633001

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MICROFILMED

EL 27/79
QUARTERLY REPORT
17-10-1982 TO 16-1-1983.

633002

PETRECON AUSTRALIA PTY. LTD.

Petroleum Exploration Consultants

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Hobart 7000 Australia
Ph. (002) 31 0122

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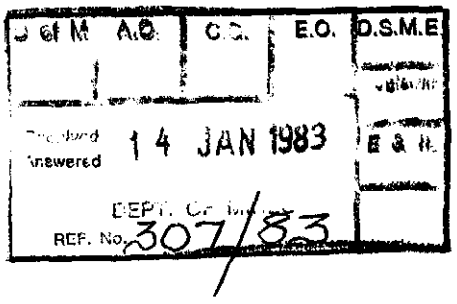
CAPRICORN MINING LIMITED

11th January, 1983.



The Director,
Tasmania Mines Department,
P.O. Box 56,
ROSNY PARK .. 7018.

Dear Sir,

RE: Third Quarterly Report, Third Permit Year, EL 27/79.

During the three months ending 16/1/83 work has continued on both the Langloh prospect and the remainder of the area.

A set of structure, isopach and overburden maps of the Langloh prospect has been produced.

An area northeast of Ouse is being mapped in detail. Two further areas have been demonstrated to be non-prospective by reconnaissance mapping.

THE LANGLOH PROSPECT

Correlation of the wireline and graphic logs from all previous drilling has established that in general the "Langloh coal seam" consists of three seams designated as A, B, and C from the top down (Dwg. 82/14). Isopach maps have been constructed for total coal and individual seam thickness (Dwgs. 82/10-13) and for the overburden thickness (Dwg. 82/9). These maps are being used to deliniate the area of potential open-cuttable coal, and in the case of Dwgs. 82/11-13, they will be integrated with coal quality data to show expected variation in washed coal yields for each seam.

Top-coal and bottom-coal structure maps (Dwgs. 82/7-8) are designed to calculate overburden thickness and to show where the coal seam topography could be due to either palaeo-land surface topography or post-depositional tectonics. The coal isopach maps show that the observed variations in seam thickness are due to depositional trends and are not due to differential erosion or compaction. Subsequent drilling (late January-early February 1983) will be sited to prove the presence or absence of faults inferred by the structure maps.

MAPPING

Several square kilometres of Triassic "lithic sandstone sequence" north of Ouse have been mapped in detail. The map when completed, will delimit a prospective area on which scout drill holes might be located.

Rapid reconnaissance mapping of the licence area is continuing and approximately 150 km^2 of non-prospective area was outlined in the quarter. Details of the co-ordinates of the blocks to be relinquished will be submitted at the April 16, 1983 licence renewal.

WORK PLANNED FOR THE QUARTER ENDING 16/4/1983.

A drilling programme will commence at Langloh on or about 18/1/1983. Between 8 and 12 slim-line holes will be drilled and it is anticipated that this will complete the exploration of the potentially open-cuttable portion of the prospect.

Field mapping of the Ouse area will be completed in the next quarter and further blocks of low prospective ground will be relinquished.

Yours sincerely,

J. K. DAVIDSON.

for E. G. ALBERS

H-13
H-14
H-16
H-15
H-11
H-06
H-10
H-02
H-08
H-01
H-03
H-18
H-09
H-04
1(1939)
2(1939)
1(1956)
H-17
2(1956)
3(1956)
1(1944)
2(1944)
3(1944)
4(1944)
5(1944)
6(1944)
7(1944)
8(1944)
? COAL ERODED
GRAVEL PIT
LYELL HIGHWAY
LANGLOH ROAD

LEGEND

STRUCTURE CONTOUR (m.A.S.L.) ON TOP OF UPPER COAL SEAM FOR:
- 140 (i) NO FAULT MODEL
- (ii) NO FAULT MODEL (PRE-EROSION)
- 140 (iii) FAULTED MODEL

OUTCROP OF TOP COAL (SEAM A) FOR
- (i) NO FAULT MODEL
- (ii) FAULTED MODEL

NORMAL FAULT (? TERTIARY AGE)

BASALT PLUG (? TERTIARY AGE)

633004

5 cm

PETRECON AUSTRALIA PTY LTD

TASMANIA BASIN
(CAPRICORN MINING LTD)

82/7

E.L. 27/79 001

LANGLOH COAL PROJECT
TOP COAL STRUCTURE MAP

COMPILED	T.S.
DRAWN	M.R.D.
DATE	26-11-82
SCALE	1:2 500
FIGURE	

85-1913



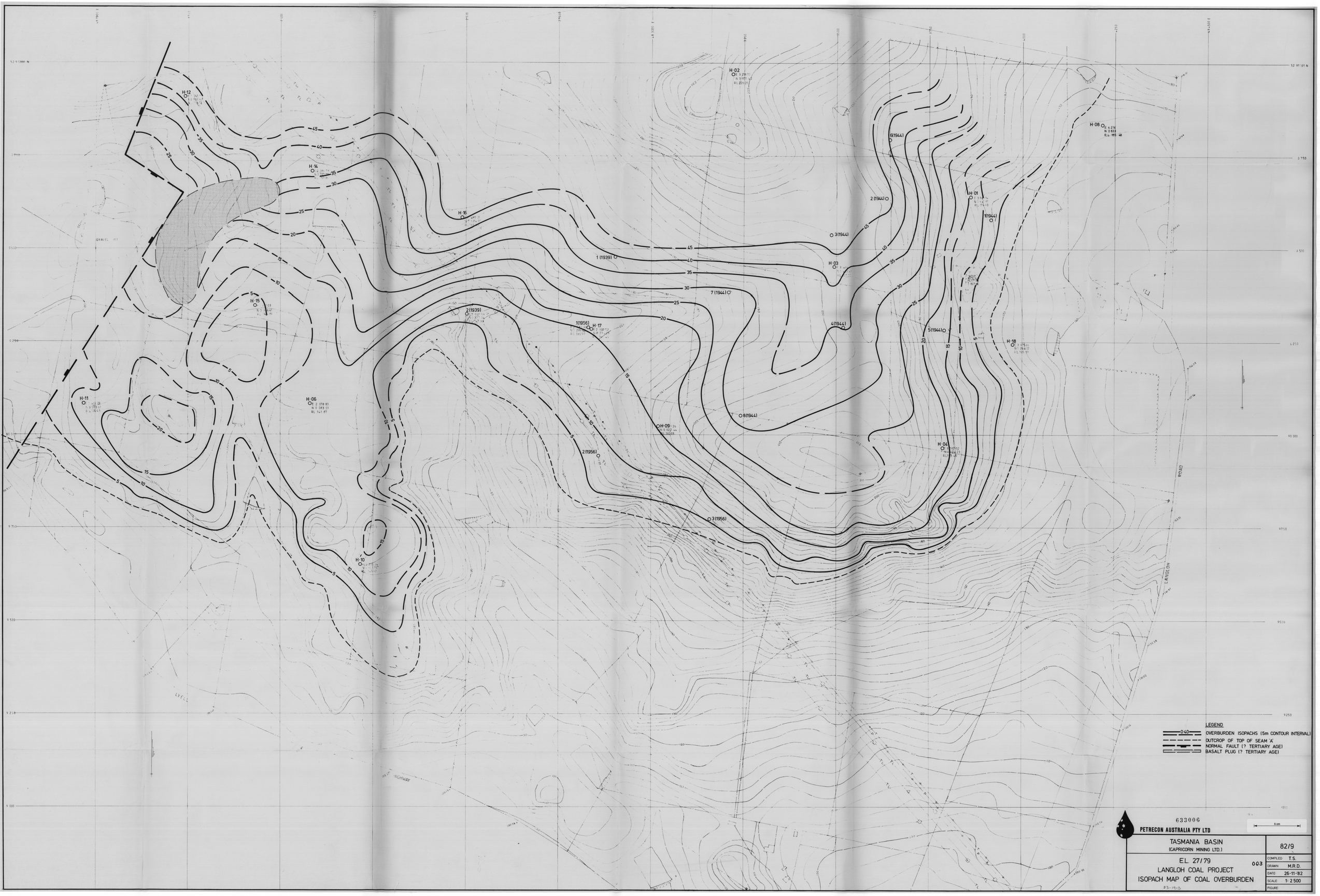
633005

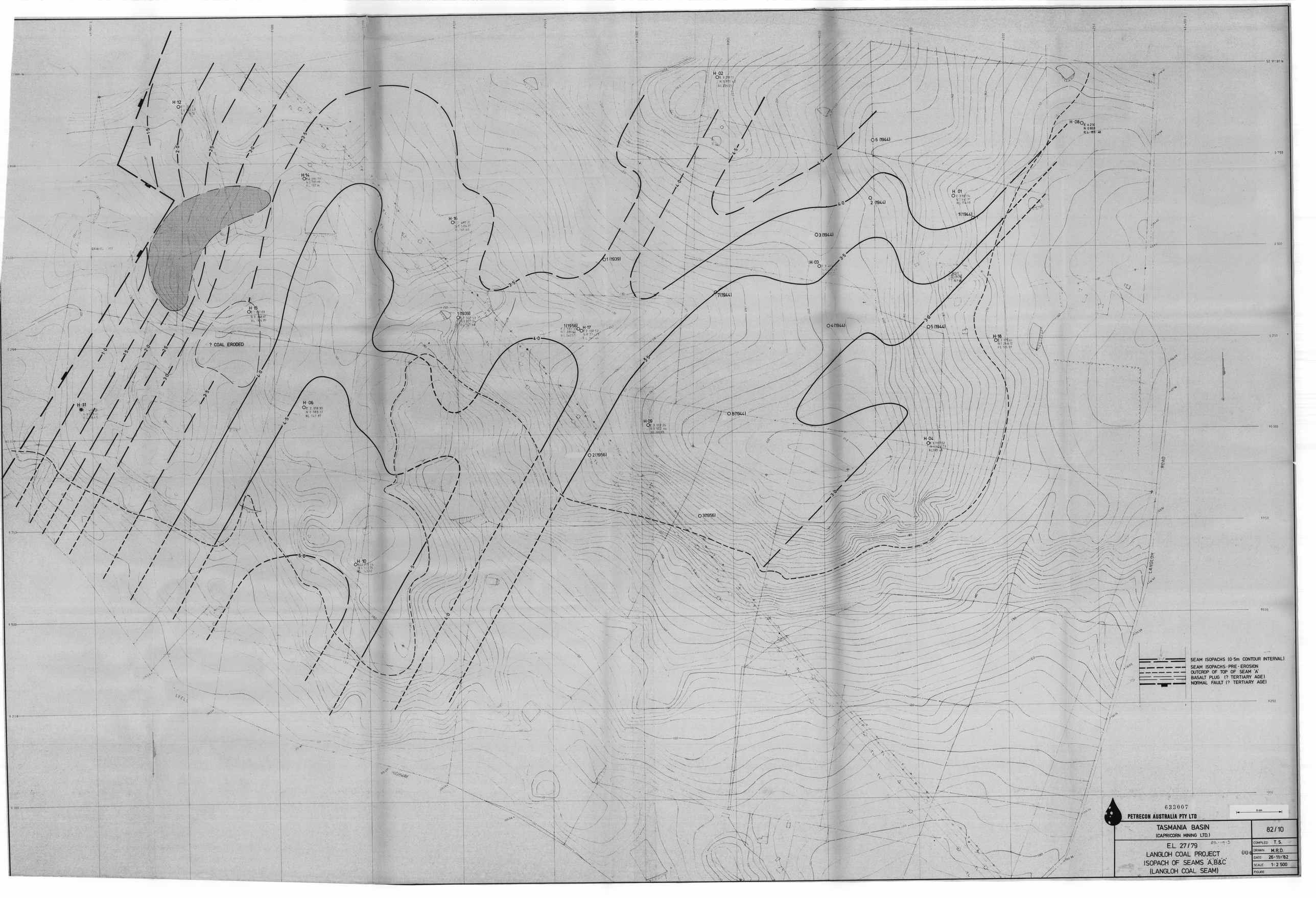
PETRECON AUSTRALIA PTY LTD

TASMANIA BASIN (CAPRICORN MINING LTD.)	82/8
E.L. 27/79 LANGLOH COAL PROJECT BOTTOM COAL STRUCTURE MAP	COMPILED T.S.
	DRAWN M.R.D.
	DATE 26-11-'82
	SCALE 1:2 500
	FIGURE

002

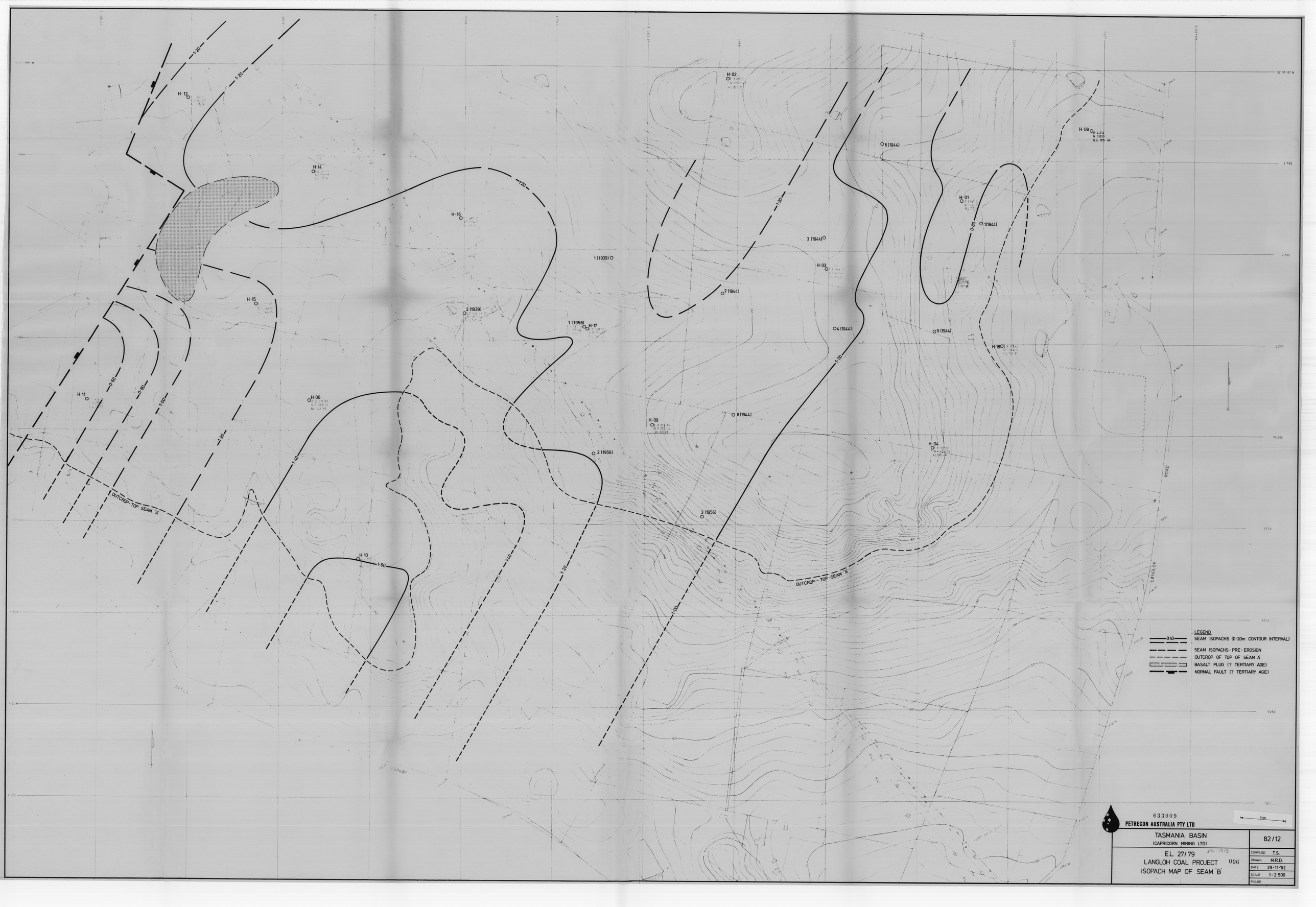
83-1913


H-12
H-14
H-16
H-15
H-11
H-06
H-10
H-02
H-08
H-01
H-03
H-17
H-09
H-04
H-18
1(1939)
2(1939)
1(1956)
2(1956)
3(1956)
1(1944)
2(1944)
3(1944)
4(1944)
5(1944)
6(1944)
7(1944)
8(1944)
GRAVEL PIT
LYELL HIGHWAY
LANGLOH ROAD
LEGEND
OVERBURDEN ISOPACHS (5m CONTOUR INTERVAL)
OUTCROP OF TOP OF SEAM 'A'
NORMAL FAULT (? TERTIARY AGE)
BASALT PLUG (? TERTIARY AGE)
633006
PETRECON AUSTRALIA PTY LTD
TASMANIA BASIN
(CAPRICORN MINING LTD.)
82/9
E.L. 27/79
003
LANGLOH COAL PROJECT
ISOPACH MAP OF COAL OVERBURDEN
23-1915
COMPILED T.S.
DRAWN M.R.D.
DATE 26-11-82
SCALE 1: 2 500
FIGURE



H·12
H·14
H·16
H·15
H·11
H·06
H·10
H·02
H·01
H·03
H·17
H·09
H·04
H·18
H·08
1 (1939)
1(1939)
1(1956)
2(1956)
3(1956)
1(1944)
2 (1944)
3(1944)
4(1944)
5(1944)
6 (1944)
7(1944)
8(1944)
? COAL ERODED
GRAVEL PIT
LYELL HIGHWAY
LANGLOH ROAD
SEAM ISOPACHS (0·5m CONTOUR INTERVAL)
SEAM ISOPACHS · PRE-EROSION
OUTCROP OF TOP OF SEAM 'A'
BASALT PLUG (? TERTIARY AGE)
NORMAL FAULT (? TERTIARY AGE)
633007
PETRECON AUSTRALIA PTY LTD
TASMANIA BASIN
(CAPRICORN MINING LTD.)
82/10
E.L. 27/79
LANGLOH COAL PROJECT
ISOPACH OF SEAMS 'A',B&C'
(LANGLOH COAL SEAM)
COMPILED: T.S.
DRAWN: M.R.D.
DATE: 26-11-'82
SCALE: 1:2 500
FIGURE:


H·12
H·14
H·16
H·15
H·11
H·06
H·10
H·02
H·08
H·01
H·03
H·09
H·04
H·18
H·17
6 (1944)
2 (1941)
1 (1944)
3 (1944)
7 (1944)
5 (1944)
4 (1944)
8 (1944)
1 (1939)
2 (1939)
1 (1956)
2 (1956)
3 (1956)
0·40
0·80
1·00
1·20
1·40
1·60
LYELL HIGHWAY
ROAD
LANGLOH
LEGEND
0·40 SEAM ISOPACHS (0·20m CONTOUR INTERVAL)
SEAM ISOPACHS : PRE-EROSION
OUTCROP OF TOP OF SEAM 'A'
NORMAL FAULT (? TERTIARY AGE)
BASALT PLUG (? TERTIARY AGE)
63300S
PETRECON AUSTRALIA PTY LTD
5 cm
TASMANIA BASIN
(CAPRICORN MINING LTD)
82/11
E.L. 27/79
LANGLOH COAL PROJECT
ISOPACH MAP OF SEAM 'A'
005
COMPILED T.S.
DRAWN M.R.D.
DATE 29-11-82
SCALE 1:2500
FIGURE



H·12
H·14
H·16
H·15
H·11
H·06
H·10
H·17
H·09
H·02
H·03
H·01
H·04
H·08
H·18
1 (1939)
2 (1939)
1 (1956)
2 (1956)
3 (1956)
3 (1944)
4 (1944)
5 (1944)
6 (1944)
7 (1944)
8 (1944)
1 (1944)
1·20
1·00
1·40
1·60
0·80
0·60
OUTCROP-TOP SEAM 'A'
OUTCROP - TOP SEAM 'A'
LANGLOH ROAD
LEGEND
0·40 SEAM ISOPACHS (0·20m CONTOUR INTERVAL)
SEAM ISOPACHS: PRE-EROSION
OUTCROP OF TOP OF SEAM 'A'
BASALT PLUG (? TERTIARY AGE)
NORMAL FAULT (? TERTIARY AGE)
633009
PETRECON AUSTRALIA PTY LTD
TASMANIA BASIN
(CAPRICORN MINING LTD)
82/12
E.L. 27/79
LANGLOH COAL PROJECT
ISOPACH MAP OF SEAM 'B'
006
COMPILED T.S.
DRAWN M.R.D.
DATE 29-11-82
SCALE 1:2 500
FIGURE

H-12
H-14
H-15
H-16
H-11
H-06
H-10
H-02
H-08
H-01
H-03
H-18
H-09
H-04
H-17

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

0·60
0·80
1·00
1·20
1·40
1·60
2·00

LANGLOH ROAD

LEGEND

- 0·40 — SEAM ISOPACHS (0·20m CONTOUR INTERVAL)
- SEAM ISOPACHS : PRE-EROSION
- OUTCROP OF TOP OF SEAM 'A'
- NORMAL FAULT (? TERTIARY AGE)
- BASALT PLUG (? TERTIARY AGE)

633010

PETRECON AUSTRALIA PTY LTD

5 cm

TASMANIA BASIN
(CAPRICORN MINING LTD.)

82/13

E.L. 27/79
LANGLOH COAL PROJECT
ISOPACH MAP OF SEAM 'C'

007

COMPILED:	T.S.
DRAWN:	M.R.D.
DATE:	29-11-82
SCALE:	1:2500
FIGURE:	

H12
H14
H16
H11
H6
H10
H15
B2·1939
B1·1939
H17
B7·1944
H9
B3·1944
B2·1944
B8·1944
B6·1944
H3
B4·1944
B5·1944
H1
B1·1944
H4
?A
?B
?C
A
B
C
D
LANGLOH COAL SEAM
(TOTAL DEPTH AT H6-157·0m)

Coal
Heavy Dull Coal
Carbonaceous Mudstone
Mudstone
Conglomerate
Siltstone
Dolerite
Lithic Sandstone
Basalt

PRECOLLAR (NON CORED) SECTION OF HOLE
GEOLOGICAL BOUNDARY - CORRELATION APPROXIMATE
GEOLOGICAL BOUNDARY CORRELATION INFERRED
BASE OF SANDSTONE ROOF

NOTE

COAL SEAM CORRELATION BASED ON THE LONGITUDINAL PROJECTION OF COAL SEAMS ON TO A VERTICAL PLANE STRIKING 120° (TRUE). VERTICAL EXAGGERATION-25·1.

633011

PETRECON AUSTRALIA PTY LTD

5 cm

TASMANIA BASIN
(CAPRICORN MINING LTD.)

82/14

E.L. 27/79
LANGLOH COAL PROSPECT 008
COAL SEAM CORRELATION

83-193

COMPILED	T.S.
DRAWN	M.R.D.
DATE	30-11-82
SCALE	H - 1:2500 V - 1:100
FIGURE	