



BOREHOLE MRC-82-2
 CLIENT PETRO-CANADA

AREA NONKMAN
 COUNTRY CANADA

DATE LOGGED 21/07/82

DEPTH SCALE 100:1
 1.05 - 4.055

COAL LITHOLOGY LOG

SONDE TYPE: FLUID DATA

COAL COMBINATION: SONDE

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

BOREHOLE DATA

PERMANENT DATUM	GROUND LEVEL	DBH IFR
ELEVATION OF P.O.	GROUND LEVEL	CI
MEASUREMENT FROM	CI	122m
DEPTH REACHED	6m	
CASING SHOE	1 6" TO 10.00m	2 5 1/2" TO 117m
BIT SIZES	3 5" TO 121m	4 TO
CASING SIZES	1 6" TO 6m	2 TO

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE		EQUIPMENT		TAPING		DIRECT OF REPLAY		PANEL		CAL COEFF		DEPTHS		SEAM LOG RUN
LOG	SONDE	SOURCE	CALIBRATOR	LOG TAPED	RECORD SPEED	D	SPEED	TC SECS	NORM	FROM	TO	INTERVAL		
GAMMA RAY	139	58:1	292API	Y	9m/m	D	9	1	1.42	121	0	121		
L.S. DENSITY			4570SDI	Y	9m/m	D	9	.3	5.4	121	0	121		
CALIPER				Y	9m/m	D	9	.3		121	0	121		

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

FROM	115m	78m	53m	INTERVAL TOTAL
TO	109m	71m	38m	23m
INTERVAL	6m	7m	15m	

ADDITIONAL SONDES RUN

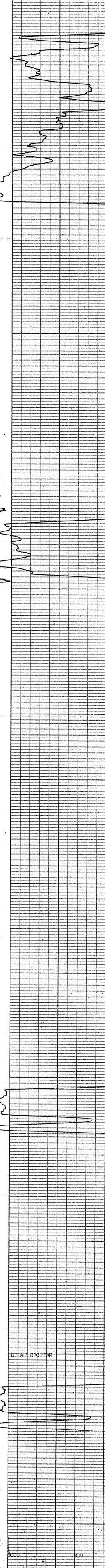
SONDE	LOG	GENERAL SCALE LOG	DETAIL SCALE LOG	REFER TO ADDITIONAL HEADINGS
215	N-N	100:1		

REMARKS

BPB COAL LITHOLOGY LOG

CALIBRATION DATA

JIG No 81	VALUE 292API 12 DIAM	JIG CAL DATE 21/02/82	JIG VALUE 4570SDI @	g/cm ³	2 ins	496 cps
JIG MARK SHOWN AT ABOVE VALUE -		JIG No 0336	SPAN 6000	NORM	SDI	5.4
					7 ins	758 cps



GAMMA RAY **DEPTH** **BULK DENSITY** **CALIPER**
 AF1 150 g/cm³ INCHES

BOREHOLE MRC-82-2 AREA NONKMAN
 CLIENT PETRO-CANADA COUNTRY CANADA

COAL LITHOLOGY LOG

OPERATION DATA

FIRST READINGS 121m
 LAST READINGS 121m
 INTERVAL LOGGED 42/215
 UNIT-TRUCK No RB
 ENGINEER RB
 WITNESS

464





LITHOLOGY LOG

BOREHOLE MPW-82-3
 CLIENT PETRO-CANADA
 AREA MONKMAN DEPTH SCALE 100:1
 COUNTRY CANADA
 DATE LOGGED 17/03/82 1 OF 2 LOGS

PERMANENT DATUM GROUND LEVEL
 ELEVATION OF P.D. GROUND LEVEL
 MEASUREMENTS FROM B P B DRILLER CL
 DEPTH REACHED 30m
 CASING SHOE CL
 BIT SIZES 1 TO 2
 CASING SIZES 3 TO 4
2 TO 2

NATURE WATER
 S.G. 1.0m
 LEVEL 10m
 VISCOSITY
 Firm at meas. temp.
 B.H. T.

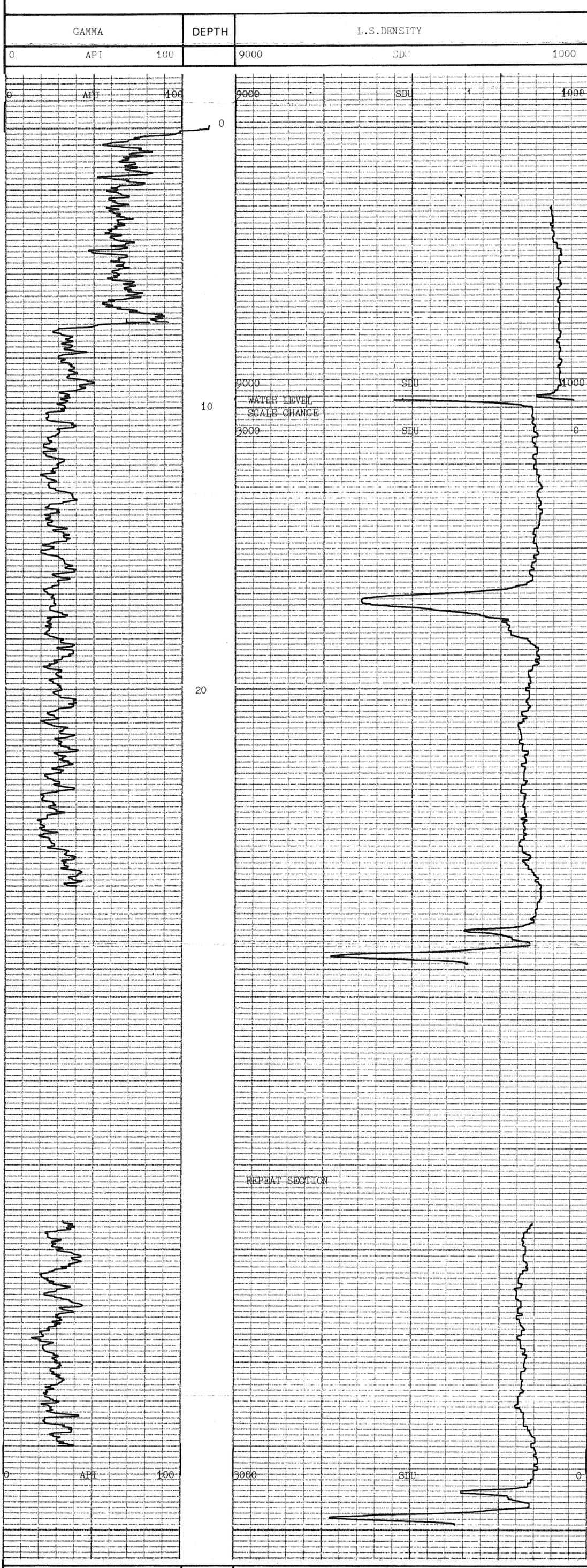
FIRST READING 27m
 LAST READING 0
 INTERVAL LOGGED 27m
 UNIT - TRUCK No 42/215
 ENGINEER HB
 WITNESS

OPERATION DATA
4164

EQUIPMENT AND RECORDING DATA

LOG	EQUIPMENT			TAPING			PANEL			CAL COEFF	DEPTHS		
	SONDE	SOURCE	CALIBRATOR	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	TC SECS	NORM		FROM	TO	INTERVAL
GAMMA	197		292API	Y	9m/m	D	9	1		1.67	27	0	27
L.S.D.	197	5851	4570SDU	Y	9m/m	D	9	.3	5.71		27	0	27

ADDITIONAL SONDES RUN				REFER TO ADDITIONAL HEADINGS	REMARKS
SONDE	LOG	GENERAL SCALE LOG	DETAIL SCALE LOG		
215	N-N	100:1			



BOREHOLE MPW-82-3 AREA MONKMAN
 CLIENT PETRO-CANADA COUNTRY CANADA



BOREHOLE: MPW-32-2
 CLIENT: PETRO-CANADA

AREA: MOKKMAN
 COUNTRY: CANADA

DATE LOGGED: 5/13/82

DEPTH SCALE
 0 to 5 LOGS

BOREHOLE DATA: REFER TO LITHOLOG LOG

OPERATION DATA: REFER TO LITHOLOG LOG

EQUIPMENT AND RECORDING DATA

SEAM THICKNESS LOG

LOG: LAMOND
 CALIPER: 1.500
 BRIDGES: 2
 SOURCE: 3

SEAM THICKNESS LOG INTERVALS

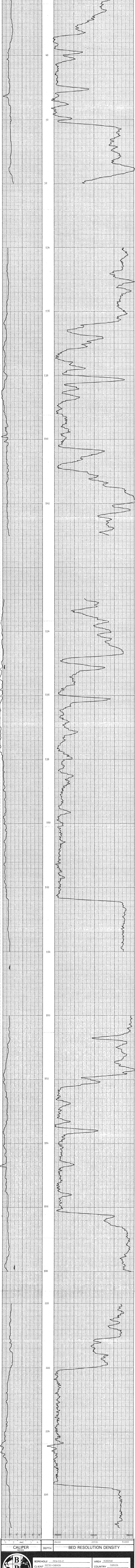
FROM	122m	130m	141m	143m	52m
TO	130m	141m	143m	145m	147m
INTERVAL	8m	11m	2m	2m	2m
TOTAL	147m				

COAL COMBINATION SONDE

LOG SUITE: B1 DENSITY

REMARKS: 464

B P B SEAM THICKNESS LOG





BOREHOLE KPW-82-2
 CLIENT PETRO-CANADA

AREA MONKMAN
 COUNTRY CANADA

DATE LOGGED 5/13/82
 OF 5 LOGS

COAL QUALITY LOG

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

LOG

COAL COMBUSTION SOURCE SERIAL POSITION
 LOG LOG SERIAL POSITION
 SAMPLE NO. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

SONDE TYPE: _____
 COAL COMBUSTION SOURCE: _____
 LOG SUITE: _____
 GAMMA RAY: _____
 L.S. DENSITY: _____

REMARKS
464

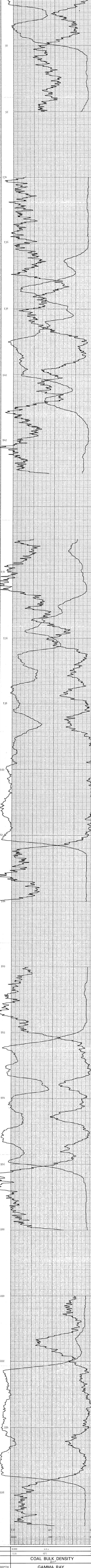
BPB COAL QUALITY LOG

DEPTH _____ GAMMA RAY _____
 COAL BULK DENSITY g/cm^3 _____

HOLE SIZE CORRECTION DATA

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	2.6	3.0
----	------	-----	------	-----	------	-----	------	-----	-----	-----	-----	-----	-----	-----	-----	-----

1.50 API 0
 6.000 SIDP 0



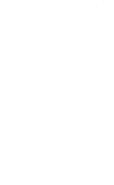
6.000 API 0
 1.50 SIDP 0

DEPTH _____ GAMMA RAY _____
 COAL BULK DENSITY g/cm^3 _____

BOREHOLE KPW-82-2
 CLIENT PETRO-CANADA

AREA MONKMAN
 COUNTRY CANADA

COAL QUALITY LOG





NEUTRON-NEUTRON LOG

BOREHOLE MFW-32-2

CLIENT PETRO-CANADA

AREA MONKMAN

COUNTRY CANADA

DATE LOGGED 5/19/82

2 OF 5 LOGS

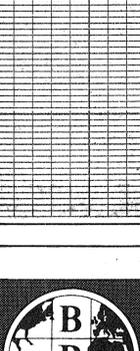
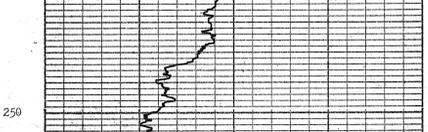
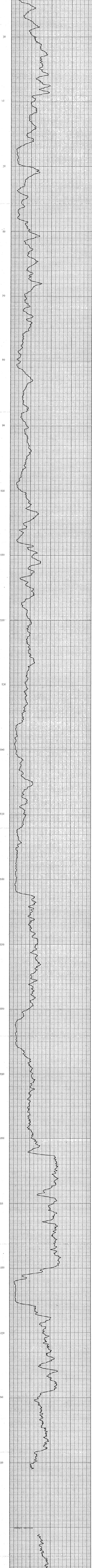
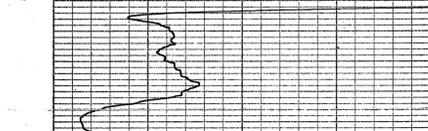
BOREHOLE DATA

OPERATION DATA

EQUIPMENT AND RECORDING DATA

REMARKS

464



BOREHOLE MFW-32-2
 CLIENT PETRO-CANADA

AREA MONKMAN
 COUNTRY CANADA



MULTI-CHANNEL SONIC LOG

BOREHOLE MPW-82-1
 CLIENT PETRO-CANADA

AREA MONKMAN
 COUNTRY CANADA

DATE LOGGED 23/02/82

DEPTH SCALE 100:1

4 OF 4 LOGS

BOREHOLE DATA

PERMANENT DATUM GROUND LEVEL
 ELEVATION OF P.D. 898
 DRILLER
 MEASUREMENTS FROM G.L. 1.53m
 DEPTH REACHED G.L. 1.53m
 CASING SHAPE
 CASING SIZES 1 8" TO 1.53m 2 TO
 3 TO 4 TO
 2 TO

FLUID DATA

NATURE
 S.G.
 LEVEL
 VISCOSITY
 Rot at meas temp
 B.H.T.

OPERATION DATA

FIRST READING 1.53m
 LAST READING 77m
 INTERVAL LOGGED 77m
 UNIT - TRUCK No 42/215
 ENGINEER RB
 WITNESS

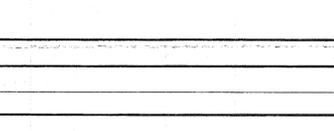
4164

EQUIPMENT AND RECORDING DATA

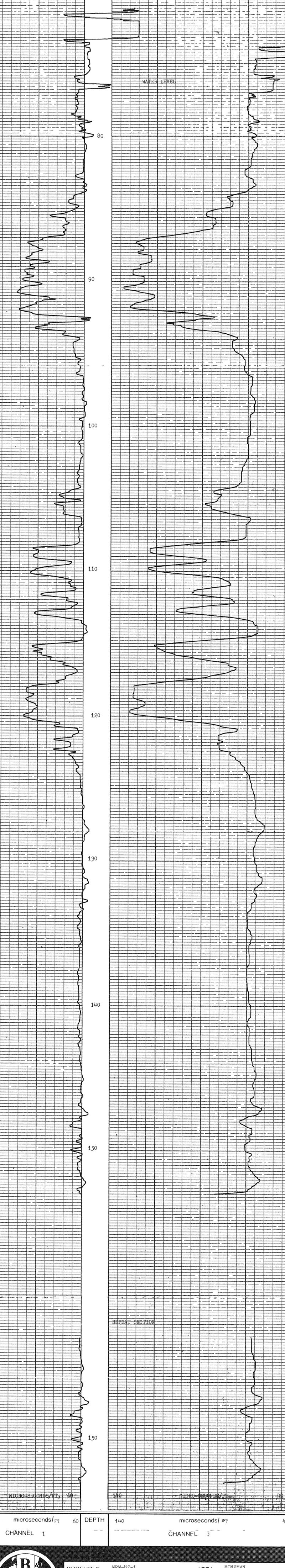
SONDE No.	CENTRALISERS SET TO 8"				DIAMETER 8"								
	TRANSDUCER ARRANGEMENT		GENERAL LOGGING		DETAIL LOGGING		DATA RECORDED			DATA DISPLAYED			
	RECEIVER PAIR	SPACING R-R	SPACING T-R	SPEED	TC SECS	SPEED	TC SECS	FROM	TO	INTERVAL	FROM	TO	INTERVAL
CHANNEL 1	R1 - R2	8"	24"	0m/m	.3			1.53m	76m	77m	1.53m	76m	77m
CHANNEL 2	R2 - R4	16"	32"					1.53m	76m	77m			
CHANNEL 3	R1 - R4	24"	24"	10m/m	.3			1.53m	76m	77m	1.53m	76m	77m
CHANNEL 4	R3 - R4	8"	40"					1.53m	76m	77m			

DETAIL ZONES DISPLAYED (SEE RELEVANT LOG)
 FROM
 TO
 INTERVAL

REMARKS



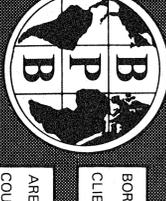
CHANNEL 1	DEPTH	CHANNEL 3
INTERVAL TRANSIT TIME		INTERVAL TRANSIT TIME
160 microseconds/FT 60		140 microseconds/FT 40



CHANNEL 1	DEPTH	CHANNEL 3
160 microseconds/FT 60		140 microseconds/FT 40



BOREHOLE MPW-82-1 AREA MONKMAN
 CLIENT PETRO-CANADA COUNTRY CANADA



BOREHOLE MPW-82-1

CLIENT PETRO-CANADA

AREA MONKMAN

COUNTRY CANADA

DATE LOGGED 23/02/82

3 OF 4 LOGS

DEPTH SCALE 201

SEAM THICKNESS LOG

BOREHOLE DATA REFER TO LITHOLOGY LOG

OPERATION DATA REFER TO LITHOLOGY LOG

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONGE

LOG RANGE PANEL LOG RECORDING SPEED SECS NORM CALIPER Y 2M/M R Z .3

SONDE TYPE: COAL COMBINATION SONDE

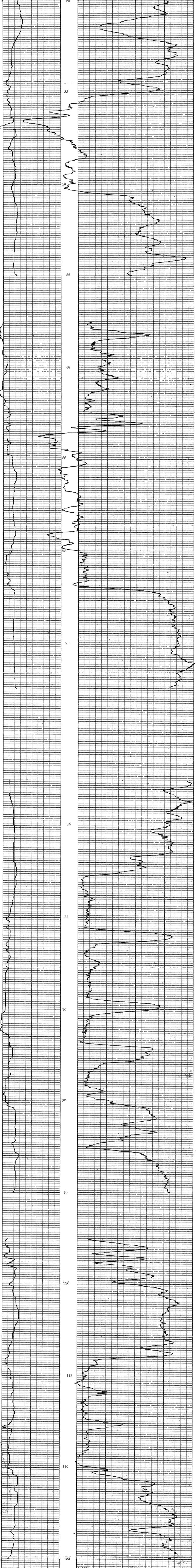
SEAM THICKNESS LOG INTERVALS

LOG SUITE: CALIPER BR DENSITY

REMARKS

464

B P B SEAM THICKNESS LOG



CALIPER INCHES	DEPTH	BED RESOLUTION DENSITY
----------------	-------	------------------------



BOREHOLE MPW-82-1
 CLIENT PETRO-CANADA
 AREA MONKMAN
 COUNTRY CANADA

SEAM THICKNESS LOG



BOREHOLE MPW-02-1
 CLIENT PETRC-CANADA

AREA MONKMAN
 COUNTRY CANADA

DATE LOGGED 23/02/02
 DEPTH SCALE 20:1

2 OF 4 LOGS

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

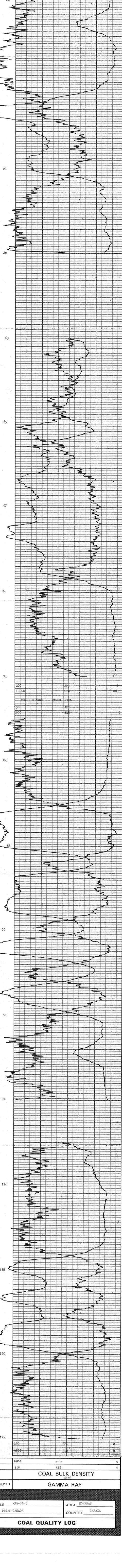
COAL QUALITY LOG
 EQUIPMENT AND RECORDING DATA
 COAL COMBINATION SONDE SIDEWALL POSITION CODE
 LOG TAPPING METHOD SPEED SECS NOMINAL COE
 SENSITIVITY 1 207/HR H 2 1 3 1-3-01
 LS DENSITY 1 207/HR H 2 1 3 1-3-01

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

COAL QUALITY LOG INTERVALS
 FROM 1 122m 94m 71m 20m
 TO 115m 92m 69m 20m
 INTERVAL 7m 9m 8m 6m
 INTER VAL TOTAL 2.5m
 REMARKS

464

BPB COAL QUALITY LOG



DEPTH	6.000	s.d.u.	0
	150	API	0

BOREHOLE MPW-02-1 AREA MONKMAN
 CLIENT PETRC-CANADA COUNTRY CANADA

COAL QUALITY LOG





COAL LITHOLOGY LOG

BOREHOLE MPW-82-1

CLIENT PETRO-CANADA

AREA MONKMAN

COUNTRY CANADA

DATE LOGGED 29/02/82

DEPTH SCALE 100:1

1 of 4 LOGS

BOREHOLE DATA

PERMANENT DATA

ELEVATION OF P.O.

MEASUREMENTS FROM

CASING SHOE

BIT SIZES

CASING SIZES

NATURE

LEVEL

VISCOSITY

B.H.T.

ENGINEER

WITNESS

OPERATION DATA

FIRST READING

LAST READING

UNIT - TRUCK No

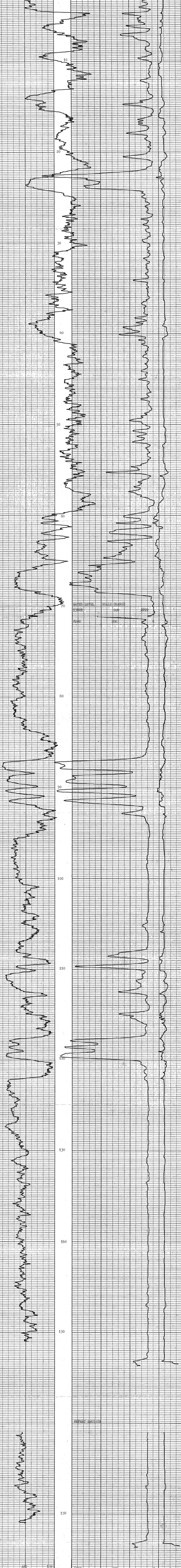
ENGINEER

414

EQUIPMENT AND RECORDING DATA

LOG	EQUIPMENT			TAPING		PANEL		CAL		DEPTHS			
	SONDE	SOURCE	CALIBRATOR	LOG TAPED	RECORD SPEED	DIRECT OF REPLAY	SPEED	T.C. SECS	NORM	COEFF	FROM	TO	INTERVAL
GAMMA	197D	5851	292API	Y	9m/m	D	9	1		1.07	1.1	0	1.1
L.S.D.	197D	5851	4860SDU	Y	9m/m	D	9	.3	5.81		1.1	0	1.1
CALIPER	197D			Y	9m/m	D	9	.3			1.1	0	1.1

SONDE	LOG	GENERAL SCALE LOG	DETAIL SCALE LOG	REFER TO	REMARKS
M/C	SONIC	100:1		REFER TO ADDITIONAL HEADINGS	



GAMMA	DEPTH	L.S. DENSITY	CALIPER
0	API 150	6000	SGU
0	API 150	2000	8 7 6 5 4

BOREHOLE	MPW-82-1	AREA	MONKMAN
CLIENT	PETRO-CANADA	COUNTRY	CANADA





LITHOLOGY LOG

BOREHOLE MOW-82-7
 CLIENT PETRO-CANADA
 AREA MONKMAN
 COUNTRY CANADA
 DATE LOGGED 10-03-82

DEPTH SCALE
100:1

2 OF 2 LOGS

BOREHOLE DATA

PERMANENT DATUM GROUND LEVEL
 ELEVATION OF P.O. "
 MEASUREMENTS FROM GI
 DEPTH REACHED 29m
 CASING SHOE 25.7m

BIT SIZES
 1 6 1/8" TO TD
 2 "
 3 "
 4 "
 CASING SIZES
 1 6 1/8" TO 25.7'
 2 "

FLUID DATA

NATURE WATER
 S.G. "
 LEVEL 12.8m
 VISCOSITY "
 Rim at meas. temp "
 B.H.T. "

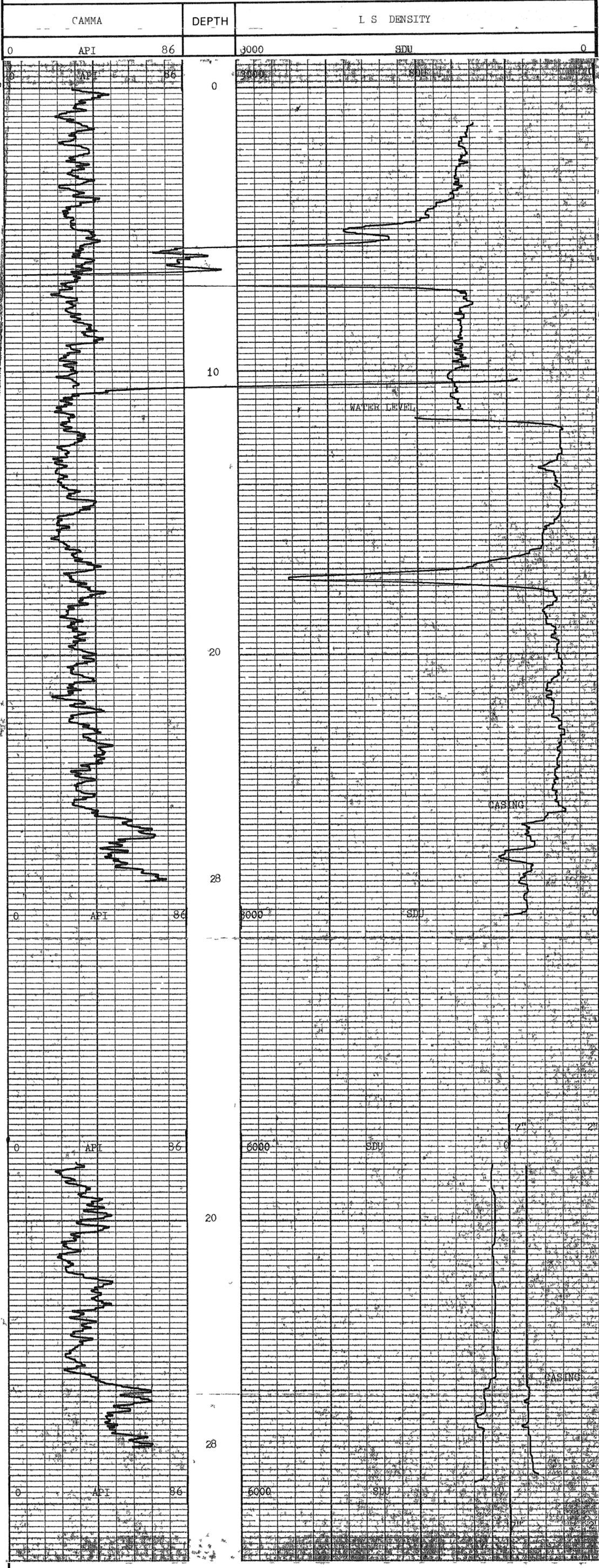
OPERATION DATA

FIRST READING 28m
 LAST READING 00m
 INTERVAL LOGGED 28m
 UNIT - TRUCK No 42/215
 ENGINEER JRB
 WITNESS "

EQUIPMENT AND RECORDING DATA

LOG	EQUIPMENT			TAPING		PANEL			CAL COEFF	DEPTHS			
	SONDE	SOURCE	CALIBRATOR	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	T.C. SECS		NORM	FROM	TO	INTERVAL
CCS	139	5851											
GAMMA			292API	Y	9m/M	D	9m/M	1	-	1.44	28	0	28
LSD			4860SDU	Y	9m/M	D	9m/M	.3	5.46	-	28	0	28
CALIPER			-	Y	9m/M	D	9m/M	.3	-	-	28	0	28

ADDITIONAL SONDES RUN				REFER TO ADDITIONAL HEADINGS	REMARKS
SONDE	LOG	GENERAL SCALE LOG	DETAIL SCALE LOG		
215	N-N	100:1			CASED OVERBURDEN HOLE



BOREHOLE MOW-82-7 AREA MONKMAN
 CLIENT PETRO-CANADA COUNTRY CANADA



NEUTRON-NEUTRON LOG

BOREHOLE MOW-82-7

CLIENT PETRO-CANADA

AREA MONKMAN

COUNTRY CANADA

DATE LOGGED 10-03-82

DEPTH SCALE 100:1

1 OF 2 LOGS

BOREHOLE DATA REFER TO LITHOLOGY LOG

OPERATION DATA REFER TO LITHOLOGY LOG

EQUIPMENT AND RECORDING DATA

LOG	TAPING	RECORD DIRECT	T C	PANEL	CAT
	SPEED	REPLAY	SPEED	SECS	COEFF
N-N	Y	9m/M	D	9m/N	1

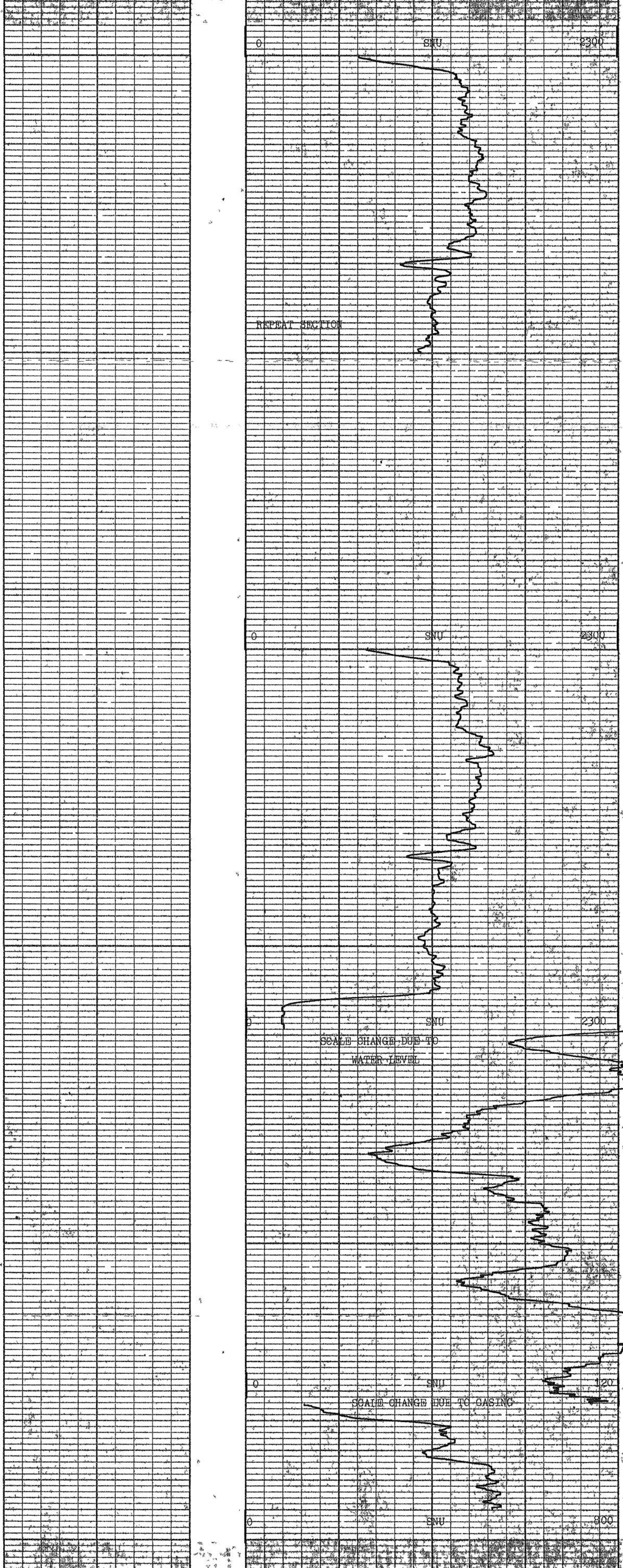
SONDE 215

SURF 6787

REMARKS CASHD OVERBURDEN HOLE REPEAT SECTION AT TOP DUE TO SCALE CHANGES AT BOTTOM

464

DEPTH	NEUTRON-NEUTRON	0	SNU	2300
-------	-----------------	---	-----	------



DEPTH	NEUTRON-NEUTRON	0	SNU	800
-------	-----------------	---	-----	-----



BOREHOLE MOW-82-7
CLIENT PETRO-CANADA

AREA MONKMAN
COUNTRY CANADA



GAMMA-RAY AND DENSITY LOG
(LONG SPACED)

BOREHOLE MOW-82-6

CLIENT PETRO-CANADA

AREA MONKMAN

COUNTRY CANADA

DATE LOGGED 10/07/82

DEPTH SCALE 100:1

LOSS 1 OF 2

BOREHOLE DATA

PERMANENT DATUM	GROUND LEVEL
ELEVATION OF P.D.	GROUND LEVEL
MEASUREMENTS FROM	8 F B
DEPTH REACHED	99m
CASING SHOE	9.5m
BIT SIZES	1 6" TO 100m 2 9.5m TO 3 TO 4 TO 4 TO TO
CASING SIZES	1 TO 2 TO

FLUID DATA

NATURE	MATERIALS
SG	
LEVEL	0m
VISCOSITY	
Temp at meas temp	
B.H.T.	

OPERATION DATA

FIRST READING	97m
LAST READING	0
INTERNAL LOGGED	97m
UNIT - TRUCK No	42/215
ENGINEER	RE/BW
WITNESS	

4164

EQUIPMENT AND RECORDING DATA

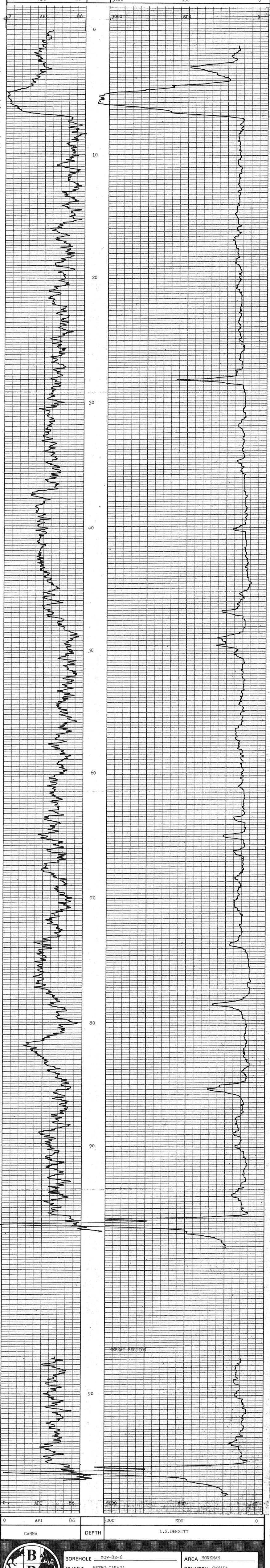
LOG	EQUIPMENT			TAPING		PANEL		CAL COEFF	DEPTHS				
	SONDE	SOURCE	CALIBRATOR	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED		T C SECS	NORM	FROM	TO	INTERVAL
GAMMA	139		292API	Y	9m/m	R	9	1		1.44	97	0	97
L.S.D.	139	5851	4570SDU	Y	9m/m	R	9	.3	5.46		97	0	97

ADDITIONAL SONDES RUN

SONDE	LOG	GENERAL SCALE LOG	DETAIL SCALE LOG
215	N-N	100:1	

REMARKS

CASED OVERBURDEN HOLE



GAMMA	DEPTH	L.S. DENSITY
0 API 86	3000	SDU 0



BOREHOLE MOW-82-6
CLIENT PETRO-CANADA

AREA MONKMAN
COUNTRY CANADA



BOREHOLE NGX-2-5

CLIENT FTBC-CANADA

AREA NONKMAN

COUNTRY CANADA

DATE LOGGED 2/13/92

LOG SCALE

20:1

4' OF 4' LOGS

BOREHOLE DATA REFER TO LITHOLOGY LOG

OPERATION DATA REFER TO LITHOLOGY LOG

EQUIPMENT AND RECORDING DATA

COAL QUALITY LOG

LOG NO. 108

COAL COMBINATION SOURCE

COAL QUALITY LOG INTERVALS

FROM 22.28 TO 22.28

FROM 15.28 TO 15.28

FROM 10.28 TO 10.28

FROM 5.28 TO 5.28

FROM 0.28 TO 0.28

FROM 28.00 TO 28.00

FROM 1.00 TO 1.00

FROM 0.00 TO 0.00

FROM 0.00 TO 0.00

FROM 0.00 TO 0.00

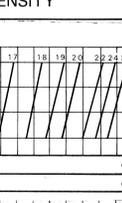
FROM 0.00 TO 0.00

FROM 0.00 TO 0.00

FROM 0.00 TO 0.00

FROM 0.00 TO 0.00

FROM 0.00 TO 0.00



BOREHOLE NGX-2-5

CLIENT FTBC-CANADA

AREA NONKMAN

COUNTRY CANADA

DATE LOGGED 2/13/92

LOG SCALE

20:1

4' OF 4' LOGS

BOREHOLE DATA REFER TO LITHOLOGY LOG

OPERATION DATA REFER TO LITHOLOGY LOG

EQUIPMENT AND RECORDING DATA

COAL QUALITY LOG

LOG NO. 108

COAL COMBINATION SOURCE

COAL QUALITY LOG INTERVALS

FROM 22.28 TO 22.28

FROM 15.28 TO 15.28

FROM 10.28 TO 10.28

FROM 5.28 TO 5.28

FROM 0.28 TO 0.28

FROM 28.00 TO 28.00

FROM 1.00 TO 1.00

FROM 0.00 TO 0.00

FROM 0.00 TO 0.00

FROM 0.00 TO 0.00

FROM 0.00 TO 0.00

FROM 0.00 TO 0.00

FROM 0.00 TO 0.00

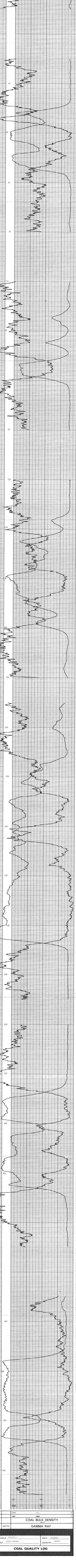
FROM 0.00 TO 0.00

FROM 0.00 TO 0.00

B P B COAL QUALITY LOG

DEPTH	GAMMA RAY
	COAL BULK DENSITY

DEPTH	1.26	1.3	1.35	1.4	1.45	1.5	1.55	1.6	1.7	1.8	1.9	2.0	2.2	2.3	2.4	2.5	2.6
-------	------	-----	------	-----	------	-----	------	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----



DEPTH	COAL BULK DENSITY
	GAMMA RAY

LOG SUITE
 GAMMA RAY
 L.S. DENSITY

REMARKS
 464



BOREHOLE MOW-82-5
CLIENT PETRO-CANADA

AREA MONTANA
COUNTRY CANADA

DATE LOGGED 2/13/82

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

SEAM THICKNESS LOG

LOG

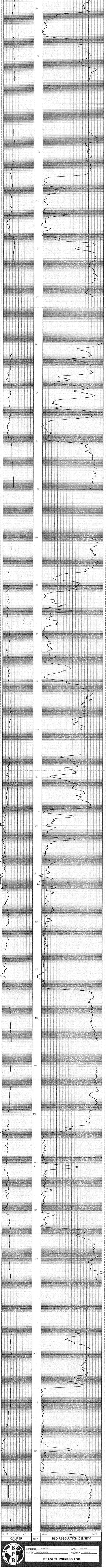
SEAM THICKNESS LOG INTERVALS

COMBINATION SONDRE
FROM 22.3m TO 220.0m
INCREASING TO 220.0m
INCREASING TO 220.0m

LOG SUITE
CALIPER
BAR DENSITY
REMARKS

464

B P B SEAM THICKNESS LOG



CALIPER INCHES	DEPTH	BED RESOLUTION DENSITY
3 4 5 6 7 8	24000 20000 16000	



NORTHON-NORTHON LOG

BOREHOLE 1004-82-5

CLIENT ERICO-CANADA

AREA HONOLULU

COUNTRY CANADA

DATE LOGGED 2/03/82

DEPTH SCALE 100 FT

2-9-1-1000

BOREHOLE DATA REFER TO LITHOLOGY LOG

OPERATION DATA REFER TO LITHOLOGY LOG

EQUIPMENT AND RECORDING DATA

LOGS 1004-82-5

1004-82-5

1004-82-5

1004-82-5

1004-82-5

1004-82-5

1004-82-5

1004-82-5

1004-82-5

1004-82-5

1004-82-5

1004-82-5

1004-82-5

1004-82-5

1004-82-5

1004-82-5

1004-82-5

1004-82-5

1004-82-5

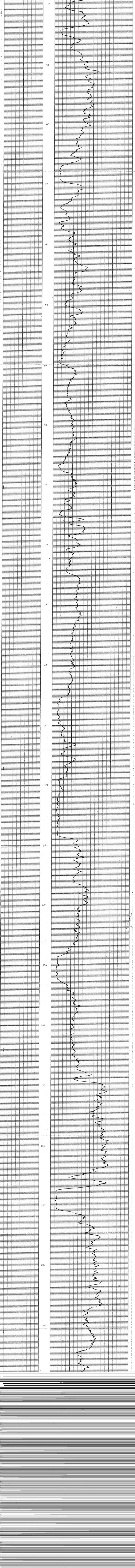
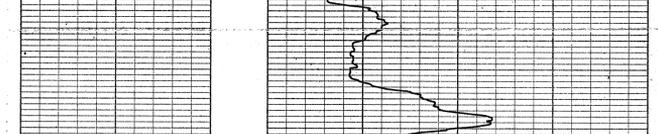
1004-82-5

1004-82-5

1004-82-5

1004-82-5

REMARKS
464



MY (1) A58451 R



BOREHOLE: MCW-32-5
 CLIENT: PETRO-CANADA

AREA: MORISMAN
 COUNTRY: CANADA
 DATE LOGGED: 2/9/92

DEPTH SCALE: 1:1
 1" = 4.00m

COAL LITHOLOGY LOG

COAL
 SOLE TYPE
 COAL COMBINATION
 SONDE

LOG SUITE
 GAMMA RAY
 U.S. DENSITY
 CALIPER

BOREHOLE DATA
 ELEMENTS OF P.C. SYSTEM LISTED
 ELEVATION OF P.C. SYSTEM LISTED
 MASS SPAN/SECTION
 DEPTH-READING
 CHANGING SHAPE
 CALIPER SIZES

FLUID DATA
 FLUIDS

OPERATION DATA
 TIME READING
 LAST READING
 INTERVAL LOGGED
 CALIPER
 ENGINEER

LOG SUITE
 GAMMA RAY
 U.S. DENSITY
 CALIPER

LOG	EQUIPMENT	TAPING	RECORD SPEED	PANEL	NORM	CAL. COEFF.	DEPTHS	SEAM	LOG RUN
	SONDE	LOG TAPE	RECORD SPEED	DIRRECT. OF REPLAY	T.C. SECS		FROM TO INTERVAL		
GAMMA RAY	581.1	292AP1	9m/m	D	9	1	1.14	1.1	1.3
U.S. DENSITY	4570SD1		9m/m	D	9	3	5.46	1.1	1.3
CALIPER			9m/m	D	9	3		1.1	1.3

COAL QUALITY/SEAM THICKNESS LOG INTERVALS (Refer to relevant log)							
FROM	TO	INTERVAL	SEAM	LOG RUN	SEAM	LOG RUN	INTERVAL
22.3m	13.5m	161m	8.2m	52m	22m		
21.5m	17.6m	149m	7.6m	45m	22m		
INTERVAL	8m	9m	12m	8m	6m	7m	5.5m

ADDITIONAL SONDES RUN				REMARKS
SONDE	LOG	GENERAL SCALE LOG SCALE LOG	DETAIL SCALE LOG	
215	N-N	100:1		
217	WEST.			

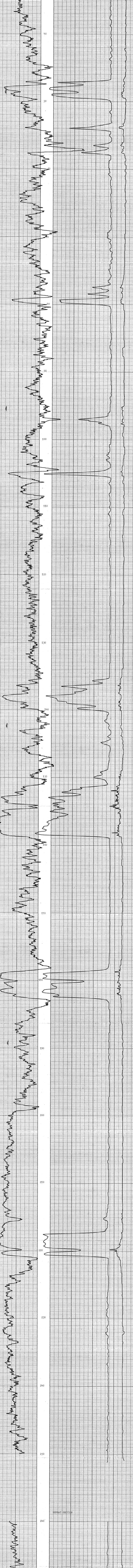
BPB COAL LITHOLOGY LOG

CALIBRATION DATA

JIG No 91	VALUE 292AP 12 DIAM	JIG CAL DATE: 1/02/92	JIG VALUE 4570	SDU @	9g/cm ³	3	ms	541	cps
JIG MARK SHOWN AT ABOVE VALUE -		JIG No 0336	SPAN 6000	NORM	5.46	3	ms	512	cps

GAMMA RAY	DEPTH	BULK DENSITY	CALIPER
		g/cm ³	INCHES

HOLE SIZE CORRECTION DATA	
DEPTH	HOLE SIZE



GAMMA RAY	DEPTH	BULK DENSITY	CALIPER
		g/cm ³	INCHES



BOREHOLE MON-02-4
 CLIENT PETRO-CANADA

AREA MONKMAN
 COUNTRY CANADA
 DATE LOGGED 27/05/82

SEAM SCALE
 1" = 100'

SEAM THICKNESS LOG

BOREHOLE DATA
 OPERATION DATA
 EQUIPMENT AND RECORDING DATA

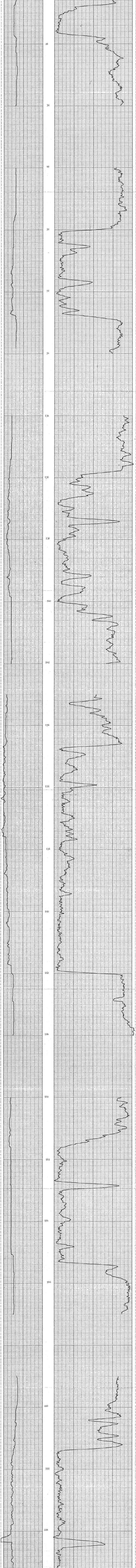
COAL COMBINATION SOURCE
 LOG
 LOG NUMBER
 LOG DATE

SEAM THICKNESS LOG INTERVALS
 FROM 227m 187m 169m 142m 95m 30m
 TO 213m 180m 158m 134m 46m 25m
 INTERVAL 8m 7m 11m 8m 6m 5m
 TOTAL 135m

LOG SUITE
 CALIPER
 B.DENSITY

REMARKS
464

B.P.B. SEAM THICKNESS LOG



CALIPER INCHES	DEPTH	BED RESOLUTION DENSITY
8" 7" 6" 5" 4" 3"	24000	SRMU 14000

BOREHOLE	MON-02-4	AREA	MONKMAN
CLIENT	PETRO-CANADA	COUNTRY	CANADA

SEAM THICKNESS LOG



BOREHOLE: KOW-02-4
 CLIENT: PETRO-CANADA

AREA: MOKRYAN
 COUNTRY: CANADA

DATE LOGGED: 27/02/82
 3 of 4 LOGS

COAL QUALITY LOG

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

LOG

LOG: TAPPING
 SERIAL POSITION: 2011
 SERIAL NUMBER: 1
 SERIAL DATE: 2/7/81
 SERIAL TIME: 11:00
 SERIAL LOCATION: R
 SERIAL SOURCE: 2
 SERIAL CORRECTION: 3
 SERIAL SCALE: 4
 SERIAL UNIT: 5
 SERIAL REFERENCE: 6
 SERIAL OTHER: 7
 SERIAL REMARKS: 8

COAL TYPE:

COAL QUALITY LOG INTERVALS
 REFER TO LITHOLOGY LOG

COMBINATION

FROM: 227m 187m 164m 142m 120m 98m 76m 54m 32m
 TO: 219m 188m 153m 129m 69m 45m 23m 1m
 INTERVAL: 7m 11m 8m 6m 2m
 TOTAL: 41.5m

LOG SUITE

GAMMA RAY
 L.S. DENSITY

REMARKS

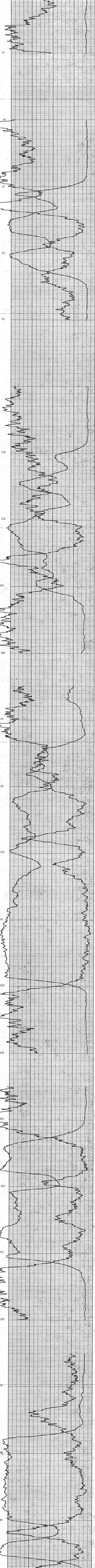
464

B P B COAL QUALITY LOG

DEPTH: 6000 150 0
 GAMMA RAY
 COAL BULK DENSITY g/cm³

HOLE SIZE CORRECTION DATA

2"	1.2	1.26	1.3	1.35	1.4	1.46	1.5	1.55	1.6	1.7	1.8	1.9	2.0	2.2	2.4	3.0
----	-----	------	-----	------	-----	------	-----	------	-----	-----	-----	-----	-----	-----	-----	-----



6000 150 0
 GAMMA RAY
 COAL BULK DENSITY g/cm³

DEPTH: 6000 150 0
 GAMMA RAY
 COAL BULK DENSITY g/cm³



BOREHOLE: KOW-02-4
 CLIENT: PETRO-CANADA
 AREA: MOKRYAN
 COUNTRY: CANADA
COAL QUALITY LOG



MULTI-CHANNEL SONIC LOG

BOREHOLE: HOW-82-4

CLIENT: PETRO-CANADA

AREA: MONKMAN

COUNTRY: CANADA

DATE LOGGED: 27/02/82

DEPTH SCALE: 100:1

LOGS: 2' OF 1' LOGS

BOREHOLE DATA

PERMANENT POINT: GROUND LEVEL

ELEVATION OF P.O. POINT: 235m

LOGGING SPEED: 235m

LOGGING LOGS: 235m

LOGGING LOGS: 235m

LOGGING LOGS: 235m

LOGGING LOGS: 235m

LOGGING LOGS: 235m

LOGGING LOGS: 235m

LOGGING LOGS: 235m

LOGGING LOGS: 235m

LOGGING LOGS: 235m

LOGGING LOGS: 235m

LOGGING LOGS: 235m

LOGGING LOGS: 235m

LOGGING LOGS: 235m

LOGGING LOGS: 235m

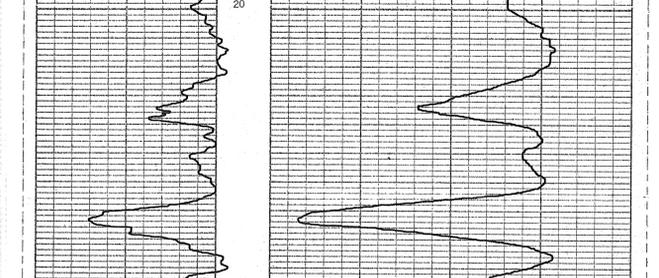
LOGGING LOGS: 235m

LOGGING LOGS: 235m

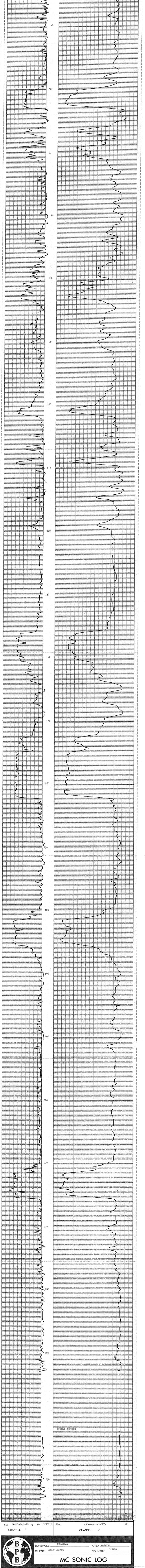
LOGGING LOGS: 235m

SONDE No.		CENTRALISERS SET TO 6" DIAMETER				RECORDED		DISPLAYED	
CHANNEL	RECEIVER PAIR	SPACING R-R	SPEED	TC SECS	FROM	TO	FROM	TO	
1	R1 - R2	8"	10m/m	.3	253m	18	253m	18	
2	R2 - R4	16"	10m/m	.3	253m	18	253m	18	
3	R1 - R4	24"	10m/m	.3	253m	18	253m	18	
4	R3 - R4	8"	10m/m	.3	253m	18	253m	18	

DETAILED ZONES DISPLAYED (SEE RELEVANT LOG)		INTERVAL TOTAL
FROM	TO	



REMARKS



CHANNEL 1	DEPTH	CHANNEL 3
160 microseconds/ft	60	140 microseconds/ft



QUALITY LITHOLOGICAL LOG

BOREHOLE NOW-82-4

CLIENT PETRO-CANADA

AREA MONTMAR

COUNTRY CANADA

DATE LOGGED 27/02/82

OPERATOR

BOREHOLE DATA

REMARKS

ELEVATION OF P.O.

MEASUREMENTS

DEPTHS REACHED

CASINGS SIZES

FLUID DATA

DATE

TIME

OPERATION DATA

LAST READING

INTERVAL LOGGED

WITNESSES

464

EQUIPMENT AND RECORDING DATA

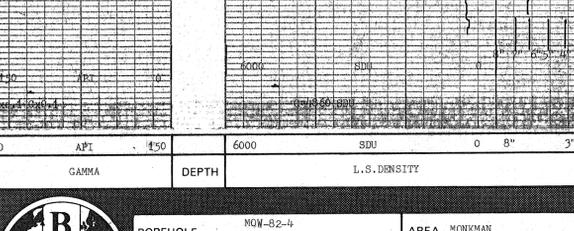
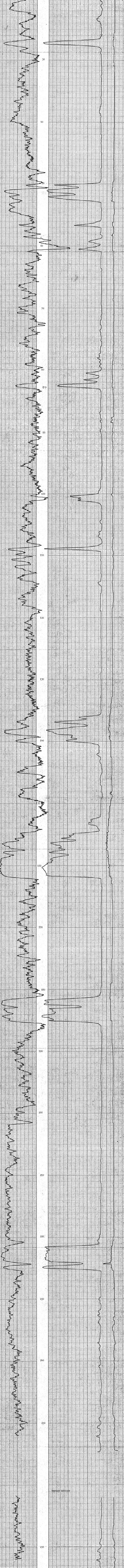
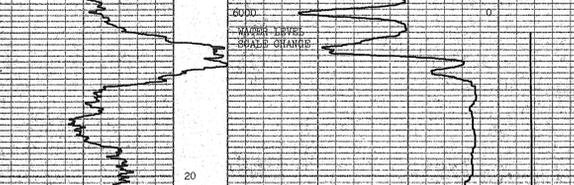
LOG	EQUIPMENT	TAPING	RECORDING	DIRECT	PANEL	CAI	DEPTHS	
SONDE	SOURCE	LOG	SPEED	TO	TYPE	COEFF	FROM	
		TAPE	REPLAY	REPLAY			TO	
GAMMA	197D	5851	292API	Y	7m/m	D	9	1
L.S.D.	197D	5851	4860SIL	Y	7m/m	D	9	1.3
CALIPER	197D			Y	7m/m	D	9	.3

ADDITIONAL SONDES RUN

SONDE	LOG	GENERAL SCALE LOG	DETAIL SCALE LOG
M.C. SONIC		100:1	

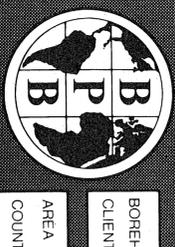
REMARKS

REFER TO ADDITIONAL HEADINGS



BOREHOLE	NOW-82-4	AREA	MONTMAR
CLIENT	PETRO-CANADA	COUNTRY	CANADA





MULTI-CHANNEL SONIC LOG

BOREHOLE MOV-82-3
CLIENT PETRO-CANADA

AREA MONKMAN
COUNTRY CANADA

DATE LOGGED 21/02/82

DEPTH SCALE
100:1

4 of 4 LOGS

BOREHOLE DATA

PERMANENT DATUM GROUND LEVEL
ELEVATION OF P.D.
METERS FROM TO
DEPTH REACHED 153m
CASING SIZE 1 8" TO 1 3/4"
2 TO
3 TO
4 TO

FLUID DATA

NAME
LEVEL
VISCOSITY
Flow at meas temp
B.H.T.

OPERATION DATA

FIRST READING 153m
LAST READING 28m
INTERVAL LOGGED 123m
UNIT-TRUCK No 46/215
ENGINEER RB/DJR
WITNESS

EQUIPMENT AND RECORDING DATA

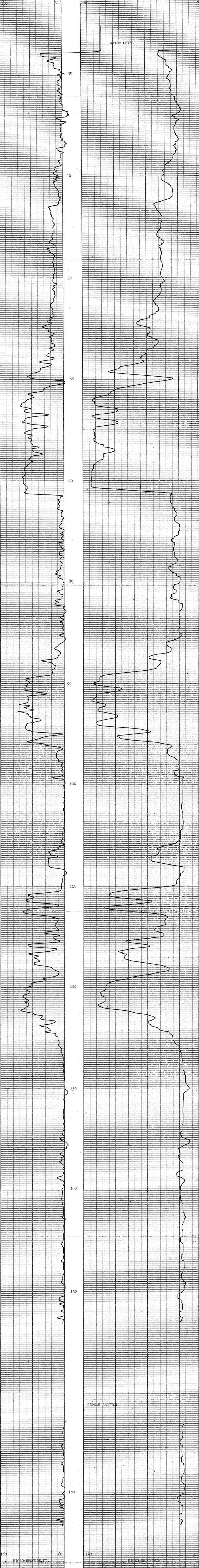
SONDE No.	CENTRALISERS SET TO				DIAMETER									
	TRANSDUCER ARRANGEMENT				GENERAL LOGGING		DETAIL LOGGING		DATA RECORDED			DATA DISPLAYED		
	RECEIVER PAIR	SPACING R-R	SPACING R-F	SPEED	TC SECS	SPEED	TC SECS	FROM	TO	INTERVAL	FROM	TO	INTERVAL	
CHANNEL 1	R1 - R2	8"	24"	10m/m	.3			153m	28m	125m	153m	28m	125m	
CHANNEL 2	R2 - R4	16"	32"											
CHANNEL 3	R1 - R4	24"	24"	10m/m	.3			153m	28m	125m	153m	28m	125m	
CHANNEL 4	R3 - R4	8"	40"											

DETAIL ZONES DISPLAYED (SEE RELEVANT LOG)

FROM TO INTERVAL TOTAL

REMARKS

TOP OF SONDE



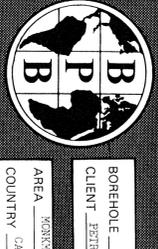
160 microseconds/ft 60 DEPTH 140 microseconds/ft 40

CHANNEL 1 CHANNEL 3



BOREHOLE MOV-82-3 AREA MONKMAN
CLIENT PETRO-CANADA COUNTRY CANADA

MC SONIC LOG



BOREHOLE MOW-82-3
 CLIENT PETRO-CANADA

AREA MONKMAN
 COUNTY CANADA

DATE LOGGED 22/02/82

DEPTH SCALE 20:1
 3 or 4 LOGS

COAL QUALITY LOG

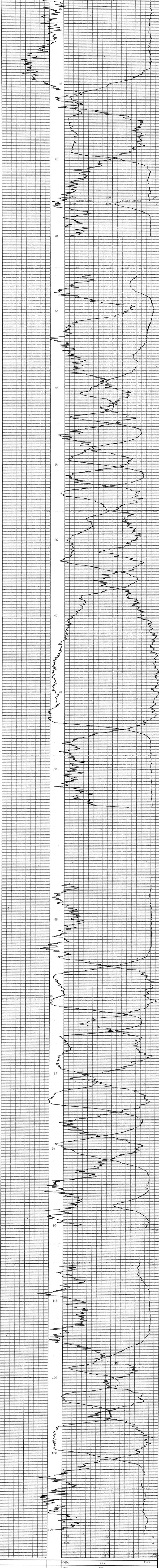
BOREHOLE DATA REFER TO LITHOLOGY LOG
 OPERATION DATA REFER TO LITHOLOGY LOG
 EQUIPMENT AND RECORDING DATA
 COAL COMBINATION SOURCE

LOG TAPING SERIAL POSITION
 LOG NO. 7888 RECORDING SPEED 6000 RPM
 SERIAL NO. 157
 SERIAL POSITION 1-11
 SERIAL POSITION 2
 SERIAL POSITION 3
 SERIAL POSITION 4
 SERIAL POSITION 5
 SERIAL POSITION 6
 SERIAL POSITION 7
 SERIAL POSITION 8
 SERIAL POSITION 9
 SERIAL POSITION 10
 SERIAL POSITION 11
 SERIAL POSITION 12
 SERIAL POSITION 13
 SERIAL POSITION 14
 SERIAL POSITION 15
 SERIAL POSITION 16
 SERIAL POSITION 17
 SERIAL POSITION 18
 SERIAL POSITION 19
 SERIAL POSITION 20
 SERIAL POSITION 21
 SERIAL POSITION 22
 SERIAL POSITION 23
 SERIAL POSITION 24
 SERIAL POSITION 25
 SERIAL POSITION 26
 SERIAL POSITION 27
 SERIAL POSITION 28
 SERIAL POSITION 29
 SERIAL POSITION 30
 SERIAL POSITION 31
 SERIAL POSITION 32
 SERIAL POSITION 33
 SERIAL POSITION 34
 SERIAL POSITION 35
 SERIAL POSITION 36
 SERIAL POSITION 37
 SERIAL POSITION 38
 SERIAL POSITION 39
 SERIAL POSITION 40
 SERIAL POSITION 41
 SERIAL POSITION 42
 SERIAL POSITION 43
 SERIAL POSITION 44
 SERIAL POSITION 45
 SERIAL POSITION 46
 SERIAL POSITION 47
 SERIAL POSITION 48
 SERIAL POSITION 49
 SERIAL POSITION 50
 SERIAL POSITION 51
 SERIAL POSITION 52
 SERIAL POSITION 53
 SERIAL POSITION 54
 SERIAL POSITION 55
 SERIAL POSITION 56
 SERIAL POSITION 57
 SERIAL POSITION 58
 SERIAL POSITION 59
 SERIAL POSITION 60
 SERIAL POSITION 61
 SERIAL POSITION 62
 SERIAL POSITION 63
 SERIAL POSITION 64
 SERIAL POSITION 65
 SERIAL POSITION 66
 SERIAL POSITION 67
 SERIAL POSITION 68
 SERIAL POSITION 69
 SERIAL POSITION 70
 SERIAL POSITION 71
 SERIAL POSITION 72
 SERIAL POSITION 73
 SERIAL POSITION 74
 SERIAL POSITION 75
 SERIAL POSITION 76
 SERIAL POSITION 77
 SERIAL POSITION 78
 SERIAL POSITION 79
 SERIAL POSITION 80
 SERIAL POSITION 81
 SERIAL POSITION 82
 SERIAL POSITION 83
 SERIAL POSITION 84
 SERIAL POSITION 85
 SERIAL POSITION 86
 SERIAL POSITION 87
 SERIAL POSITION 88
 SERIAL POSITION 89
 SERIAL POSITION 90
 SERIAL POSITION 91
 SERIAL POSITION 92
 SERIAL POSITION 93
 SERIAL POSITION 94
 SERIAL POSITION 95
 SERIAL POSITION 96
 SERIAL POSITION 97
 SERIAL POSITION 98
 SERIAL POSITION 99
 SERIAL POSITION 100

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

REMARKS
 464

BPB COAL QUALITY LOG

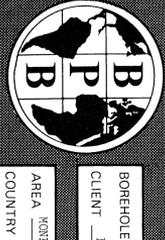


DEPTH	9000	1500
	API	g/cm ³
	COAL BULK DENSITY	
	GAMMA RAY	



BOREHOLE MOW-82-3
 CLIENT PETRO-CANADA
 AREA MONKMAN
 COUNTY CANADA

COAL QUALITY LOG



BOREHOLE MOW-82-3
 CLIENT PETRO-CANADA

AREA MONKMAN
 COUNTRY CANADA

DATE LOGGED 21/02/82
 Z OF H LOGS

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

SEAM THICKNESS LOG
 EQUIPMENT AND RECORDING DATA

LOG
 COAL COMBINATION SONDE SIDEWALL POSITION
 LOGS TACO 1000 SPEED SECS NORM
 CALIPER 1 2H/M R Z .3
 BROSSEY 7 2H/M R Z .3 (6.25)

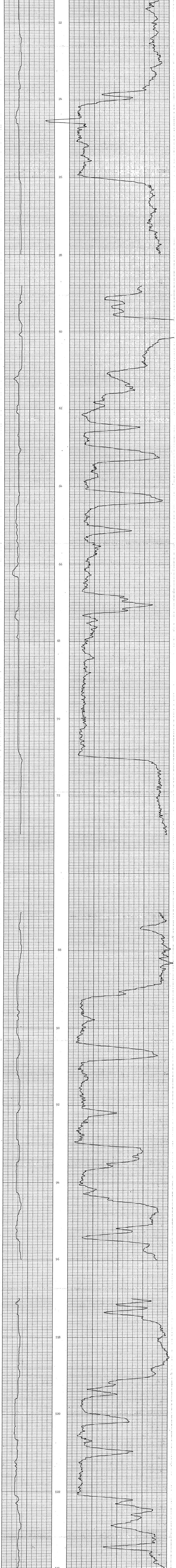
SONDE TYPE:
 COAL
 COMBINATION SONDE

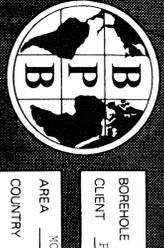
SEAM THICKNESS LOG INTERVALS
 FROM 124m 96m 76m 28m
 TO 117m 87m 59m 21m
 INTERVAL 7m 9m 14m 7m

LOG SUITE:
 CALIPER
 BR DENSITY

REMARKS
 464

B P B SEAM THICKNESS LOG





BOREHOLE MOW-82-3
 CLIENT PETRO-CANADA

AREA MONKMAN
 COUNTRY CANADA
 DATE LOGGED 21/02/82

DEPTH SCALE 100:1
 LOG SCALE 1 OF 4 LOSS

COAL

LITHOLOGY LOG

LOG

PARAMETER QUANTITY (SECOND LEVEL)
 ELEVATION OF D (GL) _____
 DEPTH REACHED 13.2m
 CASING SIZE 1 TO 1 1/2 IN 2 TO 2 TO
 BIT SIZES 3 TO 4 TO
 CASING SIZES 1 TO 2 TO

SONDE TYPE

COAL COMBINATION SONDE

LOG SUITE
 GAMMA RAY
 L.S. DENSITY
 CALIPER

OPERATION DATA
 FIRST READINGS 1.21m
 LAST READINGS 1.11m
 INTERVAL LOGGED 0.2/0.15
 ANT-HOOK No. 387/23
 ENGINEER

464

SONDE TYPE
 COAL COMBINATION SONDE

LOG SUITE
 GAMMA RAY
 L.S. DENSITY
 CALIPER

464

EQUIPMENT AND RECORDING DATA										
COAL COMBINATION SONDE		TAPING		PANEL		CAL COEFF		DEPTHS		SEAM LOG RUN
LOG	EQUIPMENT	LOG TAPE	RECORD SPEED	DIRECT REPLAY	T.C. SECS	NORM	FROM	TO	INTERVAL	
GAMMA RAY	197D	5851	9m/m	D	9	1	1.67	1:1	0	1:1
L.S. DENSITY			9m/m	D	9	.3	1.81	1:1	0	1:1
CALIPER	SIDEWALL POSITION		9m/m	D	9	.3		1:1	0	1:1

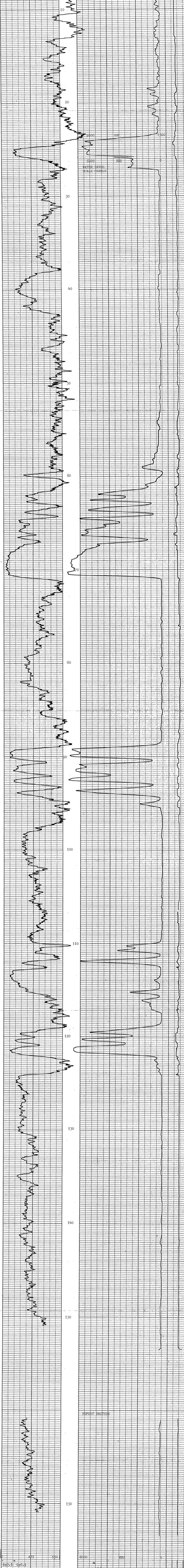
COAL QUALITY/SEAM THICKNESS LOG INTERVALS (Refer to relevant log)					INTERVAL TOTAL
FROM	124m	96m	73m	26m	
TO	117m	87m	59m	21m	
INTERVAL	7m	9m	14m	7m	37m

ADDITIONAL SONDES RUN				REMARKS
SONDE	LOG	GENERAL SCALE LOG	DETAIL SCALE LOG	
1/2 C	SONIC	100:1		REFER TO ADDITIONAL HEADINGS

BPB COAL LITHOLOGY LOG

CALIBRATION DATA

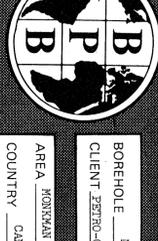
JIG No 51 VALUE 292 @ 12 DIAM JIG CAL DATE 21/02/82 JIG VALUE 4860 SBU @ 9 g/cm³ 3 ins 578 cps
 JIG MARK SHOWN AT ABOVE VALUE - JIG No 0336 SPAN 6000 NORM SBU = 5.81 8 ins 822 cps



GAMMA RAY	DEPTH	BULK DENSITY	CALIPER
AP7	f50	g/cm ³	INCHES
150	150	6000	3"

BOREHOLE MOW-82-3 AREA MONKMAN
 CLIENT PETRO-CANADA COUNTRY CANADA

COAL LITHOLOGY LOG



BOREHOLE MOW-B2-2
 CLIENT PETRO-CANADA

AREA MONKMAN
 MONKMAN SCALE 20:1
 COUNTRY CANADA

DATE LOGGED 29/02/82
 3 OF 3 LOGS

COAL QUALITY LOG

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

LOG

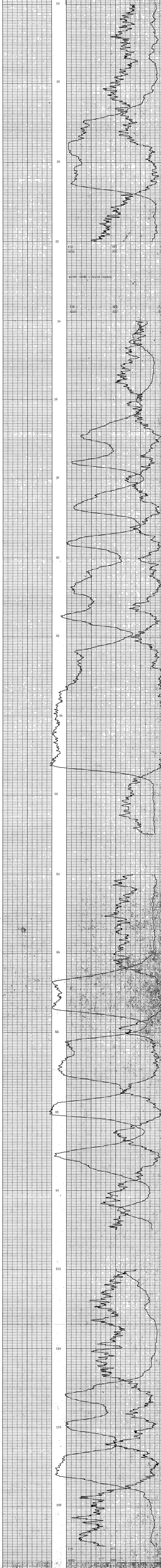
COAL COMBINATION SOURCE
 LOG TAPPING DIRECTS PANEL SIDEWALL POSITION
 LOG NO. 1001
 LOG SPEED 2000 RPM
 LOG SCALE 20:1
 LOG DATE 29/02/82
 LOG TIME 11:30
 LOG SOURCE SONDE AND CALIBRATION
 REFER TO LITHOLOGY LOG

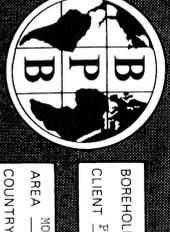
SONDE TYPE:
 COAL COMBINATION SONDE
 LOG SUITE:
 GAMMA RAY
 L.S. DENSITY

COAL QUALITY LOG INTERVALS
 FROM 113m 91m 57m 22m
 TO 112m 02m 34m 18m
 INTERVAL 7m 9m 13m 5m
 FROM 113m 91m 57m 22m
 TO 112m 02m 34m 18m
 INTERVAL 7m 9m 13m 5m
 FROM 113m 91m 57m 22m
 TO 112m 02m 34m 18m
 INTERVAL 7m 9m 13m 5m
 FROM 113m 91m 57m 22m
 TO 112m 02m 34m 18m
 INTERVAL 7m 9m 13m 5m

REMARKS
 464

BPB COAL QUALITY LOG





BOREHOLE MOW-82-2
CLIENT PETRO-CANADA

AREA MONKMAN
COUNTRY CANADA

DATE LOGGED 20/02/82

2 OF 3 LOGS

SEAM THICKNESS LOG

LOG

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

COAL COMBINATION SOURCE
SIGNAL POSITION

LOG TAPPING PANEL
LOG RECORDER MODEL SERIAL NO. INCHES
CALIBER 1/2 1/4 1/8 2 3 5.07
CROSSER 1 1/2 1/4 1/8 2 3 5.07

SONDE TYPE
SEAM THICKNESS LOG INTERVALS

COMBINATION
SONDE FROM 119m 91m 67m 22m
TO 112m 82m 54m 10m
INTERVAL 7m 9m 13m 6m

LOG SUITE
CALIBER
BR DENSITY

REMARKS
464

B P B SEAM THICKNESS LOG





BOREHOLE WOV-82-2
 CLIENT PETRO-CANADA

AREA MONKMAN
 COUNTY CANADA

DATE LOGGED 20/02/82

DEPTH SCALE
 100:1
 1 or 3 LOGS

COAL LITHOLOGY LOG

COAL COMBINATION SONDE

LOG SUITE
 GAMMA RAY
 L.S. DENSITY
 CALIPER

OPERATION DATA
 FIRST READING 14.5m
 LAST READING 0
 INTERVAL LOGGED 14.5m
 UNIT-TRUCK No. UZ/215
 ENGINEER IEB
 WITNESS

REMARKS DATA
 REMARKS
 ELEVATION OF D
 PANEL TC SECS
 NORM
 RECORD SPEED
 DIRECT OF REPLAY
 SPEED
 TAPPING LOG TAPED
 CALIBRATION DATA
 JIG CAL DATE 14/02/82
 JIG VALUE 46500SDU@
 JIG MARK SHOWN AT ABOVE VALUE -

EQUIPMENT AND RECORDING DATA													
COAL COMBINATION SONDE			TAPPING			PANEL		CAL COEFF		DEPTHS		SEAM LOG RUN	
LOG	SONDE	SOURCE	CALIBRATOR	LOG TAPED	RECORD SPEED	DIRECT OF REPLAY	SPEED	TC SECS	NORM	FROM	TO	INTERVAL	
GAMMA RAY	198D	5851	292API	Y	9m/m	R	9	1		1.8	145	0	145
L.S. DENSITY			46500SDU	Y	9m/m	R	9	.3	5.88		145	0	145
CALIPER				Y	9m/m	R	9	.3			145	0	145

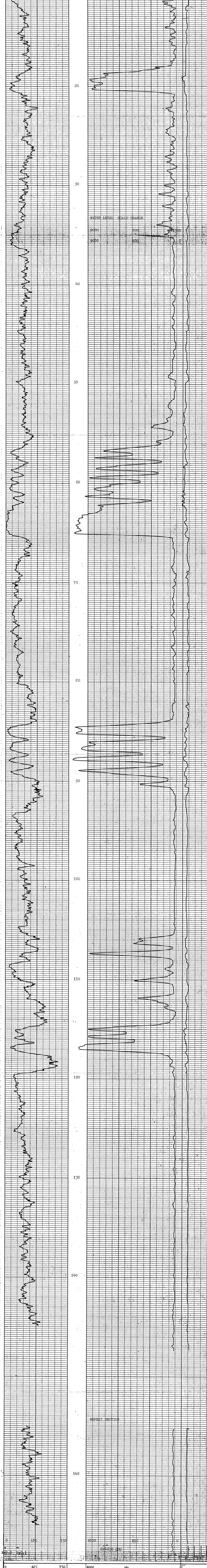
COAL QUALITY/SEAM THICKNESS LOG INTERVALS (Refer to relevant log)					INTERVAL TOTAL
FROM	119m	91m	67m	22m	
TO	112m	82m	54m	16m	
INTERVAL	7m	9m	13m	6m	35m

ADDITIONAL SONDES RUN				REMARKS	
SONDE	LOG	GENERAL SCALE LOG	DETAIL SCALE LOG	REFER TO ADDITIONAL HEADINGS	
				ONLY CCS RUN ON THIS HOLE	

BPB COAL LITHOLOGY LOG

CALIBRATION DATA

JIG No 81	VALUE 292API 72 DIAM	JIG CAL DATE 14/02/82	JIG VALUE 46500SDU@	g/cm ³	2 ms 573 cps
JIG MARK SHOWN AT ABOVE VALUE -		JIG No 0336	SPAN 6000	NORM SDU CPS = 5.88	7 ms 845 cps



GAMMA RAY	DEPTH	BULK DENSITY g/cm ³	CALIPER INCHES
0 - API	150	6000 sdu	6"

BOREHOLE WOV-82-2 AREA MONKMAN
 CLIENT PETRO-CANADA COUNTRY CANADA



COAL LITHOLOGY LOG



BOREHOLE MRC-82-7
CLIENT PETRO-CANADA

AREA MONKMAN
COUNTRY CANADA

DATE LOGGED 21/03/82

DEPTH SCALE
20:1

4 of 4 LOGS

COAL QUALITY LOG

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

COAL COMBINATION SONDE:
LOG TAPPING SIDEWALL POSITION
LOG TAPPING RECORDING SPEED PANEL CODE
GAMMA 1 25/71 R 2 2 1.42
IS. RESIST. 25/71 R 2 3 5.4

SONDE TYPE:
COAL COMBINATION SONDE
FROM 115m 70m 53m
TO 109m 71m 30m

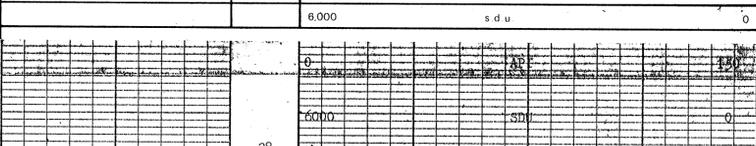
LOG SUITE:
GAMMA RAY
L.S. DENSITY

REMARKS
464

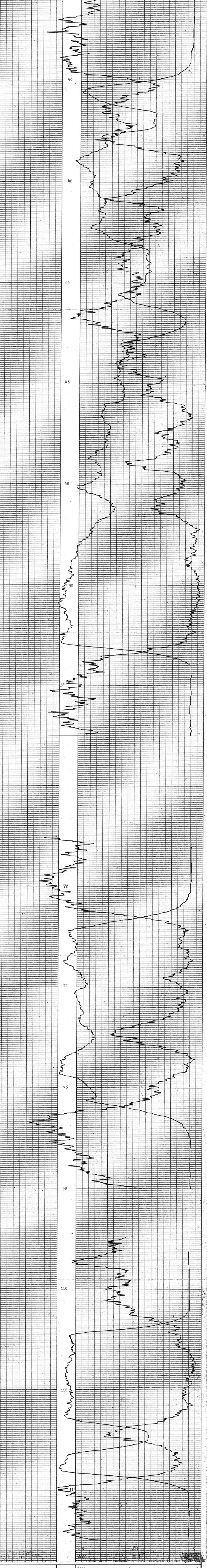
BPB COAL QUALITY LOG

DEPTH GAMMA RAY
COAL BULK DENSITY g/cm^3

HOLE SIZE CORRECTION DATA



6.000 150 API 0



6.000 150 API 0

DEPTH GAMMA RAY
COAL BULK DENSITY g/cm^3

BOREHOLE MRC-82-7 AREA MONKMAN
CLIENT PETRO-CANADA COUNTRY CANADA

COAL QUALITY LOG





BOREHOLE MRC-82-7
CLIENT PETRO-CANADA

AREA MONKMAN
COUNTRY CANADA

DATE LOGGED 21/03/82

DEPTH SCALE
20:1

30"± LOSS

BOREHOLE DATA REFER TO LITHOLOGY LOG

OPERATION DATA REFER TO LITHOLOGY LOG

EQUIPMENT AND RECORDING DATA

LOG

LOG	TAPPING	DEPTH	DEPTH
LOG	RECORDING	PERIOD	PERIOD
CALIPER	1	2	2
PROBES	1	2	2
	1	2	2
	1	2	2

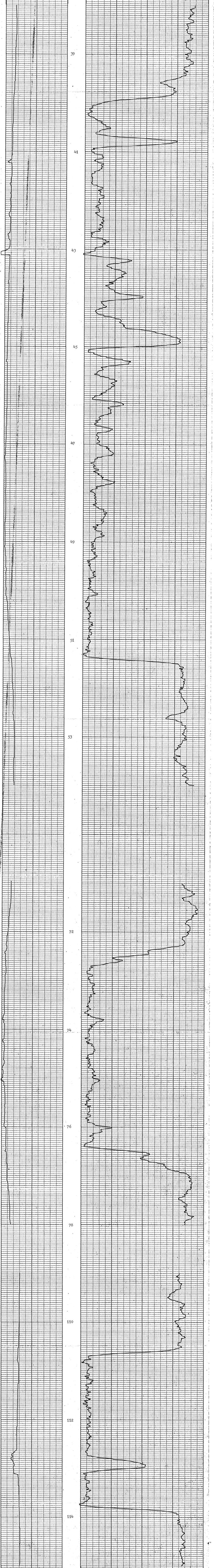
SONDE TYPE: COAL
COMBINATION SONDE

SEAM THICKNESS LOG INTERVALS

FROM 11.3m 7.5m 5.3m
TO 10.9m 7.1m 3.0m
INTERVAL 0.4m 0.4m 2.3m
FROM 7m 1.5m
TO
INTERVAL TOTAL
REMARKS

464

B P B SEAM THICKNESS LOG



CALIPER INCHES	DEPTH	BED RESOLUTION DENSITY
7 6 5 4 3 2	24000	SBRDU 14000



BOREHOLE MRC-82-7
CLIENT PETRO-CANADA
AREA MONKMAN
COUNTRY CANADA

SEAM THICKNESS LOG



NEUTRON-NEUTRON LOG

BOREHOLE MRC-82-7

CLIENT PETRO-CANADA

AREA MONKMAN

COUNTRY CANADA

DATE LOGGED 21/03/82

2 OF 4 LOGS

PORT SCALE 100%

BOREHOLE DATA REFER TO LITHOLOGY LOG

OPERATION DATA REFER TO LITHOLOGY LOG

EQUIPMENT AND RECORDING DATA

LOG TAPING PANEL COT

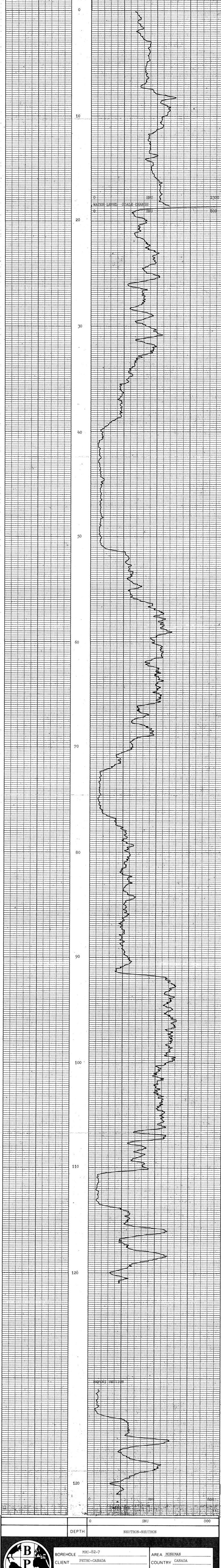
LOG RECORDING SPEED 1 C INCH

TAPING SPEED 97 M/M D 9 1 1

START OF 21.5 8000 6787

REMARKS

464



DEPTH	0	800
	NEUTRON-NEUTRON	

BOREHOLE	MRC-82-7	AREA	MONKMAN
CLIENT	PETRO-CANADA	COUNTRY	CANADA

