



DIPMETER ANALYSIS

CLIENT _____
BOREHOLE _____
AREA _____
COUNTRY _____

CROWSNEST RESOURCES
TW-910 ①
TELKWA
CANADA

755

DATE LOGGED.....17-OCT-89
DATE PROCESSED..20-OCT-89



COMMENTS.....

INTERPRETATION PARAMETERS

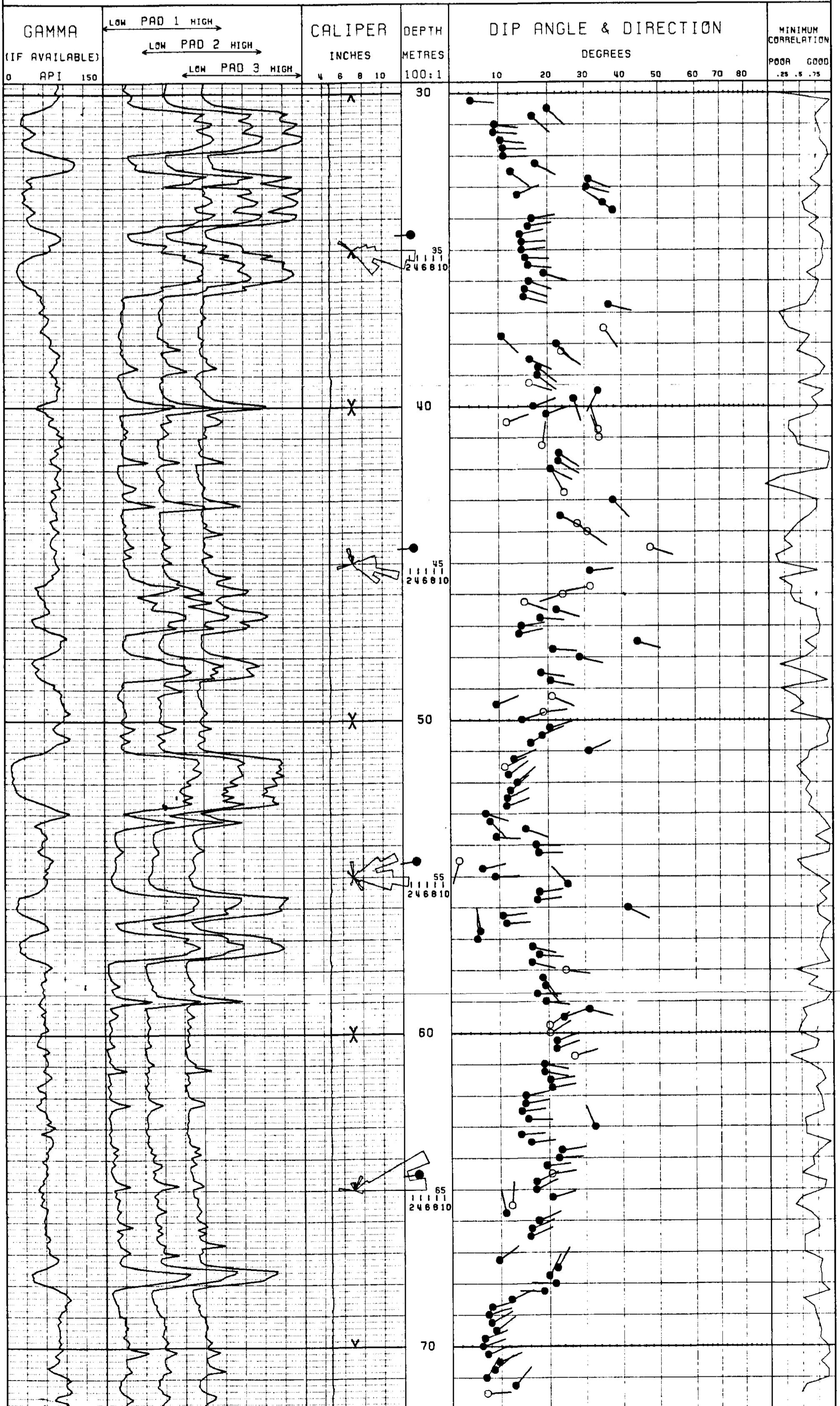
STEP 0.25M. DECLINATION 26.0 EAST
INTERVAL 0.50M. DEPTH RANGE 29.64 - 72.00M.
SEARCH ANGLE 45. DATE PROCESSED 20-OCT-89

AVERAGE BOREHOLE DEVIATION & DIRECTION
ANNOTATED EVERY 10.0M.

LEGEND:

- GOOD (>0.50)
- FAIR (>0.30)

ROSE DIAGRAMS SEGMENTED EVERY TEN DEGREES.
.1" RADIUS PER DIP MARKER DISPLAYED





STICK PLOT

CLIENT _____
BOREHOLE _____
AREA _____
COUNTRY _____

CROWSNEST RESOURCES
TW-910 (2)
TELKWA
CANADA

755

DATE LOGGED : 17-OCT-89



COMMENTS.....

INTERPRETATION PARAMETERS

STEP 0.25M.
INTERVAL 0.50M.
SEARCH ANGLE 45.

DECLINATION 26.0 EAST
DEPTH RANGE 29.64 - 72.00M.
DATE PROCESSED 20-OCT-89

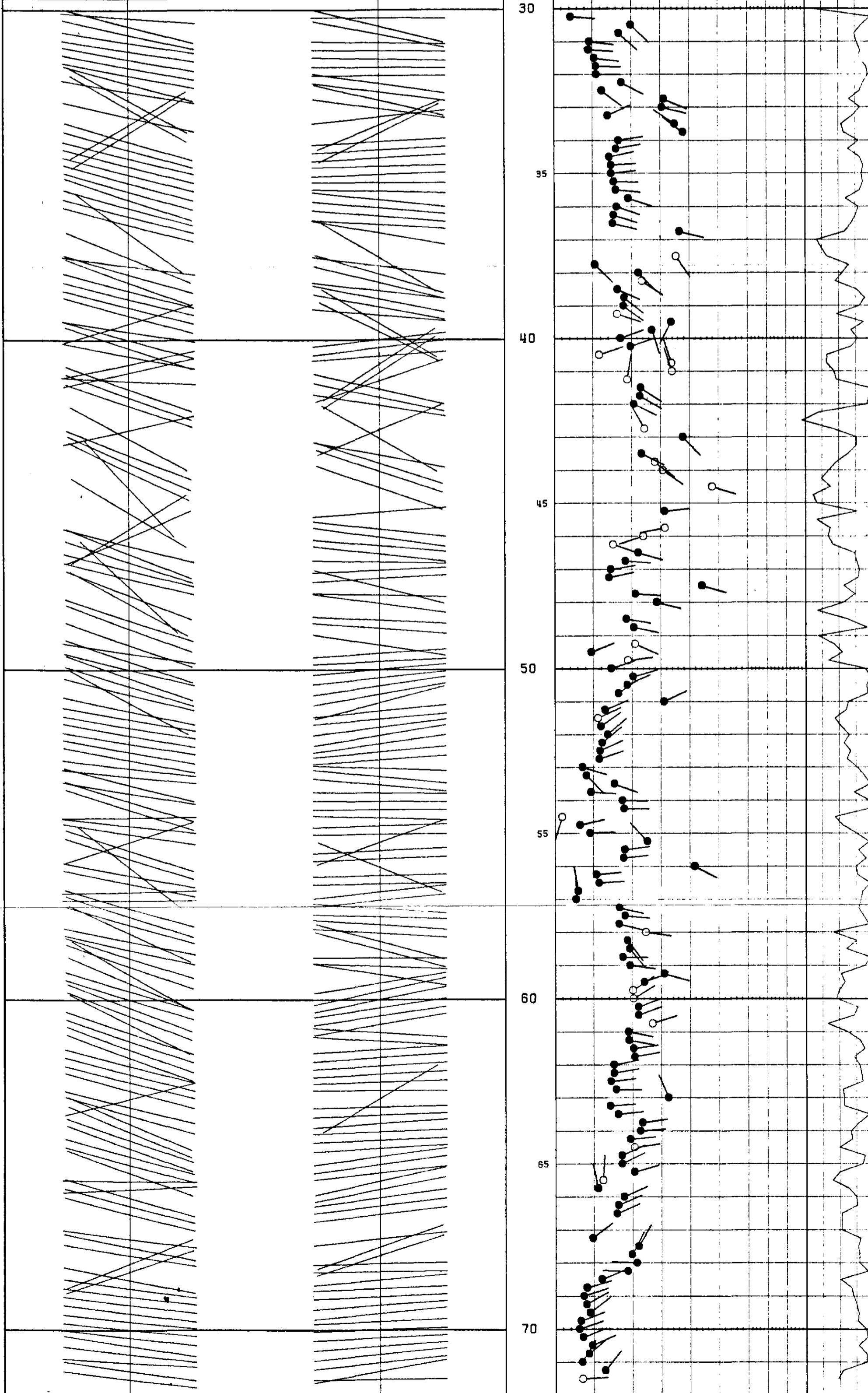
LEGEND:

● GOOD (>0.50)
○ FAIR (>0.30)

VERTICAL SECTIONS

270 90 DEGREES 0 180

DEPTH METRES 100:1
DIP ANGLE & DIRECTION DEGREES
MINIMUM CORRELATION POOR GOOD .25 .75





BOREHOLE TX-910
 CLIENT GROB'S L.P. RESOURCES

AREA TELRRA
 COUNTRY CANADA

DATE LOGGED SEP 17/89
 1 OF 4 LOGS

DEPTH SCALE
 1:100

COAL
LITHOLOGY
LOG

PREPARATION DATA
 EQUIPMENT OF P.D. BPB
 OPERATOR BPB
 LOGS RECORDED 1:100
 LOGS RECORDED 1:100
 CASING SIZE 1 7/8" (47.6)
 CASING SIZES 1 7/8" (47.6)
 CASING SIZES 1 7/8" (47.6)
 CASING SIZES 1 7/8" (47.6)

FLUID DATA
 WATER N/A
 OIL N/A
 GEL N/A
 VISCOSITY N/A
 BIT N/A

SONDE TYPE
 COAL COMBINATION
 SONDE
 LOG SUITE
 GAMMA RAY
 S DENSITY
 CALIPER

OPERATION DATA
 FIRST BEADING
 LAST BEADING
 INTERVAL LOGGED
 START TRACK NO.
 STOP TRACK NO.
 STOPMEN
 WITNESSES

EQUIPMENT AND RECORDING DATA

LOG	EQUIPMENT		TAPING		PANEL		CAL COEFF	DEPTHS		SEAM LOG RUN		
	SONDE	SOURCE	LOG TAPED	RECORD SPEED	DIRECT OF REPLAY	SPEED		T.C. SECS	FROM		TO	
GAMMA RAY S DENSITY CALIPER	15S	251	Y	9/3	D	9/3	2/1	1.65	93	00	93m	Y
		3995	Y	9/3	D	9/3	1/3	7.08	94	01	93m	Y
		8" 3"	Y	9/3	D	9/3	2/3	1.0	94	01	93m	Y

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

FROM	TO	INTERVAL	SEAM LOG RUN
70	59	38	
66	45	29	
06m	14m	09m	
			INTERVAL TOTAL = 27m

ADDITIONAL SONDES RUN

SONDE	LOG	GENERAL SCALE LOG	DETAIL SCALE LOG	REFER TO ADDITIONAL HEADINGS
219	N-N	1:100		
233/23	DIP			

REMARKS

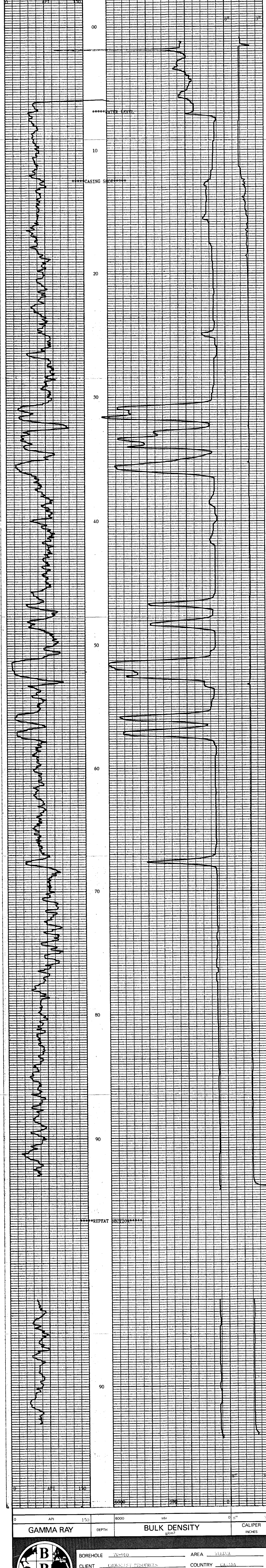
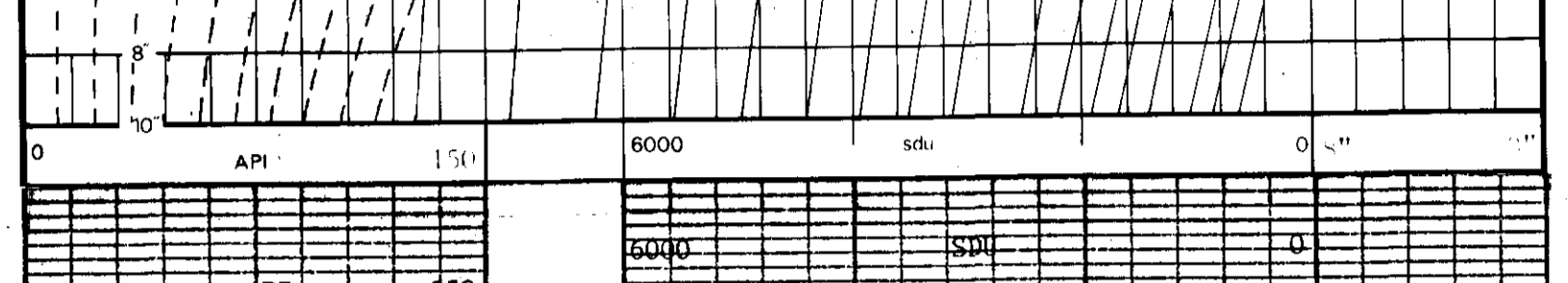
BPB COAL LITHOLOGY LOG

CALIBRATION DATA

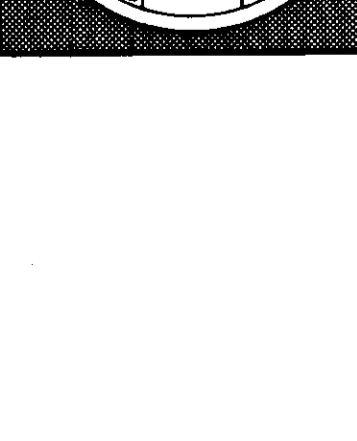
JIG No 251 VALUE 33 @ 0.5" DIAM JIG CAL DATE 89/10/89 JIG VALUE 4821 SDU @ 1.0g/cm³ 8" ins 716 cps
 JIG MARK SHOWN AT ABOVE VALUE - JIG No 3995 SPAN 6000 NORM 888 = 7.08 3" ins 460 cps

GAMMA RAY DEPTH BULK DENSITY g/cm³ CALIPER INCHES

HOLE SIZE CORRECTION DATA



GAMMA RAY DEPTH BULK DENSITY g/cm³ CALIPER INCHES



BOREHOLE TX-910 AREA TELRRA
 CLIENT GROB'S L.P. RESOURCES COUNTRY CANADA

COAL LITHOLOGY LOG

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GAMBIA RAY
LONG SPACED NEUTRON

BOREHOLE TR-910
CLIENT CRONSMEST RESOURCES

AREA TELUKA
COUNTRY CANADA
DATE LOGGED JUL 17/80

DEPTH SCALE
1:1000

2 OF 4 LOGS

BOREHOLE DATA REFER TO LITHOLOGY LOG

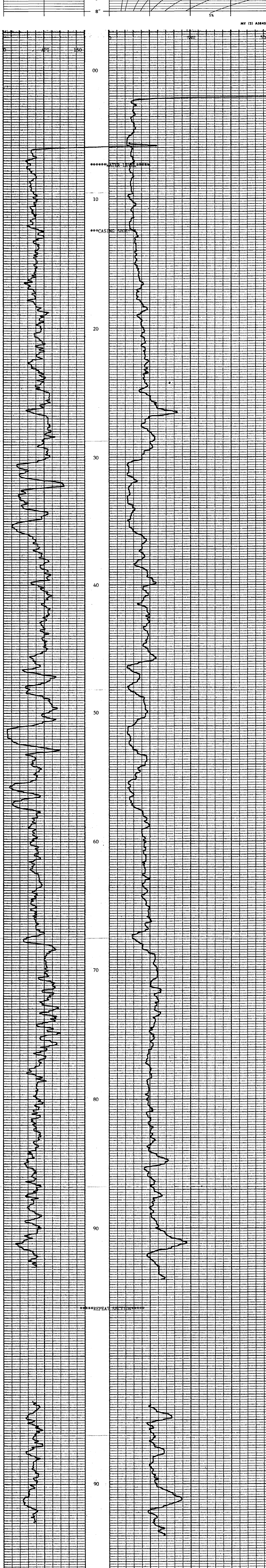
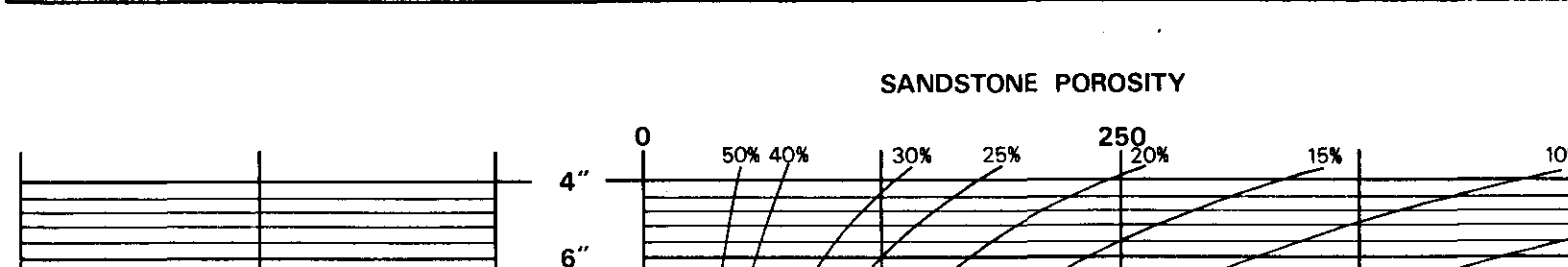
OPERATION DATA REFER TO LITHOLOGY LOG

EQUIPMENT AND RECORDING DATA

LOG	TAPPING	PANEL	DATE
GAMMA	Y	R	9 1 1-83
NEUTRON	Y	D	9 1 7-85
SCALE NO. 219 NO. 4512			

REMARKS

GAMBIA RAY	DEPTH	LONG SPACED NEUTRON
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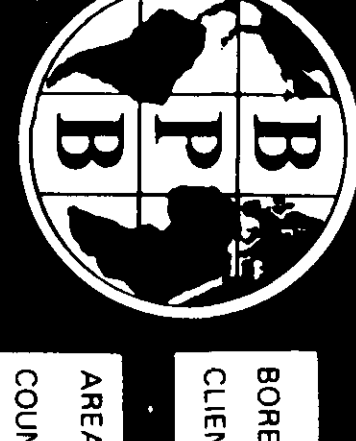


GAMBIA RAY	DEPTH	LONG SPACED NEUTRON
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BOREHOLE TR-910 AREA TELUKA
CLIENT CRONSMEST RESOURCES COUNTRY CANADA



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BOREHOLE TX-910
 CLIENT CROWNEST RESOURCES

AREA TELAMA
 COUNTRY CANADA
 DATE LOGGED JUL 17/89

DEPTH SCALE 1:20
 1 OF 4 LOGS

COAL QUALITY LOG

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

COAL COMBINATION SONDE
 LOG TAPPING SERIAL POSITION
 CHAIN Y 1 3 R 3 2 1
 OBSERV Y 3 R 3 1 7 (05)
 SOURCE SONDE AND CALIBRATION
 REFER TO LITHOLOGY LOG

SONDE TYPE:
 COAL
 COAL QUALITY LOG INTERVALS

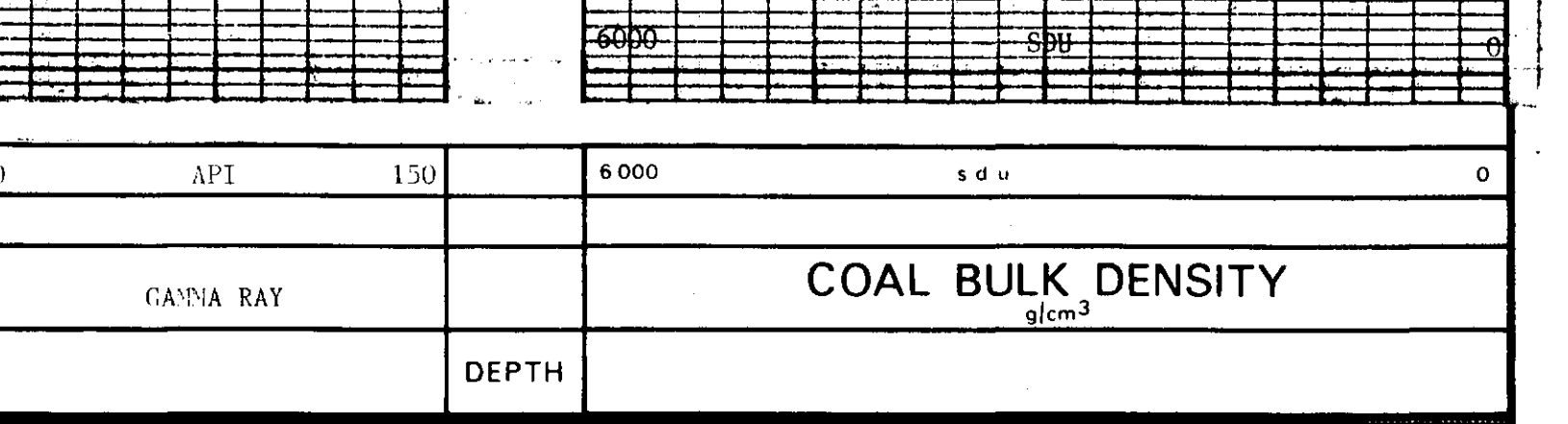
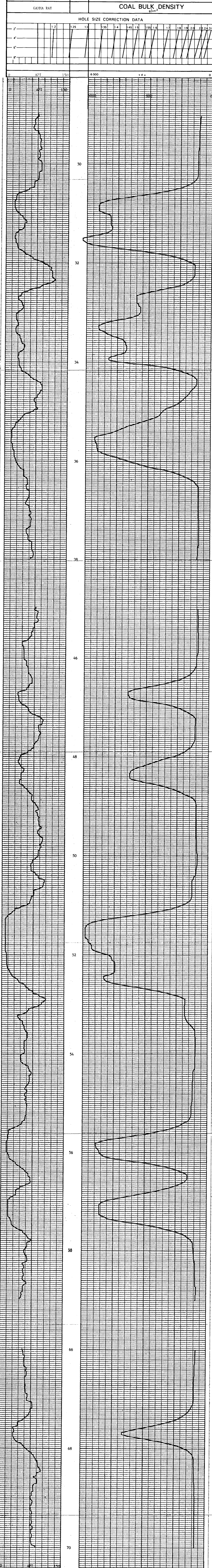
COMBINATION SONDE
 FROM 70 50 38
 TO 66 45 29
 INTERVAL 14m 14m 09m

LOG SUITE
 GAMMA RAY
 U.S. DENSITY

REMARKS

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B P B COAL QUALITY LOG



BOREHOLE TX-910 AREA TELAMA
 CLIENT CROWNEST RESOURCES COUNTRY CANADA
COAL QUALITY LOG





BOREHOLE TV-910
CLIENT CROWNSNEST RESOURCES

AREA TELKWA
COUNTRY CANADA
DATE LOGGED OCT 17/99

DEPTH SCALE
1:20

4 of 4 LOGS

SEAM THICKNESS LOG

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

COAL COMBINATION SONDE
LOG

TAPPING PANEL
LOG SPEED SECS NOMM
CALIPER Y 3 R 3 .3 1.0

SONDE TYPE
COAL COMBINATION SONDE

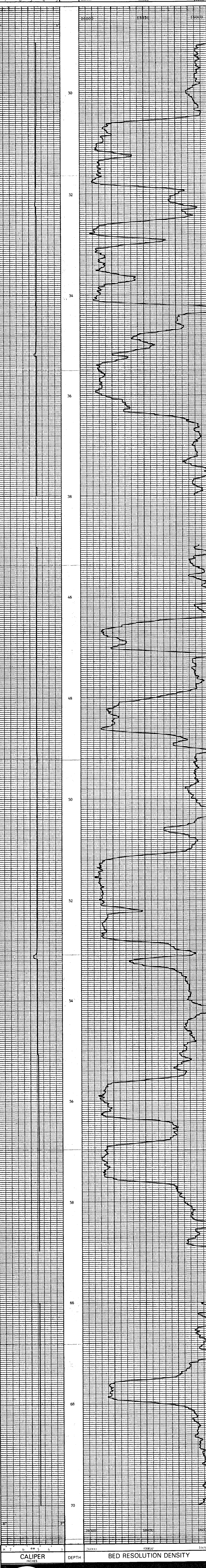
SEAM THICKNESS LOG INTERVALS

FROM 70 59 38
TO 66 45 29
INTERVAL 0.4m 1.4m 0.9m

LOG SUITE
CALIPER
BR DENSITY

REFER TO LITHOLOGY LOG

B P B SEAM THICKNESS LOG



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DIPMETER ANALYSIS

CLIENT _____
 BOREHOLE _____
 AREA _____
 COUNTRY _____

CROWSNEST RESOURCES
 TW-911 ①
 TELKWA
 CANADA

755

DATE LOGGED.....18-OCT-89
 DATE PROCESSED..27-OCT-89



COMMENTS.....

INTERPRETATION PARAMETERS

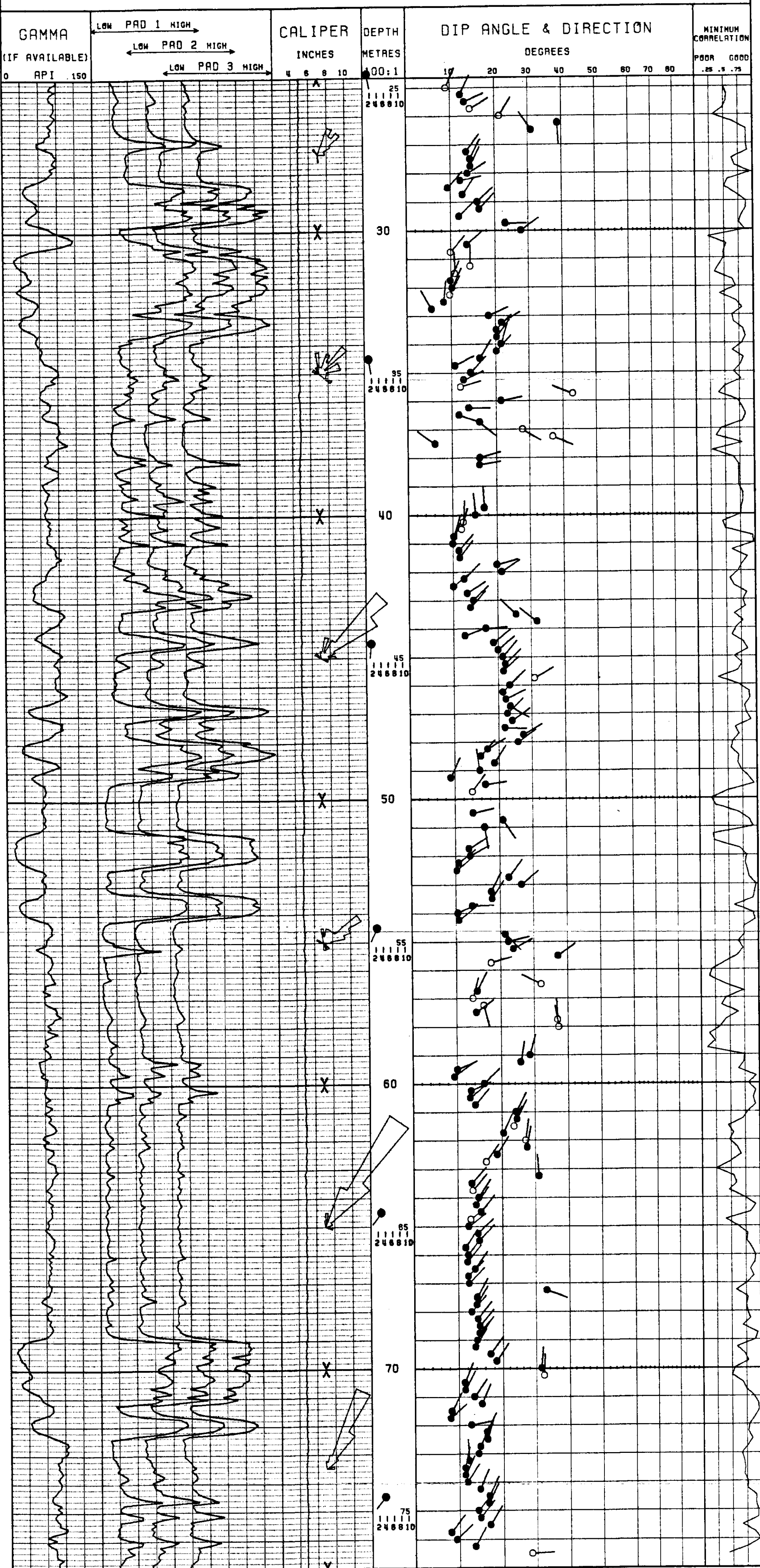
STEP 0.25M. DECLINATION 26.0 EAST
 INTERVAL 0.50M. DEPTH RANGE 24.64 - 77.00M.
 SEARCH ANGLE 45. DATE PROCESSED 27-OCT-89

AVERAGE BOREHOLE DEVIATION & DIRECTION
 ANNOTATED EVERY 10.0M.

LEGEND:

● GOOD (>0.50)
 ○ FAIR (>0.30)

ROSE DIAGRAMS SEGMENTED EVERY TEN DEGREES,
 .1" RADIUS PER DIP MARKER DISPLAYED





STICK PLOT

CLIENT _____
BOREHOLE _____
AREA _____
COUNTRY _____

CROWSNEST RESOURCES
TW-911 (2)
TELKWA
CANADA

DATE LOGGED : 18-OCT-89

755



COMMENTS.....

INTERPRETATION PARAMETERS

STEP 0.25M.
INTERVAL 0.50M.
SEARCH ANGLE 45.

DECLINATION 26.0 EAST
DEPTH RANGE 24.64 - 77.00M.
DATE PROCESSED 27-OCT-89

LEGEND:
● GOOD (>0.50)
○ FAIR (>0.30)

VERTICAL SECTIONS

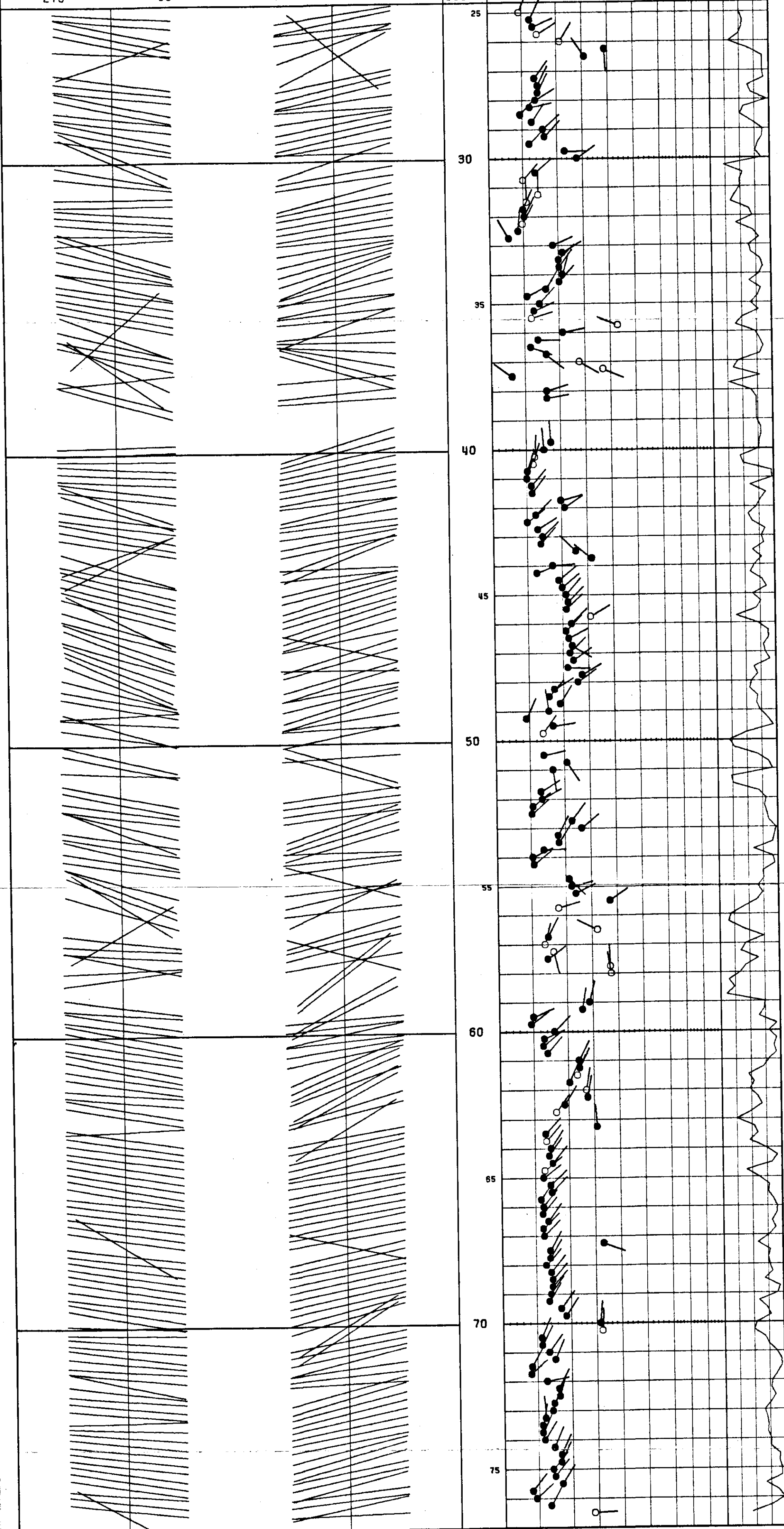
270 90 DEGREES 0 180

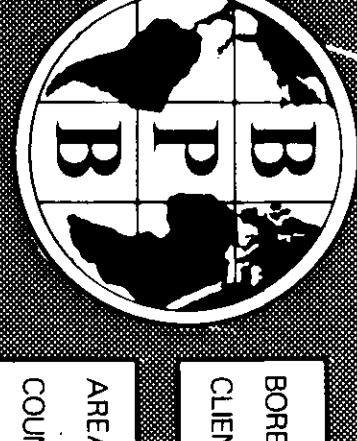
DEPTH METRES 100:1

DIP ANGLE & DIRECTION

DEGREES 10 20 30 40 50 60 70 80

MINIMUM CORRELATION POOR GOOD .25 .5 .75





BOREHOLE 911 3
 CLIENT GROSSMIST RESOURCES

AREA TRUCKEE
 COUNTRY CANADA
 DATE LOGGED 11/11/03
 DEPTH SCALE 1:100
 LOSS 1 OF 4 LOGS

COAL

LITHOLOGY LOG

LOG

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

BOREHOLE DATA

FORMATION DATA: _____
 ELEVATION FID: _____
 MGS/BRNNS/STW/M: _____
 DEPTH REACHED: _____
 CASING SIZE: _____
 CASING SIZES: _____
 FLUID DATA: _____

NATURE: _____
 LOG TAPED: _____
 RECORD SPEED: _____
 DIRECT OF REPLAY: _____
 SPEED: _____
 PANEL: _____
 T.C SECS: _____
 CAL COEFF: _____
 DEPTHS: _____
 SEAM LOG RUN: _____

EQUIPMENT AND RECORDING DATA

LOG	EQUIPMENT		LOG TAPED	RECORD SPEED	DIRECT OF REPLAY	SPEED	PANEL	T.C SECS	CAL COEFF	DEPTHS			SEAM LOG RUN
	SONDE	SOURCE								CAILBRATOR	FROM	TO	
GAMMA RAY	15K	251	Y	9/2	D	6/3	2/1	--	1.62	93	00	93m	Y
DENSITY	5	3095	Y	9/3	D	6/3	1/2	3	7.105	94	01	93m	Y
CALIBER	SIDEWALL POSITION	8" 3"	Y	9/3	D	6/3	3	--	1.0	94	01	93m	Y

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

FROM	TO	INTERVAL	INTERVAL TOTAL
74	55	35	11
67	40	26	04
07m	15m	09m	07m
			35m

ADDITIONAL SONDES RUN

SONDE	LOG	GENERAL SCALE LOG	DETAIL SCALE LOG	REFER TO ADDITIONAL HEADINGS
219	A-S	1:100		
233/23	DIP			

REMARKS

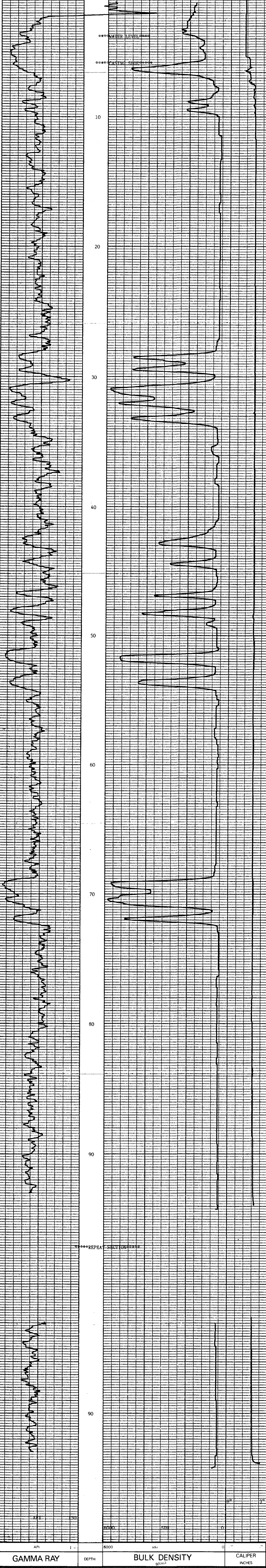
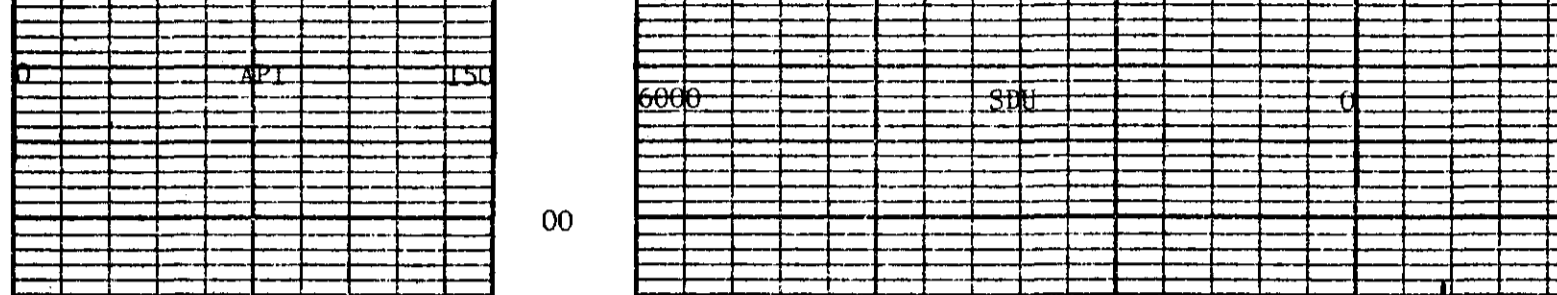
BPB COAL LITHOLOGY LOG

CALIBRATION DATA

JIG No. 251 VALUE 332 @ 1.15 DIAM JIG CAL DATE 29/10/03 JIG VALUE 4.777 SDU @ 1.11 g/cm³ 2.1" ins 76.1 cps
 JIG MARK SHOWN AT ABOVE VALUE - JIG No. 3095 SPAN 4.000 NORM 500 CPS = 7.115 3" ins 458 cps

GAMMA RAY DEPTH BULK DENSITY g/cm³ CALIBER INCHES

HOLE SIZE CORRECTION DATA

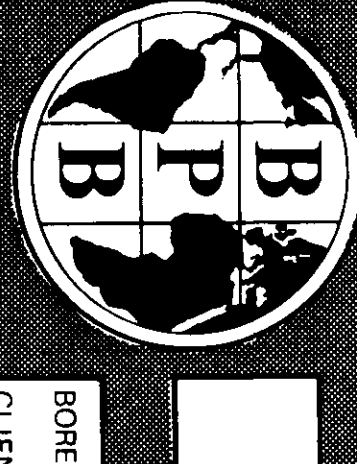


GAMMA RAY DEPTH BULK DENSITY g/cm³ CALIBER INCHES

BOREHOLE 911 AREA TRUCKEE
 CLIENT GROSSMIST RESOURCES COUNTRY CANADA

COAL LITHOLOGY LOG

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GABNA RAY
LONG SPACED NEUTRON

BOREHOLE TW-911 4
CLIENT CROWNSTOCK RESOURCES

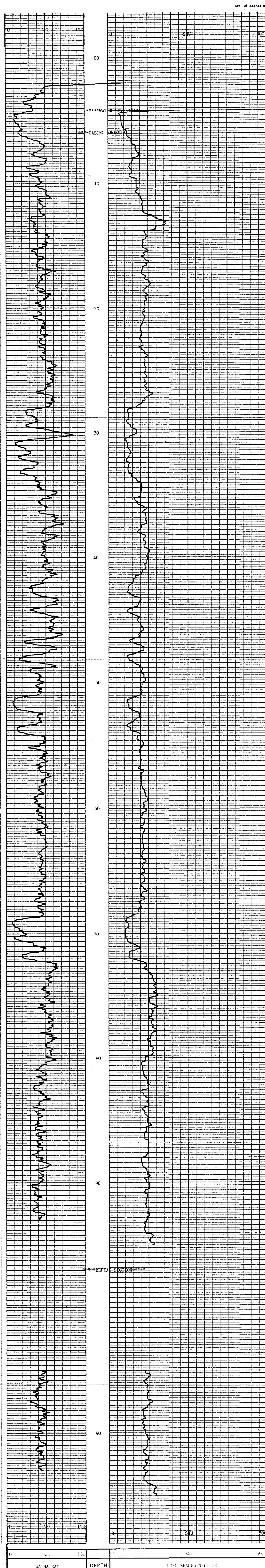
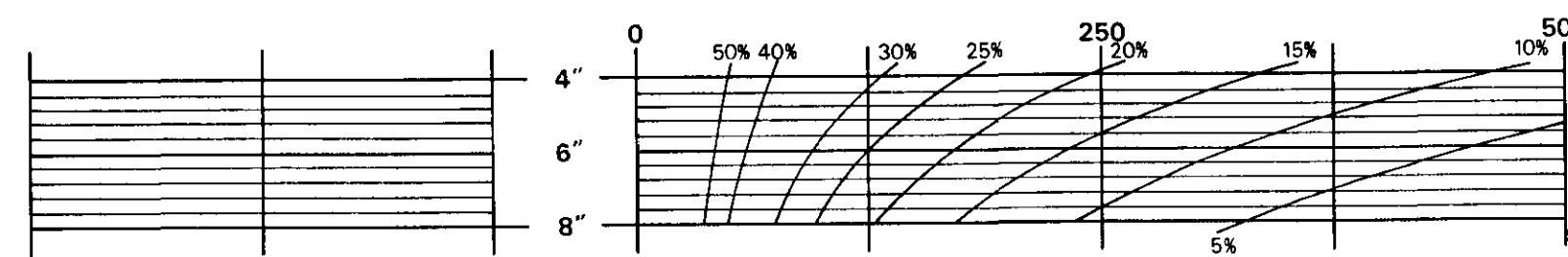
AREA TELLENA
COUNTRY CANADA
DATE LOGGED WMT 15/2/89

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

EQUIPMENT AND RECORDING DATA

LOG TYPING PANEL
GABNA Y 3 R 3 2
NEUTRON Y 9 D 9 1 7.95
SCALE 158 1000 4.113
REMARKS

0	DEPTH	LONG SPACED NEUTRON
0	API	150

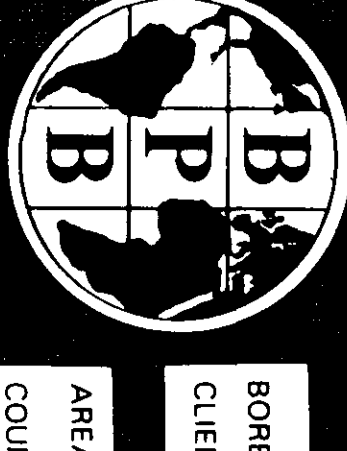


0	DEPTH	LONG SPACED NEUTRON
0	API	150
0	SMU	300

BOREHOLE TW-911
CLIENT CROWNSTOCK RESOURCES
AREA TELLENA
COUNTRY CANADA



755



BOREHOLE T-91
 CLIENT CROKSWEST BIOFUELS

AREA TITILEA
 COUNTRY CANADA
 DATE LOGGED 14/1/2019

DIPY SCALE
 1:10
 1 OF 4 LOGS

COAL QUALITY LOG

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

SONDE TYPE

COAL QUALITY LOG INTERVALS
 FROM 7/2 TO 7/2 1/1
 TO 0/2 TO 0/2 1/6
 INTERVAL 1/1m 1/1m 1/1m 1/1m
 FROM 7/2 TO 0/2
 INTERVAL 1/1m
 TOTAL
 NUMBER

COAL QUALITY LOG INTERVALS

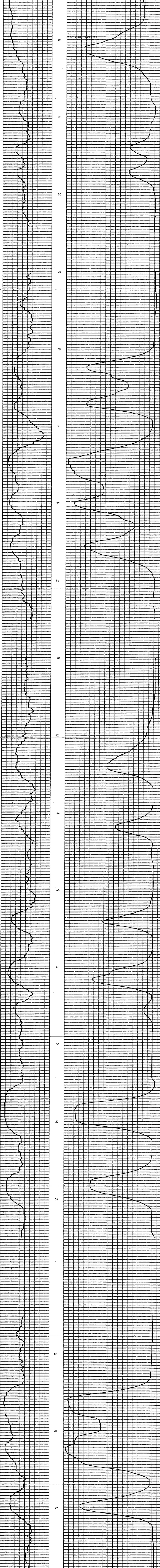
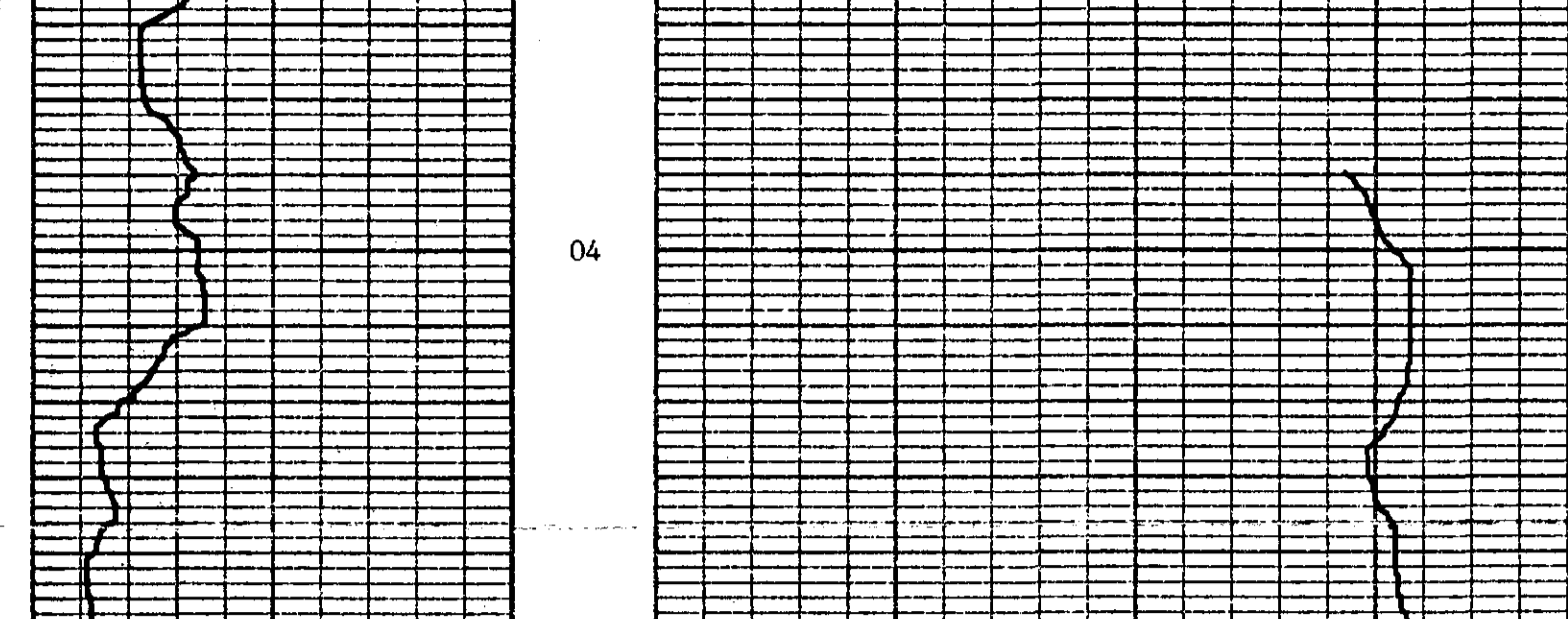
FROM 7/2 TO 7/2 1/1
 TO 0/2 TO 0/2 1/6
 INTERVAL 1/1m 1/1m 1/1m 1/1m
 FROM 7/2 TO 0/2
 INTERVAL 1/1m
 TOTAL
 NUMBER

755

B P B COAL QUALITY LOG

DEPTH COAL BULK DENSITY g/cm^3

HOLE SIZE CORRECTION DATA



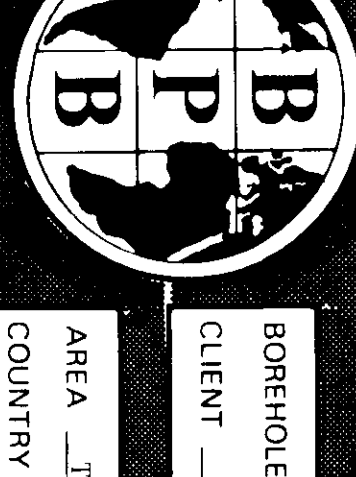
DEPTH COAL BULK DENSITY g/cm^3

GAMMA RAY

DEPTH



BOREHOLE T-91
 CLIENT CROKSWEST BIOFUELS
 AREA TITILEA
 COUNTRY CANADA
COAL QUALITY LOG



BOREHOLE TR-911
 CLIENT CRANFEST RESOURCES

AREA THUKA
 COUNTRY CANADA
 DATE LOGGED OCT 18, 2002

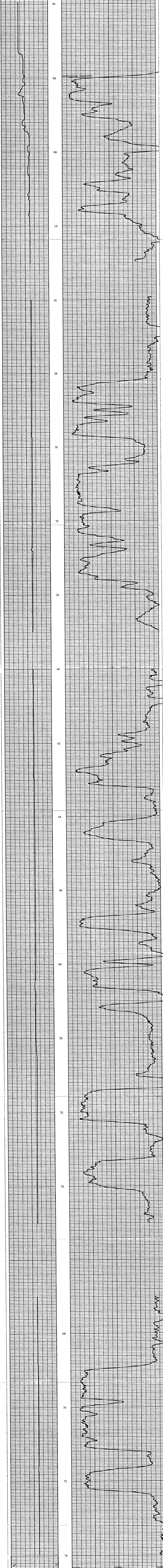
SEAM THICKNESS LOG

LOG

SEAM THICKNESS LOG INTERVALS
 FROM 72 55 15 11
 TO 67 40 20 16
 INTERVAL (1/2) 1.5m 0.9m 0.7m
 LOG SUITE
 CALIPER
 B-H DENSITY

SEAM THICKNESS LOG INTERVALS
 FROM 72 55 15 11
 TO 67 40 20 16
 INTERVAL (1/2) 1.5m 0.9m 0.7m

B P B SEAM THICKNESS LOG



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SEAM THICKNESS LOG

BOREHOLE TR-911 AREA THUKA
 CLIENT CRANFEST RESOURCES COUNTRY CANADA





DIPMETER ANALYSIS

CLIENT _____
BOREHOLE _____
AREA _____
COUNTRY _____

CROWSNEST RESOURCES
TW-912 (1)
TELKWA
CANADA

755

DATE LOGGED.....19-OCT-89
DATE PROCESSED..27-OCT-89



COMMENTS.....

INTERPRETATION PARAMETERS

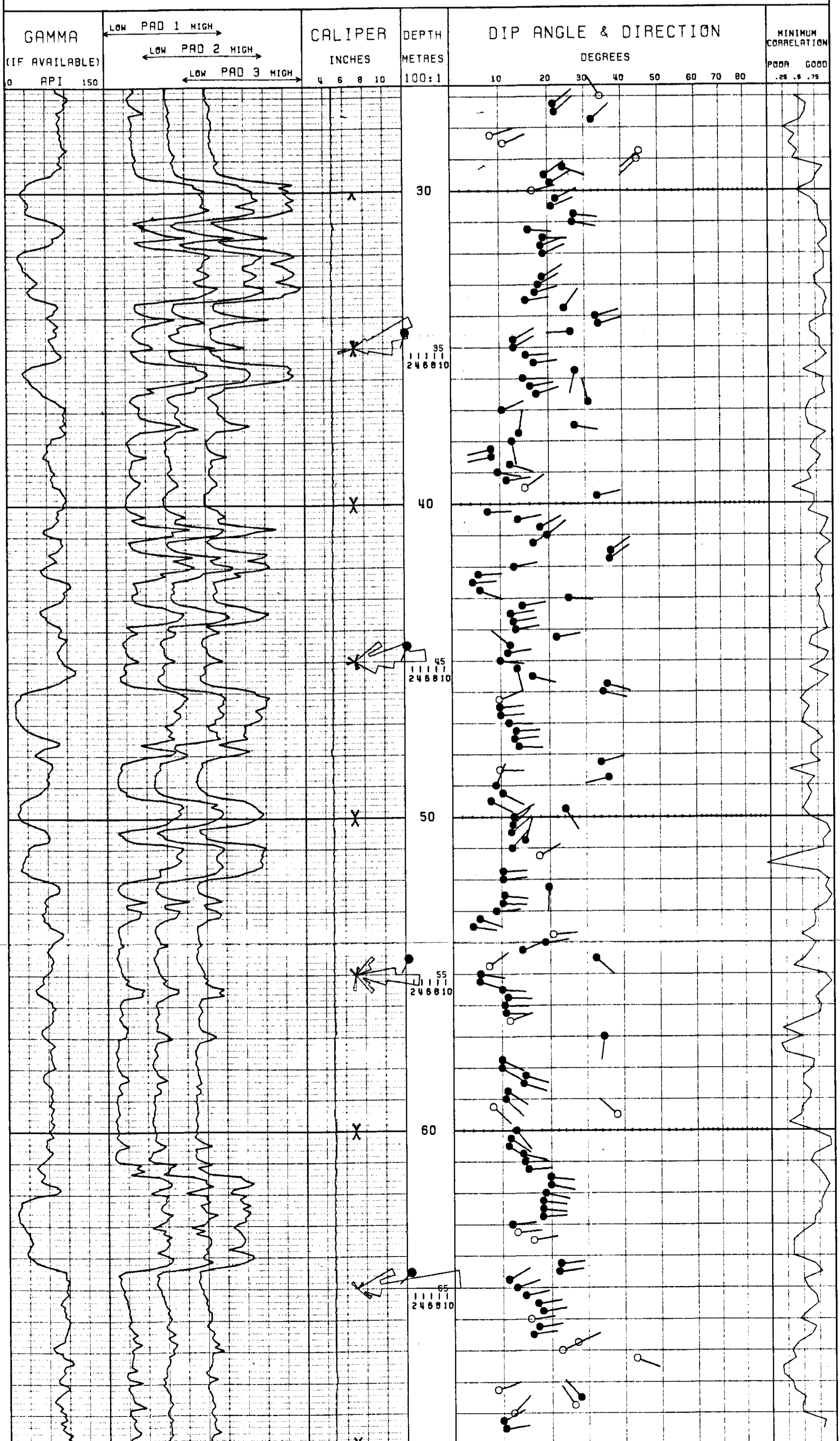
STEP 0.25M.
INTERVAL 0.50M.
SEARCH ANGLE 45.
DECLINATION 26.0 EAST
DEPTH RANGE 26.64 - 70.00M.
DATE PROCESSED 27-OCT-89

AVERAGE BOREHOLE DEVIATION & DIRECTION
ANNOTATED EVERY 10.0M.

ROSE DIAGRAMS SEGMENTED EVERY TEN DEGREES.
.1" RADIUS PER DIP MARKER DISPLAYED

LEGEND:

● GOOD (>0.50)
○ FAIR (>0.30)





BOREHOLE TR-912 (2)

CLIENT CROSSBEST RESOURCES

AREA TRUSNA

COUNTRY CANADA

DATE LOGGED JUL 19/89

DEPTH SCALE 1:100

OF 4 LOGS

BOREHOLE DATA

REMANENTATION N/A

ELEMENT OF P.D. BPB DRILLER

WAS REACHED 1.1

DEPTH REACHED 1.1

CASING SIZE 1.1

LOG SIZES 1 TO 2 TO 3 TO 4 TO

CASING SIZES 1 TO 2 TO 3 TO 4 TO

COAL LITHOLOGY LOG

SONDE TYPE: SONDE

COAL COMBINATION SONDE

LOG SUITE: GAMMA RAY
L.S. DENSITY
CALIPER

OPERATION DATA

FIRST READING 14.10m

LAST READING 14.10m

INTERVAL LOGGED 50.0m

UNIT TRACK NO. 1000

ENGINEER S. J. JONES

WITNESS S. J. JONES

EQUIPMENT AND RECORDING DATA

LOG	EQUIPMENT		TAPING		PANEL		CAL COEFF	DEPTHS		SEAM LOG RUN			
	SONDE	SOURCE	LOG TAPED	RECORD SPEED	DIRECT OF REPLAY	SPEED		TC SECS	NORM		FROM	TO	INTERVAL
GAMMA RAY	15H		Y	0/3	D	0/3	2/1	--	1.0	93	00	93m	Y
DENSITY			Y	0/3	D	0/3	1/3	7.0	0.4	01	01	93m	Y
CALIPER			Y	0/3	D	0/3	1.3	--	1.0	94	01	93m	Y

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

FROM	TO	INTERVAL	SEAM LOG RUN
66	55	12	
39	28	14	
INTERVAL	17m	27m	03m
			INTERVAL TOTAL
			42m

SONDE	LOG	GENERAL SCALE LOG	DETAIL SCALE LOG	REFER TO ADDITIONAL HEADINGS
219	S-N	1:100		
233/231	DIP			

BPB COAL LITHOLOGY LOG

CALIBRATION DATA

JIG No 251 VALUE 1.17(2) @ 15 DIAM

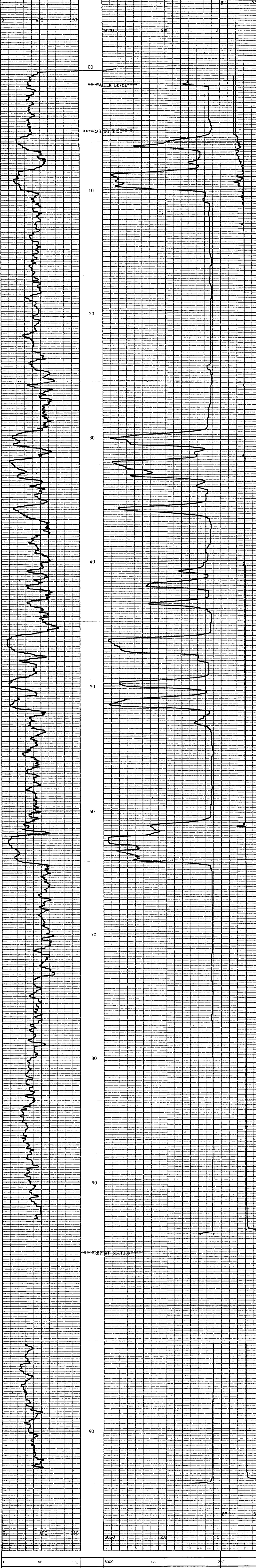
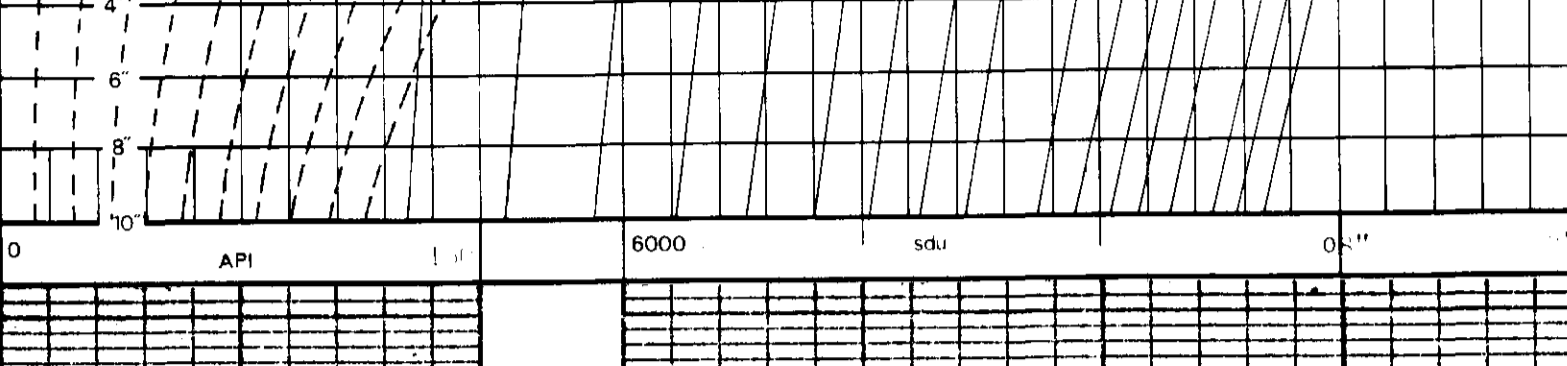
JIG CAL DATE 10/1/88 JIG VALUE 4.777 SDU @ 1.0 g/cm³ 2.1 ins 7.61 cps

JIG MARK SHOWN AT ABOVE VALUE -

JIG No 233/231 SPAN 0.1800 NORM SDU @ 7.0 g/cm³ 3.1 ins 4.5 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 TR-912 AREA TRUSNA

CLIENT CROSSBEST RESOURCES COUNTRY CANADA

COAL LITHOLOGY LOG

755





GAMBIA RAY
LONG SPACED NEUTRON

BOREHOLE TR-912
CLIENT CROWSNEST RESOURCES

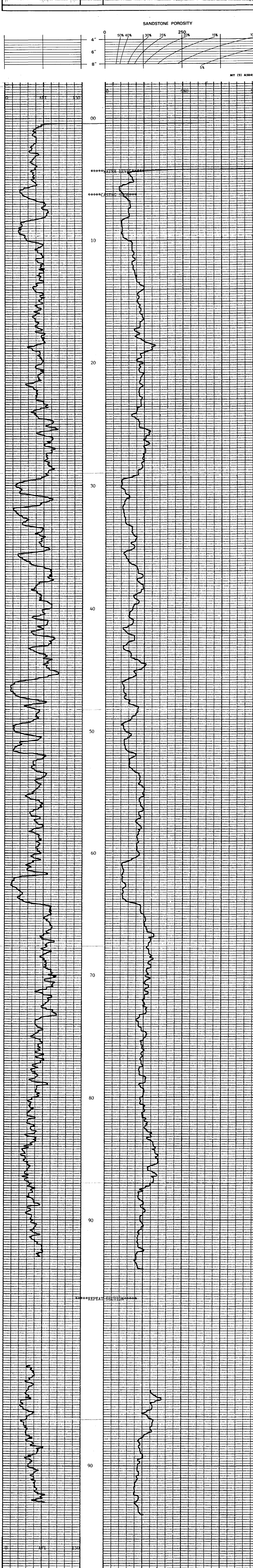
AREA TELKWA
COUNTRY CANADA
DATE LOGGED JUN 19/89

DEPTH SCALE
1:100

BOREHOLE DATA refer to LITHOLOGY LOG
OPERATION DATA refer to LITHOLOGY LOG
EQUIPMENT AND RECORDING DATA

LOG	TYPING	PANEL	DATE
LOG	RECORDING SPEED	SCALE	DATE
DATA	X	R	1
LITHO	X	D	1
	9	9	1
	1.5	7.5	
	30	150	
	210	1050	

DEPTH	LONG SPACED NEUTRON
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DEPTH	LONG SPACED NEUTRON
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BOREHOLE	TR-912	AREA	TELKWA
CLIENT	CROWSNEST RESOURCES	COUNTRY	CANADA



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BOREHOLE TR 912 (4)

CLIENT COALBURN RESOURCES

AREA WILKINA

COUNTRY AUSTRALIA

DATE LOGGED 11/20/01

DEPTH SCALE 1:100

LOG LOSS 0

BOREHOLE DATA REFR TO LITHOLOGY LOG

OPERATION DATA REFR TO LITHOLOGY LOG

EQUIPMENT AND RECORDING DATA

COAL QUALITY LOG

LOG NAME TR 912

LOG NO. 001

LOG DATE 11/20/01

LOG TIME 14:00

LOG LOCATION WILKINA

LOG SITE TR 912

LOG SURVEY TR 912

LOG SCALE 1:100

LOG LOSS 0

LOG TYPE COAL QUALITY

LOG NO. 001

LOG DATE 11/20/01

LOG TIME 14:00

LOG LOCATION WILKINA

LOG SITE TR 912

LOG SURVEY TR 912

LOG SCALE 1:100

LOG LOSS 0

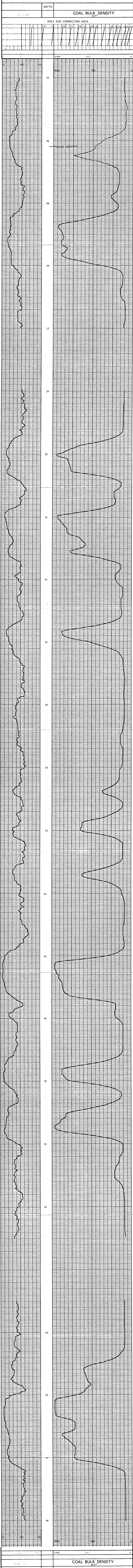
LOG TYPE COAL QUALITY

LOG NO. 001

LOG DATE 11/20/01

LOG TIME 14:00

LOG LOCATION WILKINA



COAL BULK DENSITY g/cm^3

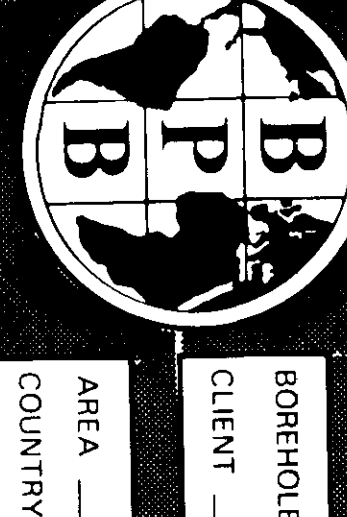
DEPTH

BOREHOLE TR 912 AREA WILKINA

CLIENT COALBURN RESOURCES COUNTRY AUSTRALIA

COAL QUALITY LOG

755



BOREHOLE TX-912
CLIENT CRESTEST RESOURCES

AREA TELKWA
COUNTRY CANADA
DATE LOGGED 07/13/99

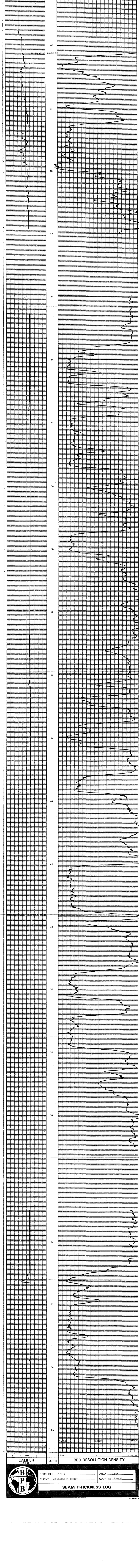
SEAM THICKNESS LOG

BOREHOLE DATA
OPERATION DATA
EQUIPMENT AND RECORDING DATA

SEAM THICKNESS LOG INTERVALS

LOG SUIITE
CALIPER
BR DENSITY

B P B SEAM THICKNESS LOG



CALIPER INCHES	DEPTH	BED RESOLUTION DENSITY
0.5	0	10000
0.5	2	10000
0.5	4	10000
0.5	6	10000
0.5	8	10000
0.5	10	10000
0.5	12	10000
0.5	14	10000
0.5	16	10000
0.5	18	10000
0.5	20	10000
0.5	22	10000
0.5	24	10000
0.5	26	10000
0.5	28	10000
0.5	30	10000
0.5	32	10000
0.5	34	10000
0.5	36	10000
0.5	38	10000
0.5	40	10000
0.5	42	10000
0.5	44	10000
0.5	46	10000
0.5	48	10000
0.5	50	10000
0.5	52	10000
0.5	54	10000
0.5	56	10000
0.5	58	10000
0.5	60	10000
0.5	62	10000
0.5	64	10000
0.5	66	10000

BOREHOLE TX-912
 CLIENT CRESTEST RESOURCES
 AREA TELKWA
 COUNTRY CANADA
SEAM THICKNESS LOG

755



STICK PLOT

CLIENT _____
BOREHOLE _____
AREA _____
COUNTRY _____

CROWSNEST RESOURCES
TW-912 (b)
TELKWA
CANADA

755

DATE LOGGED : 19-OCT-89



COMMENTS.....

INTERPRETATION PARAMETERS

STEP 0.25M.
INTERVAL 0.50M.
SEARCH ANGLE 45.

DECLINATION 26.0 EAST
DEPTH RANGE 26.64 - 70.00M.
DATE PROCESSED 27-OCT-89

LEGEND:
● GOOD (>0.50)
○ FAIR (>0.30)

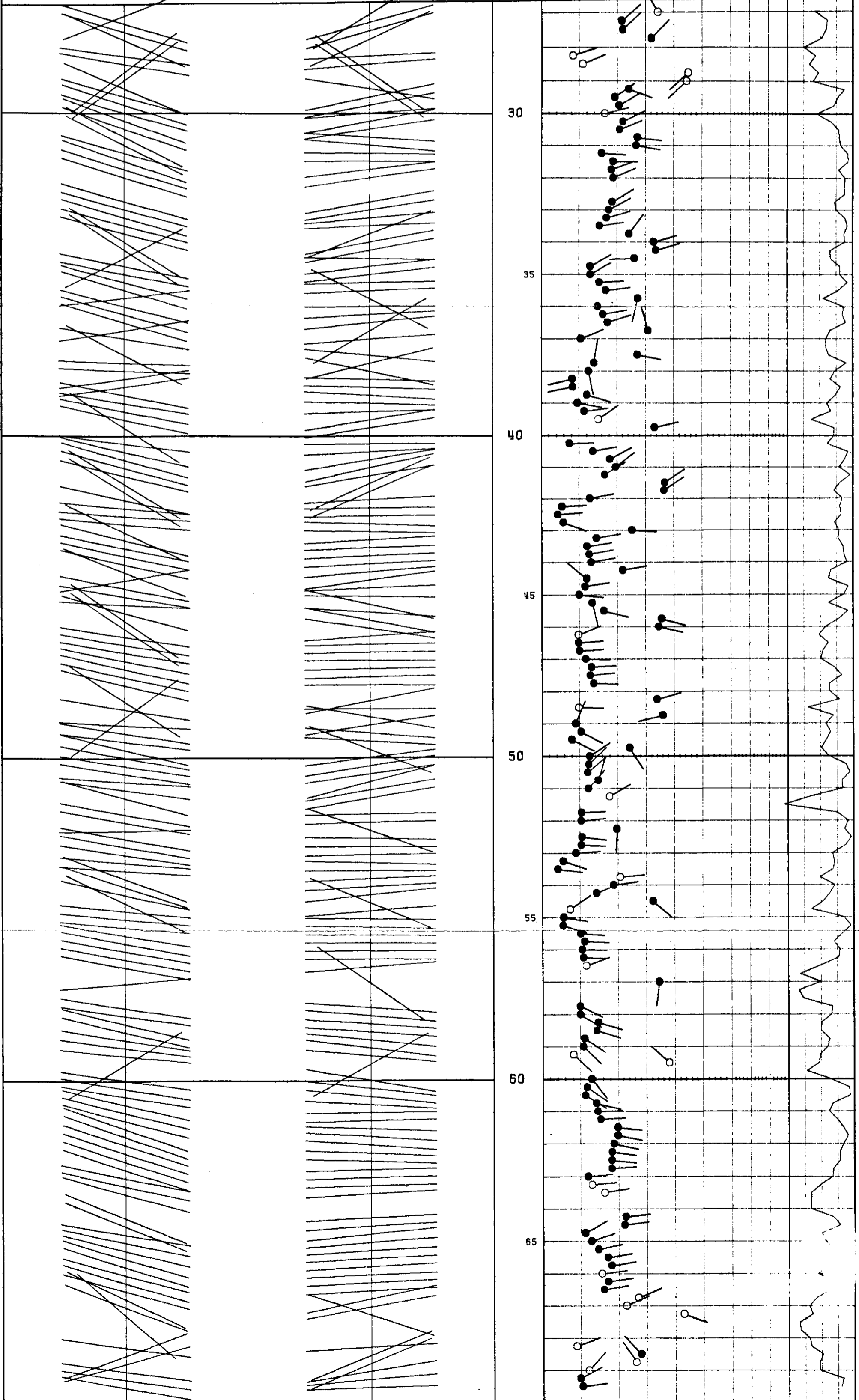
VERTICAL SECTIONS

270 90 DEGREES 0 180

DEPTH METRES 100:1

DIP ANGLE & DIRECTION DEGREES

MINIMUM CORRELATION POOR GOOD .25 .5 .75





DIPMETER ANALYSIS

CLIENT _____
BOREHOLE _____
AREA _____
COUNTRY _____

CROWSNEST RESOURCES
TW-913 ①
TELKWA
CANADA

DATE LOGGED... 20-OCT-89
DATE PROCESSED... 07-NOV-89

755



COMMENTS.....

INTERPRETATION PARAMETERS

STEP 0.25M.
INTERVAL 0.50M.
SEARCH ANGLE 45.

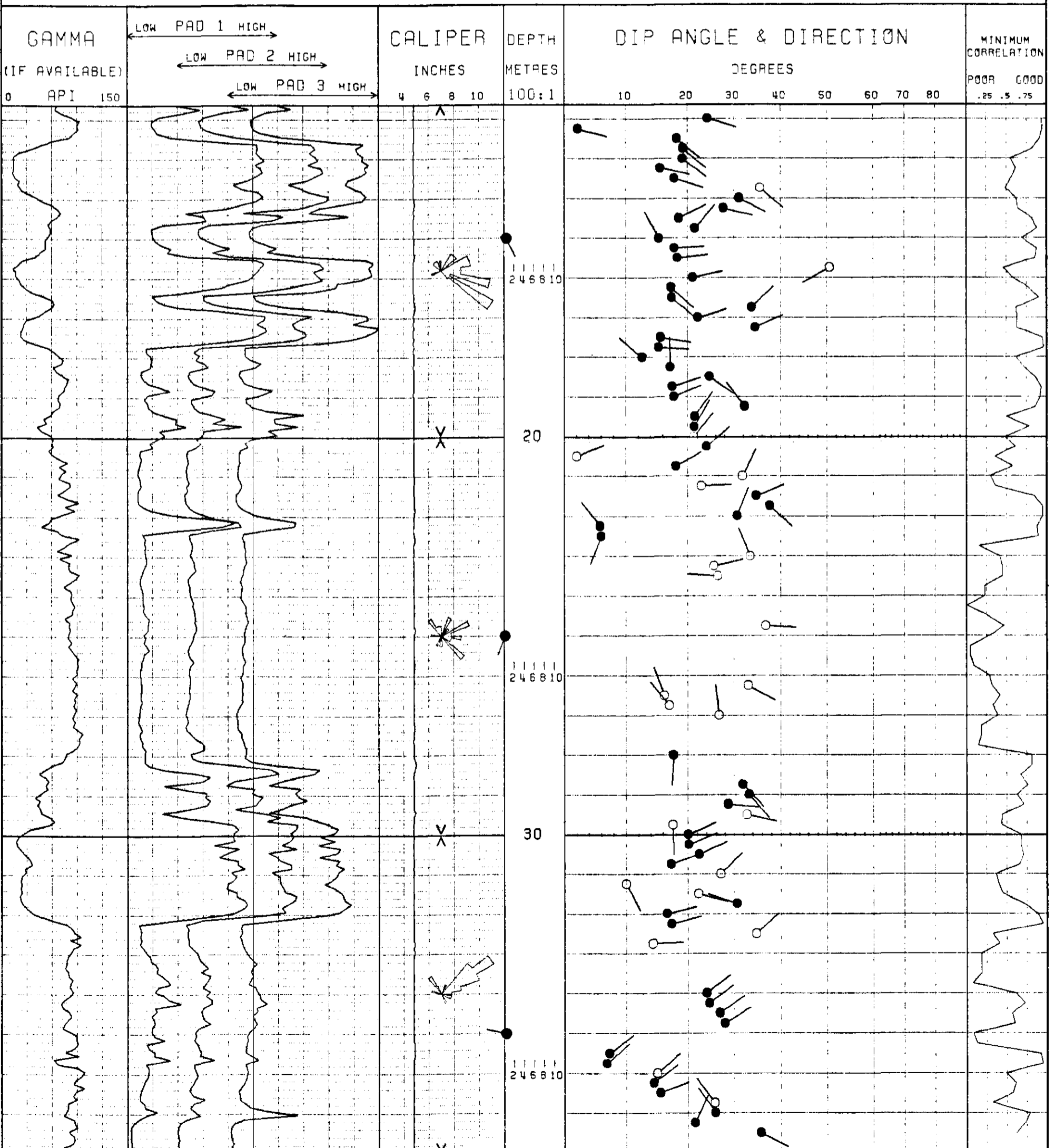
DECLINATION 26.0 EAST
DEPTH RANGE 11.64 - 38.00M.
DATE PROCESSED 07-NOV-89

AVERAGE BOREHOLE DEVIATION & DIRECTION
ANNOTATED EVERY 10.0M.

ROSE DIAGRAMS SEGMENTED EVERY TEN DEGREES,
.1" RADIUS PER DIP MARKER DISPLAYED

LEGEND:

- GOOD (>0.50)
- FAIR (>0.30)





STICK PLOT

CLIENT _____
BOREHOLE _____
AREA _____
COUNTRY _____

CROWSNEST RESOURCES
TW-913 (2)
TELKWA
CANADA

DATE LOGGED : 20-OCT-89

755



COMMENTS

INTERPRETATION PARAMETERS

STEP 0.25M.
INTERVAL 0.50M.
SEARCH ANGLE 45.

DECLINATION 26.0 EAST
DEPTH RANGE 11.64 - 38.00M.
DATE PROCESSED 13-JAN-88

LEGEND:
● GOOD (>0.50)
○ FAIR (>0.30)

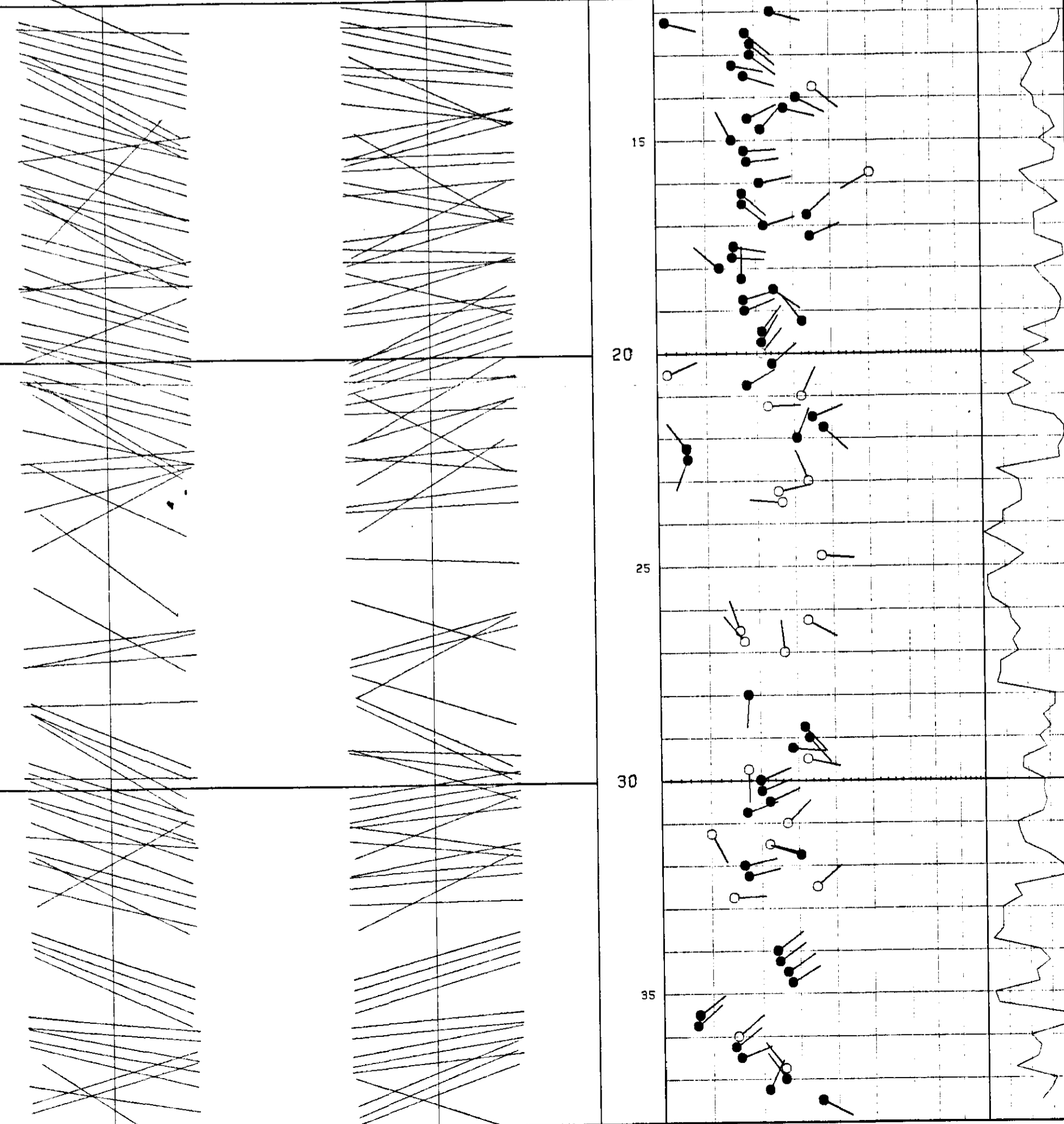
VERTICAL SECTIONS

DEPTH
METRES
100:1

DIP ANGLE & DIRECTION

MINIMUM
CORRELATION
POOR GOOD
.25 .5 .75

270 90 DEGREES 0 180





BOREHOLE TR-913
 CLIENT GROENEST RESOURCES

AREA TELUSA
 COUNTRY CANADA
 DATE LOGGED JULY 20/2009

DEPTH SCALE
 1:100
 1 of 4 LOGS

COAL

LITHOLOGY

LOG

BOREHOLE DATA

PERMANENT DATUM	GROUND LEVEL
ELEVATION OF P.D.	N/A
MEASUREMENTS FROM	DRILLER
DEPTH REACHED	61.1m
CASING SIZE	6.1m
BIT SIZES	1 5.0" TO 6.1m 2 4.75" TO 11 3 TO 4 TO 5 TO
CASING SIZES	1 TO 2 TO

FLUID DATA

NATURE	LIQUID
SG	1.40 G/G
COMBINATION	30/70
VISCOSITY	N/A
SONDE	Bit at meas temp

LOG SUITE:

GAMMA RAY	V7.1m
L.S. DENSITY	1.4m
CALIPER	4.7m
ENGINEER	B. S. JACOB
WITNESS	R. M. JACOB

OPERATION DATA	
FIRST READING	
LAST READING	
INTERNAL LOGGED	
UNIT-TRUCK No.	

755

EQUIPMENT AND RECORDING DATA

LOG	EQUIPMENT		TAPING			PANEL		CAL COEFF	DEPTHS		SEAM LOG RUN	
	SONDE	SOURCE	LOG TAPE	RECORD SPEED	DIRECT REPLAY	SPEED	T.C. SECS		FROM	TO		INTERVAL
GAMMA RAY	158	251	Y	9/3	D	9/3	2/1	1.63	61	00	61m	Y
L.S. DENSITY		3905	Y	9/3	D	9/3	1/3	7.08	62	01	61m	Y
CALIPER	SIDEWALL POSITION	8" 3"	Y	9/3	D	9/3	3	1.0	62	01	61m	Y

COAL QUALITY/SEAM THICKNESS LOG INTERVALS (Refer to relevant log)			
FROM	34	19	
TO	26	06	
INTERVAL	18m	13m	21m

ADDITIONAL SONDES RUN	REMARKS
SONDE LOG GENERAL SCALE LOG DETAIL SCALE LOG	
219 251 1:100	REFER TO ADDITIONAL HEADINGS
233/23 DIP	

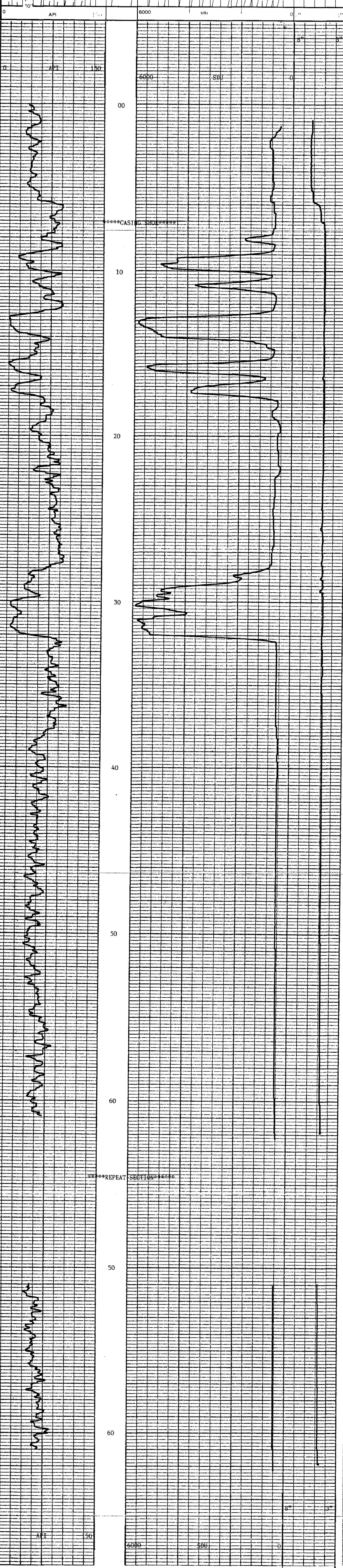
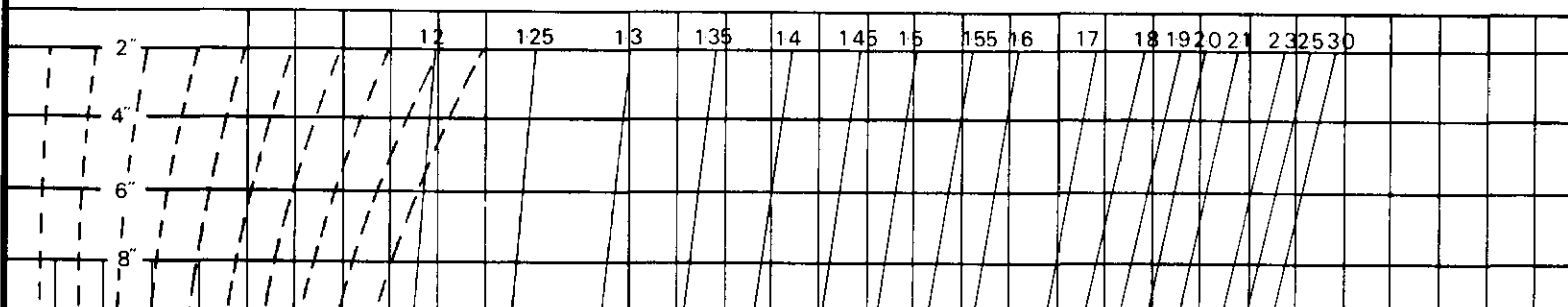
BPB COAL LITHOLOGY LOG

CALIBRATION DATA

JIG No. 251	VALUE 1.418 DIAM	JIG CAL DATE 20/10/18	JIG VALUE 4.777	SDU @ 1.0 g/cm ³	3.1" ins 7.11 cps
JIG MARK SHOWN AT ABOVE VALUE -		JIG No. 3905	SPAN 6.083	NORM 7.08	3.1" ins 7.54 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
-----------	-------	--------------------------------	----------------

BOREHOLE TR-913 AREA TELUSA
 CLIENT GROENEST RESOURCES COUNTRY CANADA

COAL LITHOLOGY LOG





GAMMA RAY
&
LONG SPACED NEUTRON

BOREHOLE TLK-913

CLIENT GROSNEST RESOURCES

4

AREA TELKWA

COUNTRY CANADA

DATE LOGGED OCT 20/89

DEPTH SCALE
1:1000

2 OF 4 LOGS

BOREHOLE DATA REFER TO LITHOLOGY LOG

OPERATION DATA REFER TO LITHOLOGY LOG

EQUIPMENT AND RECORDING DATA

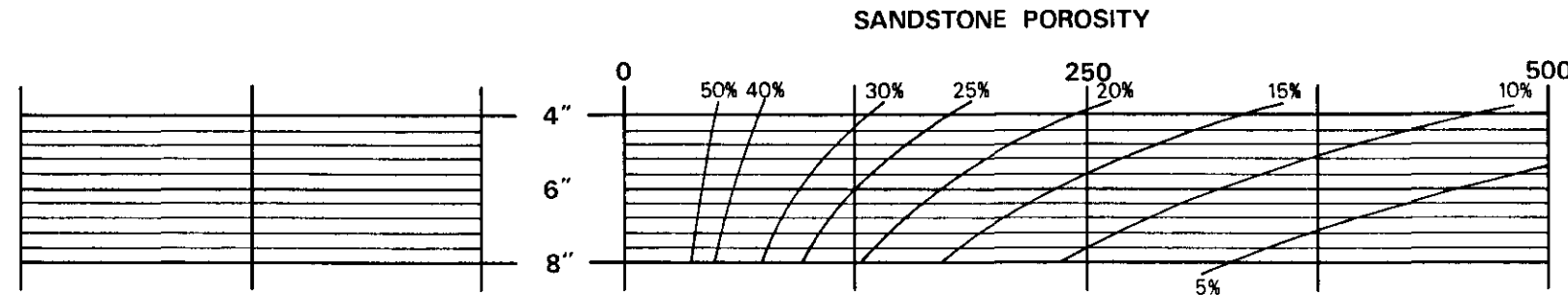
LOG	TAPING	PANEL	DATE
LOG	RECORDING	SPEED	NORM
LOG	TABLE	SECT	SECT
LITHOLOGY	Y	9	1
NEUTRON	Y	9	1
GAMMA	Y	9	1
SPD	1.38	SPD	1.03
SPD	210	SPD	4512

REMARKS

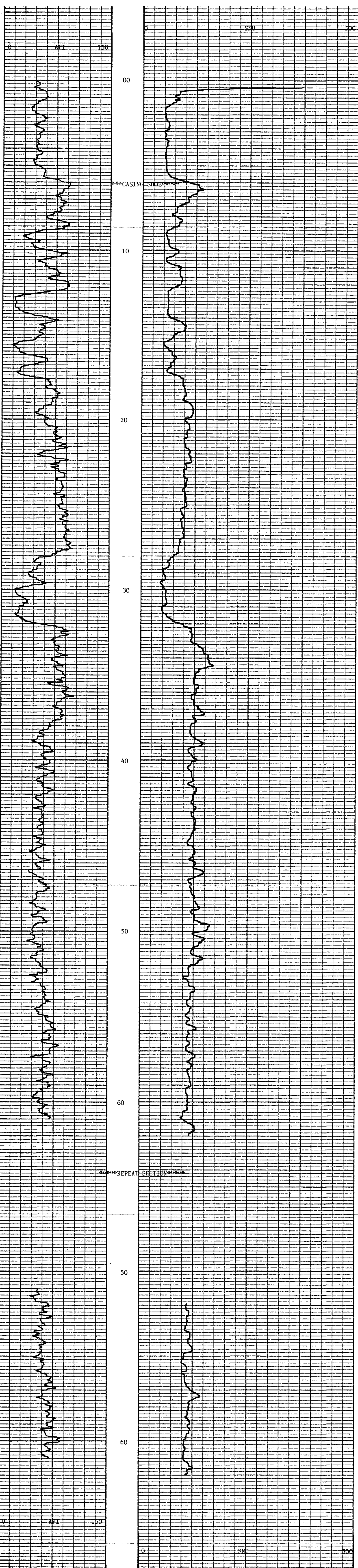
GAMMA RAY	DEPTH	LONG SPACED NEUTRON
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755

SANDSTONE POROSITY



MY (2) A58451 R



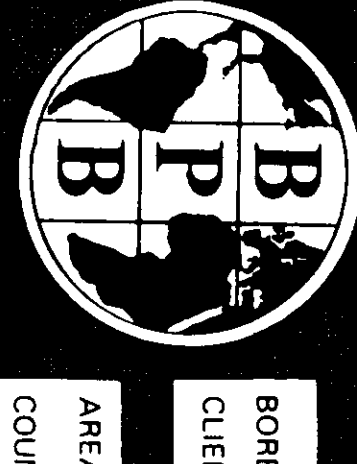
0	API	150	0	SMU	500
GAMMA RAY	DEPTH			LONG SPACED NEUTRON	



BOREHOLE TLK-913
CLIENT GROSNEST RESOURCES

AREA TELKWA
COUNTRY CANADA

MY 20081R



BOREHOLE TW-913
 CLIENT CROWNEST RESOURCES

AREA THIANA
 COUNTRY CANADA
 DATE LOGGED OCT 20/88

COAL QUALITY LOG

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

LOG

LOG TANG SENSITIVITY RANGE COIL
 LOG RECORDING SPEED SECS (MIN) 1.5 (1.5)
 GAMMA RAY Y 3 X 3 2 (1.5)
 SENSITIVITY Y 3 X 3 1 (7.08)
 SOURCE SONDE AND CALIBRATION
 REFER TO LITHOLOGY LOG

SONDE TYPE:

COAL COMBINATION SONDE

LOG SUITE:

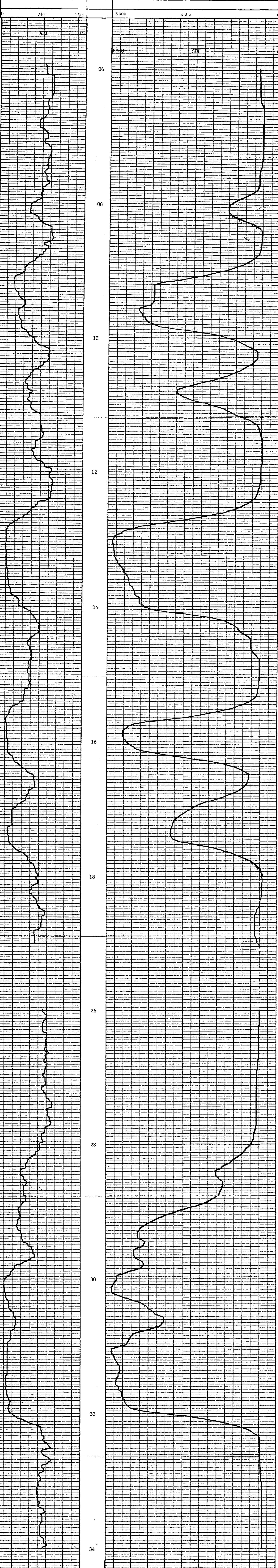
GAMMA RAY
 L.S. DENSITY

7555

BPB COAL QUALITY LOG

DEPTH	COAL BULK DENSITY
GAMMA RAY	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 3.0
4'	
6'	
8'	



API	150	6000	g/cm ³	0
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GAMMA RAY	DEPTH	COAL BULK DENSITY
		g/cm ³

COAL QUALITY LOG

BOREHOLE TW-913
 CLIENT CROWNEST RESOURCES
 AREA THIANA
 COUNTRY CANADA





BOREHOLE TK-913
 CLIENT CROSSNEST RESOURCES

AREA TELKWA
 COUNTRY CANADA
 DATE LOGGED ACT 20/09

DEPTH SCALE
 1:10
 F. OF 4 LOGS

SEAM THICKNESS LOG

SEAM THICKNESS LOG INTERVALS

SONDE TYPE
 COAL
 COMBINATION
 SONDE

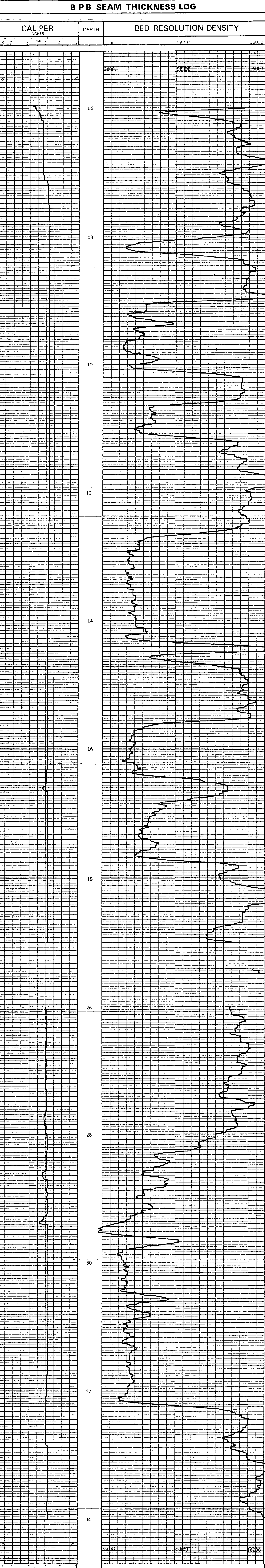
LOG SUITE
 CALIPER
 BR DENSITY

LOG TANKING
 LOG RECORDING SPEED
 LOG SPEED
 LOG SPEED
 LOG SPEED
 LOG SPEED

SEAM THICKNESS LOG INTERVALS

B P B SEAM THICKNESS LOG

CALIPER INCHES DEPTH BED RESOLUTION DENSITY



CALIPER INCHES DEPTH BED RESOLUTION DENSITY



BOREHOLE TK-913 AREA TELKWA
 CLIENT CROSSNEST RESOURCES COUNTRY CANADA

SEAM THICKNESS LOG

755



BOREHOLE 414
 CLIENT CROSSBERRY RESOURCES
 AREA THULEA
 COUNTRY CANADA
 DATE LOGGED 10/11/20

DEPTH SCALE
 1:1 (in)
 1 OF 2 LOGS

COAL
LITHOLOGY
LOG

BOREHOLE DATA
 PERMANENTLY (CHUCK) 1.17m
 ELEVATION OF P.D. 898 SVA ORIFER
 MASS/RAW/STOCK 6.11 6.11
 DEPTH REACHED 75.0m 75.0m
 CASING SHOPE 1.7.0m 1.7.0m
 BIT SIZES 1 4 TO 17.0m 2 1.7.0m TO 11.0
 3 TO TO
 CASING SIZES 1 1 TO 17.0m 2 TO

SONDE TYPE
COAL
COMBINATION
SONDE

OPERATION DATA
 NAME J.P. LEVY
 LABEL 25
 VISCOSITY 200
 FROM AIR PRESS TEMP N/A
 BIT N/A

LOG SUITE
GAMMA RAY
L.S DENSITY
CALIPER

OPERATION DATA
 FIRST READING 7.2
 LAST READING 4.4
 INTERVAL LOGGED 77.0m
 LAM-TRUCK No. 3000
 CASING 3.0m
 WITNESS W. S. SHER

755

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE				TAPING			PANEL		CAL. COEFF.		DEPTHS		SEAM LOG RUN		
LOG	SONDE	EQUIPMENT	CALIBRATOR	LOG TAPED	RECORD SPEED	DIRECT REPLAY	SPEED	T.C SECS	NORM	FROM	TO	INTERVAL			
GAMMA RAY	158		251	Y	9/3	D	9/3	2/1	--	1.67	76	00	70m	Y	
L.S DENSITY		3845	3995	Y	9/3	D	9/3	1.2	7.05	--	77	01	70m	Y	
CALIPER	SIDEWALL POSITION		8"	3"	Y	9/3	D	9/3	3	--	1.0	77	01	70m	Y

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
219	LS	1:1000		

REMARKS

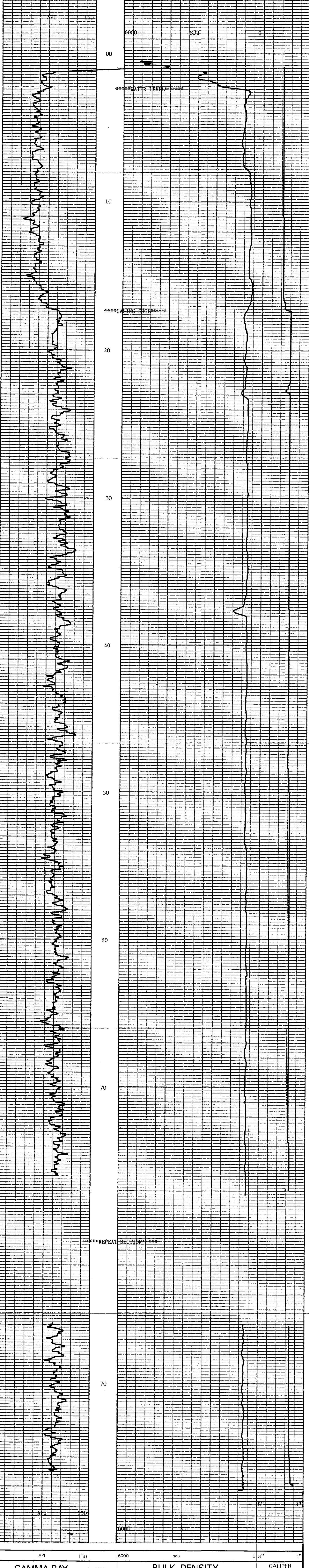
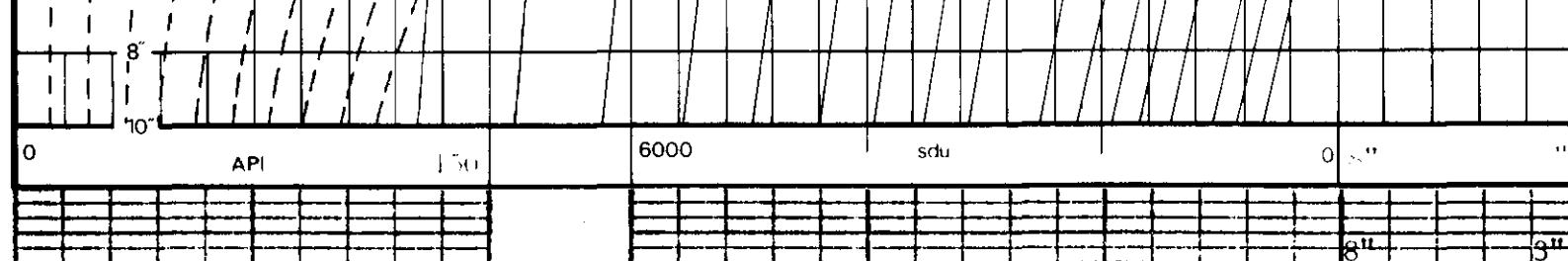
BPB COAL LITHOLOGY LOG

CALIBRATION DATA

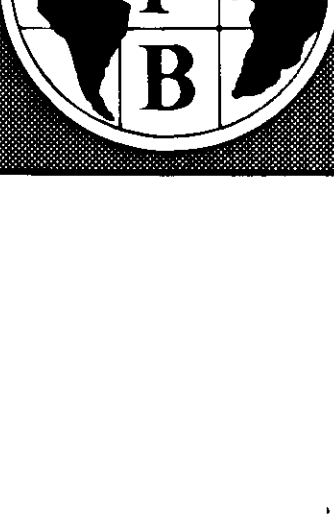
JIG No. 251 VALUE 337 @ 1.5" DIAM JIG CAL DATE 29/10/18 JIG VALUE 4777 SOU @ 1.19 g/cm³ 3" ins 7.67 cps
 JIG MARK SHOWN AT ABOVE VALUE - JIG No. 3995 SPAN 61000 NORM SOL CPS 7.115 3" ins 4.50 cps

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

HOLE SIZE CORRECTION DATA

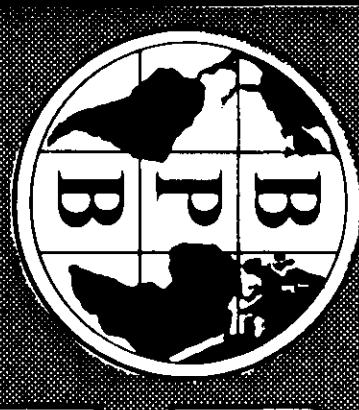


GAMMA RAY DEPTH **BULK DENSITY** g/cm³ **CALIPER** INCHES



BOREHOLE 414 AREA THULEA
 CLIENT CROSSBERRY RESOURCES COUNTRY CANADA

COAL LITHOLOGY LOG



GADIA RAY
LONG SPACED NEUTRON

BOREHOLE TR-914 (2)

CLIENT CRENSHAW RESOURCES

AREA TELUKA

COUNTRY CANADA

DATE LOGGED OCT 21/89

DEPTH SCALE
1:1000

BOREHOLE DATA

OPERATION DATA

EQUIPMENT AND RECORDING DATA

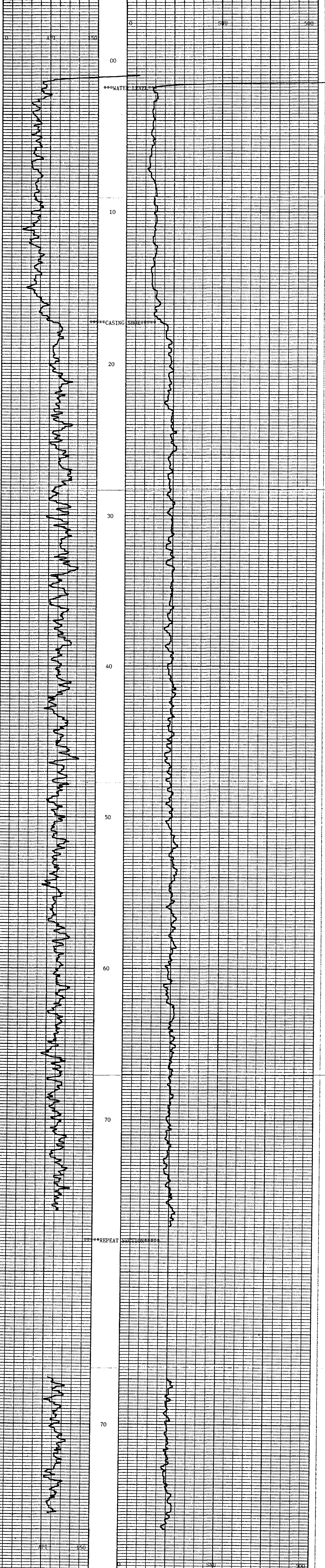
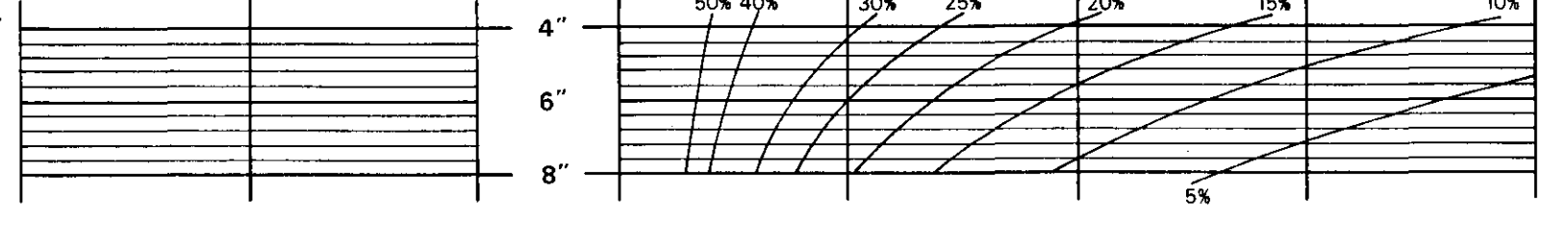
LOG

LOG

REMARKS

GADIA RAY	DEPTH	LONG SPACED NEUTRON
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SANDSTONE POROSITY



GADIA RAY	DEPTH	LONG SPACED NEUTRON
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BOREHOLE TR-914
 CLIENT CRENSHAW RESOURCES
 AREA TELUKA
 COUNTRY CANADA

755



BOREHOLE TX-915
 CLIENT CROWNSTOCK RESOURCES

AREA THLAWA
 COUNTRY CANADA
 DATE LOGGED SEP 22/89

DEPTH SCALE
 1:100
 1 OF 2 LOGS

COAL
LITHOLOGY
LOG

SONDE TYPE
 COAL
 COMBINATION
 SONDE

LOG SITE:
 GAMMA RAY
 L.S. DENSITY
 CALIPER

BOREHOLE DATA
 PERMANENT DIALUM 1.000
 ELEVATION OF #1 D 117.1
 DRILLER BPB
 CASASBERNARDUSFORM 1.00
 DEPTH OF CORING 100.00m
 CASING SIZE 2.500
 BIT SIZES 1 1.750 2 1.750
 CASING SIZES 1 1.750 2 1.750

FLUID DATA
 NATURE WATER
 SG 1.000
 VISCOSITY 1.0
 PH 7.5
 TEMPERATURE 17.5
 SHIT N/A

OPERATION DATA
 FIRST BEARING 190.00m
 LAST BEARING 100.00m
 INTERVAL LOGGED 100.00m
 UNIT-TICKER No. 1722
 LOGGERS S. ELIOTT
 WITNESS R. McE...

EQUIPMENT AND RECORDING DATA

LOG	EQUIPMENT			TAPING			PANEL		CAL COEFF	DEPTHS			SEAM LOG RUN	
	SONDE	SOURCE	CALIBRATOR	LOG TAPED	RECORD SPEED	DIRECT/REPLAY	SPEED	SECS		NORM	FROM	TO		INTERVAL
GAMMA RAY	158		251	Y	9/3	D	9/3	2/1	--	1.67	98	00	98m	N
DENSITY		5843	3995	Y	9/3	D	9/3	1/2	7.19	09	01	09m	N	
CALIPER	SIDEWALL POSITION		8" 3"	Y	9/3	D	9/3	2.3	--	1.0	99	01	99m	N

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	
219	N-N	1:100		REFER TO ADDITIONAL HEADINGS

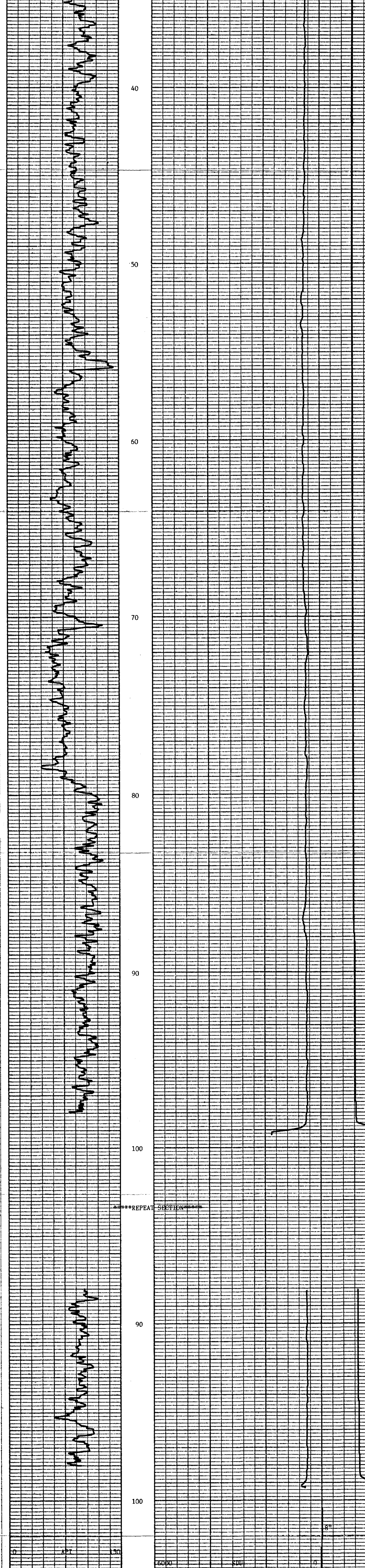
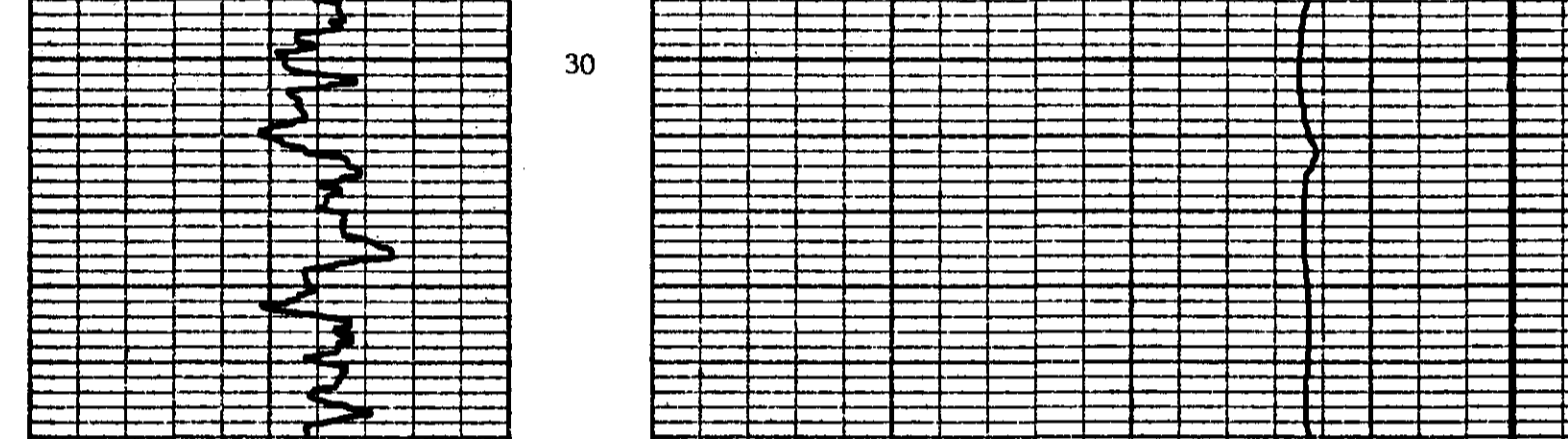
BPB COAL LITHOLOGY LOG

CALIBRATION DATA

JIG No. 251 VALLE 337 Q₁ F DIAM
 JIG MARK SHOWN AT ABOVE VALLE -
 JIG CAL DATE 89/10/18 JIG VALUE 4777 SDU @ 1.199/cm³ 2" ms 767 cps
 JIG No. 3995 SPAN 6100 NORM 5843 3" ms 459 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
-----------	-------	-----------------------------------	----------------

BOREHOLE TX-915 AREA THLAWA
 CLIENT CROWNSTOCK RESOURCES COUNTRY CANADA

755



GAMMA RAY
&
LONG SPACED NEUTRON

BOREHOLE TR-915 (2)

CLIENT CROWNSTOCK RESOURCES

AREA TELKWA

COUNTRY CANADA

DATE LOGGED OCT 22/89

BOREHOLE DATA
REFER TO LITHOLOGY LOG

OPERATION DATA
REFER TO LITHOLOGY LOG

EQUIPMENT AND RECORDING DATA

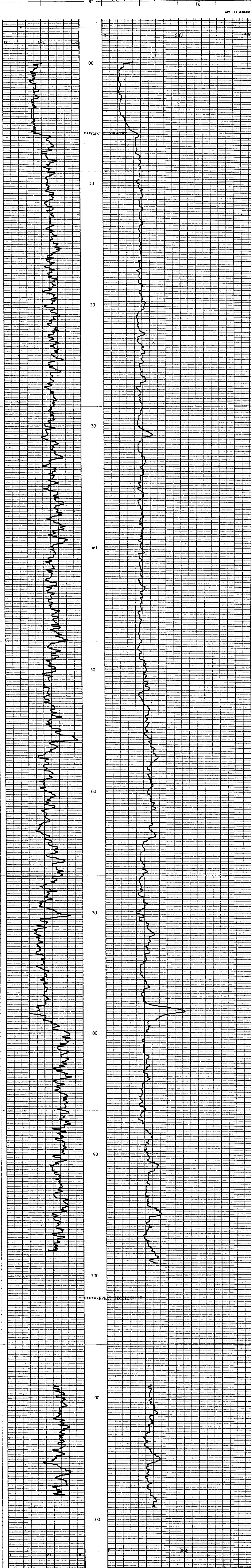
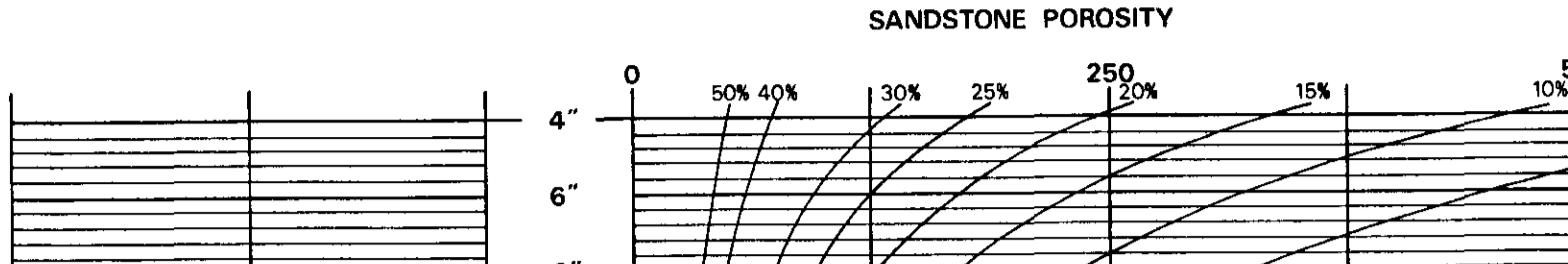
LOG TYPE TR-915

GAMMA Y 9 R 9 D 9 1 7.99

LITHOLOGY Y 9 D 9 1 7.99

REMARKS

GAMMA RAY	DEPTH	LONG SPACED NEUTRON
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GAMMA RAY	DEPTH	LONG SPACED NEUTRON
-----------	-------	---------------------

BOREHOLE TR-915 AREA TELKWA
 CLIENT CROWNSTOCK RESOURCES COUNTRY CANADA

755





BOREHOLE TC-917
 CLIENT CROSSMET RESOURCES
 AREA THUKSA
 COUNTRY CANADA
 DATE LOGGED 1 OCT 24/89

DEPTH SCALE 1:100
 LOGS 1 OF 2

COAL LITHOLOGY LOG

BOREHOLE DATA

PERMANENT TAPING DRUMMED
 ELEVATION OF P.O. N/A
 DEPTH TO BRIT 72.4m
 DEPTH TO CASING SHOE 72.4m
 CASING SHOE 1.4 TO 1.4m
 BIT SIZES 1 1/4 TO 1.4m
 CASING SIZES 1 1/4 TO 1.4m

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

EQUIPMENT AND RECORDING DATA

LOG	EQUIPMENT	TAPING	PANEL	CAL COEFF	DEPTHS	SEAM LOG RUN							
SONDE	SOURCE	LOG TAPE	RECORD SPEED	DIRECTOR REFLAY	SPEED	TC SECS	NORM	FROM	TO	INTERVAL			
GAMMA RAY	15R	251	Y	9/3	D	9/3	2/1	--	1.0	70	01	70m	N
L.S. DENSITY	SIDEWALL POSITION	5845	Y	9/3	D	9/3	1/1.3	--	1.0	71	01	74m	N
CALIPER		N	Y	9/3	D	9/3	1	--	1.0	71	01	70m	N

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
219	N-V	1:100		

REMARKS
 FLOWING HOLE

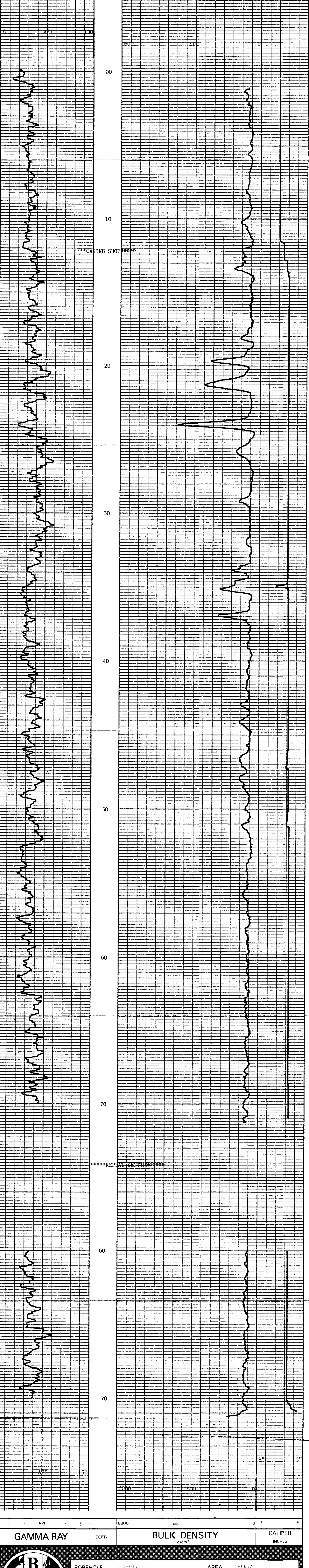
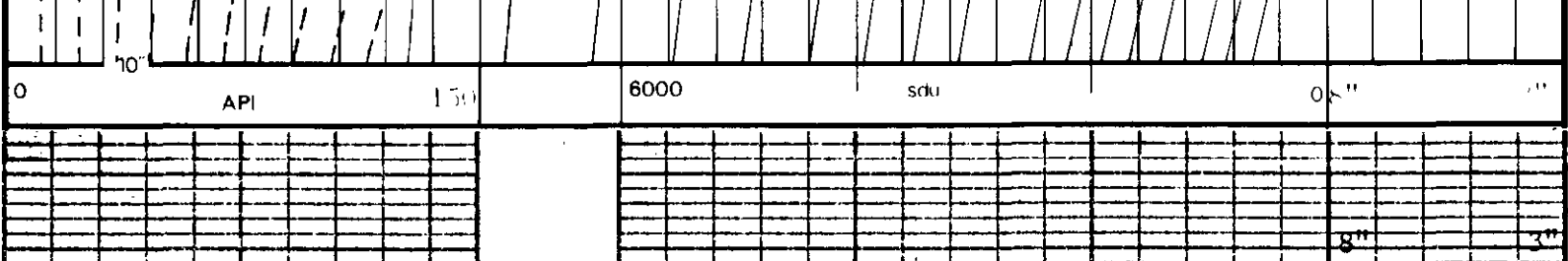
BPB COAL LITHOLOGY LOG

CALIBRATION DATA

JIG No 251 VALUE 3.77 @ 1.875 DIAM JIG CAL DATE 10/10/18 JIG VALUE 4.777 SOU @ 1.11 g/cm³ N" ins 7.61 cps
 JIG MARK SHOWN AT ABOVE VALUE - JIG No 3995 SPAN 6.000 NORM SOU @ 7.10 N" ins 4.61 cps

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

HOLE SIZE CORRECTION DATA



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



BOREHOLE TC-917 AREA THUKSA
 CLIENT CROSSMET RESOURCES COUNTRY CANADA

COAL LITHOLOGY LOG

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GAMMA RAY
&
LONG SPACED NEUTRON

BOREHOLE TX-917 (2)

CLIENT CROWNEST RESOURCES

AREA TELKWA

COUNTRY CANADA

DATE LOGGED OCT 24/89

DEPTH SCALE 1-1000

BOREHOLE DATA REFER TO LITHOLOGY LOG

OPERATION DATA REFER TO LITHOLOGY LOG

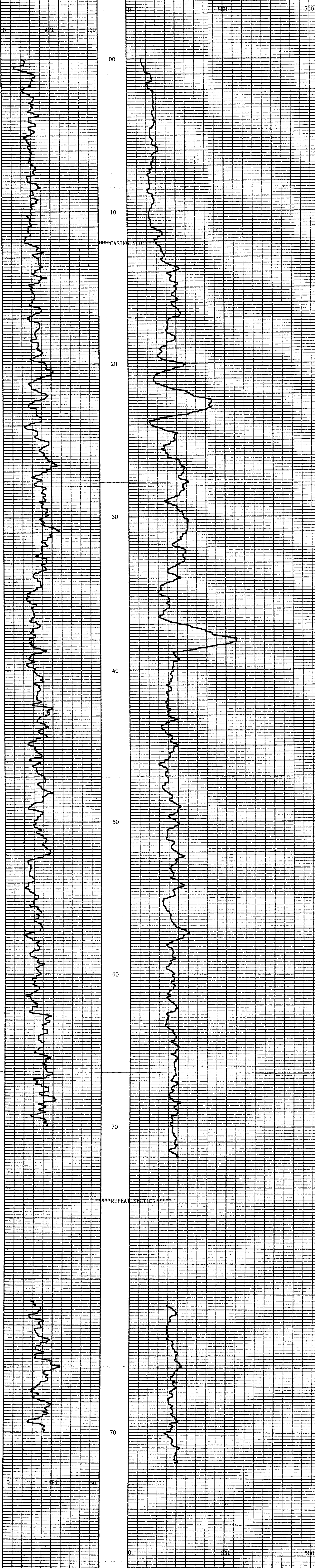
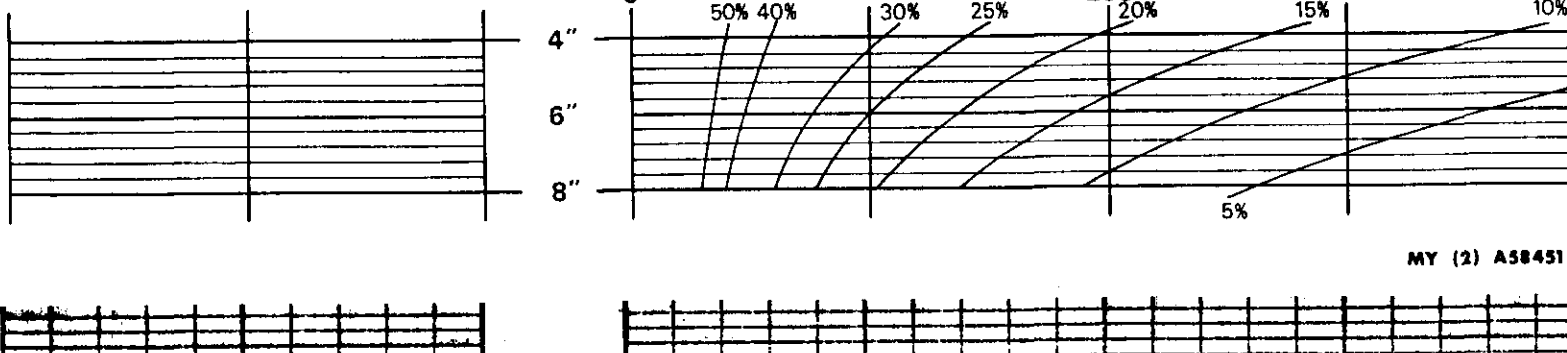
EQUIPMENT AND RECORDING DATA

LOG	TAPING	PANEL	DATE
GAMMA	1	9	1
NEUTRON	9	9	1
LOG	Y	D	1
LOG	1.58	9	1
LOG	219	9	1
LOG	451	9	1

REMARKS

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GAMMA RAY	DEPTH	LONG SPACED NEUTRON
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0	AP1	150	0	SSU	500
GAMMA RAY	DEPTH		LONG SPACED NEUTRON		



BOREHOLE TX-917
CLIENT CROWNEST RESOURCES

AREA TELKWA
COUNTRY CANADA



DIPMETER ANALYSIS

CLIENT _____
 BOREHOLE _____
 AREA _____
 COUNTRY _____

CROWSNEST RESOURCES
 TW-918 ①
 TELKWA
 CANADA

755

DATE LOGGED.....24-OCT-89
 DATE PROCESSED..07-NOV-89



COMMENTS.....

INTERPRETATION PARAMETERS

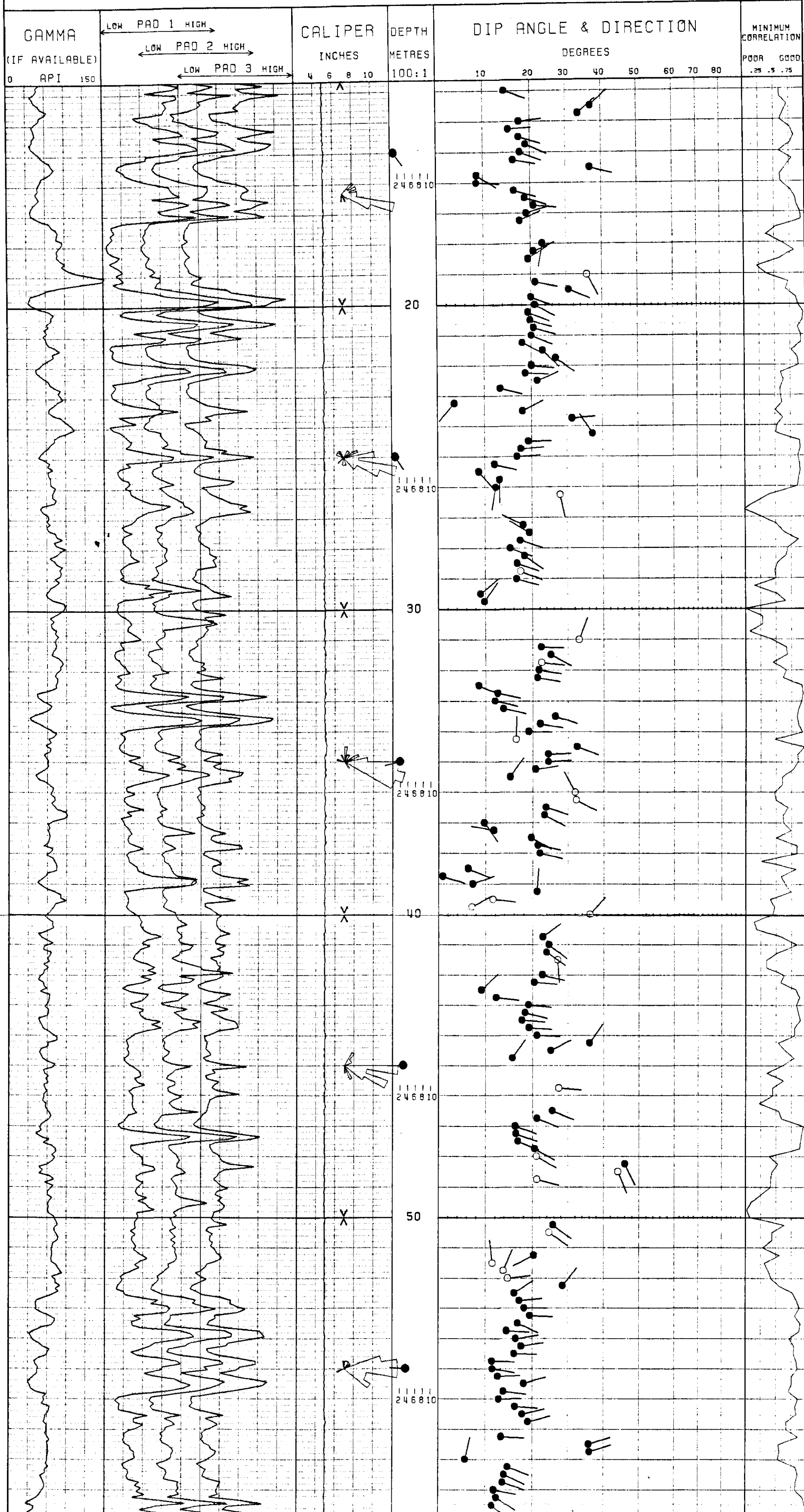
STEP 0.25M. DECLINATION 26.0 EAST
 INTERVAL 0.50M. DEPTH RANGE 12.64 - 60.00M.
 SEARCH ANGLE 45. DATE PROCESSED 07-NOV-89

AVERAGE BOREHOLE DEVIATION & DIRECTION
 ANNOTATED EVERY 10.0M.

LEGEND:

● GOOD (>0.50)
 ○ FAIR (>0.30)

ROSE DIAGRAMS SEGMENTED EVERY TEN DEGREES,
 .1" RADIUS PER DIP MARKER DISPLAYED





STICK PLOT

CLIENT _____
BOREHOLE _____
AREA _____
COUNTRY _____

CROWSNEST RESOURCES
TW-918 (2)
TELKWA
CANADA

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DATE LOGGED : 24-OCT-89



COMMENTS.....

INTERPRETATION PARAMETERS

STEP 0.25M.
INTERVAL 0.50M.
SEARCH ANGLE 45.

DECLINATION 26.0 EAST
DEPTH RANGE 12.64 - 60.00M.
DATE PROCESSED 07-NOV-89

LEGEND:
● GOOD (>0.50)
○ FAIR (>0.30)

VERTICAL SECTIONS

270 90 DEGREES 0 180

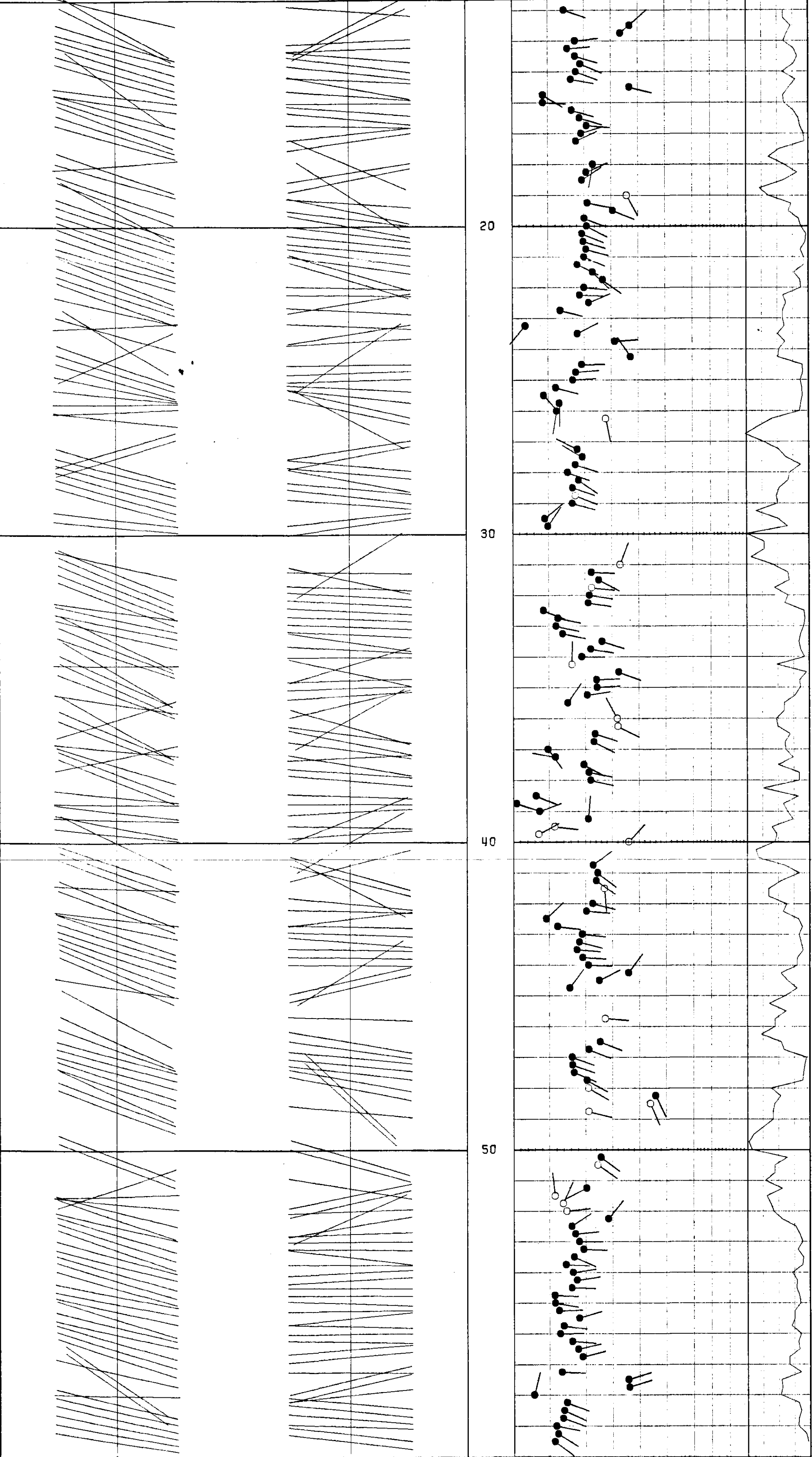
DEPTH METRES 100:1

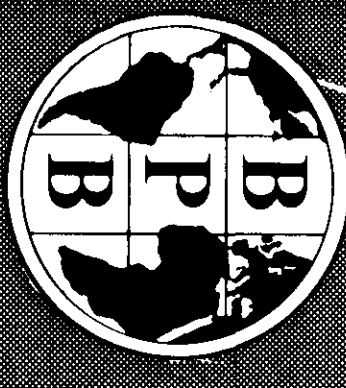
DIP ANGLE & DIRECTION

DEGREES 10 20 30 40 50 60 70 80

MINIMUM CORRELATION

POOR .25 .5 .75 GOOD





BOREHOLE TR-418
 CLIENT CROSSMIST RESOURCES

AREA ILLERA
 COUNTRY CANADA

DATE LOGGED 18/01/99

DEPTH SCALE
 1:100

1 OF 4 LOGS

COAL

LITHOLOGY LOG

LOG

BOREHOLE DATA

PERMANENT LOG	DATE AND LABEL
ELEVATION OF F.D.	N/A
METER/FEET	BRB
DRILLER	
DEPTH REACHED	63.3m
CASING SHAPE	6.3m
CASING SIZE	1 7/8" TO 2 1/2" TO 10"
CASING SIZES	1 TO 2

FLUID DATA

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

NATURE	
SG	
TEMP	
VISCOSITY	
PH	
PHI	
OPERATION DATA	
FIRST READINGS	
LAST READINGS	
INTERNAL LOGGED	
UNIT-TRUCK NO.	
ENGINEER	
WITNESS	

EQUIPMENT AND RECORDING DATA

LOG	EQUIPMENT		TAPING		PANEL		CAL COEFF	DEPTHS			SEAM LOG RUN		
	SONDE	SOURCE	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED		T.C. SECS	NORM	FROM		TO	INTERVAL
GAMMA RAY	15R		Y	9/3	D	9/3	2/1	--	1.6	61	00	61m	Y
L.S. DENSITY		5845	Y	9/3	D	9/3	1/3	7.10	--	62	01	61m	Y
CALIPER	SIDEWALL POSITION	8" 3"	Y	9/3	D	9/3	.3	--	1.0	62	01	61m	Y

COAL QUALITY/SEAM THICKNESS LOG INTERVALS (Refer to relevant log)												
FROM	58	24										INTERVAL
TO	51	12										TOTAL
INTERVAL	07m	12m										10m

ADDITIONAL SONDES RUN				REMARKS			
SONDE	LOG	GENERAL SCALE LOG	DETAIL SCALE LOG	REFER TO ADDITIONAL HEADINGS			
219	N-Y	1:100					
233/231	DIP						

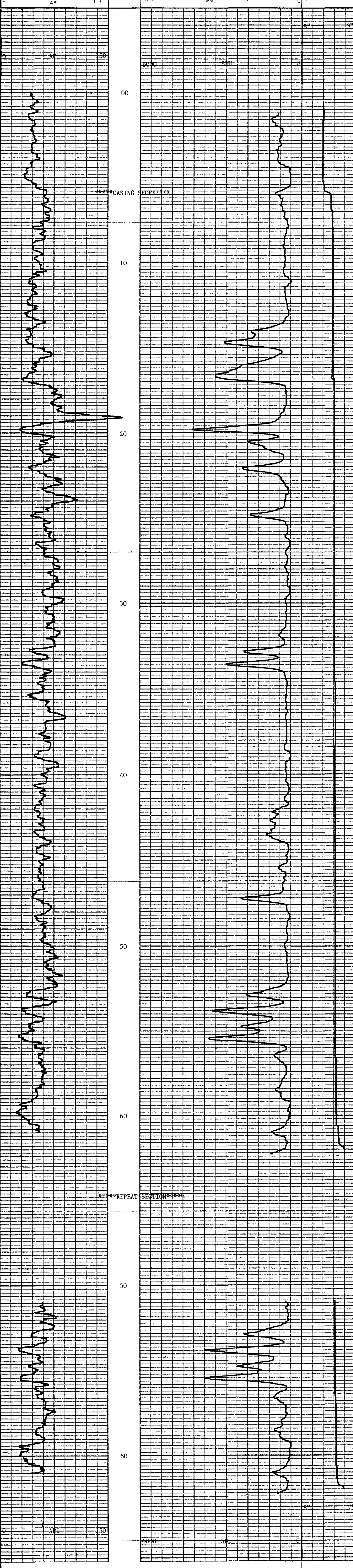
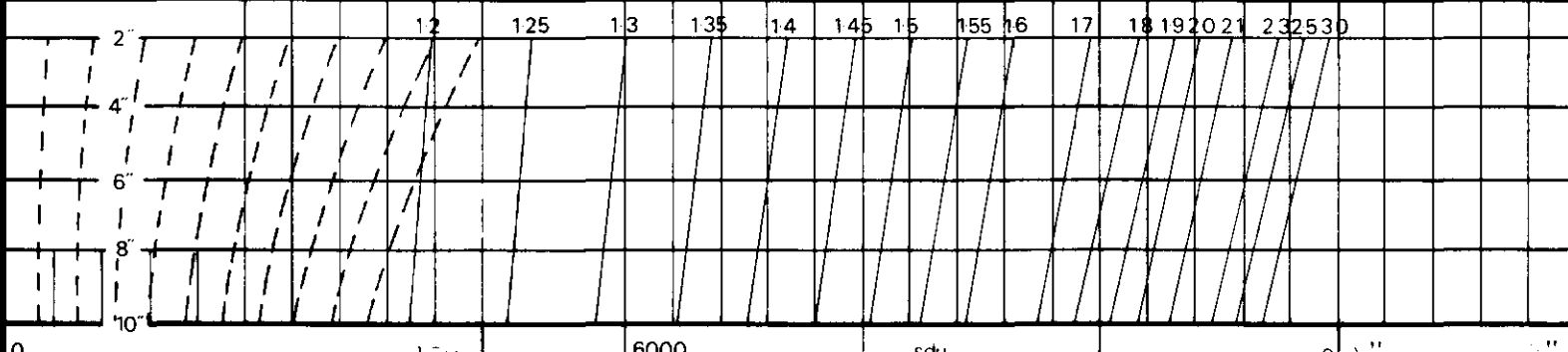
BPB COAL LITHOLOGY LOG

CALIBRATION DATA

JIG No <u>251</u>	VALUE <u>333 @ 119 DIAM</u>	JIG CAL DATE <u>8/10/24</u>	JIG VALUE <u>4790</u>	SDU @ <u>1.0</u> g/cm ³	<u>2</u> " ins <u>7.62</u> cms
JIG MARK SHOWN AT ABOVE VALUE -		JIG No <u>3995</u>	SPAN <u>6000</u>	NORM <u>SDU</u> CPS <u>7.10</u>	<u>3</u> " ins <u>4.61</u> cms

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

HOLE SIZE CORRECTION DATA



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

BOREHOLE TR-418 AREA ILLERA
 CLIENT CROSSMIST RESOURCES COUNTRY CANADA

COAL LITHOLOGY LOG



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GAMMA RAY
LONG SPACED NEUTRON

BOREHOLE TW-918

CLIENT CROWSNEST RESOURCES

AREA TELUKA

COUNTRY CANADA

DATE LOGGED OCT 24/89

DEPTH SCALE
1:100

BOREHOLE DATA
OPERATION DATA
EQUIPMENT AND RECORDING DATA

LOG TAPING RECORDING SPEED
TAPING 1
RECORDING 1
SPEED 1500

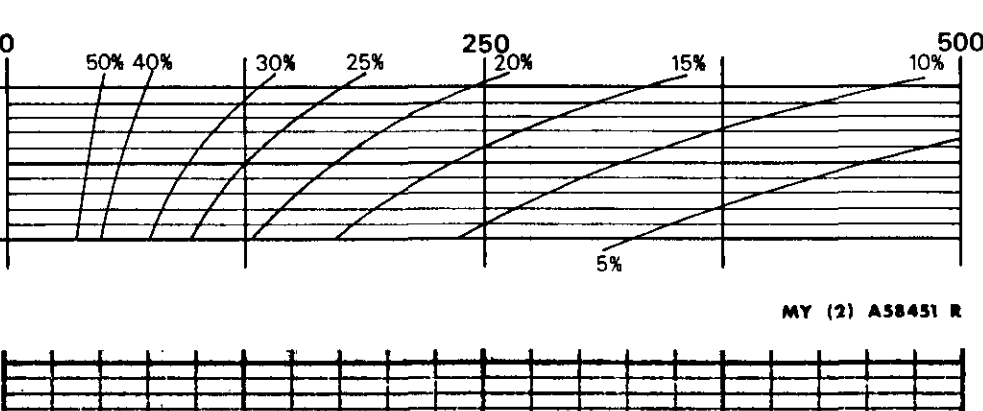
PANEL

LOG TAGS
GAMMA Y 9 8 9 1 8-013
NEUTRON Y 9 8 9 1 8-013

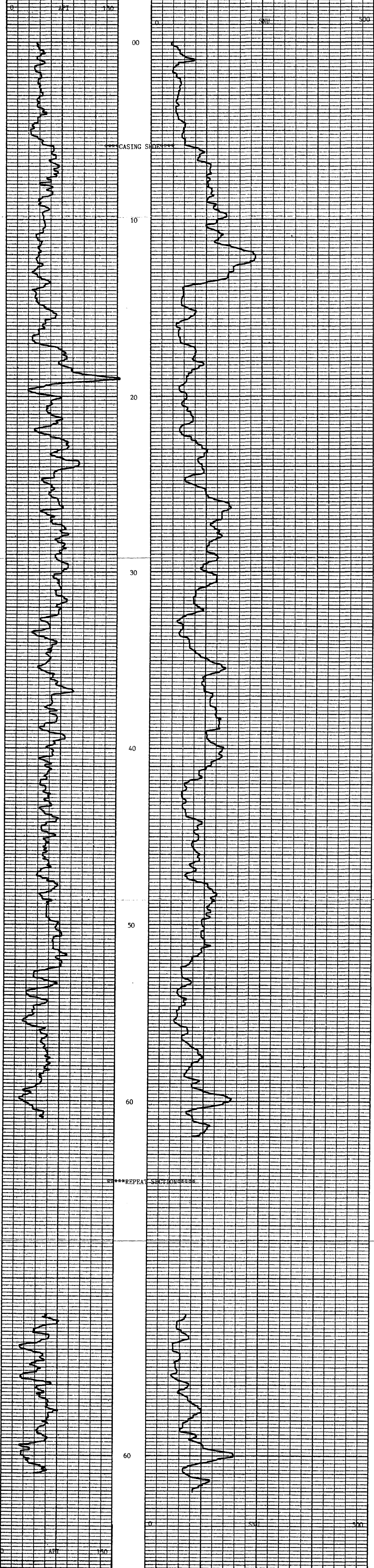
REMARKS
STOP 138
START 137

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GAMMA RAY	DEPTH	LONG SPACED NEUTRON
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NY (2) A58451 R



0	API	150	0	SSV	500
GAMMA RAY		DEPTH	LONG SPACED NEUTRON		



BOREHOLE TW-918
CLIENT CROWSNEST RESOURCES

AREA TELUKA
COUNTRY CANADA

NY 2000R18



BOREHOLE TEL-918
 CLIENT CROSSNEST RESOURCES

AREA TELUSA
 COUNTRY CANADA
 DATE LOGGED OCT 24/89

DEPTH SCALE
 1:20
 3 OF 4 LOGS

COAL QUALITY LOG

COAL LOG

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

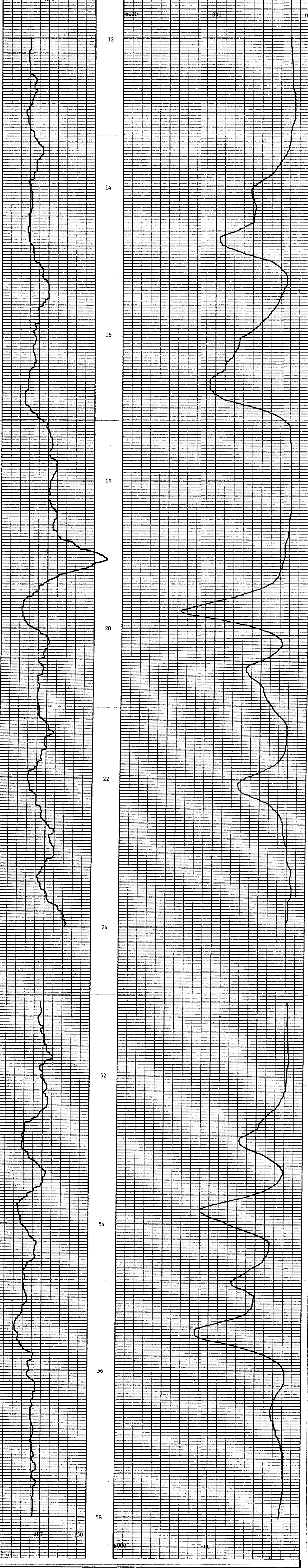
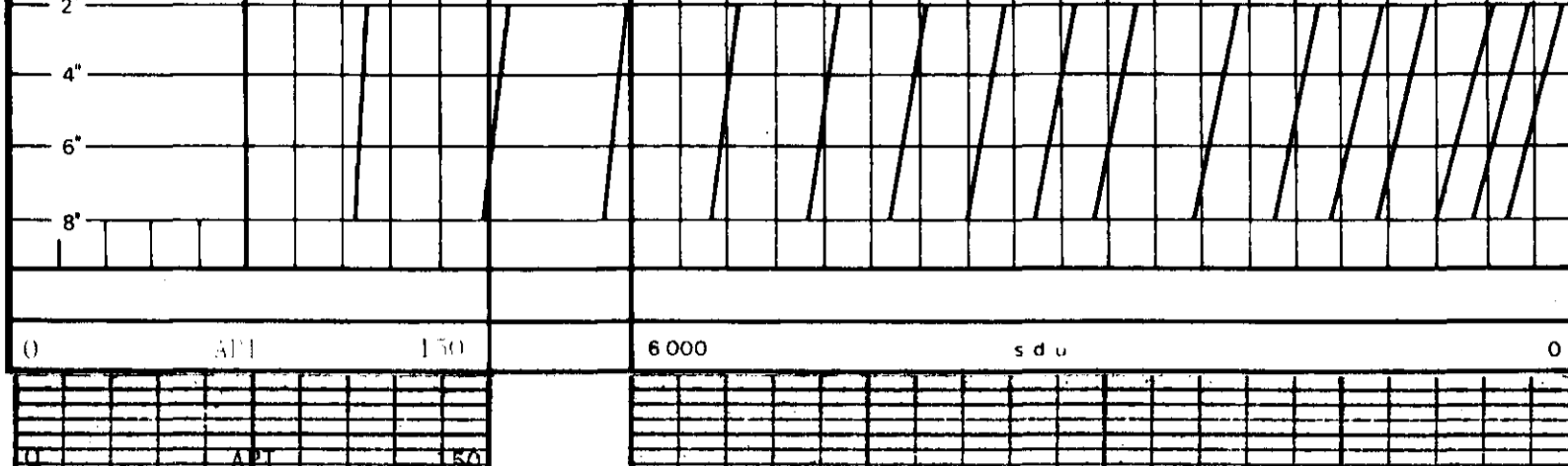
BOREHOLE DATA REFER TO LITHOLOGY LOG
 OPERATION DATA REFER TO LITHOLOGY LOG
 EQUIPMENT AND RECORDING DATA
 COAL COMBINATION SONDE

LOG TAPPING PANEL SIDEWALL POSITION
 LOG READING SPEED SECS/NORM
 GAIN Y 3 R 3 2 1 1.53
 L.S. DENSITY Y 3 R 3 1 1.10
 SOURCE SONDE AND CALIBRATION
 REFER TO LITHOLOGY LOG

COAL QUALITY LOG INTERVALS
 FROM 58 TO 24
 INTERVAL 1.2m
 FROM 51 TO 12m
 INTERVAL 1.2m
 FROM 10 TO 1.5m
 INTERVAL 1.5m
 REMARKS

B P B COAL QUALITY LOG

DEPTH	COAL BULK DENSITY g/cm ³
GAMMA RAY	



DEPTH	COAL BULK DENSITY g/cm ³
GAMMA RAY	

BOREHOLE TEL-918 AREA TELUSA
 CLIENT CROSSNEST RESOURCES COUNTRY CANADA

COAL QUALITY LOG



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BOREHOLE TP-918

CLIENT CROWNEST RESOURCES

AREA TELUKA

COUNTRY CANADA

DATE LOGGED OCT 24/89

DEPTH SCALE
1:20
4.0" = 1.00M

BOREHOLE DATA
REFER TO LITHOLOGY LOG

OPERATION DATA
REFER TO LITHOLOGY LOG

SEAM THICKNESS LOG

LOG	TAPPING	SIDEWALL POSITION	PANEL	COEF
LOG	RECORD DIRECT			
TAPE	SPEED			
CALIPER	Y	R	3	1.1
BR DENSITY	Y	R	3	1.1

SOURCE SONDE AND CALIBRATION
REFER TO LITHOLOGY LOG

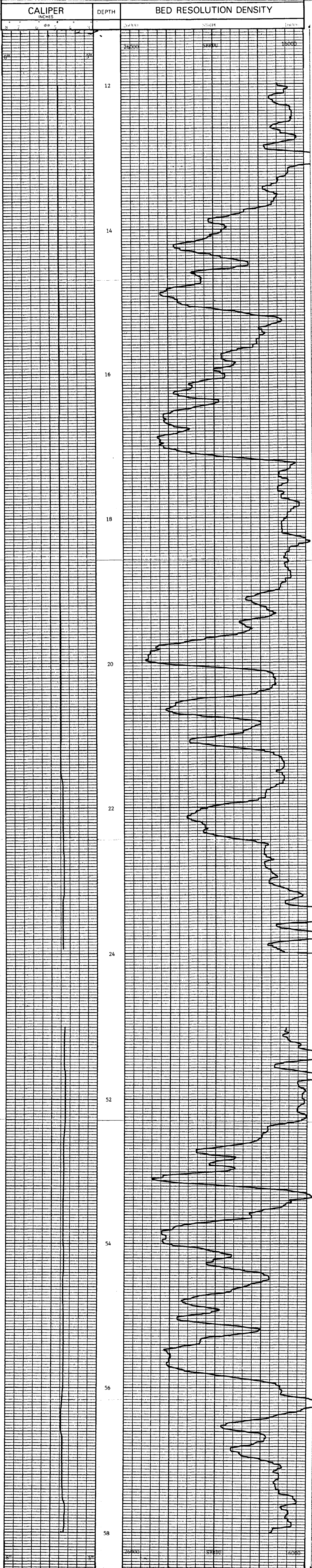
SEAM THICKNESS LOG INTERVALS

COAL COMBINATION SONDE

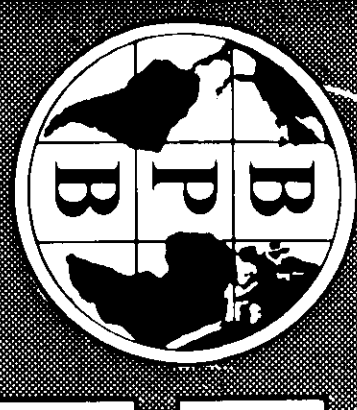
LOG SUITE:
CALIPER
BR DENSITY

FROM	TO	INTERVAL	SEAM THICKNESS LOG INTERVALS
5.8	5.1	0.7m	

B P B SEAM THICKNESS LOG



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LOG SUITE:
GAMMA RAY
L.S. DENSITY
CALIPER

SONDE TYPE:
COAL
COMBINATION
SONDE

COAL
LITHOLOGY
LOG

BOREHOLE: TA-919
CLIENT: CROKSBEST RESOURCES
AREA: TELKWA
COUNTRY: CANADA
DATE LOGGED: 11/23/84
DEPTH SCALE: 1:100
LOGS: 1 OF 1 LOGS

BOREHOLE DATA
PERMANENT/TEMP: (GRI) 11/21
ELEVATION OF P.D.: N/A
MEASUREMENTS FROM: 6.1m
DEPTH REACHED: 82.0m
CASING SIZES: 1 1 1/2 TO 1 1/2, 2 7/8 TO 2 7/8, 3 1/2 TO 3 1/2
CASING SIZES: 1 1 TO 2 TO 2 TO

FLUID DATA
NATURE: WATER
SG: 1.000
LEVEL: N/A
VISCOSITY: N/A
PH at 100ms Temp: N/A
PH: N/A

OPERATION DATA
FIRST READING: 5:20
LAST READING: 6:20
INTERVAL LOGGED: 42.4
UNIT-TRUCK No: 1111
ENGINEER: J. J. BROWN
WITNESS: J. J. BROWN

EQUIPMENT AND RECORDING DATA

LOG	EQUIPMENT			TAPING			PANEL		CAL COEFF	DEPTHS		SEAM LOG RUN	
	SONDE	SOURCE	CALIBRATOR	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	TC SECS		FROM	TO		INTERVAL
GAMMA RAY	158		251	Y	9/3	D	9/3	2/1	1.03	82	0	82m	Y
L.S. DENSITY		5845	3905	Y	9/3	D	9/3	1/2, 3	7.10	83	01	82m	N
CALIPER	SIDEWALL POSITION	5"	3"	Y	9/3	D	9/3	3	---	83	01	82m	N

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

REMARKS

CCS ONLY LOGGED IN RODS
NO OPEN HOLE LOGS AVAILABLE DUE TO UNSTABLE HOLE CONDITIONS

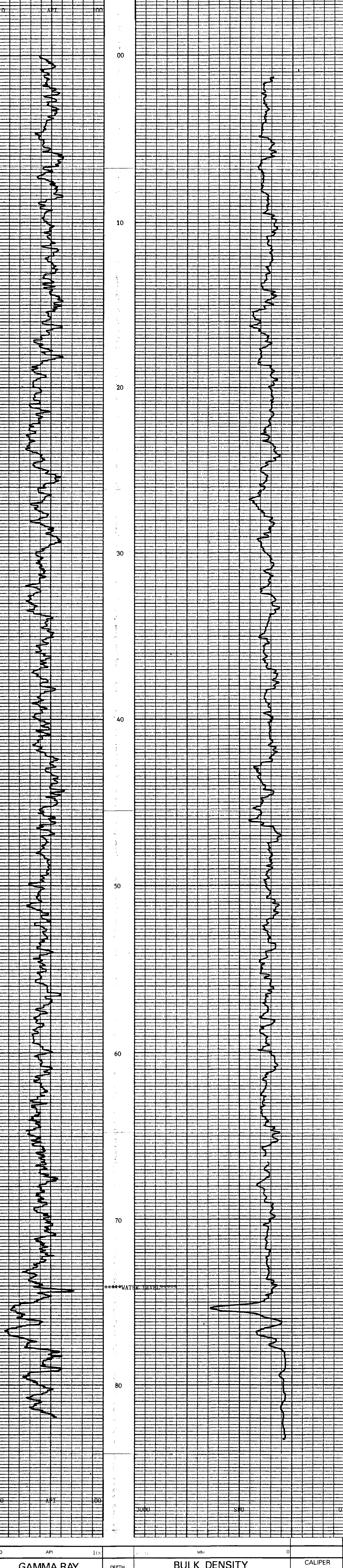
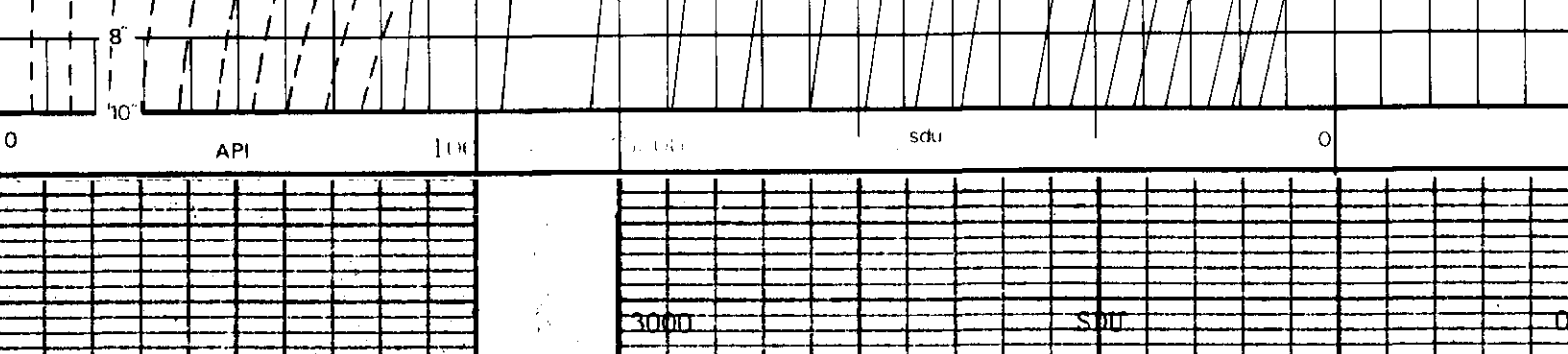
BPB COAL LITHOLOGY LOG

CALIBRATION DATA

JIG No 251 VALUE 337 @ 15" DIAM JIG CAL DATE 8/11/18 JIG VALUE 4790 SDU @ 1.19/g/cm³ 3" ins 7.17 cps
JIG MARK SHOWN AT ABOVE VALUE - JIG No 3195 SPAN 30(0) NORM SDU @ 7.10 3" ins 4.41 cps

GAMMA RAY DEPTH BULK DENSITY g/cm³ CALIPER INCHES

HOLE SIZE CORRECTION DATA



GAMMA RAY DEPTH BULK DENSITY g/cm³ CALIPER INCHES



BOREHOLE: TA-919 AREA: TELKWA
CLIENT: CROKSBEST RESOURCES COUNTRY: CANADA

COAL LITHOLOGY LOG

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