586001

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D of M | A.G. | G.S. | E.C. | G.M.E
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OPEN FILE

EL27/79 SIX MONTHLY REPORT

17/10/82 - 16/4/83

END PERMIT YEAR 3.

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EL27/79 SIX MONTHLY REPORT - 17/10/82 - 16/4/83.

End Permit Year 3.

INTRODUCTION

EL27/79 (Coal) was granted to Capricorn Mining Ltd. on 17/4/80. The licence area (Fig. 1) originally covered 870km^2 over the middle reaches of the Derwent Valley and to date 100km^2 have been relinquished, leaving 770km^2.

This report covers all exploration related to the licence area during the period 17/10/82 - 16/4/83 and follows the report for the period 17/10/81 - 16/10/1982 which was eroneously submitted as the Year 3 Annual Report. The latter was due to a misunderstanding over the timing of the licence renewal at the end of Year 2. This misunderstanding has since been resolved and a six monthly renewal was granted to bring annual reporting into phase with the licence year (refer your letter 9/12/1982). The next Annual Report will cover licence Year 4 (17/4/1983 - 16/4/1984). During the previous six months exploration drilling has continued on the Langloh prospect and additional areas have been mapped in the field. A non-prospective portion of the E.L. has been defined and is to be relinquished at this current renewal.

EXPLORATION DRILLING LANGLOH

During January and February, ten holes were drilled on the Langloh prospect, by contractors H. J. Stacpoole of Launceston. Table 1. shows that eight of the ten holes intersected the Langloh series of coal seams. The other two demonstrated the existence of faults which form effective boundaries to the prospect. The drilling programme had a two fold purpose:-

1/. To in-fill previous drilling and provide a density of sample

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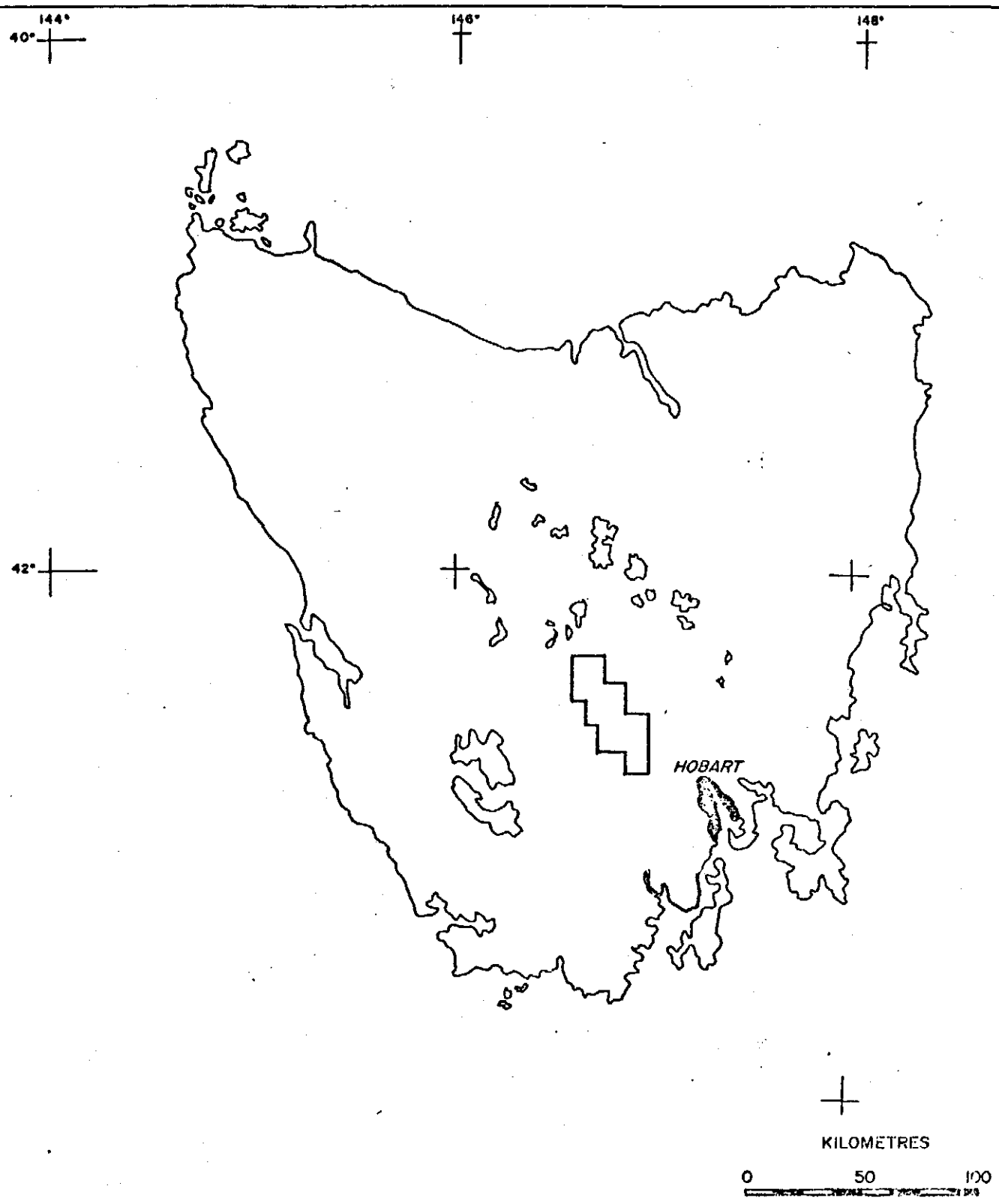

Figure 1. E.L. 27/79

Petrecon Australia Pty. Ltd.

Petrocon Australia Pty. Ltd.

TABLE 1- / SUMMARY OF LANGLOH DRILLING - JAN/FEB. 1983

Hole No.	T.D.[Metres]	Metres Open	Metres Cored	Seam	Coal Thickness [Metres] A	B	C	D
H 19	60.00	6.0	54.0		-			
H 20	30.00	12.0	18.0		1.56	1.20	1.30	
H 21	27.00	27.0	0.0		1.56	1.26	1.24	
H 22	20.90	3.0	17.9		1.60	1.47	1.35	
H 23	36.00	12.0	24.0		0.99	1.22	1.21	
H 24	27.00	15.0	12.0		1.07	0.92	0.65	
H 25	45.00	15.0	30.0		-			
H 26	89.00	89.0	0.0		1.20	1.07	1.21	0.62
H 27	25.00	25.0	0.0		1.36	1.37	1.34	
H 28	39.00	15.0	24.0		0.90	1.13	1.36	

398-W

3/.

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points adequate for the estimation of proven reserves and -

2/. To define structural boundaries to, and structural displacement within, the coal body.

In the case of H-26, this was a stepout exploration hole and the top of Seam A was intersected 75.65 metres below the surface indicating, as predicted by the Top Coal Strcuture Map (Fig. 82/7 of our quarterly report 17/10/82 to 16/1/83) that the coal in that particular fault block is dipping to the N.W. at approximately 4°. The down dip extent of the coal, under the basalt capped hill along the northern edge of the prospect area, is unknown and will need to be tested by a separate drilling programme in the future.

Wireline logging was conducted by B.P.B. (Australia), of Brisbane, using the Coal Combination Sonde consisting of Long Spaced Density, Bed Resolution Density, Natural Gammma and Caliper. Prints of the logs including Resistivity, which is always run first to test the condition of the hole are included in Appendix -1. The last hole to be drilled (H-28) was not logged as the rig broke down during drilling and retention of the logging operator on standby for several days could not be justified. A full section of core was however recovered through the coal interval.

As yet the collar co-ordinates have not been surveyed and the coal assay results are not available. This information together with a final set of graphic and written logs will be prepared during the next quarter.

The Top of Coal structure map (Fig 82/7A) plus the total coal and overburden isopach maps (Figs. 82/10A and 9A) show that the coal seam series occurs in two fault blocks, (hereafter referred to as West Hill and East Hill) separated by a NW-SE trending fault and a smaller more northerly trending fault on the east side of East Hill. The westernmost fault, is a major graben fault contact between the lithic sandstone to the east and an unknown thickness (but at least 100 metres) of Tertiary sediments. The next fault to the east

holds up the western side of West Hill and runs north into the basalt plug forming a wedge-shaped block of lithic sandstone which contains minor coal that we feel does not correlate with the Langloh series, (refer H-11, H-19 logs).

The coal in West Hill is essentially flat lying except for the anomalous bulge on the NW corner, which is presumably related to the adjacent basalt plug. This plug is closely related spacially, and probably genetically, to the major faulting. Also on West Hill (Fig. 82/7A) a 2 metre contour interval is required to show variation in the coal seam topography, however on East Hill the coal seams have a fairly constant dip of approximately 4° towards the NW and a 5 metre contour interval is used to show this.

The difference in coal seam dip between West Hill and East Hill is also shown on the overburden isoapch map Fig. 82/9A. On West Hill the overburden isopach lines are essentially parallel to the topographic contours of the hill. On East Hill however, the isopachs cut across the topographic contours reflecting the northwesterly dip of the coal in the subsurface. The other significant fault (Figs. 82/8A, 9A, 10A) appears to be located between H-1 and H-25 and is inferred on the basis of an inability to correlate either H-1 of Bore 6 (1944) with H-25. The throw of this fault is unknown. This fault effectively constitutes a boundary to the prospect.

The total coal isopach map (Fig. 82/9A) refers to the cumulative coal thickness of seams A, B, C, and D in the Langloh series. In general the coal is thicker on West Hill and along the northern edge of the East Hill fault block. In the case of the latter area the presence of seam D brings the total thickness up to around 4 metres. Coal thickness decreases towards the SE corner of the prospect, including the area which has presviously been mined.

This latest round of drilling brings the total number of holes drilled by Capricorn Mining at Langloh to 28. In addition, 13 Government bores were drilled between 1939 and 1956. The total number of holes which have sampled

and recorded the Langloh coal seam is 10 by the Government, plus 17 by Capricorn Mining. Thus we have 27 recorded sections through the coal seam interval within an area of approximately 1.5km and ten of these holes have produced cored samples for full seam coal assay.

It is considered that no further exploration drilling will be required on the potentially open cuttable portion of the prospect and that the quantity and structural complexities can now be accurately estimated.

FIELD MAPPING - THE OUSE VALLEY.

One of the two main areas of Upper Triassic lithic sandstone outcrop in the E.L. other than at Langloh, is the lower Ouse Valley, extending NE from the town of Ouse. Experience at Langloh has shown that the two key factors in defining prospective areas for open cuttable coal are:-

1/. Outcropping medium grained lithic sandstone (equivalent to TRg on the Oatlands 1:50,000 sheet).

2/. Major faults which bound blocks of adequate size to potentially host significant quantities of coal.

Fig. 83/1 is a compilation of outcrop geology mapped onto 1:42,000 air photos (883 Series). The aim was to map limits to the outcropping lithic sandstone and although the map is not yet complete the SE and NE boundaries have been defined.

Assuming essentially no dip approximately 100 metres of lithic sandstone outcrop within the Ouse Valley. To date some 10km^2 of outcrop area have been confirmed.

The present Ouse River is an underfit stream incised into the valley and at least two fossil terrace levels are preserved on the sides of the valley. The basalt flow on Tor Hill has preserved a relatively flat surface, topographically higher than the adjacent lithic sandstone, and it appears that

the present valley has evolved in post-basalt time with at least three episodes of down cutting interupted by periods at relative river stability, as indicated by the fossil terraces. Several small local occurences of carbonaceous mudstone were encountered, associated with the lithic sandstone, but as a general rule the lutites and coal are not preserved as outcrop and their existence must be tested by drilling.

The most prominent photo lineaments have been imposed on the geology and where possible they have been checked in the field to try and locate faults. For example, the NW-SW trending lineament which cuts the Victoria Valley Road, midway between Nalya and Carinyah, is confirmed as a fault contact between quartz sandstone and lithic sandstone.

RECONNAISSANCE MAPPING - PARTIAL RELINQUISHMENT

Field reconnaisance of the outcrop geology within the E.L. continued during the period. The principle applied here was that all non lithic sandstone rocks from the Parmeener Super Group (plus basalt and dolerite) were assumed to be non-prospective. On this basis areas composed of such geology are being systematically relinquished. Two such blocks are hereby submitted for relinquishment and their corner co-ordinates are as follows:-

1/. =100km^2

NW Corner

490,000ME, 5,290,000MN

NE Corner

500,000ME, 5,290,000MN

SE Corner

500,000ME, 5,280,000MN

SW Corner

490,000ME, 5,280,000MN

2/. =40km^2

NW Corner

480,000ME, 5,315,000MN

NE Corner

484,000ME, 5,315,000MN

SE Corner

484,000ME, 5,305,000MN

SW Corner

480,000ME, 5,305,000MN

STATEMENT OF EXPENSES.

The following expenses cover the period 1/8/1982 to 31/3/1983, including both the current 6 monthly period and the outstanding portion of the period ending 16/10/1982.

PERIOD	LICENCE EXPENDITURE
1/8/1982 - 16/10/1982	$30,146.81
17/10/1982 - 31/3/1983	$64,398.09

WORK PLANNED FOR THE QUARTER ENDING 16/7/1983.

The major tasks planned for the coming quarter are as follows:-

1/. Complete the analysis of the January/February drilling. A set of coal quality contour maps will be produced when the assay data are available.

2/. Reserves will be estimated for both East Hill and West Hill deposits and a decision will be made as to whether a mining feasibility study is warranted.

3/. The field mapping of the Ouse Valley area will continue.

4/. Field reconnaisance will continue and areas will be delineated for relinquishment.

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07

RESISTIVITY LOG

BOREHOLE H 19

CLIENT PETROMIN

AREA HAMILTON

COUNTRY AUSTRALIA

DATE LOGGED 28/1/83

DEPTH SCALE 1:100

1 OF 4 LOGS

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

EQUIPMENT AND RECORDING DATA

LOG	TAPING			PANEL			CAL COEFF
	LOG TAPED	RECORD SPEED	DIRECT OR REPLAY	SPEED	T.C. SECS	NORM	
Res	Rt			9			
		SONDE NO		SOURCE NO			

REMARKS

5 cm

DEPTH

water level

11 20 30 40 50 57

DEPTH

BOREHOLE H 19

CLIENT PETROMIN

AREA HAMILTON

COUNTRY AUSTRALIA

COAL LITHOLOGY LOG

B P B

COMPANY AND WELL DATA

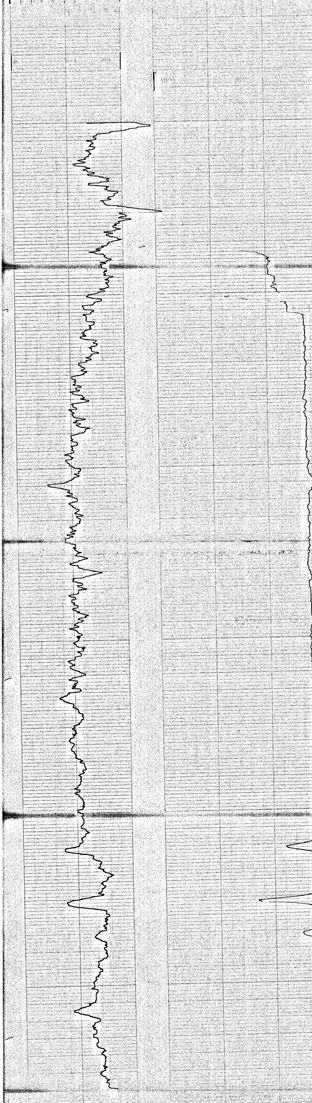
ADDITIONAL SONDES RUN

B PB COAL LITHOLOGY LOG

CALIBRATION DATA

GAMMA RAY | COAL BULK DENSITY | CALIPER

HOLE SIZE CORRECTION DATA



GAMMA RAY | COAL BULK DENSITY

COAL LITHOLOGY LOG

06

586013

SEAM THICKNESS LOG

SONDE TYPE
COAL COMBINATION SONDE

BOREHOLE N 19
CLIENT PETROCOM

AREA HAMILTON
COUNTRY AUSTRALIA
DATE LOGGED 28/1/83

DEPTH SCALE 1:20

3 OF 4 LOGS

BOREHOLE DATA — REFER TO LITHOLOGY LOG

OPERATION DATA — REFER TO LITHOLOGY LOG

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE

LOG	LOG TAPED	TAPING RECORD SPEED	DIRECT/REPLAY	SPEED m/min	TC SECS	PANEL NORM	CAL COEFF
CALIPER	Yes	3	R	2	1		
B R DENSITY	Yes	3	R	2	1/3	6.89	

SIDEWALL POSITION

SOURCE SONDE AND CALIBRATION
REFER TO LITHOLOGY LOG

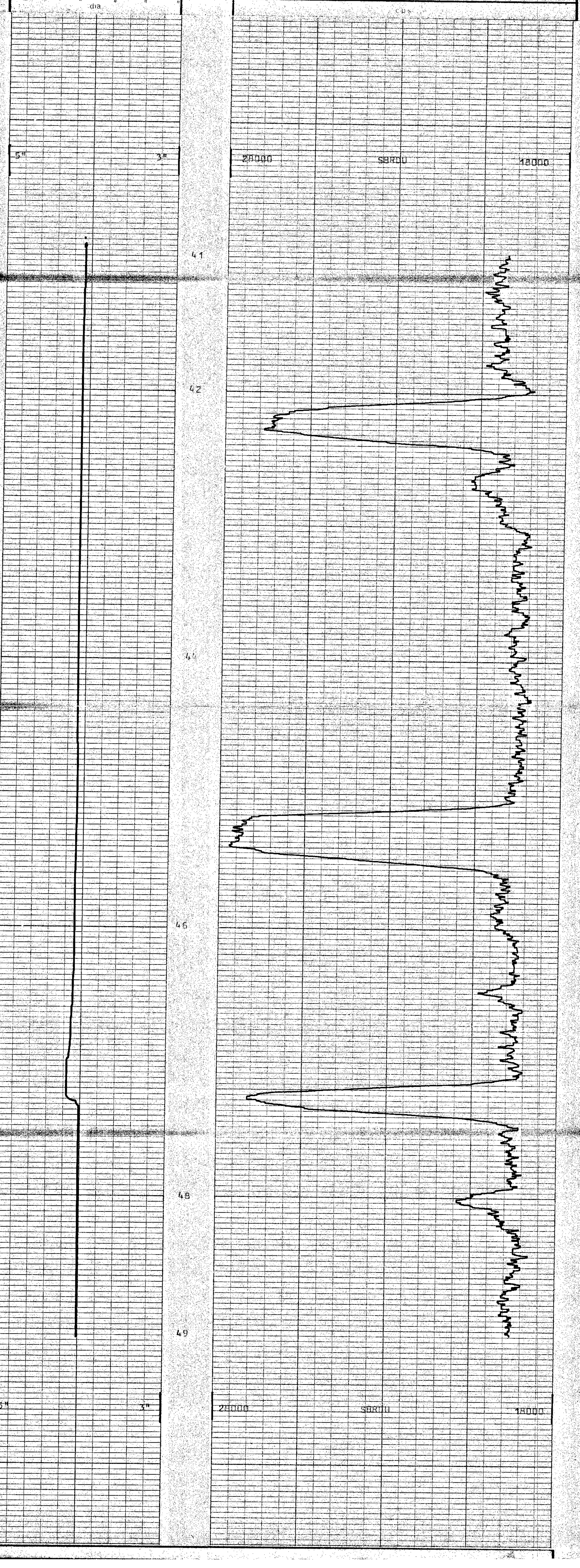
SEAM THICKNESS LOG INTERVALS

FROM	TO	INTERVAL	FROM	TO	INTERVAL	TOTAL INTERVAL
49	41	8				8m

REMARKS

B P B SEAM THICKNESS LOG

CALIPER INCHES dia	DEPTH	BED RESOLUTION DENSITY cps



05

586014

BPB COAL QUALITY LOG

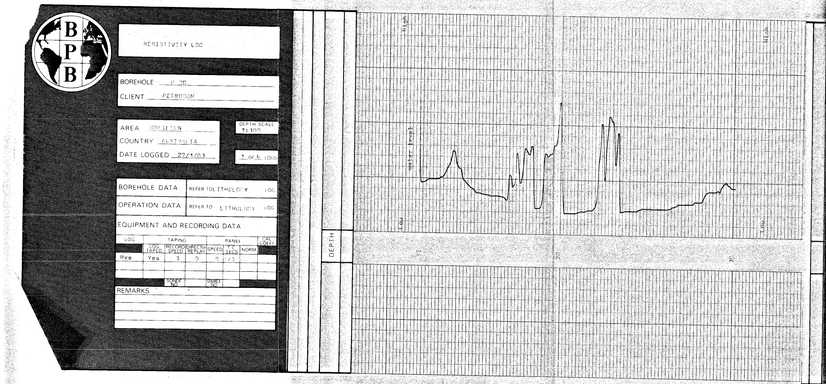
BOREHOLE N 19
CLIENT PETROCOM
AREA HAMILTON
COUNTRY AUSTRALIA
DATE LOGGED 29/7/73
DEPTH DRILLER 1,194.00
DEPTH LOGGER 1,196.00
CASING DRILLER 1,194.00
CASING LOGGER 1,196.00
BOREHOLE DATA
OPERATION DATA
WATER SOLUTIONS USED
EQUIPMENT AND RECORDING DATA
TOOL COMBINATION USED
COAL QUALITY LOG INTERVALS
REMARKS

DEPTH
GAMMA RAY
COAL BULK DENSITY g/cm³
HOLE SIZE CORRECTION DATA

COAL BULK DENSITY
DEPTH
GAMMA RAY

BPB
BOREHOLE N 19
CLIENT PETROCOM
AREA HAMILTON
COUNTRY AUSTRALIA
COAL QUALITY LOG

01 5860 15


BPB
RESISTIVITY LOG
BOREHOLE
CLIENT PETROTIM
AREA
COUNTRY
DATE LOGGED
DEPTH SCALE
1 OF 1 LOGS
BOREHOLE DATA
REFER TO LITHOLOGY LOG
OPERATION DATA
REFER TO LITHOLOGY LOG
EQUIPMENT AND RECORDING DATA
LOG
TAPING
PANEL
CON
TAPED
SPEED
DELAY
SPEED
NORM
Res
REMARKS
DEPTH
5 cm

5 cm

COAL LITHOLOGY LOG

LOG SUITE: GAMMA RAY, BULK DENSITY, CALIPER

SONDE TYPE: COAL COMBINATION SONDE

BOREHOLE: W 70
CLIENT: PETERCOM
AREA: MOURLEA
COUNTRY: AUSTRALIA
DATE LOGGED: 27/7/83
RUN NO: 1
DEPTH DRILLER: 1500
DEPTH LOGGER: 1500

BOREHOLE DATA: DEPTH (FEET) 1500 | CASING (SIZE) 7" | CASING (WEIGHT) 20 | CASING (GRADE) J55 | CASING (TOP) 0 | CASING (BOTTOM) 1500 | BIT SIZE 6 1/4" | TYPE FLUID IN HOLE WATER | DENSITY 8.9 | VISCOSITY 50 | PH 9 | FLUID LOSS 10 | SOURCE OF SAMPLE PIT | RM @ MEAS. TEMP 0.5 @ 20°C | RMF @ MEAS. TEMP 0.4 @ 20°C | RMC @ MEAS. TEMP 0.6 @ 20°C | SOURCE OF RMF/RMC MEASURED | RM @ BHT 0.3 @ 50°C | TIME SINCE CIRC. 12 HRS | MAX. REC. TEMP. 50°C | EQUIP. LOCATION MOURLEA | RECORDED BY J. SMITH | WITNESSED BY J. BROWN

OPERATION DATA: RECORDED | LOGGED | DEPTH DRILLER 1500 | DEPTH LOGGER 1500 | BOTTOM LOGGED INTERVAL 1500 | TOP LOGGED INTERVAL 0 | CASING SHOE 1500 | CASING COLLAR 1500 | LOGGING SPEED 3 | MAX. REC. TEMP. 50°C | EQUIPMENT NO. 1 | MAX. REC. TEMP. 50°C | EQUIPMENT LOCATION MOURLEA | RECORDED BY J. SMITH | WITNESSED BY J. BROWN

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE

LOG	EQUIPMENT: SONDE	SOURCE	CALIBRATOR	RATING: TAPED	RECORDING SPEED	REPEAT	SPEED: LOG	NORM	SHUNTS: ACROSS	WIRES	SCANNER NO.
GAMMA RAY	27805		183	Yes	3	G	9.75/3.4	1.25	29	0	Yes
DENSITY		50mc	44789	Yes	3	D	9.75/3.4	1.25	28	0	Yes
CALIPER	NORMAL POSITION			Yes	3	D	9.75/3.4		28	0	Yes

COAL QUALITY (SEAM THICKNESS LOG INTERVALS: Refer to lithology log)

		INTERVAL TOTAL
HOME	35	
TO	12	
INTERVAL	47	134

ADDITIONAL SONDES RUN

SONDE	LOG	GENERAL SCALE	DETAIL SCALE	LOG
Yes	Yes	1:100		

REFER TO ADDITIONAL HEADINGS

REMARKS

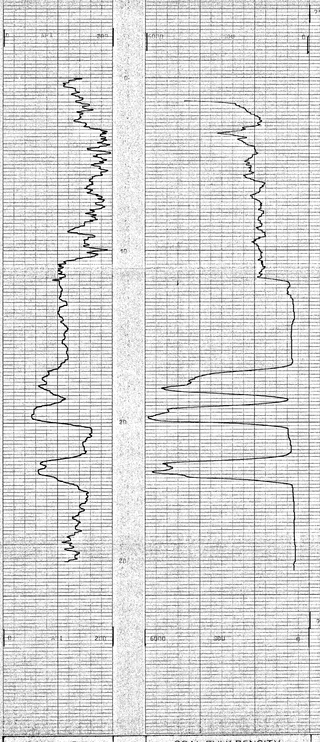
B PB COAL LITHOLOGY LOG

CALIBRATION DATA

JG No. 933 VALVES SD 3" DIAM	JG CAL DATE 27/7/83 JG VALVES 2000 SD 3" DIAM
JG MARK SHOWN AT ABOVE VALUE = 1.0	JG No. 1582 SPAN NORM 100 = 6.195

GAMMA RAY	DEPTH	COAL BULK DENSITY	CALIPER (INCHES)

HOLE SIZE CORRECTION DATA



GAMMA RAY | DEPTH | COAL BULK DENSITY | CALIPER (INCHES)

B PB
BOREHOLE W 70 AREA MOURLEA
CLIENT PETERCOM COUNTRY AUSTRALIA
COAL LITHOLOGY LOG

0
5800
19

5 cm

SEAM THICKNESS LOG

BPB

LOG SUITE
CALIPER
BR DENSITY

SONDE TYPE
COAL COMBINATION SONDE

BOREHOLE DATA
OPERATION DATA
EQUIPMENT AND RECORDING DATA
REMARKS AND INTERPRETATION

BOREHOLE
CLIENT

AREA
COUNTRY
DATE LOGGED

SEAM THICKNESS LOG INTERVALS

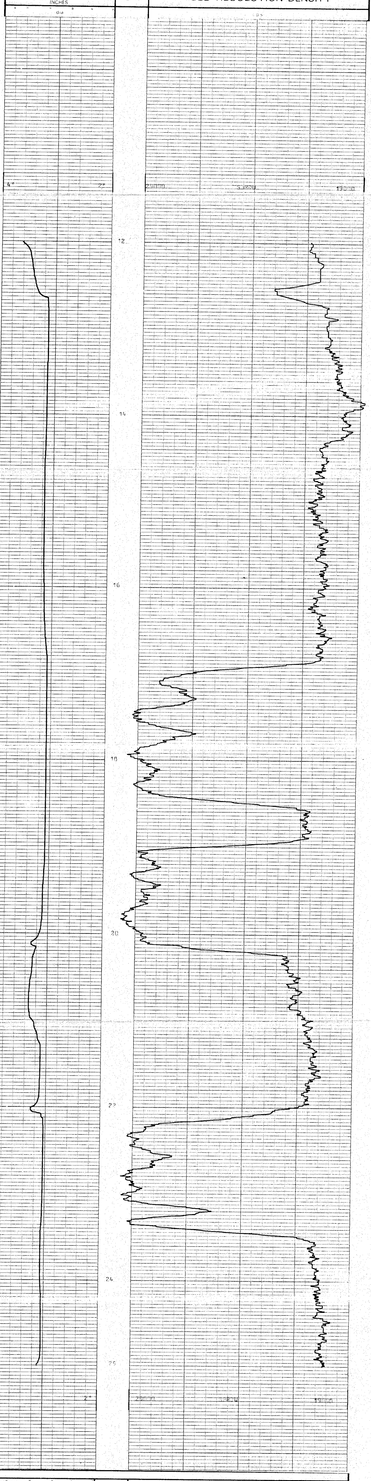
REMARKS

B P B SEAM THICKNESS LOG

CALIPER
INCHES

DEPTH

BED RESOLUTION DENSITY



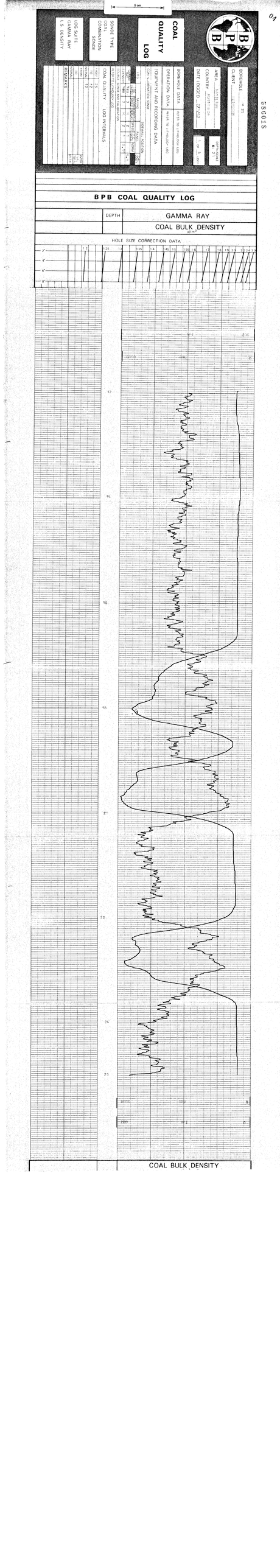
CALIPER
INCHES

DEPTH

BED RESOLUTION DENSITY

BOREHOLE
CLIENT

AREA
COUNTRY


5 cm
COAL QUALITY LOG
BOREHOLE
CLIENT
AREA
COUNTRY
DATE LOGGED
SONDE TYPE
COMBINATION SONDE
LOG SUITE
GAMMA RAY
L.S. DENSITY
REMARKS
BOREHOLE DATA
OPERATION DATA
EQUIPMENT AND RECORDING DATA
COAL QUALITY LOG INTERVALS
HOLE SIZE CORRECTION DATA
DEPTH
GAMMA RAY
COAL BULK DENSITY
BPB COAL QUALITY LOG
COAL BULK DENSITY

5 cm

586019

BPB

BOREHOLE H 21
CLIENT PETROCOM

AREA HAMILTON
COUNTRY AUSTRALIA
DATE LOGGED 27/1/83

1 OF 4 LOGS

DEPTH SCALE 1:200

REGISTRY FILE

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

LOG	TAPED	TAPING SPEED	RECORD REPLAY	DIRECTION	SPEED	PANEL T.C. SECS	NORM	CAL COEF
Yes	Yes				9			

COUNT NO.
SOURCE NO.

REMARKS

DEPTH

Low — High

7 — (water level)

11

20

26

Low — High

DEPTH

BPB

BOREHOLE H 21
CLIENT PETROCOM

AREA HAMILTON
COUNTRY AUSTRALIA

MYAS8452R

5 cm

B PB

COAL LITHOLOGY LOG

SONDE TYPE: COAL COMBINATION SONDE

LOG SUITE: GAMMA RAY, L S DENSITY, CALIPER

BOREHOLE: R 21
CLIENT: PETRACHEM
AREA: HARTLEY
COUNTRY: AUSTRALIA
DATE LOGGED: 27/1/83
DEPTH SCALE: 1:100
LOGGED: [illegible]

BOREHOLE DATA
PERMANENT DATUM: Ground level
ELEVATION OF P.D.
DRILLED: [illegible] G.L.
LOG MEASUREMENTS FROM: RPB
DEPTH REACHED: 26.16 G.L.
CASING SHOE
BIT SIZES: 1 3 4.5 TO 1.0 2 4
CASING SIZES: 1 3 TO 2 4 TO

FLUID DATA
NATURE: air/water
LEVEL
VISCOSITY
PH
BHT

OPERATION DATA
ENGINEER: M. Williams
WITNESS
UNIT / TRUCK No: 94/31C
INTERVAL LOGGED: 25
LAST READING: 23
FIRST READING: 0

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE

LOG	EQUIPMENT: SONDE	EQUIPMENT: SOURCE	EQUIPMENT: CALIBRATOR	TAPING: LOG TAPED	TAPING: RECORD SPEED	TAPING: DIRECT / REPLAY	PANEL: SENS	PANEL: LOG SCALE	PANEL: NORM	CAL FORCE	DEPTHS: FROM	DEPTHS: TO	DEPTHS: INTERVAL	SEAM LOG RUN
GAMMA RAY	22805		393	Yes	3	D	9,2	1,5		1.8	25	0	25	Yes
L S DENSITY		5854	water	Yes	3	D	9,2	1/3,1	6.05		25	0	25	Yes
CALIPER	SIDEWALL POSITION			Yes	3	D	9,2	1/3,1			25	0	25	Yes

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

FROM	20	INTERVAL TOTAL
TO	12	
INTERVAL	8	= 8m

ADDITIONAL SONDES RUN

SONDE	LOG	GENERAL SCALE LOG	DETAIL SCALE LOG
Res	Res	1:100	

REFER TO ADDITIONAL HEADINGS

REMARKS

B PB COAL LITHOLOGY LOG

CALIBRATION DATA

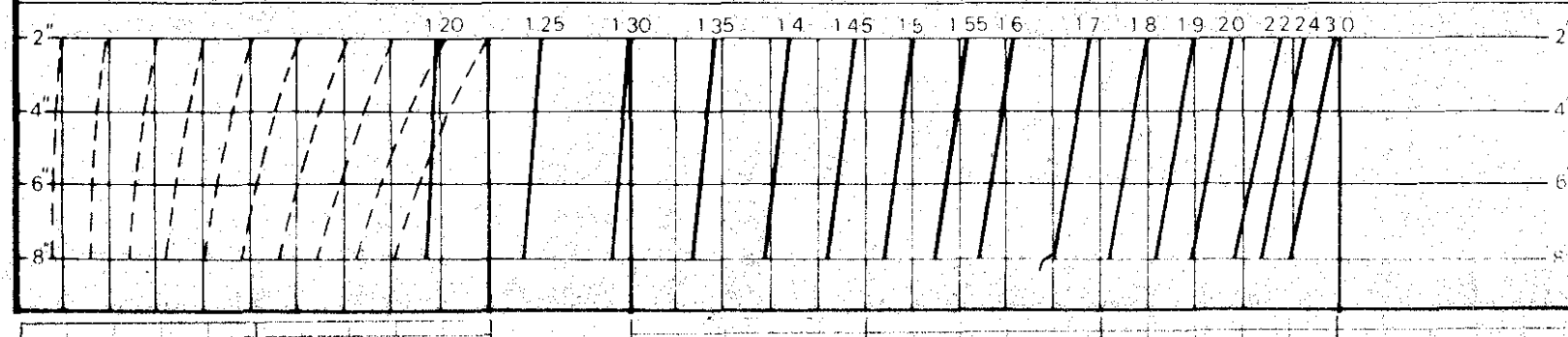
JIG No. 393 VALUE 53 @ 2" DIAM.
JIG MARK SHOWN AT ABOVE VALUE = 1.0

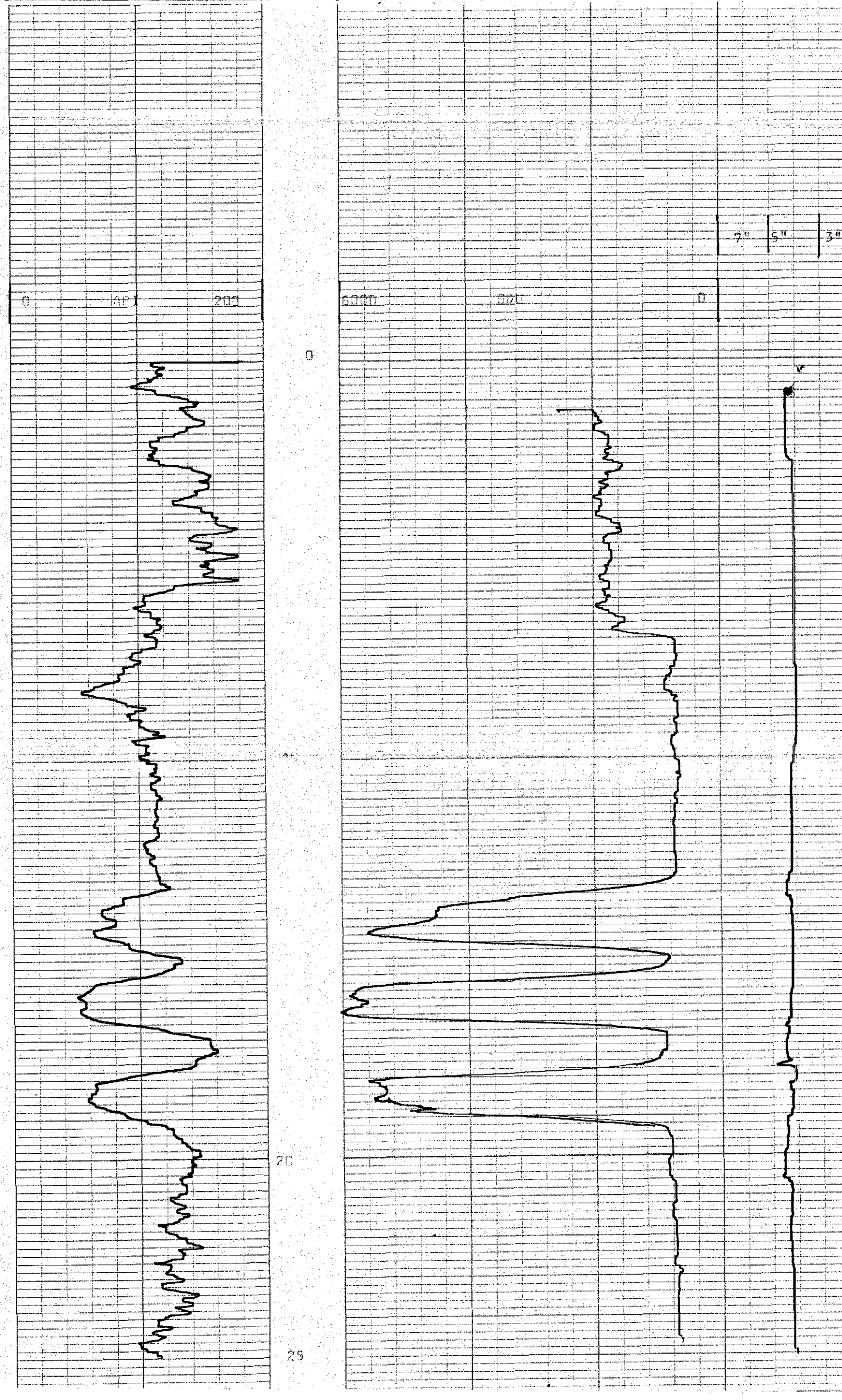
JIG CAL DATE 27/1/83 JIG VALUE 1.1300 SDU @ 1.1 gm/cm³
JIG No water SPAN NORM $\frac{SDU}{CPS}$ = 6.05

2 ins 890 cps
3 ins 490 cps

GAMMA RAY	DEPTH	COAL BULK DENSITY gm/cm³	CALIPER INCHES

HOLE SIZE CORRECTION DATA





5860220

11

586021

BOREHOLE H 21

CLIENT PETROCUM

AREA HAMILTON

COUNTRY AUSTRALIA

DATE LOGGED 27/1/83

DEPTH SCALE 1:20

3 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

SIDEWALL POSITION

LOG	TAPING: TOOL TAPED	TAPING: RECORD SPEED	TAPING: DIRECT OR REPLAY	PANEL: SPEED	PANEL: TC SECS	PANEL: NORM	CAL.
CALIPER	Yes	3	R	2	1/1		
B.R DENSITY	Yes	3	R	2	1/1	6.4B	

SOURCE SONDE AND CALIBRATION

REFER TO LITHOLOGY LOG

SEAM THICKNESS LOG INTERVALS

FROM	27	
TO	12	
INTERVAL	8	
FROM		INTERVAL TOTAL
TO		
INTERVAL		8m

REMARKS

SONDE TYPE
COAL
COMBINATION
SONDE

LOG SUITE
CALIPER
B.R DENSITY

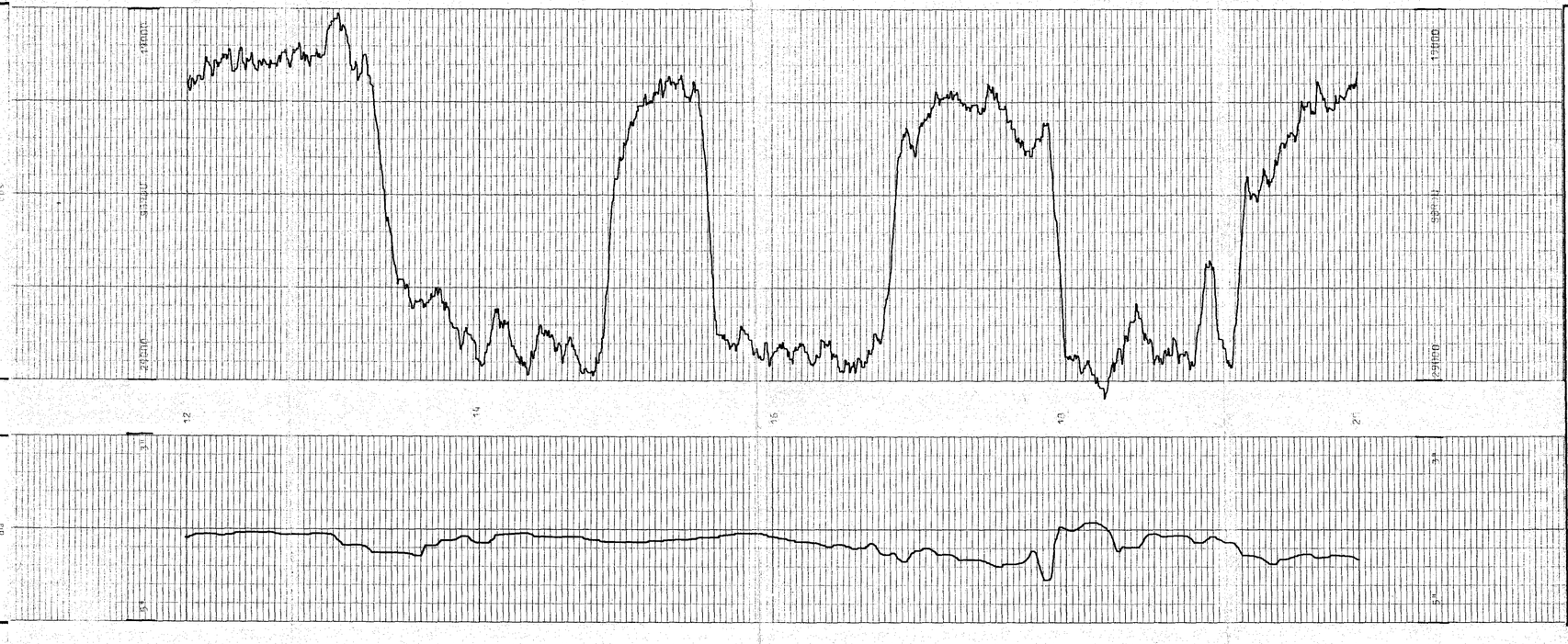
5 cm

B P B SEAM THICKNESS LOG

BED RESOLUTION DENSITY

DEPTH

CALIPER INCHES



BED RESOLUTION DENSITY

DEPTH

CALIPER INCHES

AREA HAMILTON

BOREHOLE H 21

12

586022

BPB

BOREHOLE H21

CLIENT PETROCOM

AREA HAMILTON

COUNTRY AUSTRALIA

DATE LOGGED 2/1/83

DEPTH SCALE 1:20

4 OF 4 LOGS

5cm

COAL QUALITY LOG

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

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE

SIDEWALL POSITION

LOG	LOG TAPED	TAPING RECORD SPEED	TAPING DIRECTION REPEAT	PANEL SPEED	PANEL J or SECS	PANEL NORM	CAL CHEK
GAMMA RAY	Yes	3	R	2	1		1.8
S DENSITY	Yes	3	R	2	1	6.89	

SOURCE SONDE AND CALIBRATION

REFER TO LITHOLOGY LOG

COAL QUALITY LOG INTERVALS

FROM	20	
TO	12	
INTERVAL	8	
FROM		INTERVAL TOTAL 8m
TO		
INTERVAL		

REMARKS

SONDE TYPE
COAL
COMBINATION
SONDE

LOG SUITE:
GAMMA RAY
L.S. DENSITY

BPB COAL QUALITY LOG

DEPTH

GAMMA RAY

COAL BULK DENSITY g/cm³

HOLE SIZE CORRECTION DATA

2.3 2.4 3.0

1.8 1.9 2.0

1.7

1.55 1.6

1.45 1.5

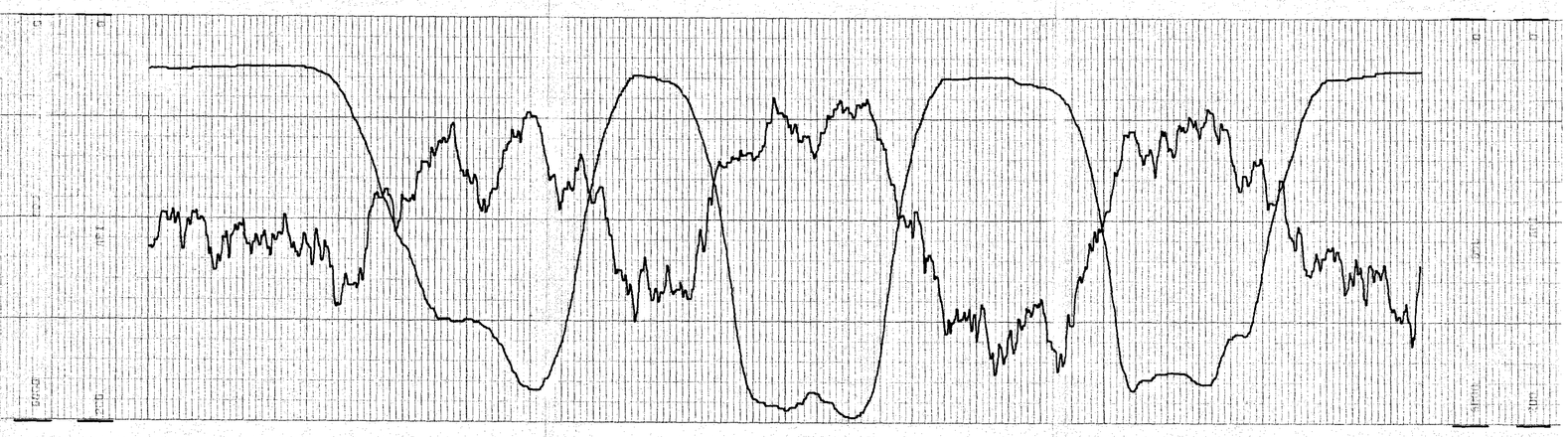
1.4

1.35

1.25

1.2

2" 4" 6" 8"



5 cm

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 or REPLAY	SPEED	T.C. SECS	NORM		FROM	TO	INTERVAL	
GAMMA RAY	22805	[redacted]	393	Yes	3	D	9.2	1.5		1.8	19	0	19	Yes
L.S. DENSITY	SIDEWALL	5854	water	Yes	3	D	9.2	1/3.1	6.13		19	0	19	Yes
CALIPER	POSITION	[redacted]		Yes	3	D	9.2	1/3.1			19	0	19	Yes

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

FROM	16	INTERVAL TOTAL
TO	7	
INTERVAL	9	9m

ADDITIONAL SONDES RUN					REMARKS
SONDE	LOG	GENERAL SCALE LOG	DETAIL SCALE LOG		
Res	Res	1:100		REFER	
				ADDITIONAL HEADINGS	

5860923

B P B COAL LITHOLOGY LOG

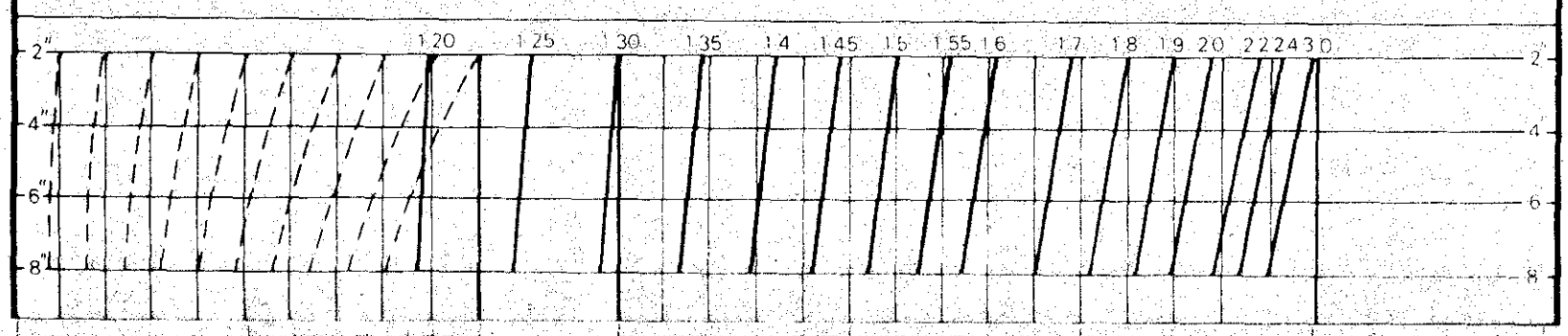
CALIBRATION DATA

JIG No 393 VALUE 553 @ 2" DIAM | JIG CAL DATE 27/1/[illegible] JIG VALUE [illegible] SDU @ 1.1 gl/cm³ | 7 ins 890 cps

JIG MARK SHOWN AT ABOVE VALUE = 1.8 | JIG No water SPAN NORM SDU/CPS = 0.75 | 3 ins 490 cps

GAMMA RAY	DEPTH	COAL BULK DENSITY gl/cm³	CALIPER INCHES

HOLE SIZE CORRECTION DATA



14

586024

RESISTIVITY LOG

BOREHOLE N 22

CLIENT PETROCOM

AREA HAMILTON

COUNTRY AUSTRALIA

DATE LOGGED 20/ /83

DEPTH SCALE 1:100

2 OF 4 LOGS

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

EQUIPMENT AND RECORDING DATA

LOG	TAPING			PANEL			CAL COEFF
	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	T C SECS	NORM	
es	Res			9			
		SONDE NO		SOURCE NO			

REMARKS

5 cm

DEPTH

water level

7

10

20

DEPTH

AREA HAMILTON

COUNTRY AUSTRALIA

BOREHOLE N 22

CLIENT PETROCOM

15

586025

BOREHOLE H 22

CLIENT PETROCOM

AREA HAMILTON

COUNTRY AUSTRALIA

DATE LOGGED 28/1/83

DEPTH SCALE 1:20

3 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

SIDEWALL POSITION

LOG	TAPING			PANEL			CAL COPY
	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	T.C. SECS	NORM	
CALIPER	Yes	3	R	2	1/3		
BR DENSITY	Yes	3	R	2	1/3	6.89	

SOURCE SONDE AND CALIBRATION

REFER TO LITHOLOGY LOG

SEAM THICKNESS LOG INTERVALS

FROM	16	
TO	7	
INTERVAL	9	
FROM		INTERVAL TOTAL
TO		
INTERVAL		=9m

REMARKS

SONDE TYPE
COAL
COMBINATION
SONDE

LOG SUITE
CALIPER
BR DENSITY

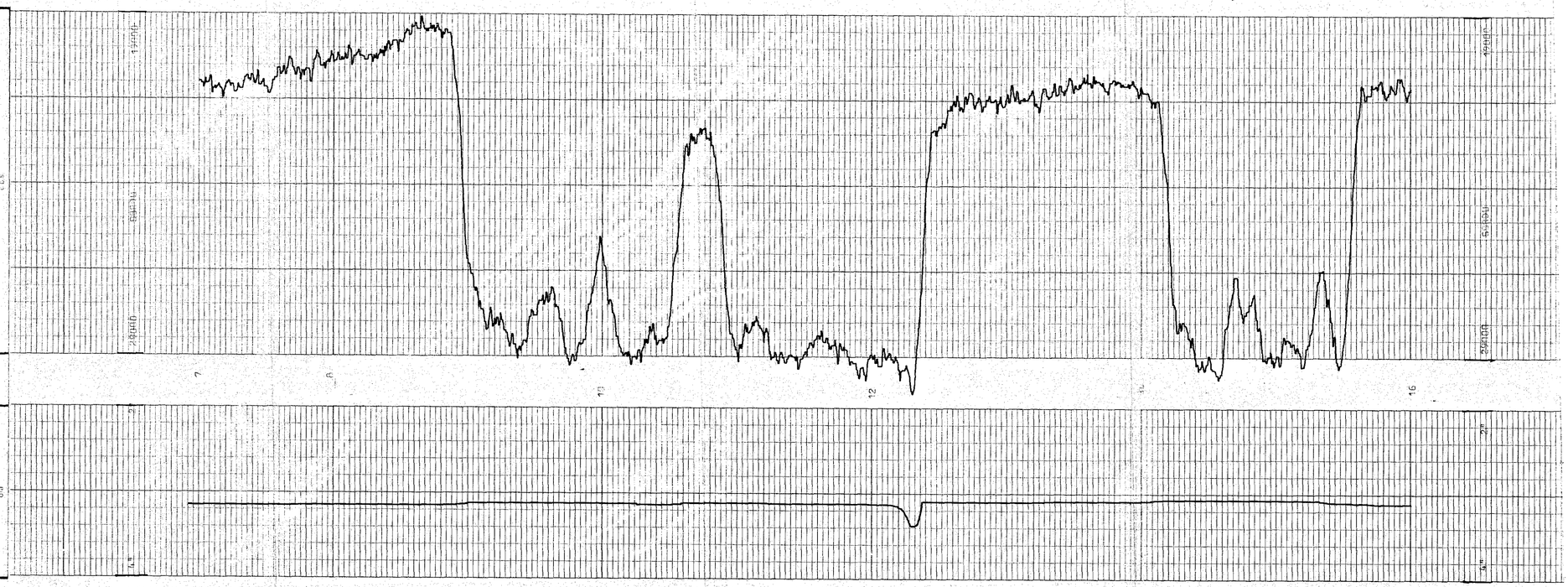
5 cm

B P B SEAM THICKNESS LOG

BED RESOLUTION DENSITY

DEPTH

CALIPER INCHES



16

586026

BOREHOLE H 22

CLIENT PETROCOM

AREA HAMILTON

COUNTRY AUSTRALIA

DATE LOGGED 28/1/83

DEPTH SCALE 1:20

4 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	TAPING			PANEL				LOG QUAL.
	LOG TAPED	RECORD SPEED	CORRECT REPLAY	SPEED	G.C. SECS	NORM		
GAMMA RAY	Yes	3	R	2	1		1.0	
L.S. DENSITY	Yes	3	R	2	1	6.05		

SIDEWALL POSITION

SOURCE SONDE AND CALIBRATION

REFER TO LITHOLOGY LOG

COAL QUALITY LOG INTERVALS

FROM	17	
TO	6	
INTERVAL	9	
FROM		INTERVAL TOTAL
TO		
INTERVAL		9m

REMARKS

SONDE TYPE
COAL
COMBINATION
SONDE

LOG SUITE
GAMMA RAY
L.S. DENSITY

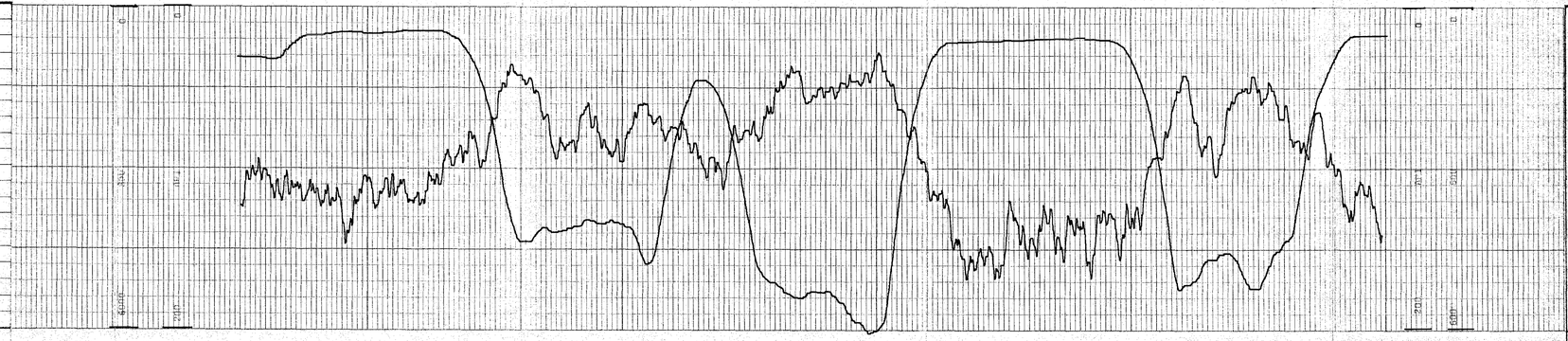
5cm

B P B COAL QUALITY LOG

DEPTH | GAMMA RAY | COAL BULK DENSITY g/cm3

HOLE SIZE CORRECTION DATA

2" 4" 6" 8"



COAL BULK DENSITY g/cm3 | GAMMA RAY | DEPTH

BOREHOLE H 22

CLIENT PETROCOM

AREA HAMILTON

COUNTRY AUSTRALIA

COAL QUALITY LOG

17

586027

RESISTIVITY LOG

BOREHOLE H 23

CLIENT PETROCOM

AREA HAMILTON

COUNTRY AUSTRALIA

DATE LOGGED 28/1/83

DEPTH SCALE 1:100

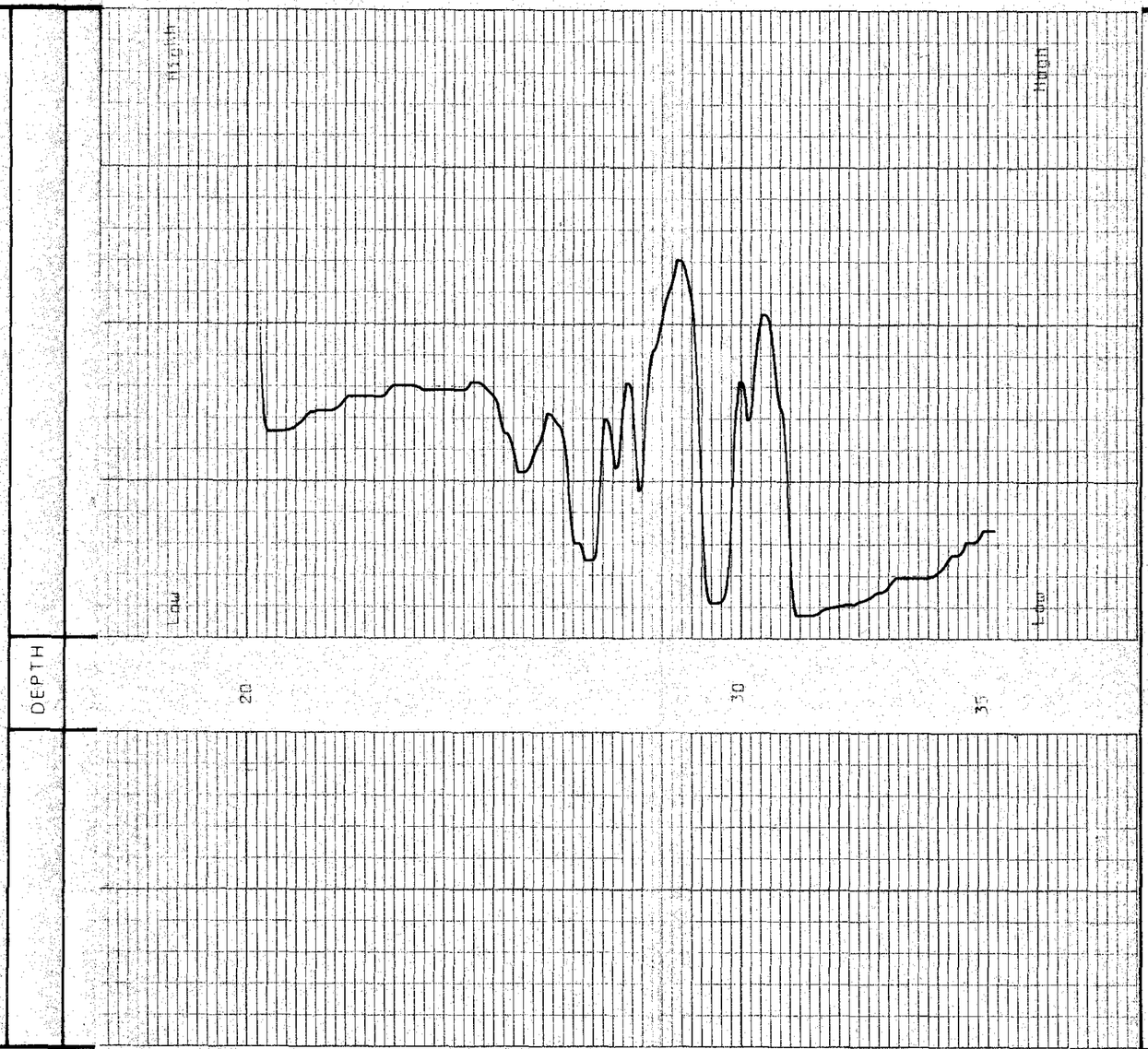
1 OF 4 LOGS

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

EQUIPMENT AND RECORDING DATA

LOG	TAPING			PANEL			CAL COEFF
	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	T C SECS	NORM	
Yes	No			9			
		SONDE NO		SOURCE NO			

REMARKS



5 cm

AREA HAMILTON

COUNTRY AUSTRALIA

BOREHOLE H 27

CLIENT PETROCOM

5 cm

COAL LITHOLOGY LOG

B P B

SONDE TYPE
COAL COMBINATION SONDE

LOG SUITE
GAMMA RAY
L.S. DENSITY
CALIPER

BOREHOLE DATA
PERMANENT DATUM: Ground Level
ELEVATION OF P.D.:
LOG MEASURED FROM: B P B
DRILLER: T.D. 36
LOGGER: T.D.
CASING SIZES: 1 TO 2 TO 3 TO
CASING SHOE: 35.7B
BIT SIZES: 1 4.5 TO 1 3.4 TO 2 TO 3 TO
FLUID DATA
TYPE: Air/water
LEVEL:
VISCOSITY:
TEMPERATURE:
OPERATION DATA
RIG: 21.3.
LAST READING:
INTERVAL LOGGED: 0 TO 34
UNIT / TRUCK No.: 44/736
ENGINEER: P.4.11.13 Lamp
WITNESS:

BOREHOLE: H 23
CLIENT: EETINGORM
AREA: HOPETEES
COUNTRY: AUSTRALIA
DATE LOGGED: 29/1/13
2 LOG 4 LOGS
1:100 / 1:200 SCALE

586028

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	T.C. SECS	NORM	FROM	TO	INTERVAL	
GAMMA RAY	2280S		393	Yes	3	D	9.2	1.5	1.8	34	0	34	Yes
L.S. DENSITY	SIDEWALL POSITION	0854	water	Yes	3	D	9.2	1/3	5.65	34	0	34	Yes
CALIPER				Yes	3	D	9.2	1/3/1		34	0	34	Yes

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

FROM	32	INTERVAL TOTAL
TO	25	
INTERVAL	7	7m

ADDITIONAL SONDES RUN

SONDE	LOG	GENERAL SCALE LOG	DETAIL SCALE LOG
Res	Res	1:100	

REFER TO ADDITIONAL HEADINGS

REMARKS

B P B COAL LITHOLOGY LOG

CALIBRATION DATA

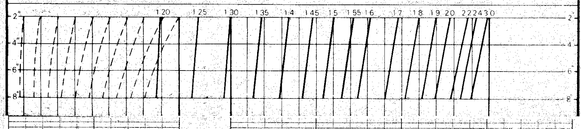
JIG No. 393 VALUE 53 @ 2" DIAM.
JIG MARK SHOWN AT ABOVE VALUE = 1.8

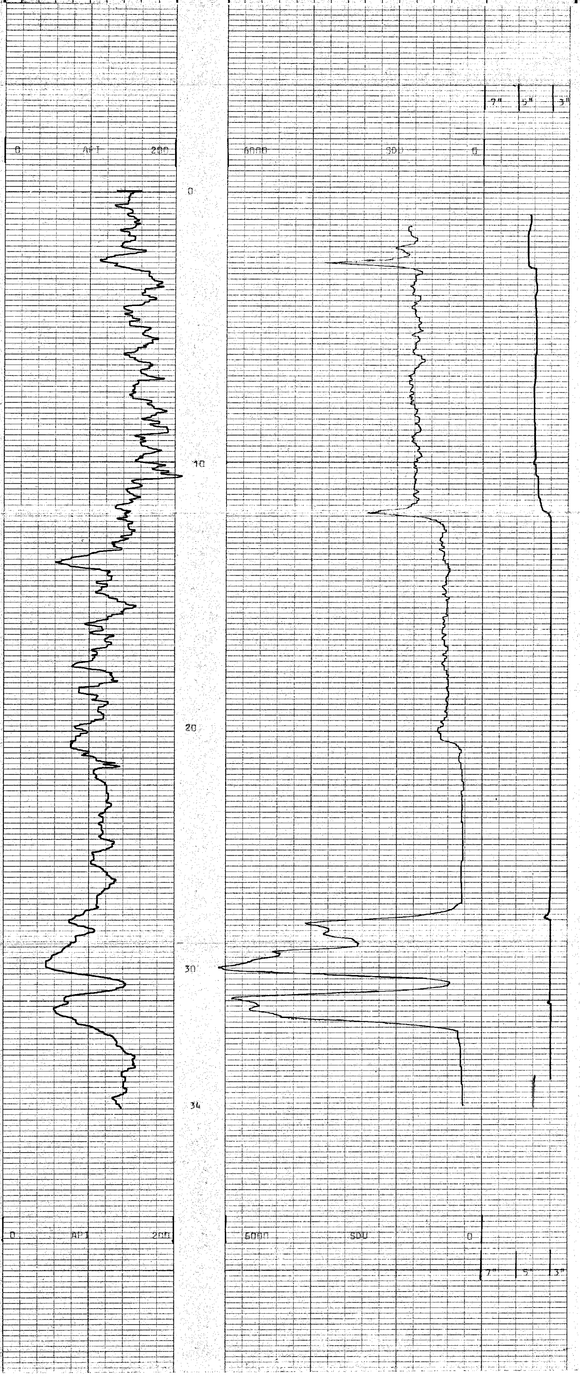
JIG CAL DATE 27/1/13 JIG VALUE 1.13 gm/cm³ SDU @ 1.1 gm/cm³
JIG No water SPAN NORM SDU/CPS = 6.15

7 ins 890 cps
3 ins 491 cps

GAMMA RAY	DEPTH	COAL BULK DENSITY gm/cm³	CALIPER INCHES

HOLE SIZE CORRECTION DATA





19

586029

BOREHOLE H 23

CLIENT PETROCUM

AREA HAMILTON

COUNTRY AUSTRALIA

DATE LOGGED 20/7/83

DEPTH SCALE 1:200

3 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

SIDEWALL POSITION

LOG	TAPING			PANEL			CAL COPY
	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	TC SECS	NORM	
CALIPER	Yes	3	R	2	1/3		
B.R. DENSITY	Yes	3	R	2	1/3	6.89	

SOURCE SONDE AND CALIBRATION

REFER TO LITHOLOGY LOG

SEAM THICKNESS LOG INTERVALS

FROM	32
TO	25
INTERVAL	7
FROM	
TO	
INTERVAL	
INTERVAL TOTAL	≈ 7m

REMARKS

SONDE TYPE: COAL COMBINATION SONDE

LOG SUITE: CALIPER B.R. DENSITY

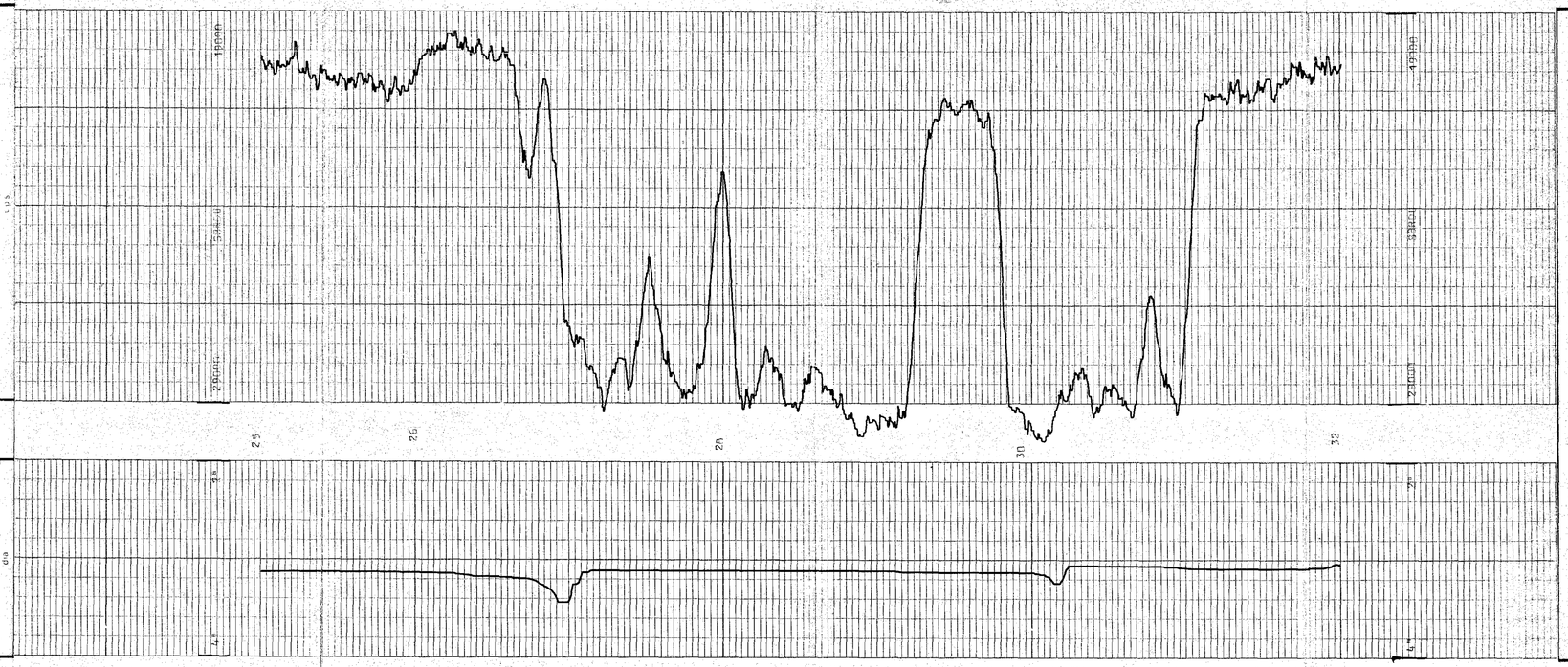
5cm

B P B SEAM THICKNESS LOG

BED RESOLUTION DENSITY

DEPTH

CALIPER INCHES



BED RESOLUTION DENSITY

DEPTH

CALIPER INCHES

AREA HAMILTON

COUNTRY AUSTRALIA

BOREHOLE H 23

CLIENT PETROCUM

SEAM THICKNESS LOG

20

586030

BOREHOLE H 23

CLIENT PETROCOM

AREA HAMILTON

COUNTRY AUSTRALIA

DATE LOGGED 28/1/83

DEPTH SCALE 1:20

4 OF 4 LOGS

COAL QUALITY LOG

5 cm

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

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE

SIDEWALL POSITION

LOG	TAPING			PANEL			CAL CORR'T
	LOG TAPED	RECORD SPEED	DIRECTION REPLAY	SPEED	T.C. SECS	NORM	
GAMMA RAY	Yes	3	R	2	1		1.54
L.S. DENSITY	Yes	3	R	2	1	6.05	

SOURCE: SONDE AND CALIBRATION

REFER TO LITHOLOGY LOG

SONDE TYPE: COAL COMBINATION SONDE

COAL QUALITY LOG INTERVALS

FROM	32	
TO	25	
INTERVAL	7	
FROM		INTERVAL TOTAL
TO		≠ 7m
INTERVAL		

LOG SUITE: GAMMA RAY L.S. DENSITY

REMARKS

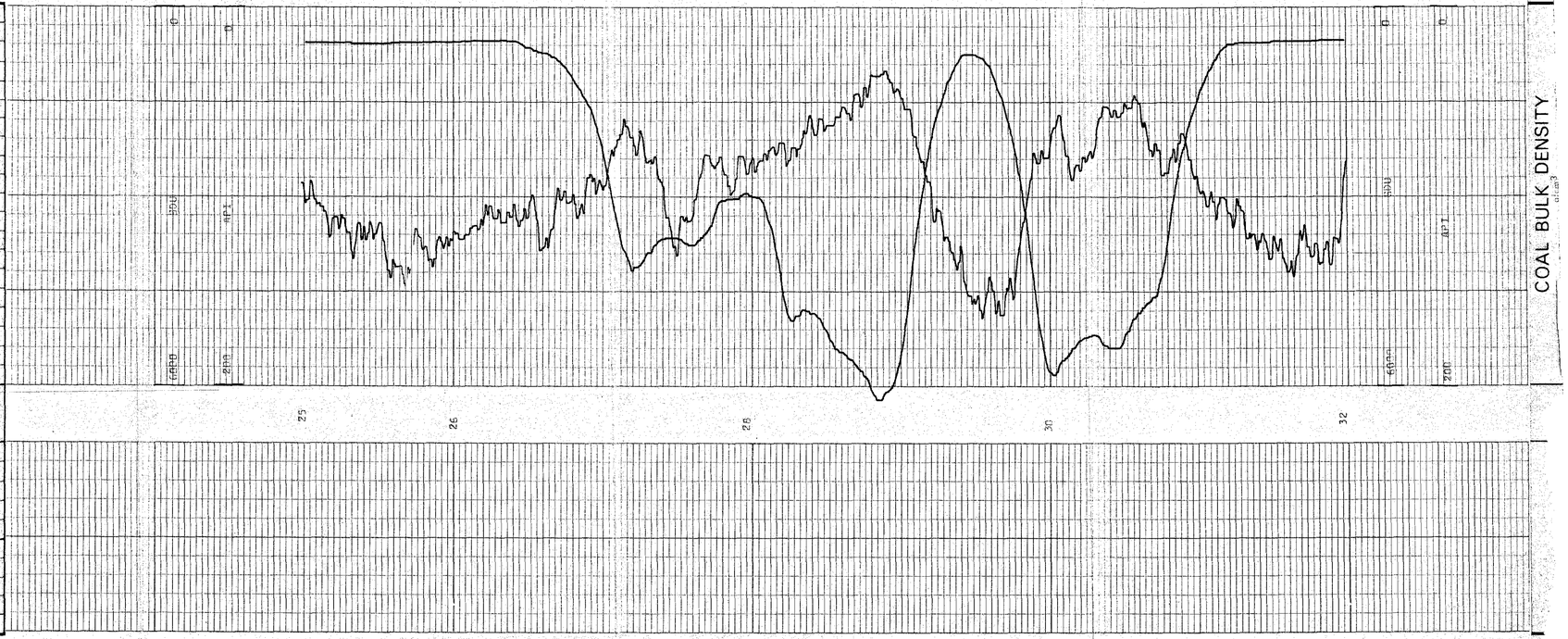
B P B COAL QUALITY LOG

GAMMA RAY

COAL BULK DENSITY g/cm³

DEPTH

HOLE SIZE CORRECTION DATA



21

586031

RESISTIVITY LOG

BOREHOLE H 24

CLIENT PETROCOM

AREA HAMILTON

COUNTRY AUSTRALIA

DATE LOGGED 27/1/83

DEPTH SCALE 1:100

1 OF 4 LOGS

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

EQUIPMENT AND RECORDING DATA

LOG	TAPING			PANEL			CAL COEFF
	LOG TAPED	RECORD SPEED	DIRECTor REPLAY	SPEED	T.C. SECS	NORM	
Res	No			9			
		SONDE NO		SOURCE NO			

REMARKS

DEPTH

High

Low

Water level

7

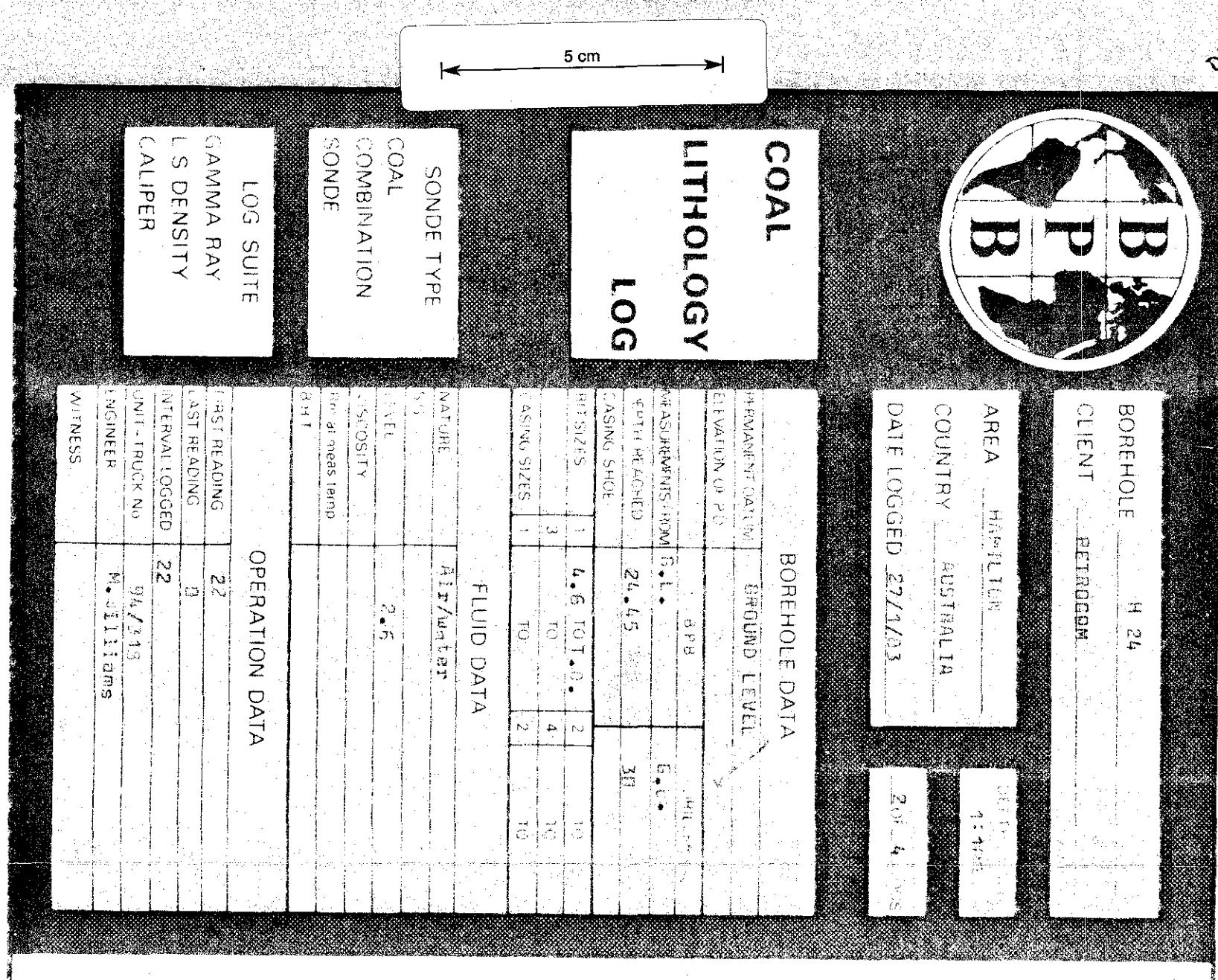
13

20

24

DEPTH

5 cm



586032

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	TIME CONST SECS	NORM	FROM	TO	INTERVAL	
GAMMA RAY	22805		393	Yes	3	D	9,2	1,5	1.9	22	0	22	Yes
L S DENSITY		5854	water	Yes	3	D	9,2	1/3,3	6.05	22	0	22	Yes
CALIPER	SIDEWALL POSITION			Yes	3	D	9,2	1/3,1		22	0	22	Yes

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

FROM	22	INTERVAL TOTAL
TO	16	
INTERVAL	4	4m

ADDITIONAL SONDES RUN				REMARKS
SONDE	LOG	GENERAL SCALE LOG	DETAIL SCALE LOG	
Res	Res	1:100		REFER TO ADDITIONAL HEADINGS

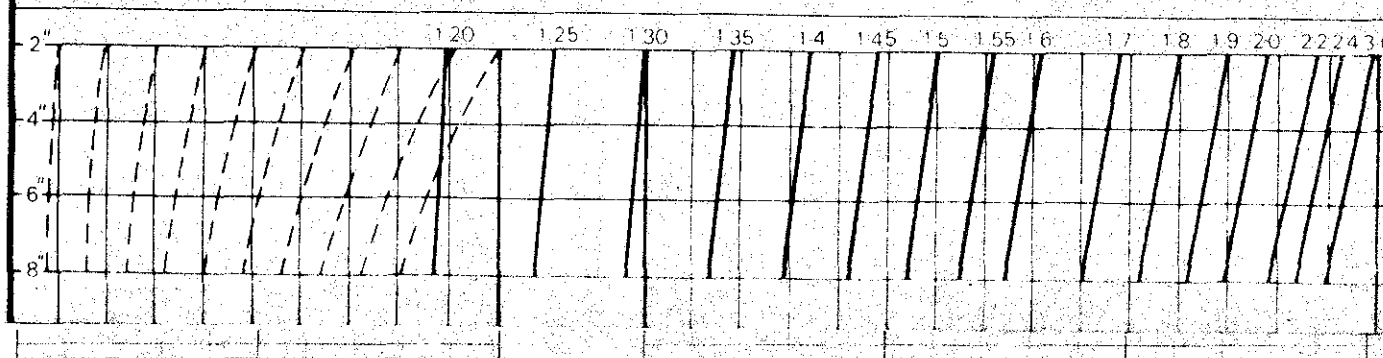
B PB COAL LITHOLOGY LOG

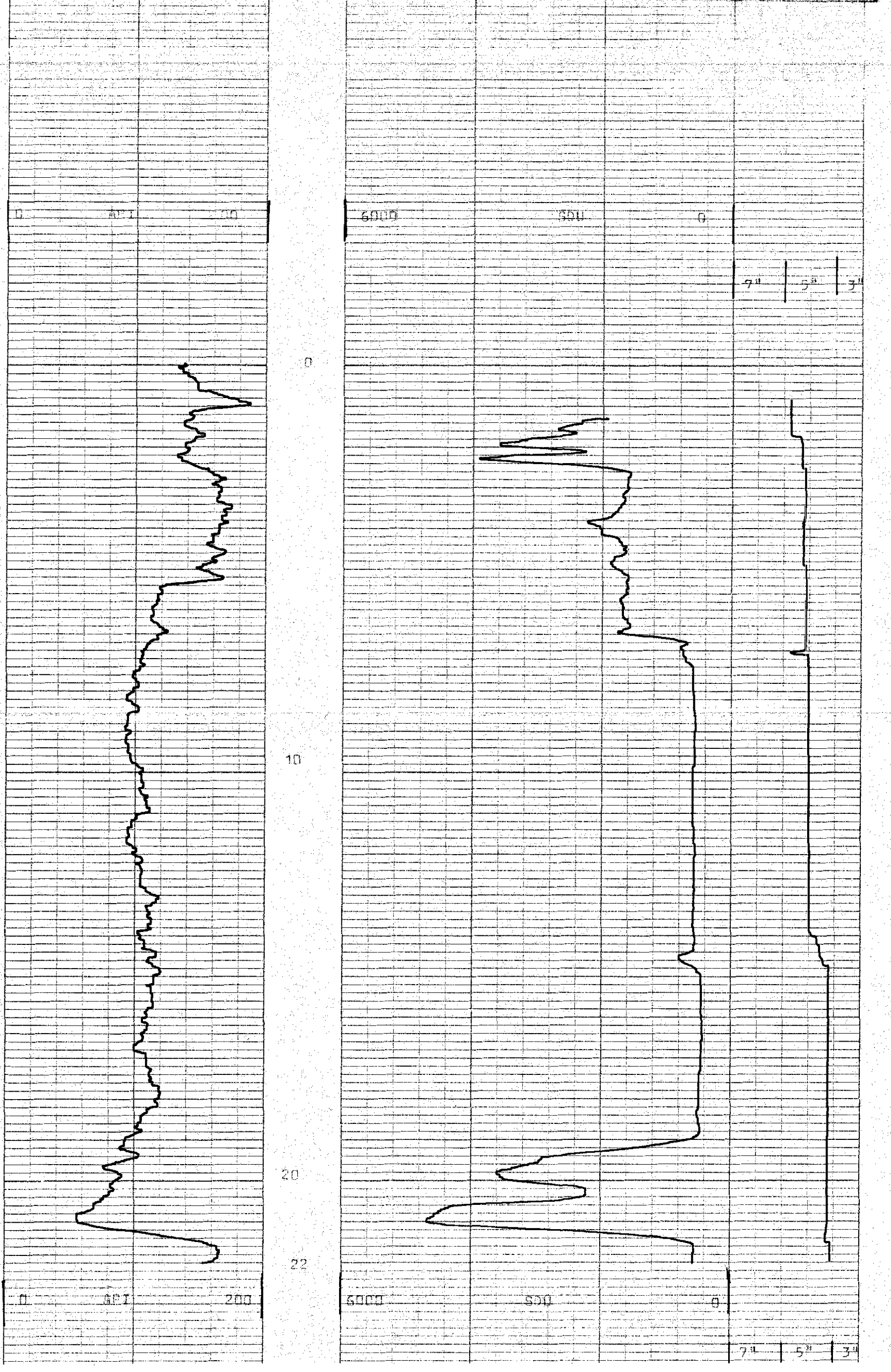
CALIBRATION DATA

JIG No 393 VALUE 5.2 @ 2" DIAM	JIG CAL DATE 27/1/93	JIG VALUE 10.300	SDL @ 1.1 g/cm³ 7 ins 890 cps
JIG MARK SHOWN AT ABOVE VALUE -1.8	JIG No water SPAN	NORM SDL/CPS = 6.05	3 ins 490 cps

GAMMA RAY	DEPTH	COAL BULK DENSITY g/cm³	CALIPER INCHES

HOLE SIZE CORRECTION DATA





5 cm

SEAM THICKNESS LOG

SONDE TYPE: COAL COMBINATION SONDE

LOG SUITE: CALIPER, B R DENSITY

BOREHOLE H 24
CLIENT PETROCOM

AREA HAMILTON
COUNTRY AUSTRALIA
DATE LOGGED 27/1/83

DEPTH SCALE 1:20

3 OR 4 LOGS

BOREHOLE DATA — REFER TO LITHOLOGY LOG

OPERATION DATA — REFER TO LITHOLOGY LOG

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE

LOG	LOG TAPED	TAPING RECORD SPEED	DIRECT REPLAY	SPEED	TCS	NORM	CORE
CALIPER	Yes	3	N	2	1/3	1/3	
B R DENSITY	Yes	3	R	2	1/3	1/3	

SIDEWALL POSITION

PANEL

SOURCE SONDE AND CALIBRATION

REFER TO LITHOLOGY LOG

SEAM THICKNESS LOG INTERVALS

	FROM	TO	INTERVAL
	22	18	4

REMARKS

INTERVAL TOTAL ± 1/m

B P B SEAM THICKNESS LOG

CALIPER INCHES	DEPTH	BED RESOLUTION DENSITY
4" 2"		2.5000 2.5000 1.5000
	18	
	20	
	22	
4" 2"		2.5000 2.5000 1.5000

CALIPER INCHES	DEPTH	BED RESOLUTION DENSITY
" " dia " "		c.p.s

BOREHOLE H24
CLIENT PETROCOM
AREA HAMILTON
COUNTRY AUSTRALIA

SEAM THICKNESS LOG

586033

24

5 cm

586034

BOREHOLE H 24

CLIENT PETROLEUM

AREA HAMILTON

COUNTRY AUSTRALIA

DATE LOGGED 27/1/83

DEPTH SCALE 1:20

4 OF 4 LOGS

COAL QUALITY 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

SIDEWALL POSITION

LOG	TAPING		PANEL			CAL COEF
	LOG TAPED	RECORD SPEED	DIRECT or REPLAY	SPEED	T.C. SECS	NORM	
GAMMA RAY	Yes	3	R	2	1	6.05	1.2
LS DENSITY	Yes	3	R	2	1	6.05	

SOURCE SONDE AND CALIBRATION

REFER TO LITHOLOGY LOG

COAL QUALITY LOG INTERVALS

FROM	22		
TO	18		
INTERVAL	4		INTERVAL TOTAL = 4m
FROM			
TO			
INTERVAL			

REMARKS

25

586035

BOREHOLE

CLIENT

AREA HAMILTON

COUNTRY AUSTRALIA

DATE LOGGED 27/1/83

DEPTH SCALE 1:100

1 OF 4 LOGS

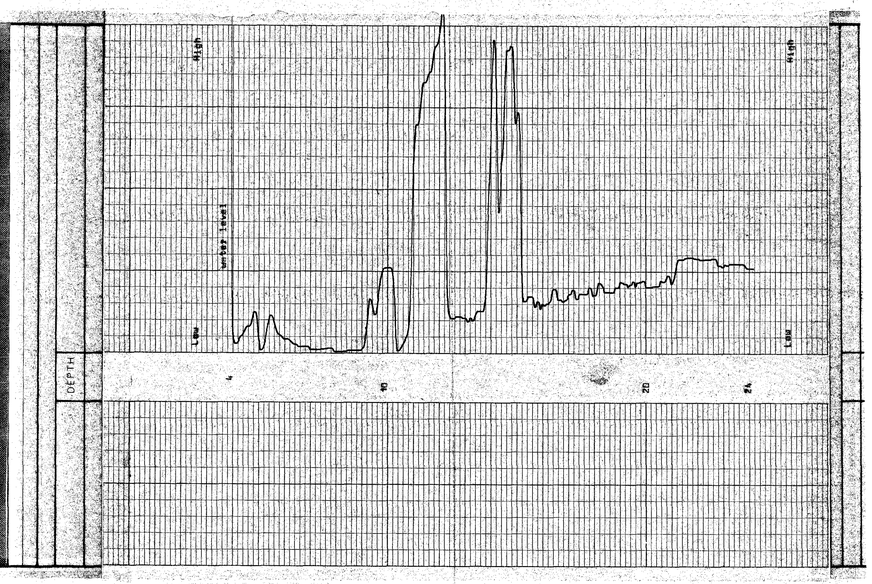
BOREHOLE DATA	REFER TO LITHOLOGY	LOG
OPERATION DATA	REFER TO LITHOLOGY	LOG

EQUIPMENT AND RECORDING DATA

LOG	TAPING			PANEL			CAL COEFF
	LOG TAPED	RECORDER SPEED	CORRECT REPLAY	SPEED	T.C. SECS	NORM	
Res	no. 5			5			

SONDE NO. PROBE NO.

REMARKS



5 cm

5 cm

COAL LITHOLOGY LOG

BPB

LOG SUITE
GAMMA RAY
L.S. DENSITY
CALIPER

SONDE TYPE
COAL
COMBINATION
SONDE

BOREHOLE DATA

BOREHOLE H 22
CLIENT PETROGLYM AUST.
AREA HAMILTON
COUNTRY AUSTRALIA
DATE LOGGED 27/1/93
2.654 LOGS
DEPTH SCALE 1:110

PERMANENT DATUM	Ground level
ELEVATION OF P.D.	
MEASUREMENTS FROM	BPB
DEPTH REACHED	24.2
CASING SHOE	6.1
DRILLER	6.1
	23
BIT SIZES	1 4.5 TO T.D. 2
	TO 4 TO
CASING SIZES	3 TO 2 TO
FLUID DATA	
NATURE	Air/water
S.G.	
LEVEL	6M
VISCOSITY	
Rm @ meas temp	
BHT	
OPERATION DATA	
FIRST READING	23
LAST READING	0
INTERVAL LOGGED	23
UNIT & TRUCK No.	96/93/18
ENGINEER	Barry Williams
WITNESS	

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE

LOG	EQUIPMENT: SONDE	SOURCE	CALIBRATOR	TAPING: LOG TAPED	RECORD SPEED	DIRECT OR REPLAY	PANEL: SPEED	T/C SECS	NORM	CAL COEFF	DEPTHS: FROM	TO	INTERVAL	SEAM LOG RUN
GAMMA RAY	22805		393	Yes	3	D	9,2	1,5		1,8	23	0	23	Yes
L.S. DENSITY		5834	water	Yes	3	D	9,2	1/3,			23	0	23	Yes
CALIPER	SIDEWALL POSITION			Yes	3	D	9,2	1/3,			23	0	23	Yes

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

FROM	17	INTERVAL TOTAL
TO	8	
INTERVAL	9	9M

ADDITIONAL SONDES RUN

SONDE	LOG	GENERAL SCALE LOG	DETAIL SCALE LOG
Res	Res	1:100	

REFER TO ADDITIONAL HEADINGS

REMARKS

B P B COAL LITHOLOGY LOG

CALIBRATION DATA

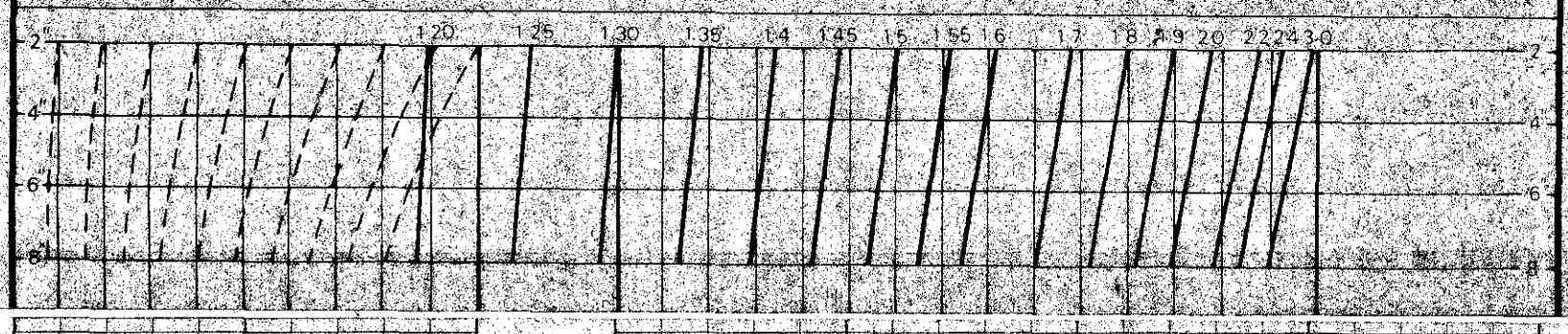
JIG No. 393 VALUE 553 @ 2" DIAM
JIG MARK SHOWN AT ABOVE VALUE = 1.8

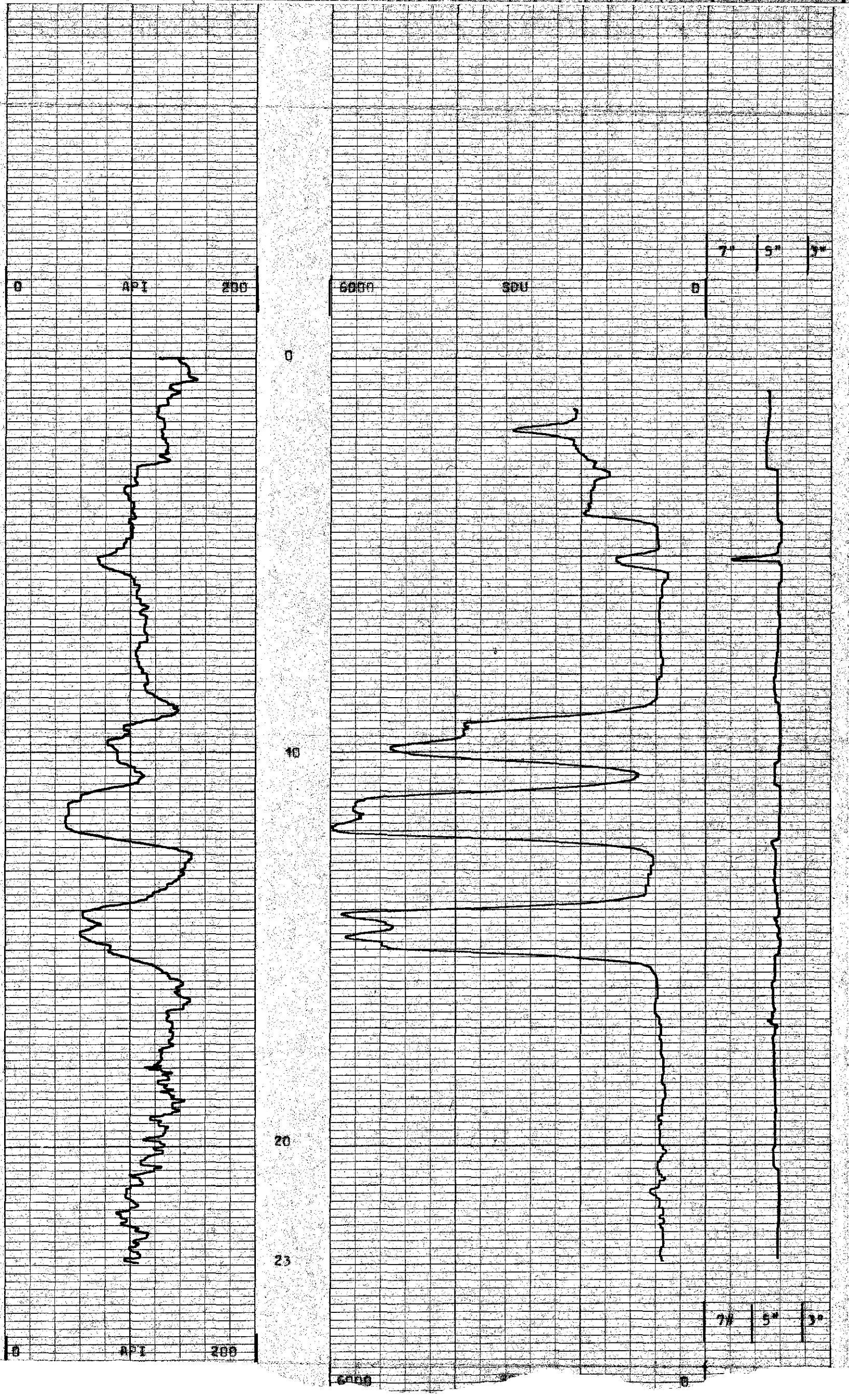
JIG CAL DATE 27/1/93 JIG VALUE 1033 SDU @ 1.1 g/cm³
JIG No. water SPAN NORM SDU/FPS = 6.05

2 ins 890 cps
3 ins 490 cps

GAMMA RAY	DEPTH	COAL BULK DENSITY g/cm³	CALIPER INCHES

HOLE SIZE CORRECTION DATA





27.

586037

BPB

BOREHOLE H 27

CLIENT PETROCEM AUST.

AREA HAMILTON

COUNTRY AUSTRALIA

DATE LOGGED 27/1/83

DEPTH SCALE 1:20

2 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

SIDEWALL POSITION

LOG	TAPING OD TAPED	TAPING RECORD SPEED	TAPING DIRECT OF REPLAY	PANEL SPEED	PANEL TC SECS	PANEL NORM	CAL CENT
CALIPER	Yes	3	R	2	1		
BR DENSITY	Yes	2	R	3	1/3	6.89	

SOURCE SONDE AND CALIBRATION

REFER TO LITHOLOGY LOG

SEAM THICKNESS LOG INTERVALS

FROM	17
TO	8
INTERVAL	9
FROM	
TO	
INTERVAL	

INTERVAL TOTAL = 9m

REMARKS

SONDE TYPE
COAL
COMBINATION
SONDE

OG SUITE
LIPER
ENSITY

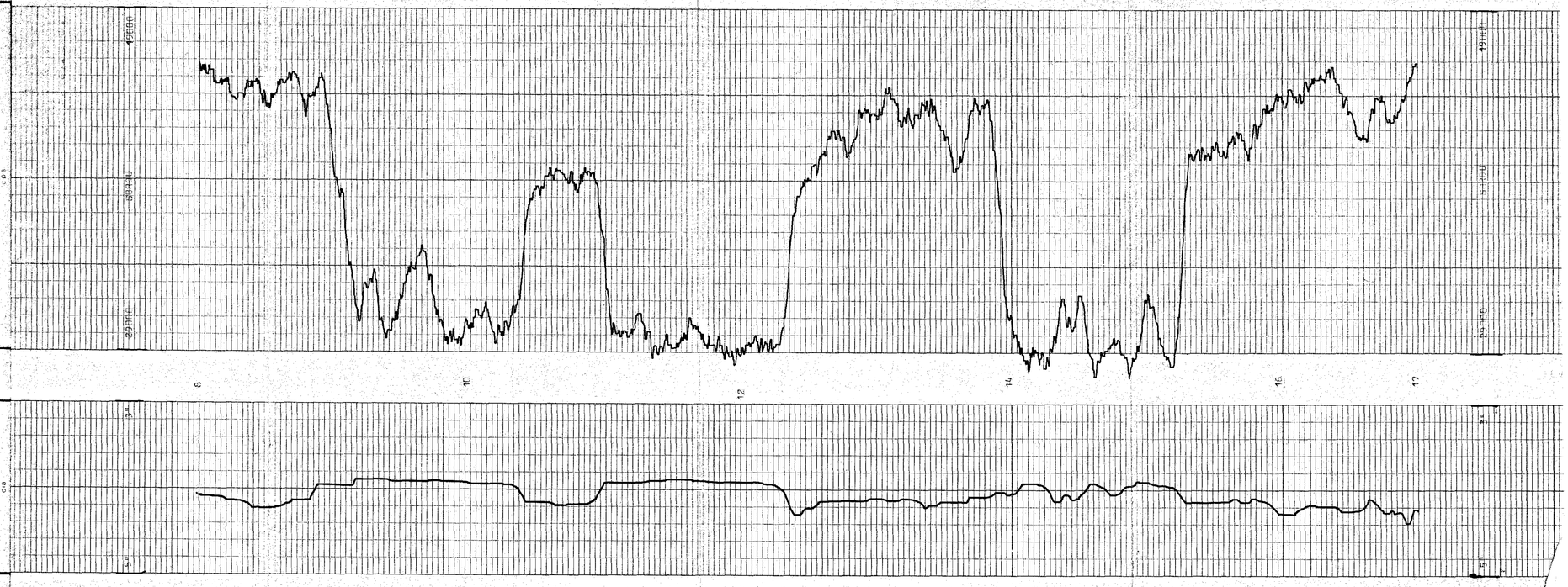
5 cm

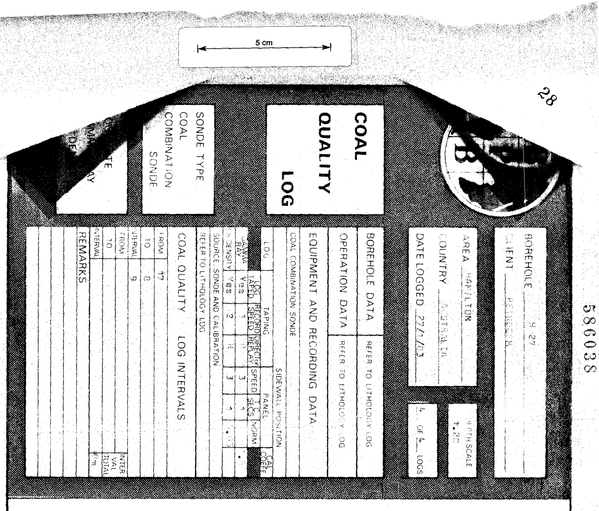
B P B SEAM THICKNESS LOG

BED RESOLUTION DENSITY

DEPTH

CALIPER INCHES



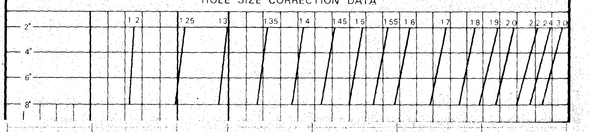


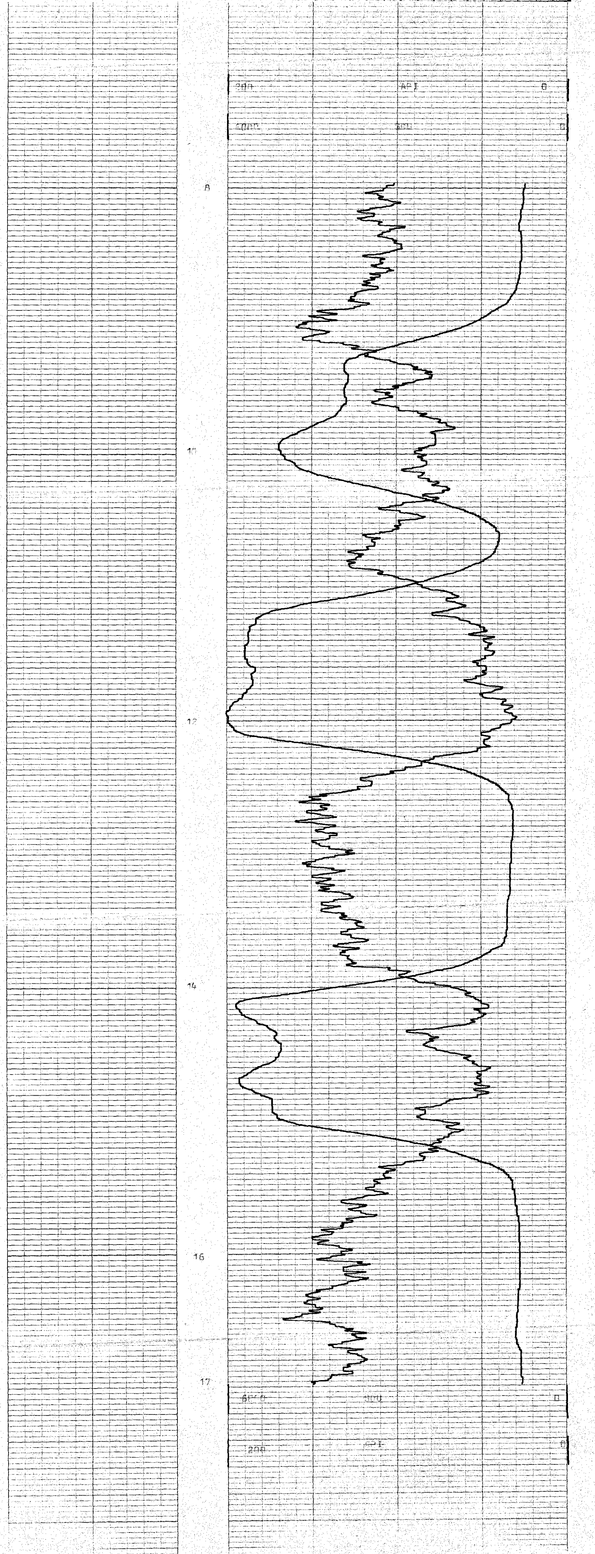
58038

BPB COAL QUALITY LOG

	DEPTH	GAMMA RAY
		COAL BULK DENSITY g/cm³

HOLE SIZE CORRECTION DATA





	DEPTH	COAL BULK DENSITY
		GAMMA RAY

BPB

BOREHOLE
AREA
COUNTRY
COAL QUALITY LOG

29

586039

RESISTIVITY LOG

BOREHOLE H 26

CLIENT PETROFINA

AREA HAMILTON

COUNTRY AUSTRALIA

DATE LOGGED 26/1/83

DEPTH SCALE 1:100

1 OF 1 FILE

BOREHOLE DATA refer to LITHOLOGY LOG

OPERATION DATA refer to LITHOLOGY LOG

EQUIPMENT AND RECORDING DATA

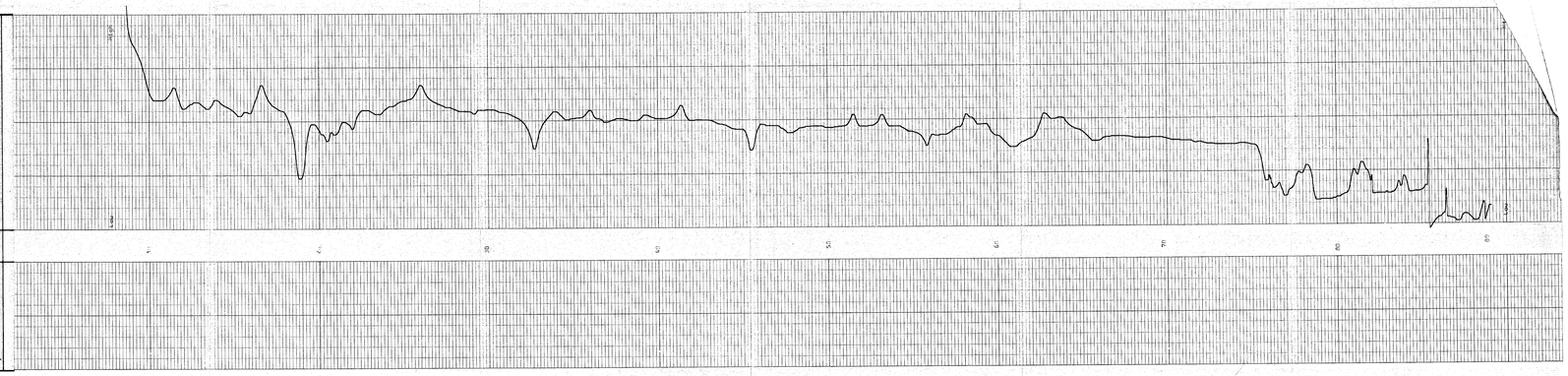
LOG	TAPING			PANEL			DATE
	LOG TAPE No	TAPE SPEED	DEPTH REPEAT	SPEED ips	SECS	NORM	
RES	No						

LOGGED BY

WITNESSED BY

REMARKS

DEPTH



586040

5cm

COAL LITHOLOGY LOG

B P B

COAL LITHOLOGY LOG SUITE GAMMA RAY L.S. DENSITY CALIPER

SONDE TYPE COMPANY COMBINATION SONDE

BOREHOLE No. 428
CLIENT PETROMIN

AREA MIDDLETON
COUNTRY AUSTRALIA
DATE LOGGED 22/7/83

DRILLER'S DEPTH 2m
LOGGER'S DEPTH 2m

RECORDED BY
WITNESSED BY

BOREHOLE DATA
Ground Level
DEPTH DRILLER 74m
DEPTH LOGGER 74m

PERMANENT DATUM
DESCRIPTION
ELEVATION

FLUID DATA
RESISTIVITY
CONDITIONS
TEMPERATURE
DENSITY
LEVEL
SOURCE

OPERATION DATA
RUN NUMBER 1
DATE 22/7/83
TIME ON BOTTOM
TIME OFF BOTTOM
MAX. TEMP. REC.
EQUIP. NO. & LOCATION
RECORDED BY Williams
WITNESSED BY

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE

LOG	EQUIPMENT			TAPING				PANEL		DEPTHS			TEAM LOCATION
	SONDE	SOURCE	CALIBRATION	LOG TAPED	RECORDED SPEED	CORRECT REF. APPLIED	LOG SPEED	NORM	LOG	FROM	TO	METRES	
GAMMA RAY	22805		393	Yes	3	0	9.2	1.5	1.0	37	5	32	Yes
DENSITY	5934		water	Yes	3	0	9.2	3/3.1	6.25	87	5	82	Yes
CALIPER				Yes	3	0	9.2	3/3.1		87	5	82	Yes

COAL QUALITY / SEAM THICKNESS LOG INTERVALS - Refer to transcript log

		INTERVAL TOTAL
FROM	86	
TO	74	
INTERVAL	12	17m

ADDITIONAL SONDES RUN

SONDE	LOG	GENERALL DETAIL SCALE LOGS ALL LOG
Yes	Yes	1:500

REMARKS

REMARKS TO ADDITIONAL READINGS

B P B COAL LITHOLOGY LOG

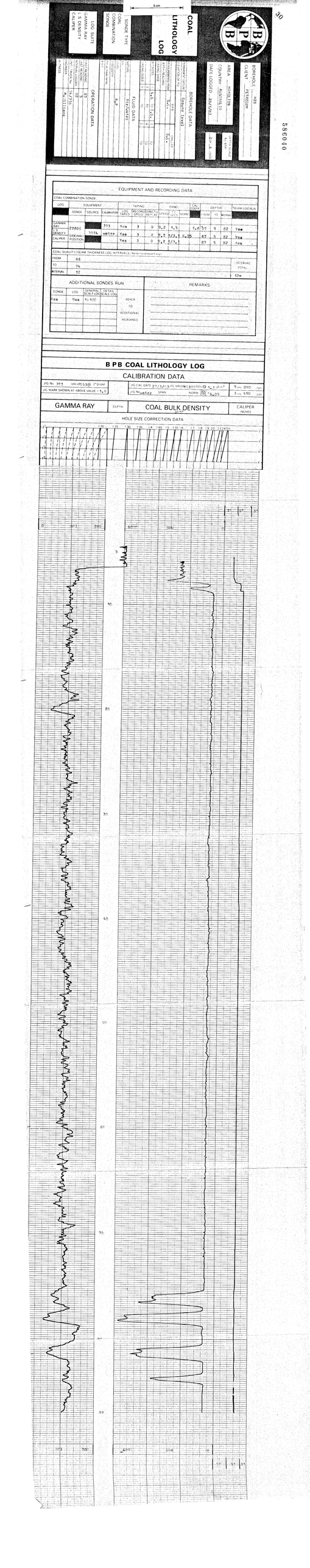
CALIBRATION DATA

JIG No. 393 VALUES 530 7" DIAM
JIG MARK SHOWN AT ABOVE VALUE - 1.0

JIG CAL DATE 27/7/83 JIG VALUES 1.30 SG @ 1.5 gm/cm³ 7 cm 890 cps
JIG Water SPAN NORM 1.30 = 6.85 3 cm 590 cps

GAMMA RAY | DEPTH | COAL BULK DENSITY | CALIPER INCHES

HOLE SIZE CORRECTION DATA



31

586041

BOREHOLE H 28

CLIENT PETROCOM

AREA HAMILTON

COUNTRY AUSTRALIA

DATE LOGGED 28/1/83

DEPTH SCALE 1:20

3 OF 4 LOGS

SEAM THICKNESS LOG

5 cm

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

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE

SIDEWALL POSITION

LOG	TAPING				PANEL			CAL. COEFF.
	LOG TAPED	RECORD SPEED	REPLAY		SPEED	SEC SECS	NORM	
CALIPER	Yes	3	R		2	1/3		
B.R. DENSITY	Yes	3	R		2	1/3	6.09	

SOURCE SONDE AND CALIBRATION

REFER TO LITHOLOGY LOG

SEAM THICKNESS LOG INTERVALS

FROM	74	
TO	86	
INTERVAL	12	
FROM		INTERVAL TOTAL
TO		≈12m
INTERVAL		

REMARKS

SONDE TYPE: COAL COMBINATION SONDE

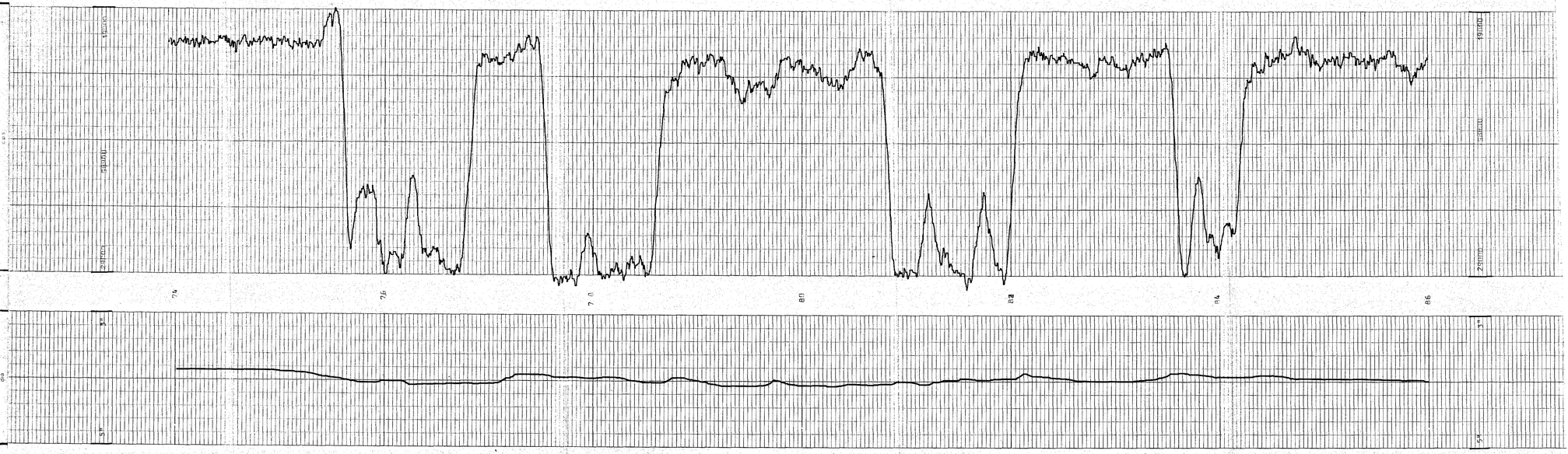
LOG SUITE: CALIPER & R. DENSITY

B P B SEAM THICKNESS LOG

BED RESOLUTION DENSITY

DEPTH

CALIPER INCHES



586042

32

BPB

BOREHOLE H 28

CLIENT PETROCOM

AREA HAMILTON

COUNTRY AUSTRALIA

DATE LOGGED 28/1/83

DEPTH SCALE 1:20

4 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	TAPING				PANEL			CAL CODE
	LOG TAPED	RECORDING SPEED	DIRECTION REPEAT		SPEED	T SECS	NORM	
GAMMA RAY	Yes	3	R		2	1		1.8
L S DENSITY	Yes	3	R		2	1	6.MS	

SIDEWALL POSITION

SOURCE SONDE AND CALIBRATION

REFER TO LITHOLOGY LOG

COAL QUALITY LOG INTERVALS

FROM	86
TO	74
INTERVAL	12
FROM	
TO	
INTERVAL	

INTERVAL TOTAL 12m

REMARKS

SONDE TYPE
COAL COMBINATION SONDE

LOG SUITE
GAMMA RAY
L S DENSITY

5cm

BPB COAL QUALITY LOG

GAMMA RAY

COAL BULK DENSITY g/cm³

DEPTH

HOLE SIZE CORRECTION DATA

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

API
0 500 1000

ZDTH
0 1000

74 76 78 80 82 84 86

H·12
H·26
H·02
H·25
H·08
E 4 274
N 0 613
RL 165·48
6 (1944)
H·14
H·16
2 (1944)
H·01
11 (1944)
3 (1944)
1 (1939)
H·03
H·21
? COAL ERODED
H·15
7 (1944)
2 (1939)
H·20
1 (1956)
H·17
H·24
4 (1944)
5 (1944)
H·18
H·27
H·28
H·11
H·19
H·06
E 2 078·81
N 0 583·31
RL 141·97
8 (1944)
H·09
H·04
2 (1956)
EAST HILL
H·23
3 (1956)
H·22
H·10
WEST HILL

110 115 120 125 130 135 140 145 150 155 160 165 170 175 130 132 134 136 138 140 130 132 134

LEGEND

STRUCTURE CONTOUR (m A.S.L.) ON TOP OF UPPER COAL SEAM FOR:
140 (i) EAST HILL
132 (ii) WEST HILL
PREDICTED OUTCROP OF TOP COAL (SEAM A)
ESTIMATED AREA OF UNDERGROUND MINING
NORMAL FAULT (? TERTIARY AGE)
BASALT PLUG (? TERTIARY AGE)

LANGLOH ROAD
LYELL HIGHWAY

DS6043

5 cm

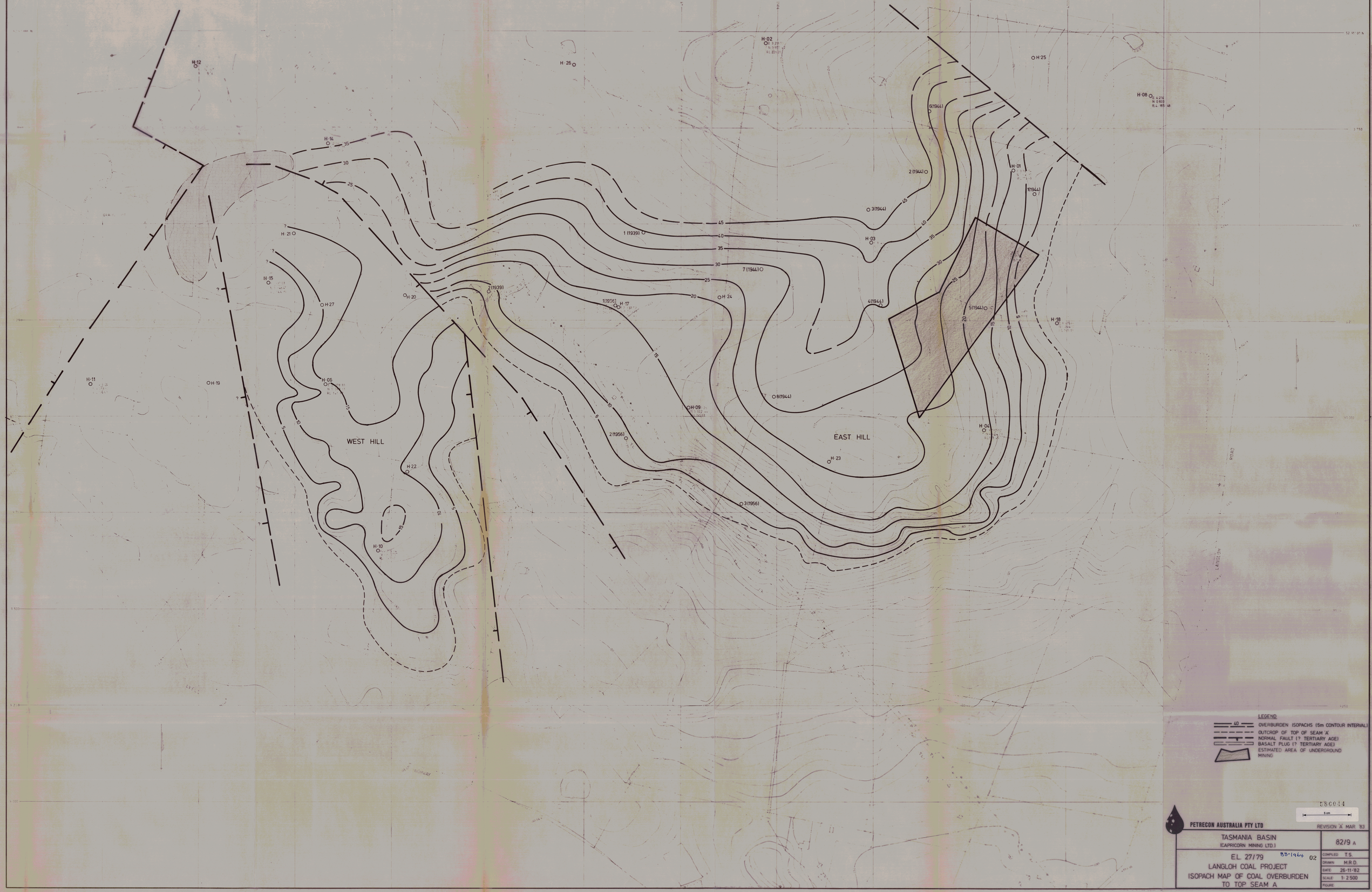
PETRECON AUSTRALIA PTY LTD
REVISION A MAR 83

TASMANIA BASIN
(CAPRICORN MINING LTD)

82/7 A

E.L. 27/79 83-1964
LANGLOH COAL PROJECT 01
TOP COAL STRUCTURE MAP

COMPILED T.S.
DRAWN M.R.D.
DATE 26-11-82
SCALE 1:2500
FIGURE



LEGEND

- 40 — OVERBURDEN ISOPACHS (5m CONTOUR INTERVAL)
- OUTCROP OF TOP OF SEAM 'A'
- NORMAL FAULT (? TERTIARY AGE)
- BASALT PLUG (? TERTIARY AGE)
- ESTIMATED AREA OF UNDERGROUND MINING

E80044

5 cm

PETRECON AUSTRALIA PTY LTD

REVISION 'A' MAR '83

TASMANIA BASIN (CAPRICORN MINING LTD.)	82/9 A
E.L. 27/79 83-1964 02	COMPILED T.S.
LANGLOH COAL PROJECT	DRAWN M.R.D.
ISOPACH MAP OF COAL OVERBURDEN TO TOP SEAM A	DATE 26-11-82
	SCALE 1: 2 500
	FIGURE

'A' SEAM ERODED ?!

? COAL ERODED

WEST HILL

EAST HILL

H·12 H·14 H·16 H·26 H·02 H·25 H·08 H·01 H·21 H·15 H·20 H·27 H·24 H·17 H·18 H·03 H·11 H·19 H·06 H·09 H·04 H·22 H·23 H·10

1(1939) 1(1956) 2(1956) 3(1956) 1(1944) 2(1944) 3(1944) 4(1944) 5(1944) 6(1944) 7(1944) 8(1944)

3·5 4·0 5·0

RYDAL ROAD

LANGLOH

LYELL HIGHWAY

4·0 SEAM ISOPACHS (0·5m CONTOUR INTERVAL)

OUTCROP OF TOP OF SEAM 'A'

BASALT PLUG (? TERTIARY AGE)

NORMAL FAULT (? TERTIARY AGE)

ESTIMATED AREA OF UNDERGROUND MINING.

5 cm

PETRECON AUSTRALIA PTY LTD 5S6045 REVISION 'A' MAR '83

TASMANIA BASIN
(CAPRICORN MINING LTD.)

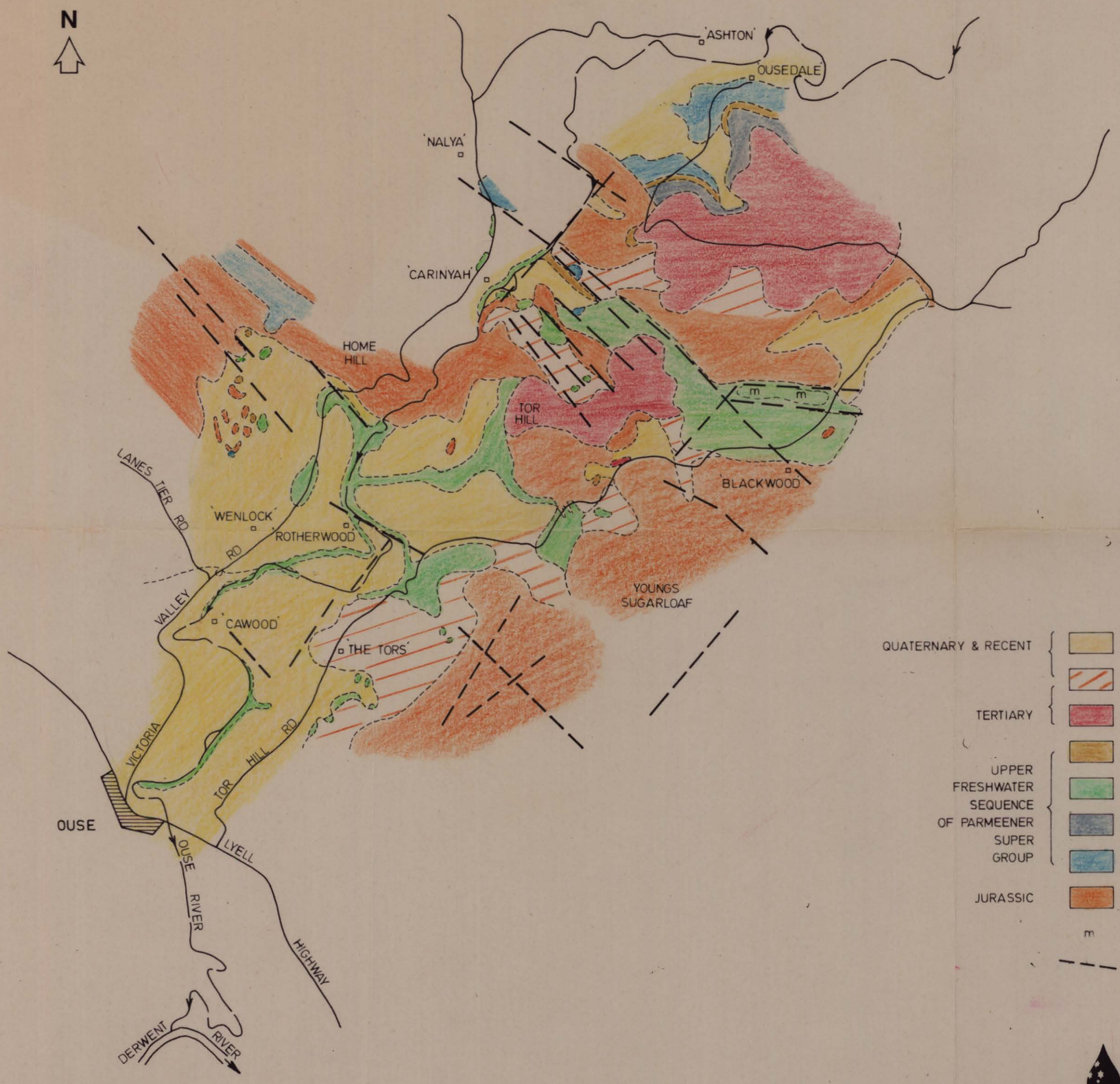
82/10 A

E.L. 27/79 83-1964 03

LANGLOH COAL PROJECT

ISOPACH OF SEAMS A,B,C&D

COMPILED: T.S.
DRAWN: M.R.D.
DATE: 26-11-'82
SCALE: 1:2 500
FIGURE:



QUATERNARY & RECENT		ALLUVIUM
		TALUS SLOPE
TERTIARY		BASALT
UPPER FRESHWATER SEQUENCE OF PARMEENER SUPER GROUP		MUDSTONE & SILTSTONE · UNDIFFERENTIATED
		LITHIC SANDSTONE
		QUARTZ-FELDSPAR-MICA SANDSTONE
		QUARTZ SANDSTONE
JURASSIC		DOLERITE
	m	THERMAL METAMORPHISM (DOLERITE CONTACT)
		PHOTOLINEAMENT

586046

5 cm

PETRECON AUSTRALIA PTY LTD 83-1964

TASMANIA BASIN (CAPRICORN MINING)	83/1
EL 27/79 OUSE VALLEY FIELD GEOLOGY	COMPILED TGS DRAWN MRD DATE 16-3-83 SCALE 1:42 000 FIGURE