REACHED
 CASING SHOE
 BIT SIZES
 CASING SIZES

EQUIPMENT AND RECORDING DATA

LOG	EQUIPMENT	SOURCE	CALIBRATOR	LOG TAPED	TAPING RECORD SPEED	DIRECT OF REPLAY	PANEL SPEED	TC SECS	NORM	CAL COEFF	DEPTHS FROM	TO	SEAM LOG RUN
GAMMA RAY	129			y	9	d	9	1		1.5	160m	0	150m y
L.S DENSITY		5822		y	9	d	9	.3		7.05	161m	0	161m y
CALIPER	SIDEWALL POSITION			y	9	d	9	.3			161m	0	161m y

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

FROM	114	105	92	72
TO	109	100	87	67
INTERVAL	5	5	5	5
TOTAL				
INTERVAL	20m			

ADDITIONAL SONDES RUN

SONDE	LOG	GENERAL SCALE LOG	DETAIL SCALE LOG
20H	N-N	200	
217/221	DIP	200	
	BONTC	200	

REMARKS

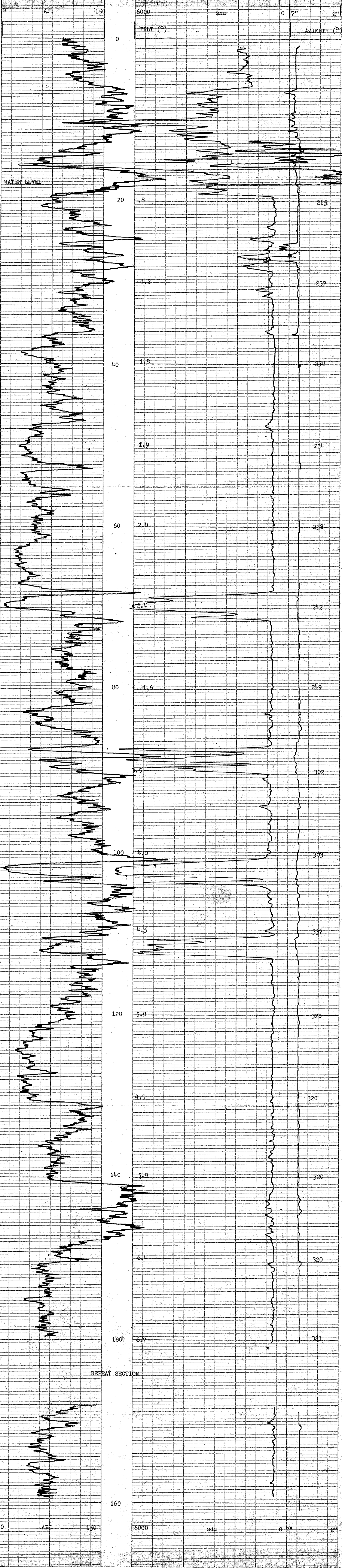
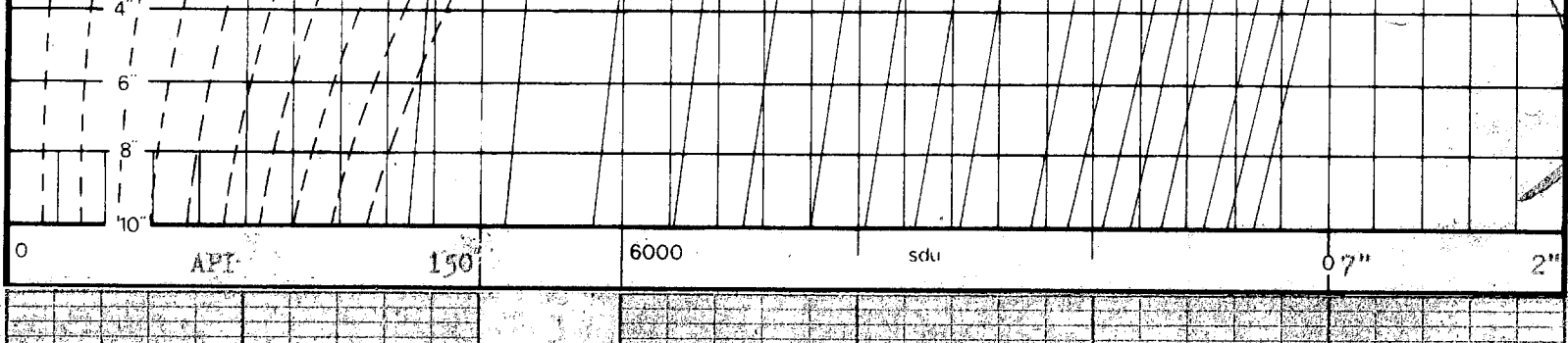
BPB COAL LITHOLOGY LOG

CALIBRATION DATA

JIG No VALUE 37 @ 2 DIAM JIG CAL DATE 29/7/81 JIG VALUE 3680 sDU @ 1.03 g/cm³ 7 ins 680 cps
 JIG MARK SHOWN AT ABOVE VALUE - JIG No 004-1 SPAN 6000 NORM sDU CPS 7.05 2 ins 353 cps

GAMMA RAY DEPTH BULK DENSITY g/cm³ CALIPER INCHES

HOLE SIZE CORRECTION DATA



GAMMA RAY DEPTH BULK DENSITY g/cm³ CALIPER INCHES



BOREHOLE QBR 8104 AREA BABCOCK
 CLIENT BENTON COUNTRY CANADA

COAL LITHOLOGY LOG

For-QUINTELL 81 (8)A

615

DP2-DUMETTE 8151A



GAMMA RAY & NEUTRON-NEUTRON LOGS

BOREHOLE 381 8104
CLIENT DENISON

AREA BABCOCK
COUNTRY CANADA
DATE LOGGED 11/7/61

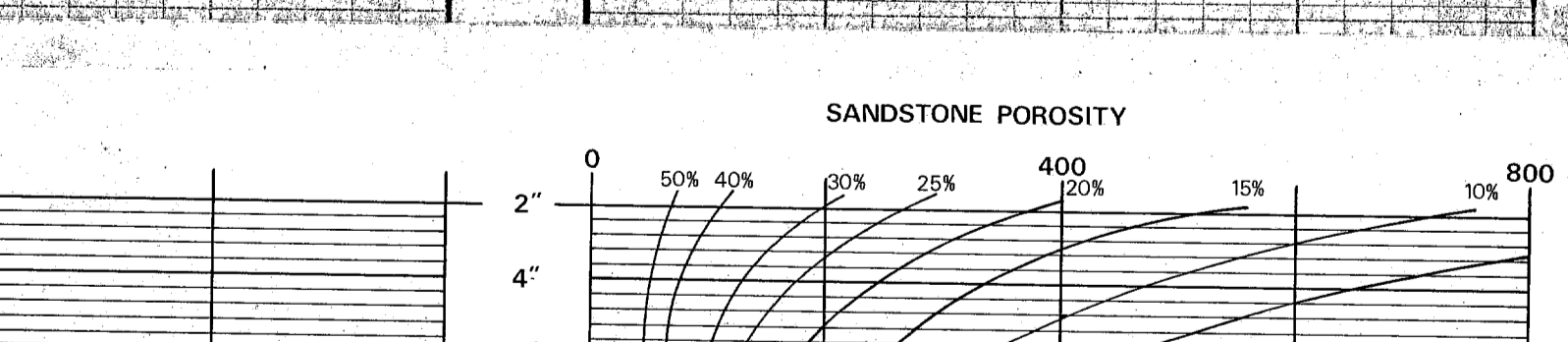
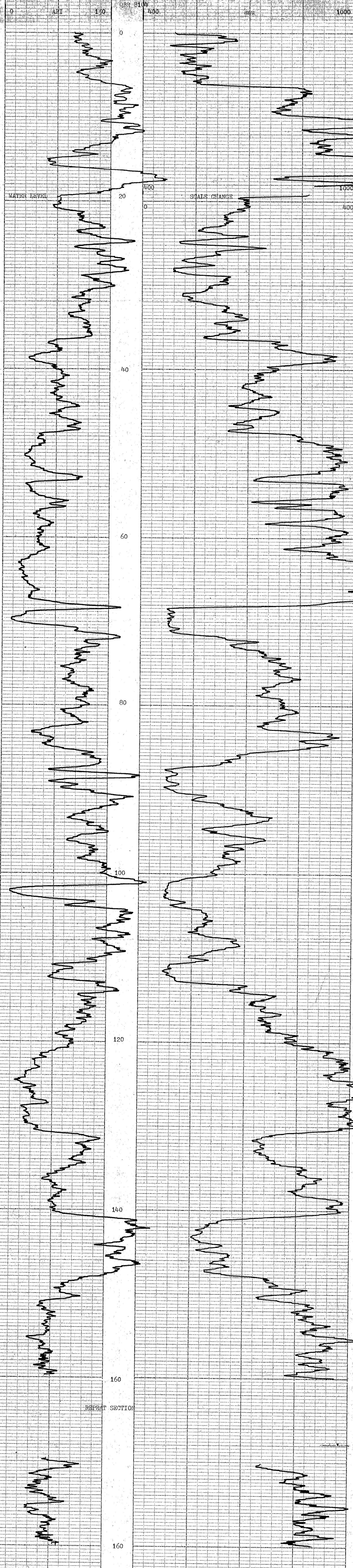
BOREHOLE DATA REFER TO LITHOLOGY LOG
OPERATION DATA REFER TO " LOG

EQUIPMENT AND RECORDING DATA

LOG	TAPING	PANEL	DATE
LOG	RECORD SPEED	T.C. INCH	SECS
TAPING	RECORD SPEED	SECS	INCH
DATE			
REMARKS			

615

GAMMA RAY	DEPTH	NEUTRON-NEUTRON
0	150	0

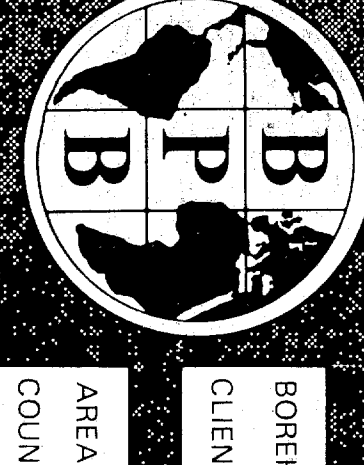


0	150	0	400
GAMMA RAY	DEPTH	NEUTRON-NEUTRON	



BOREHOLE 381 8104 AREA BABCOCK
CLIENT DENISON COUNTRY CANADA

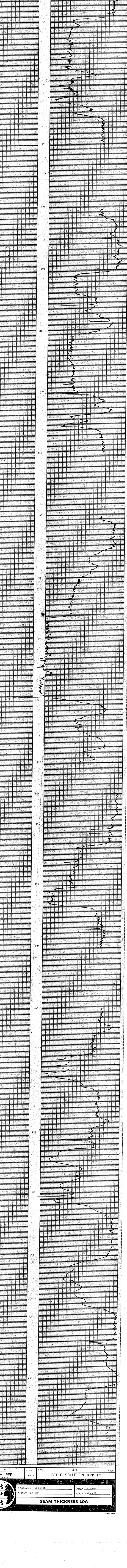
22.0 UNTS 810A



BOREHOLE QED 8101
 CLIENT BRN12-001
 AREA SAUDOCK
 COUNTY GABALA
 DATE LOGGED 12/9/81
 BOREHOLE DATA REFER TO UNH000-003
 OPERATION DATA REFER TO UNH000-005
 EQUIPMENT AND RECORDING DATA
 SERIAL POSITION
 ZONE, COMPARATION SOURCE
 SEAM THICKNESS LOG
 LOG
 SOUND TYPE
 COAL
 COMBINATION
 SONDE
 LOG SUITE
 CAL PER
 B DENSTY

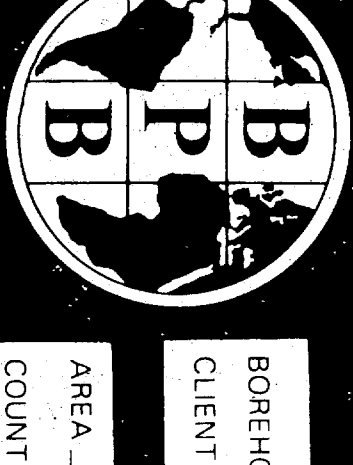
BOREHOLE QED 8101
 CLIENT BRN12-001
 AREA SAUDOCK
 COUNTY GABALA
 DATE LOGGED 12/9/81
 BOREHOLE DATA REFER TO UNH000-003
 OPERATION DATA REFER TO UNH000-005
 EQUIPMENT AND RECORDING DATA
 SERIAL POSITION
 ZONE, COMPARATION SOURCE
 SEAM THICKNESS LOG
 LOG
 SOUND TYPE
 COAL
 COMBINATION
 SONDE
 LOG SUITE
 CAL PER
 B DENSTY

B P B SEAM THICKNESS LOG



CALIPER DEPTH BED RESOLUTION DENSITY
 BOREHOLE QED 8101 AREA SAUDOCK
 CLIENT BRN12-001 COUNTY GABALA
SEAM THICKNESS LOG





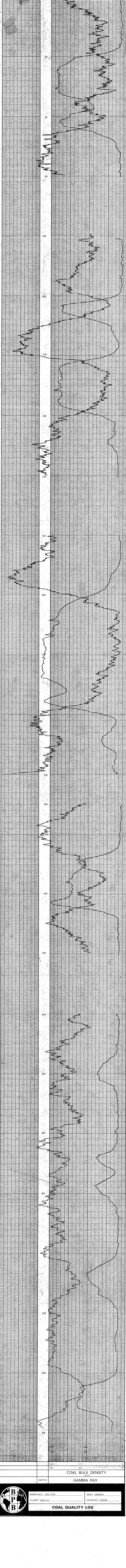
BOREHOLE QB0 B101
 CLIENT BENTON
 AREA BARBOCK
 COUNTRY CANADA
 DATE LOGGED 12/28/11

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

SONDE TYPE
 COAL COMBINATION
 COAL SOURCE
 LOG SUITE
 LOG SUITE
 L.S. DENSITY

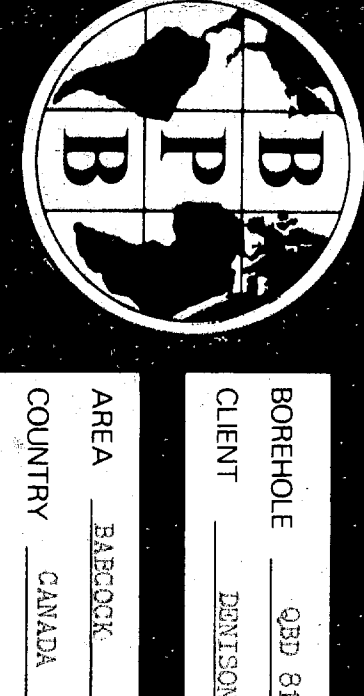
LOG SUITE
 L.S. DENSITY
 REMARKS
 LOGGING COMPANY: B.P.B. LOGGING

B P B COAL QUALITY LOG



DEPTH	GAMMA RAY	COAL BULK DENSITY
192	100	1.35
3009	100	1.35

72-0477E 813A



BOREHOLE QSD 8101
 CLIENT DEWISON

AREA BARBOCK
 COUNTRY CANADA
 DATE LOGGED 13/9/51

BOREHOLE DATA
 DEPTH TO TOP OF COAL 1028
 DEPTH TO BOTTOM OF COAL 1038
 DEPTH TO TOP OF SEAM 1028
 DEPTH TO BOTTOM OF SEAM 1038

COAL LITHOLOGY LOG
 LOG NO. VALLES55@ 2 DIAM
 LOG MARK SHOWN AT ABOVE VALUE

SONDE TYPE 515
 COAL COMBINATION
 LOG STATE CANADA
 LOG NO. VALLES55@
 LOG DATE 13/9/51

OPERATION DATA
 LOG STATE CANADA
 LOG NO. VALLES55@
 LOG DATE 13/9/51

615

EQUIPMENT AND RECORDING DATA															
COAL COMBINATION SONDE			EQUIPMENT			TAPING			PANEL		CAL COEFF		DEPTHS		SEAM LOG RUN
LOG	SONDE	SOURCE	CALIBRATOR	LOG SPEED	LOG ALPH	RECORD SPEED	DIRECTOR REFLAY	SPEED	TT SECS	NORM	FROM	TO	MIRRA	SEAM LOG RUN	
GAMMA RAY	204		6822	Y	9	D	9	2	1.5	1028	0	1028	Y		
DENSITY				Y	9	D	9	1	2.92	1038	0	1038	Y		
CALIPER															

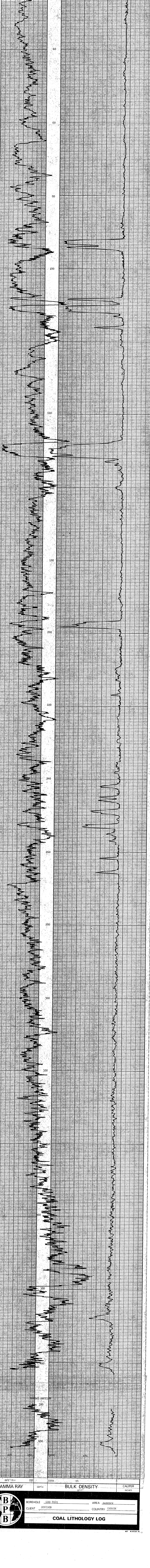
COAL QUALITY/SEAM THICKNESS LOG INTERVALS (Refer to relevant log)											
FROM	TO	294	195	146	106	90	INTERNAL	INTERNAL TOTAL			
INTERNAL		1 1/4	5	8	8	6		41 1/4			

ADDITIONAL SONDES RUN				REMARKS	
SONDE	LOG	GENERAL SCALE	DETAIL SCALE	REFER TO ADDITIONAL HEADINGS	REMARKS
204	N-H				LOGGED THROUGH THIS LOGS 60° ANGLE HOLES

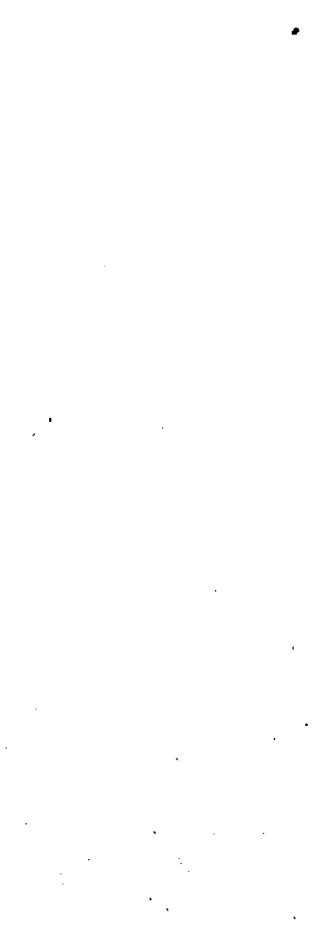
BPB COAL LITHOLOGY LOG

CALIBRATION DATA

LOG No.	VALLES55@ 2 DIAM	LOG CAL DATE 10/7/51	LOG VALUE	SDU (g)	g/cm ³	INCHES	INCHES
						2.92	2.92



GAMMA RAY	DEPTH	BULK DENSITY	CALIPER



BOREHOLE QSD 8101
 CLIENT DEWISON
 AREA BARBOCK
 COUNTRY CANADA
COAL LITHOLOGY LOG