

GEOLOGICAL CROSS SECTIONS

SEE OVER FOR:

1. REFERENCE FOR CROSS SECTIONS, DWG. NO. SKR 212.
2. NOTES TO ACCOMPANY CROSS SECTIONS.

NOTES TO ACCOMPANY GEOLOGICAL CROSS SECTIONS

The cross sections included here were originally constructed at a scale of 1 inch equals 25 feet and subsequently reduced by half for inclusion in this report at a convenient size. Sections at the original scale are held in the offices of Brascan Resources Limited, Calgary, and at Sukunka Mine, Chetwynd.

The cross sections have been constructed both transverse and longitudinal to the regional strike, and are identified by the prefix T or L, respectively. The position of the sections is shown on the Geological Map, Map 1; the topographic profiles were constructed from the Topographic Map, Map 2, surveyed expressly for this project. The following data have been used in constructing the sections:-

- (1) The detailed logs of the drill holes adjacent to the cross sections, transferred directly onto the sections.
- (2) The structure contour and surficial geology maps where drill hole control was lacking.
- (3) Outcrop observations, particularly from previous field programmes, have provided information on the general attitude of the strata, and the general nature of the folds.
- (4) The position of the trace of the Chamberlain Fault has been transferred from the 1 inch equals 1,000 feet Structure Map, Map 6, of the 1972 Geological Report, wherein it has been established on a regional basis.
- (5) The base of overburden has been omitted as a lithologic unit, due to its minimal thickness.

L I T H O L O G Y S Y M B O L S

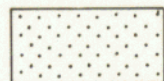
S T R A T I G R A P H I C U N I T S



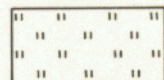
CONGLOMERATE
pebble to granule



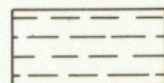
BRECCIA



SANDSTONE



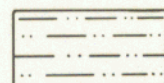
SILTSTONE



CLAYSTONE



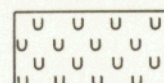
STONE COALY or
CLAYSTONE
CARBONACEOUS



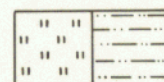
MUDSTONE



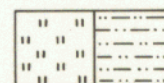
COAL,
UNDIFFERENTIATED



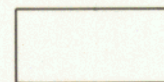
SOIL, WEATHERED and
UNCONSOLIDATED
MATERIAL



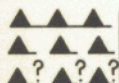
INTERBEDDED



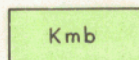
LAMINITE



45°
INCLINED STRATA

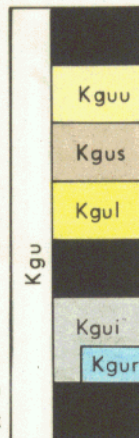


FAULT established
 probable
 possible



MOOSEBAR FORMATION

L O W E R C R E T A C E O U S



GETHING FORMATION

UPPER GETHING SEQUENCE (Kgu)

BIRD SEAM

UPPER SANDSTONE

SILTSTONE - CLAYSTONE SEQUENCE

LOWER SANDSTONE

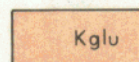
SKEETER SEAM

INTERSEAM SEDIMENTS

SILTSTONE - MUDSTONE LAMINITE

CHAMBERLAIN SEAM

LOWER GETHING SEQUENCE (Kgl)



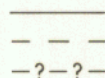
UPPER SANDSTONE

L E G E N D

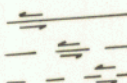
DDH
P1-26



DRILL HOLE LOCATION
AND LITHOLOGY
PENETRATED



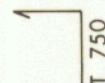
GEOLOGICAL BOUNDARY
POSITION ACCURATE
POSITION APPROXIMATE
POSITION INFERRED



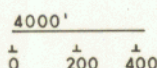
FAULT TRACE SHOWING
DIRECTION OF MOVEMENT
POSITION ACCURATE
POSITION APPROXIMATE
POSITION INFERRED

P1-25A

FAULT NAME



INTERSECTING CROSS SECTIONS



RELATIVE ELEVATION AND POSITION
FROM TO OR LO

R E F E R E N C E F O R C R O S S S E C T I O N S

PREPARED BY CLIFFORD McELROY & ASSOCIATES PTY LIMITED

C O A L I T I O N M I N I N G L I M I T E D

SUKUNKA COAL PROJECT

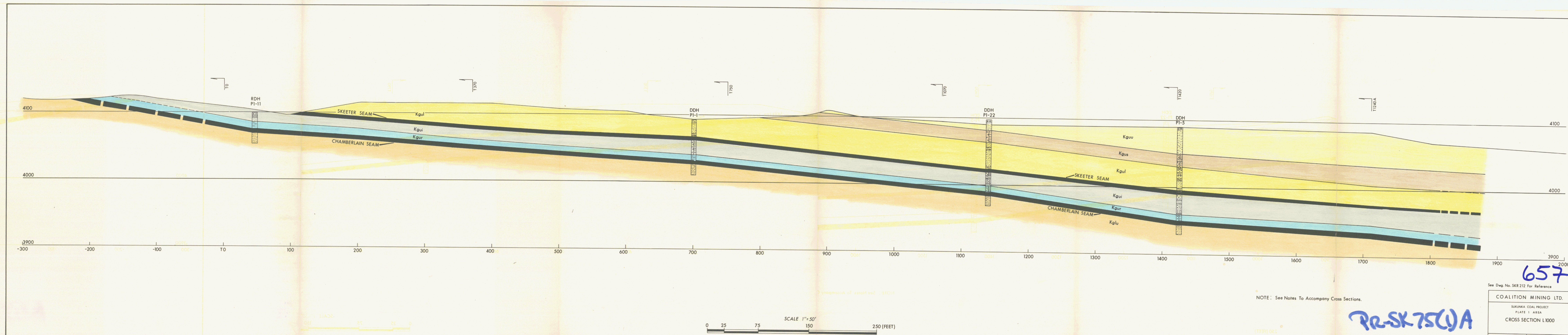
MARCH 12, 1975

Dwg. No. SKR. 212

E R R A T A

CROSS SECTIONS

- T 750 Skeeter Seam in incorrect position
in D.D.H. Pl-9.
Seam should be connected to blank
part of borehole section.
- T 1420 Moosebar Formation omitted from
east of R.D.H. Pl-4.



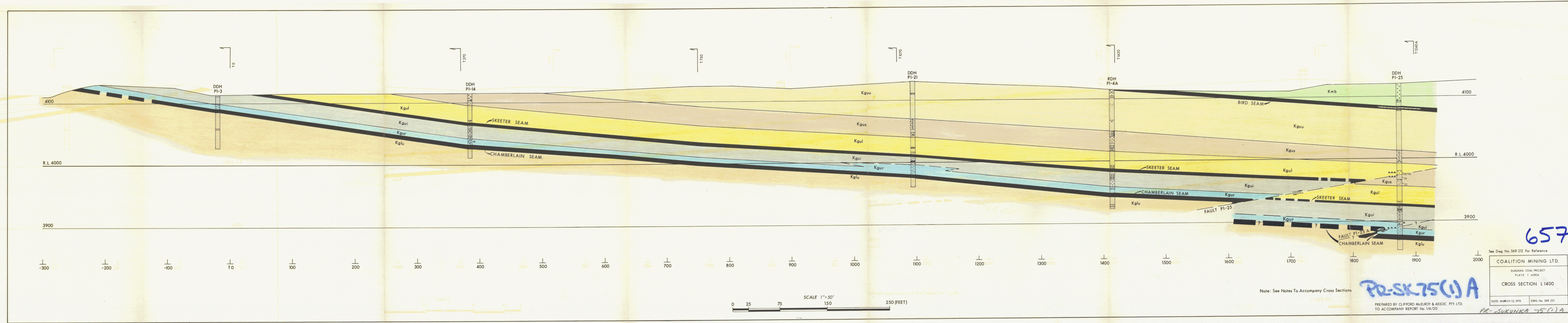
NOTE: See Notes To Accompany Cross Sections.

PR-SK-75(1)A

PREPARED BY CLIFFORD McELROY & ASSOC. PTY. LTD.
TO ACCOMPANY REPORT No. 1/4/20

See Dwg. No. SKR 212 For Reference	
COALITION MINING LTD.	
SUKUNKA COAL PROJECT	
PLATE 1 AREA	
CROSS SECTION L 1000	
DATE: MARCH 12, 1975	DWG. No. SKR 220

657



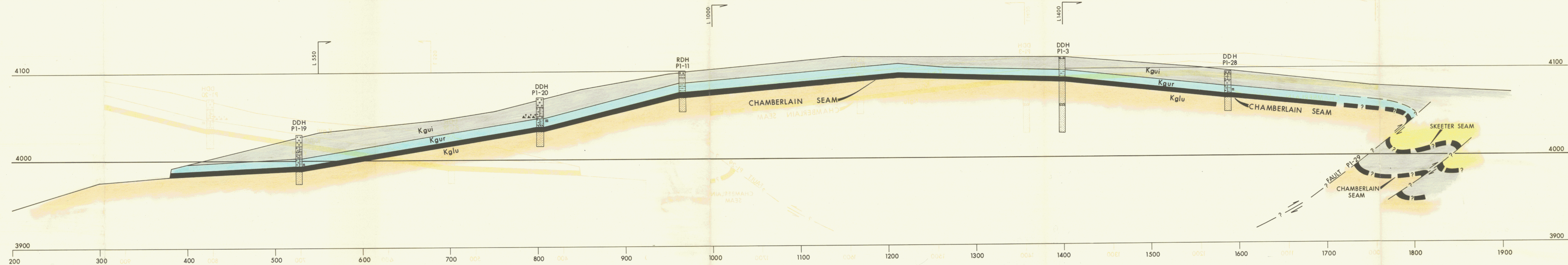
See Dwg. No. SKR 212 For Reference

COALITION MINING LTD.	
SUKUNKA COAL PROJECT	
PLATE 1 AREA	
CROSS SECTION L1400	
DATE: MARCH 12, 1975	DWG. No. SKR 221

PREPARED BY CLIFFORD McELROY & ASSOC. PTY. LTD.
TO ACCOMPANY REPORT No. 1/4/20

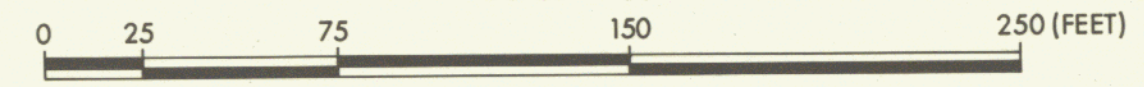
PR-SK 75(1) A

PR-SUKUNKA 75(1) A



NOTE: 1 - See Notes To Accompany Cross Sections.
 2 - The presence of Fault P1-29, as inferred from all available data, is regarded as being highly probable. The degree of deformation between the two faults can only be inferred from Sections T370 & T750, consequently the style of folding illustrated is regarded as diagrammatic only on this section.

NOTE: 1 - See Notes To Accompany Cross Sections.
 2 - The presence of Fault P1-29, as inferred from all available data, is regarded as being highly probable. The degree of deformation between the two faults can only be inferred from Sections T370 & T750, consequently the style of folding illustrated is regarded as diagrammatic only on this section.



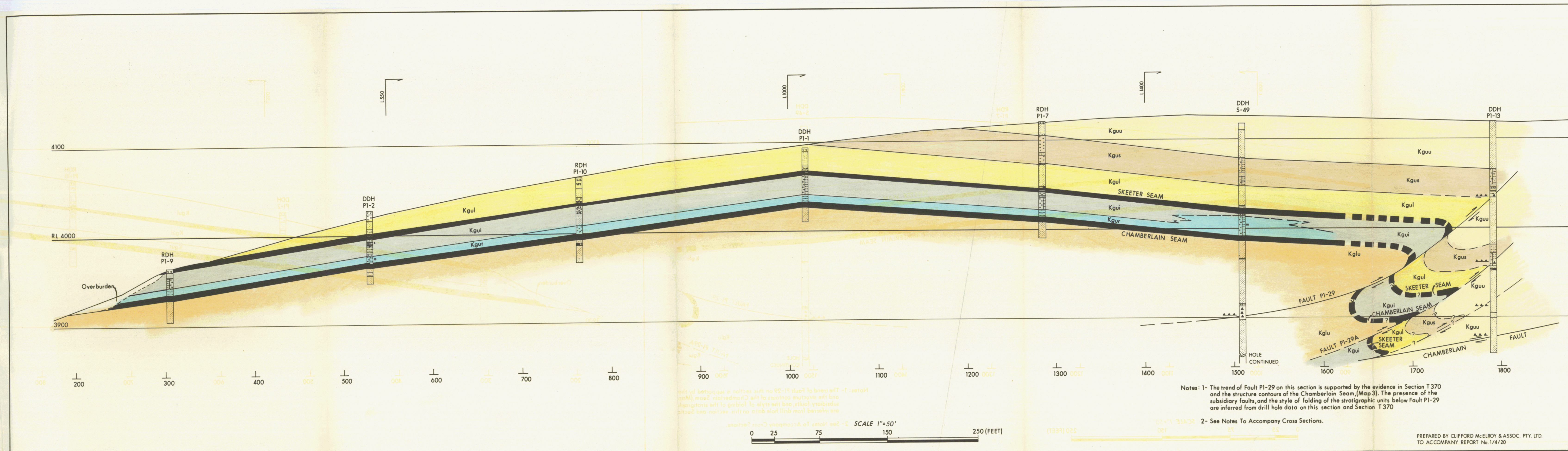
PREPARED BY CLIFFORD McELROY & ASSOC. PTY. LTD.
 TO ACCOMPANY REPORT No. 1/4/20

See Dwg. No. SKR 212 For Reference

COALITION MINING LTD.	
SUKUNKA COAL PROJECT PLATE 1 AREA	
CROSS SECTION T 0	
DATE MARCH 12, 1975	DWG. No. SKR 213

PR- SUKUNKA 75 (1)A

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Notes: 1- The trend of Fault P1-29 on this section is supported by the evidence in Section T 370 and the structure contours of the Chamberlain Seam, (Map 3). The presence of the subsidiary faults, and the style of folding of the stratigraphic units below Fault P1-29 are inferred from drill hole data on this section and Section T 370.

Notes: 1- The trend of Fault P1-29 on this section is supported by the evidence in Section T 370 and the structure contours of the Chamberlain Seam, (Map 3). The presence of the subsidiary faults, and the style of folding of the stratigraphic units below Fault P1-29 are inferred from drill hole data on this section and Section T 370.

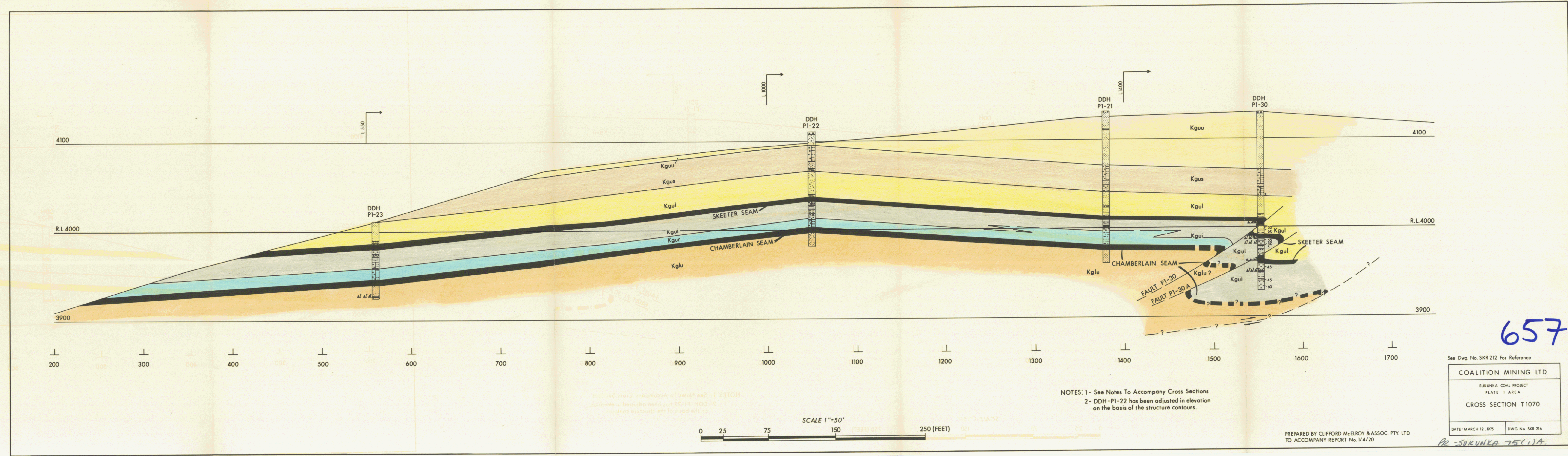
2- See Notes To Accompany Cross Sections.

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TO ACCOMPANY REPORT No. 1/4/20

See Dwg. No. SKR 212 For Reference	
COALITION MINING LTD.	
SUKUNKA COAL PROJECT	
PLATE 1 AREA	
CROSS SECTION T 750	
DATE: MARCH 12, 1975	DWG. No. SKR 215

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PR-SUKUNKA 75(1)A



NOTES: 1 - See Notes To Accompany Cross Sections
2 - DDH-P1-22 has been adjusted in elevation on the basis of the structure contours.

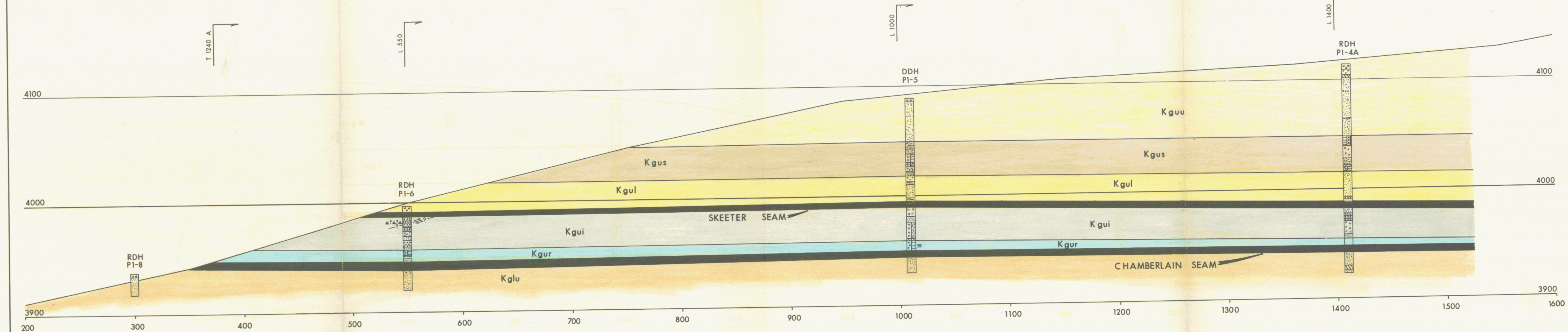
PREPARED BY CLIFFORD McELROY & ASSOC. PTY. LTD.
TO ACCOMPANY REPORT No. 1/4/20

See Dwg. No. SKR 212 For Reference

COALITION MINING LTD.	
SUKUNKA COAL PROJECT PLATE 1 AREA	
CROSS SECTION T 1070	
DATE: MARCH 12, 1975	DWG. No. SKR 216

PR-SUKUNKA 75(1)A.

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NOTE: See Notes To Accompany Cross Sections.

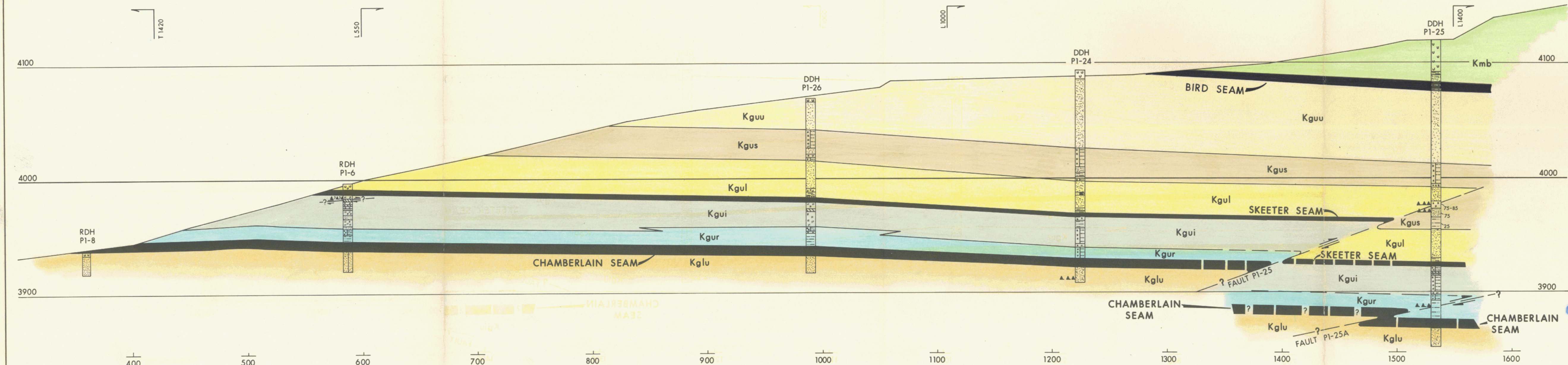
657

See Dwg. No. SKR 212 For Reference

COALITION MINING LTD.	
SUKUNKA COAL PROJECT PLATE 1 AREA	
CROSS SECTION T 1420	
DATE: MARCH 12, 1975	DWG. No. SKR 217

PREPARED BY CLIFFORD McELROY & ASSOC. PTY. LTD.
TO ACCOMPANY REPORT No 1/4/20

PR-SUKUNKA 75(1)A



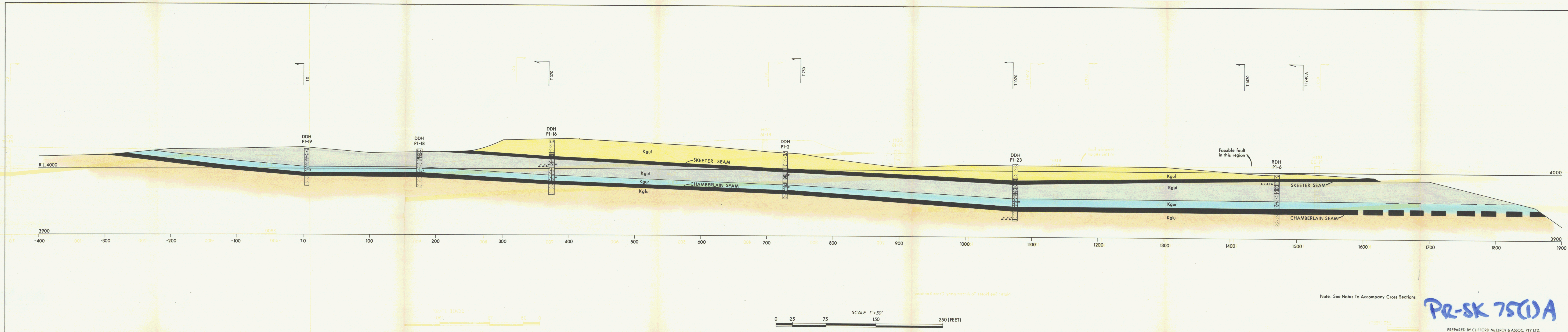
NOTES: 1- See Notes To Accompany Cross Sections
 2- The trend of Faults P1-25 and P1-25A have not been established due to lack of spatial control.

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 TO ACCOMPANY REPORT No. 1/4/20

See Dwg. No. SKR 212 For Reference

COALITION MINING LTD.	
SUKUNKA COAL PROJECT PLATE 1 AREA	
CROSS SECTION T1240A	
DATE: MARCH 12, 1975	DWG. No. SKR 218

657
 PR-SK 75(1)A



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PR-SK 75(1)A

See Dwg. No. SKR 212 For Reference	
COALITION MINING LTD.	
SUKUNKA COAL PROJECT	
PLATE 1 AREA	
CROSS SECTION L 550	
DATE: MARCH 12, 1975	DWG. No. SKR 219

PREPARED BY CLIFFORD McELROY & ASSOC. PTY. LTD.
TO ACCOMPANY REPORT No. 1/4/20

Note: See Notes To Accompany Cross Sections

SUKUNKA COAL PROJECT
PLATE 1 AREA

VOLUME 2

MAPS ACCOMPANYING REPORT

See Over for List of Maps
ZOOLOGICAL BRANCH
ASSESSMENT REPORT

Prepared by CLIFFORD McELROY & ASSOCIATES PTY. LIMITED

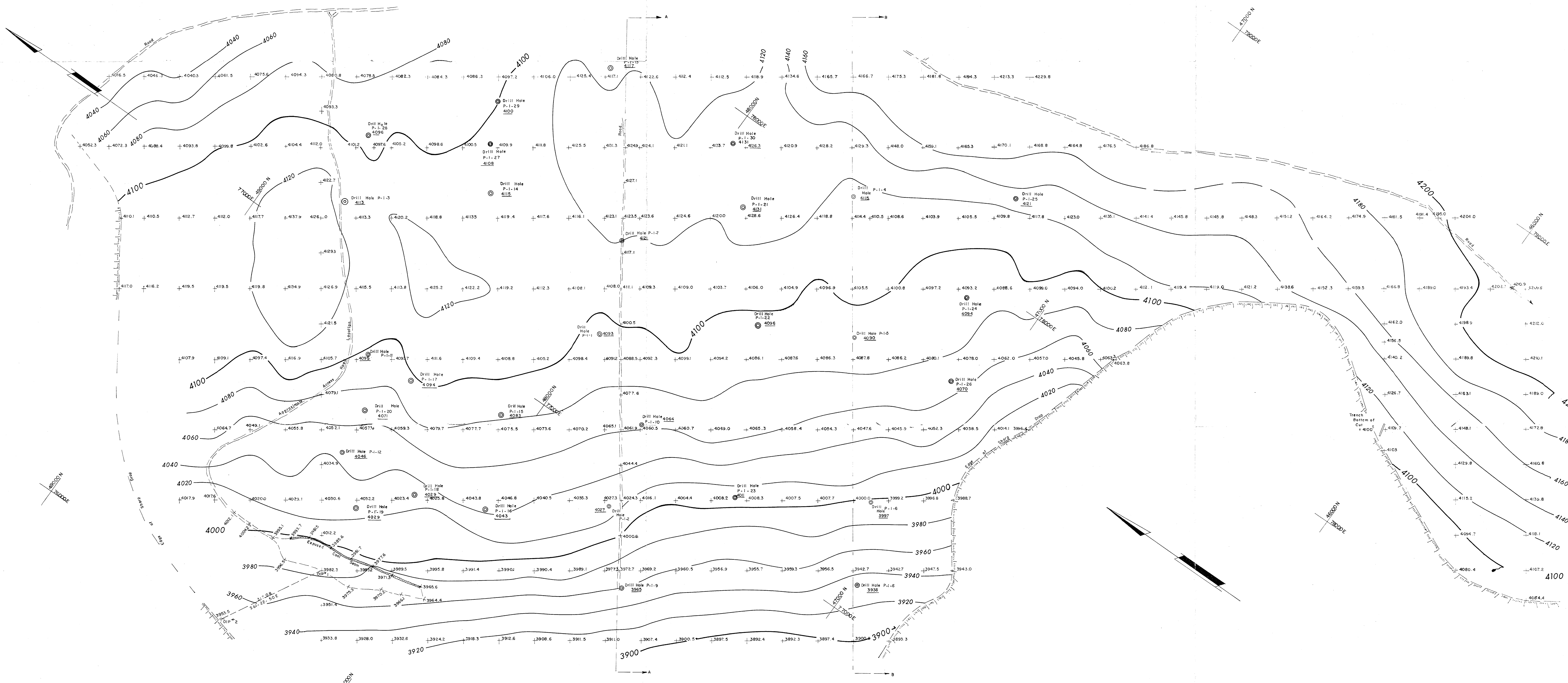
Report No. 1/4/20

March, 1975

00 657

<u>T i t l e</u>	<u>Map No.</u>
<i>Geological Map</i>	1
<i>Topographic Map</i>	2
<i>Structure Contours on Floor of Chamberlain Seam</i>	3
<i>Structure Contours on Floor of Skeeter Seam</i>	4
<i>Isopach Map - Chamberlain Seam</i>	5
<i>Isopach Map - Skeeter Seam</i>	6
<i>Isopach Map - Interseam Sediments Between Skeeter and Chamberlain Seams</i>	7
<i>Isopach Map - Cover Over the Skeeter Seam</i>	8
<i>Isopach Map - Total Overburden Over the Chamberlain Seam</i>	9
<i>Quality Data - Skeeter Seam</i>	10
<i>Quality Data - Chamberlain Seam</i>	11

CO-ORDINATES AND DRILL HOLES (PLATE No. 1)			
DRILL HOLE	LATITUDE	DEPARTURE	ELEVATION
P1-1	+47,989	+77,254	4093
P1-2	+47,990	+76,870	4027
P1-3	+48,784	+77,150	4113
P1-4	+47,625	+77,984	4115
P1-5	+47,395	+77,659	4090
P1-6	+47,090	+77,302	3997
P1-7	+48,090	+77,510	4121
P1-8	+46,986	+77,085	3928
P1-9	+47,528	+76,701	3965
P1-10	+47,748	+77,316	4064
P1-11	+48,493	+76,834	4099
P1-12	+48,393	+76,566	4046
P1-13	+48,399	+77,890	4117
P1-14	+48,449	+77,404	4115
P1-15	+48,085	+76,906	4083
P1-16	+47,569	+76,650	4043
P1-17	+48,350	+76,842	4094
P1-18	+48,157	+76,581	4029
P1-19	+48,270	+76,454	4029
P1-20	+48,411	+76,696	4071
P1-21	+47,867	+77,779	4131
P1-22	+47,640	+77,534	4097
P1-23	+47,416	+77,092	4011
P1-24	+47,199	+77,932	4094
P1-25	+47,244	+76,238	4121
P1-26	+47,100	+77,712	4070
P1-27	+48,349	+77,500	4108
P1-28	+48,846	+77,344	4096
P1-29	+48,402	+77,632	4100
P1-30	+47,991	+77,911	4131



SURVEYED NOVEMBER 1974.

Stables
CN STABLES & ASSOCIATES

3	Added D.H.s. 23-30	2-1
2	Corrected Elevation BH P-1-7	2-2
1	Added D.H.s. 13-22	2-3
Rev.	Details	

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COALITION MINING LIMITED

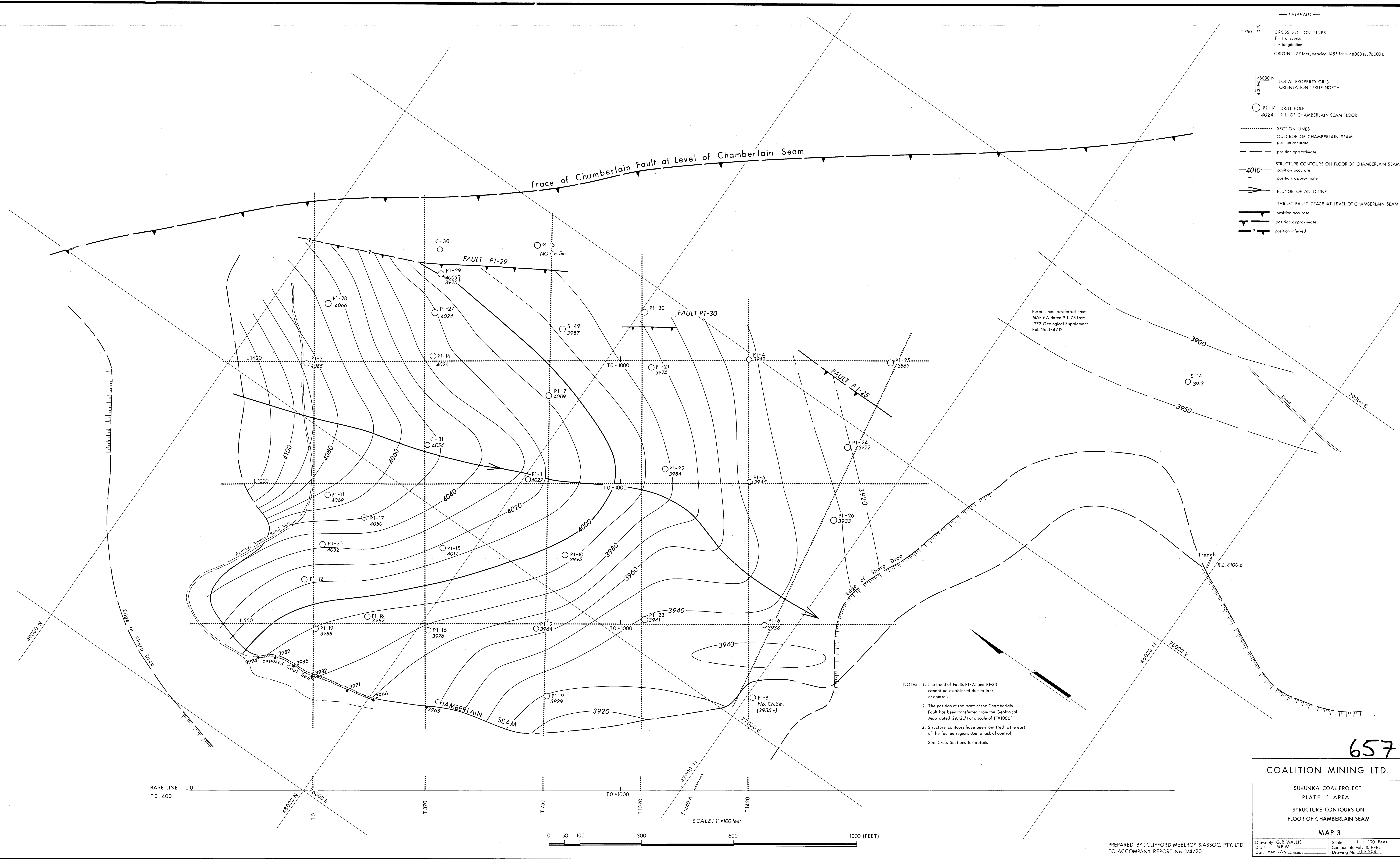
PLAN SHOWING GROUND ELEVATIONS & CONTOURS
OVER PROPOSED STRIP MINING SITE
VICINITY MINESITE 4

Scale: 1" = 100'

CN STABLES AND ASSOCIATES
SURVEYORS AND ENGINEERS

MAP No. 2
SKR 203

112-SURUKA 75(2)A



- LEGEND —
- CROSS SECTION LINES
T - transverse
L - longitudinal
ORIGIN: 27 feet, bearing 145° from 48000 N, 76000 E
- 48000 N
76000 E
LOCAL PROPERTY GRID
ORIENTATION: TRUE NORTH
- P1-14
4024
R.L. OF CHAMBERLAIN SEAM FLOOR
- SECTION LINES
OUTCROP OF CHAMBERLAIN SEAM
position accurate
position approximate
- 4010
STRUCTURE CONTOURS ON FLOOR OF CHAMBERLAIN SEAM
position accurate
position approximate
- PLUNGE OF ANTICLINE
- THRUST FAULT TRACE AT LEVEL OF CHAMBERLAIN SEAM
position accurate
position approximate
position inferred

Form Lines transferred from
MAP 6A dated 9.1.73 from
1972 Geological Supplement
Rpt. No. 1/4/12

- NOTES: 1. The trend of Faults P1-25 and P1-30 cannot be established due to lack of control.
2. The position of the trace of the Chamberlain Fault has been transferred from the Geological Map dated 29.12.71 at a scale of 1"=1000'.
3. Structure contours have been omitted to the east of the faulted regions due to lack of control. See Cross Sections for details.

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SUKUNKA COAL PROJECT
PLATE 1 AREA.
STRUCTURE CONTOURS ON
FLOOR OF CHAMBERLAIN SEAM

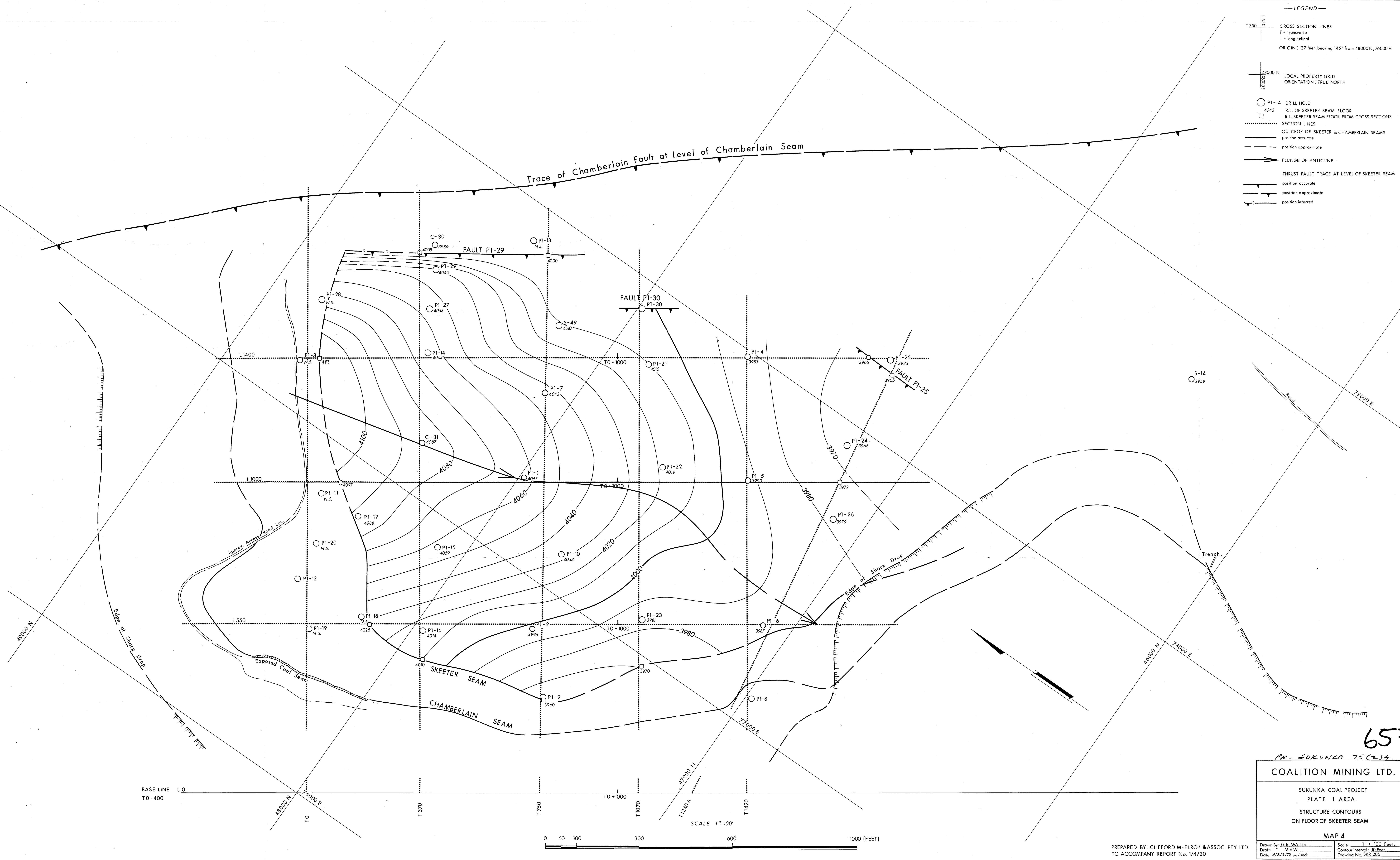
MAP 3

Drawn By: G.R. WALLIS
Draft: M.E.W.
Date: MAR/78 revised:

Scale: 1" = 100 Feet.
Contour Interval: 10 FEET
Drawing No. SKR 204

PREPARED BY: CLIFFORD McELROY & ASSOC. PTY. LTD.
TO ACCOMPANY REPORT No. 1/4/20

MR-SUKUNKA 75 (2)A



- LEGEND —
- CROSS SECTION LINES
T - transverse
L - longitudinal
ORIGIN: 27 feet, bearing 145° from 48000 N, 76000 E
- LOCAL PROPERTY GRID
ORIENTATION: TRUE NORTH
- P1-14 DRILL HOLE
4043 R.L. OF SKEETER SEAM FLOOR
4043 R.L. SKEETER SEAM FLOOR FROM CROSS SECTIONS
- SECTION LINES
OUTCROP OF SKEETER & CHAMBERLAIN SEAMS
position accurate
position approximate
- PLUNGE OF ANTICLINE
- THRUST FAULT TRACE AT LEVEL OF SKEETER SEAM
position accurate
position approximate
position inferred

657

PR-SUKUNKA 75(2)4

COALITION MINING LTD.

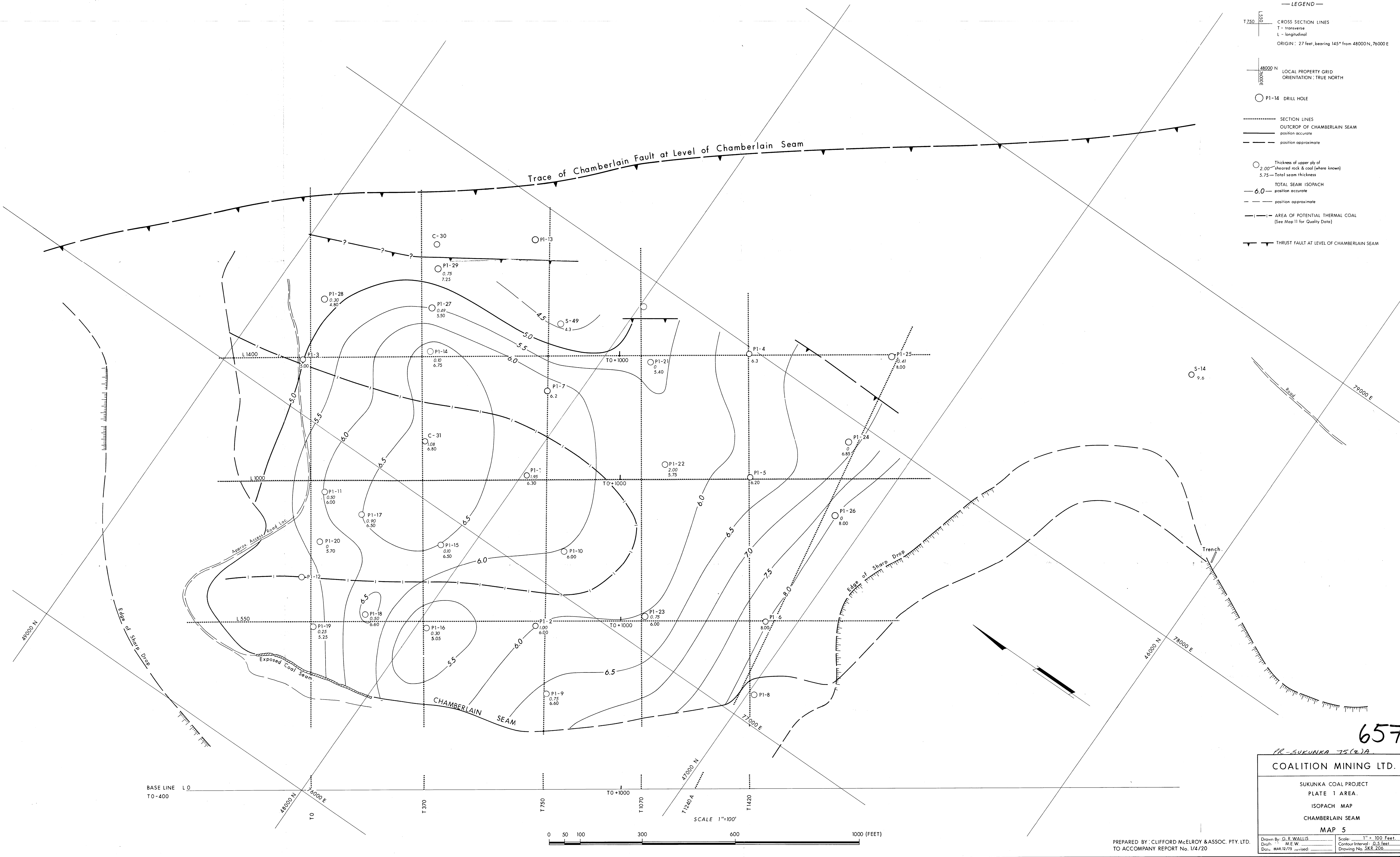
SUKUNKA COAL PROJECT
PLATE 1 AREA.
STRUCTURE CONTOURS
ON FLOOR OF SKEETER SEAM

MAP 4

Drawn By: G.R. WALLIS
Draft: M.E.W.
Date: MAR 12/75

Scale: 1" = 100 Feet.
Contour Interval: 10 Feet
Drawing No. SKR 205

PREPARED BY: CLIFFORD McELROY & ASSOC. PTY. LTD.
TO ACCOMPANY REPORT No. 1/4/20



- LEGEND —
- CROSS SECTION LINES
T - transverse
L - longitudinal
ORIGIN: 27 feet, bearing 145° from 48000 N, 76000 E
- LOCAL PROPERTY GRID
ORIENTATION: TRUE NORTH
- P1-14 DRILL HOLE
- SECTION LINES
OUTCROP OF CHAMBERLAIN SEAM
position accurate
position approximate
- Thickness of upper ply of
sheared rock & coal (where known)
2.00
5.75 - Total seam thickness
- TOTAL SEAM ISOPACH
6.0 position accurate
position approximate
- AREA OF POTENTIAL THERMAL COAL
(See Map 11 for Quality Data)
- THRUST FAULT AT LEVEL OF CHAMBERLAIN SEAM

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18-SUKUNKA 75(2)A

COALITION MINING LTD.

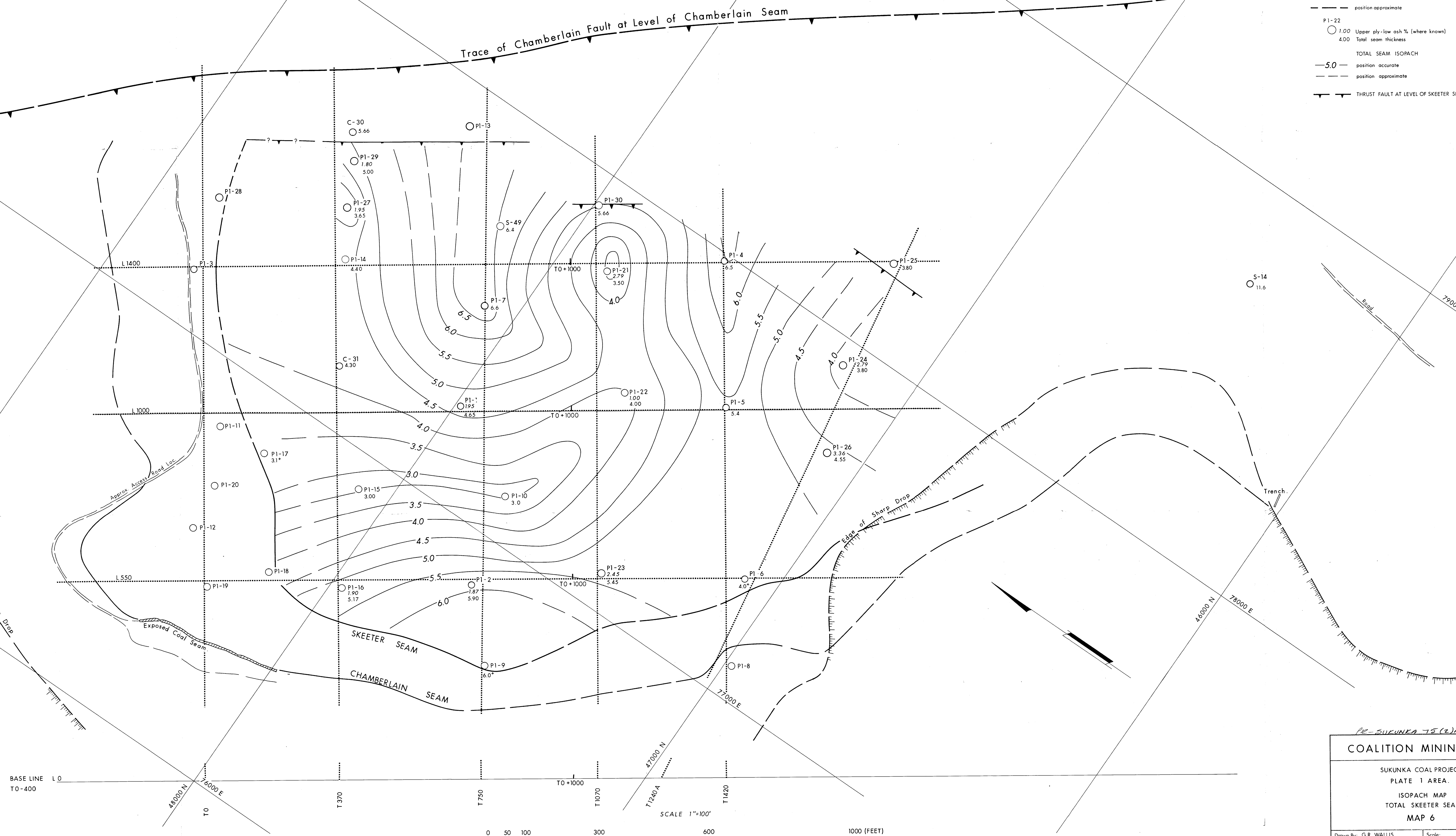
SUKUNKA COAL PROJECT
PLATE 1 AREA.
ISOPACH MAP
CHAMBERLAIN SEAM
MAP 5

Drawn By: G. R. WALLIS
Draft: M.E.W.
Date: MAR 12/75, revised:

Scale: 1" = 100 Feet.
Contour Interval: 0.25 feet
Drawing No. SKC 206

PREPARED BY: CLIFFORD McELROY & ASSOC. PTY. LTD.
TO ACCOMPANY REPORT No. 1/4/20

- LEGEND —
- T 750
L 550
CROSS SECTION LINES
T = transverse
L = longitudinal
ORIGIN: 27 feet, bearing 145° from 48000 N, 76000 E
- 48000 N
76000 E
LOCAL PROPERTY GRID
ORIENTATION: TRUE NORTH
- P1-14 DRILL HOLE
- SECTION LINES
OUTCROP OF CHAMBERLAIN SEAM
position accurate
position approximate
- P1-22
○ 1.00 Upper ply-low ash % (where known)
4.00 Total seam thickness
- TOTAL SEAM ISOPACH
5.0 position accurate
position approximate
- THRUST FAULT AT LEVEL OF SKEETER SEAM



BASE LINE L 0
TO -400

0 50 100 300 600 1000 (FEET)

SCALE 1"=100'

PE-SUKUNKA 75(2)A-657

COALITION MINING LTD.

SUKUNKA COAL PROJECT
PLATE 1 AREA.
ISOPACH MAP
TOTAL SKEETER SEAM
MAP 6

Drawn By: G.R. WALLIS
Draft: M.J.W.
Date: MAR 12/79

Scale: 1" = 100 Feet.
Contour Interval: 0.5 feet
Drawing No. 588-207

PREPARED BY: CLIFFORD McELROY & ASSOC. PTY. LTD.
TO ACCOMPANY REPORT No. 1/4/70

- LEGEND —
- CROSS SECTION LINES
T - transverse
L - longitudinal
ORIGIN : 27 feet, bearing 145° from 48000N, 76000E
- 48000 N
76000 E
LOCAL PROPERTY GRID
ORIENTATION : TRUE NORTH
- P1-14
4720
112
DRILL HOLE
DEPTH TO SKEETER SEAM
DEPTH TO SKEETER SEAM (from cross section)
- SECTION LINES
position accurate
position approximate
- OUTCROP OF CHAMBERLAIN & SKEETER SEAMS
position accurate
position approximate
- FAULT TRACE AT LEVEL OF SKEETER SEAM
- ISOPACH LINE
100
125
position accurate
position approximate
5' contours
- CONTOUR INTERVAL
10 feet except for 25, 35, 55, 95 & 125 feet contour lines
included for additional detail

BASE LINE L.O.
TO - 400

SCALE 1" = 100'
0 50 100 300 600 1000 (FEET)

PREPARED BY: CLIFFORD McELROY & ASSOC. PTY. LTD.
TO ACCOMPANY REPORT No. 1/4/20

PR-SUKUNEA 75(2)A

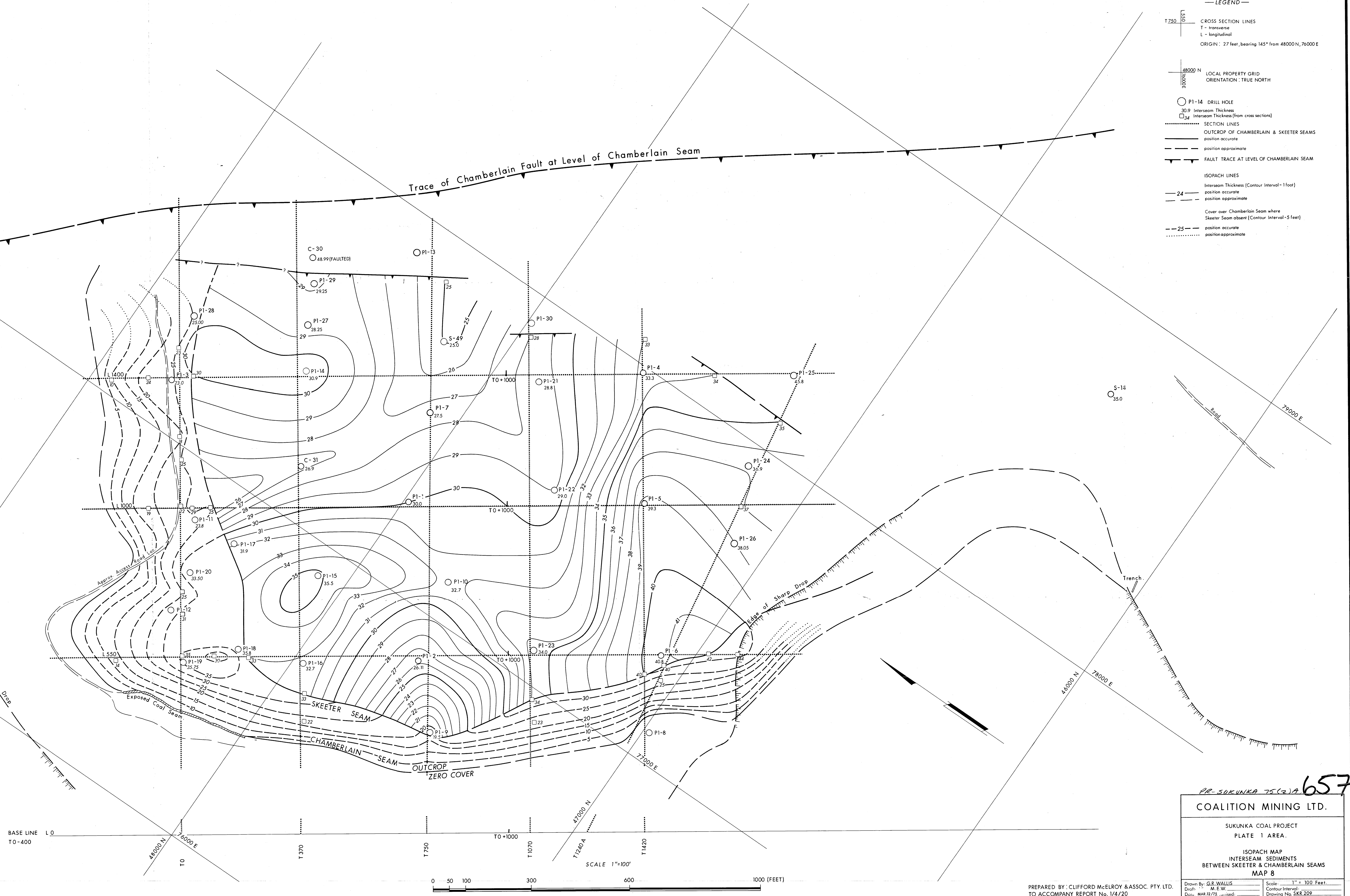
COALITION MINING LTD.

SUKUNKA COAL PROJECT
PLATE 1 AREA.
ISOPACH MAP
COVER OVER SKEETER SEAM
MAP 7

Drawn By: G.R. WALLIS
Draft: M.E.W.
Date: MAR. 12/79
Scale: 1" = 100 Feet.
Contour Interval:
Drawing No. SKR 208

657

- LEGEND —
- CROSS SECTION LINES
T - Transverse
L - longitudinal
ORIGIN: 27 feet, bearing 145° from 48000 N, 76000 E
- LOCAL PROPERTY GRID
ORIENTATION: TRUE NORTH
- P1-14 DRILL HOLE
30.9 Interseam Thickness
30.9 Interseam Thickness (from cross sections)
- SECTION LINES
OUTCROP OF CHAMBERLAIN & SKEETER SEAMS
position accurate
position approximate
FAULT TRACE AT LEVEL OF CHAMBERLAIN SEAM
- ISOPACH LINES
Interseam Thickness (Contour Interval - 1 foot)
position accurate
position approximate
Cover over Chamberlain Seam where Skeeter Seam absent (Contour Interval - 5 feet)
position accurate
position approximate



PR-SUKUNKA 75(2)A 657

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SUKUNKA COAL PROJECT
PLATE 1 AREA.

ISOPACH MAP
INTERSEAM SEDIMENTS
BETWEEN SKEETER & CHAMBERLAIN SEAMS
MAP 8

Drawn By: G.R. WALLIS
Drafted: M.E.W.
Date: MAR. 12/75

Scale: 1" = 100 Feet
Contour Interval: 1 foot
Drawing No. 588.209

PREPARED BY: CLIFFORD McELROY & ASSOC. PTY. LTD.
TO ACCOMPANY REPORT No. 1/4/20

— LEGEND —

7500
48000 N
76000 E

CROSS SECTION LINES
T - transverse
L - longitudinal
ORIGIN: 27 feet, bearing 145° from 48000 N, 76000 E

48000 N
76000 E
LOCAL PROPERTY GRID
ORIENTATION: TRUE NORTH

○ P1-14
78.10
TOTAL OVERBURDEN THICKNESS

..... SECTION LINES
OUTCROP OF CHAMBERLAIN SEAM
position accurate
position approximate

— FAULT TRACE AT LEVEL OF CHAMBERLAIN SEAM

ISOPACH LINE
position accurate
position approximate
5' contour interval

CONTOUR INTERVAL
10' except for 35, 55, 65,
155 feet contour lines
included for additional detail

NOTE: THE TOTAL OVERBURDEN
is the total cover over the Chamberlain Seam,
exclusive of the Skeeter Seam, and is a composite
of Maps 7 & 8.

NOTE: THE TOTAL OVERBURDEN
is the total cover over the Chamberlain Seam,
exclusive of the Skeeter Seam, and is a composite
of Maps 7 & 8.

LEGEND

..... SECTION LINES
OUTCROP OF CHAMBERLAIN SEAM
position accurate
position approximate

— FAULT TRACE AT LEVEL OF CHAMBERLAIN SEAM

ISOPACH LINE
position accurate
position approximate
5' contour interval

CONTOUR INTERVAL
10' except for 35, 55, 65,
155 feet contour lines
included for additional detail



PR-SUKUNKA 75(2)A 657

COALITION MINING LTD.

SUUKUNKA COAL PROJECT
PLATE 1 AREA.
ISOPACH MAP
TOTAL OVERBURDEN
OVER CHAMBERLAIN SEAM
MAP 9

Drawn By: G.R. WALLIS
Drafted: M.E.W.
Date: MAR. 12/73 revised:

Scale: 1" = 100 Feet.
Contour Interval:
Drawing No. 38R.210

PREPARED BY: CLIFFORD MCLEROY & ASSOC. PTY. LTD.
TO ACCOMPANY REPORT No. 1/4/20

—LEGEND—

CROSS SECTION LINES
T = transverse
L = longitudinal
ORIGIN: 27 feet, bearing 145° from 48000 N, 76000 E

48000 N
76000 E
LOCAL PROPERTY GRID
ORIENTATION: TRUE NORTH

○ P1-14 DRILL HOLE

SECTION LINES
OUTCROP OF CHAMBERLAIN & SKEETER SEAM
position accurate
position approximate

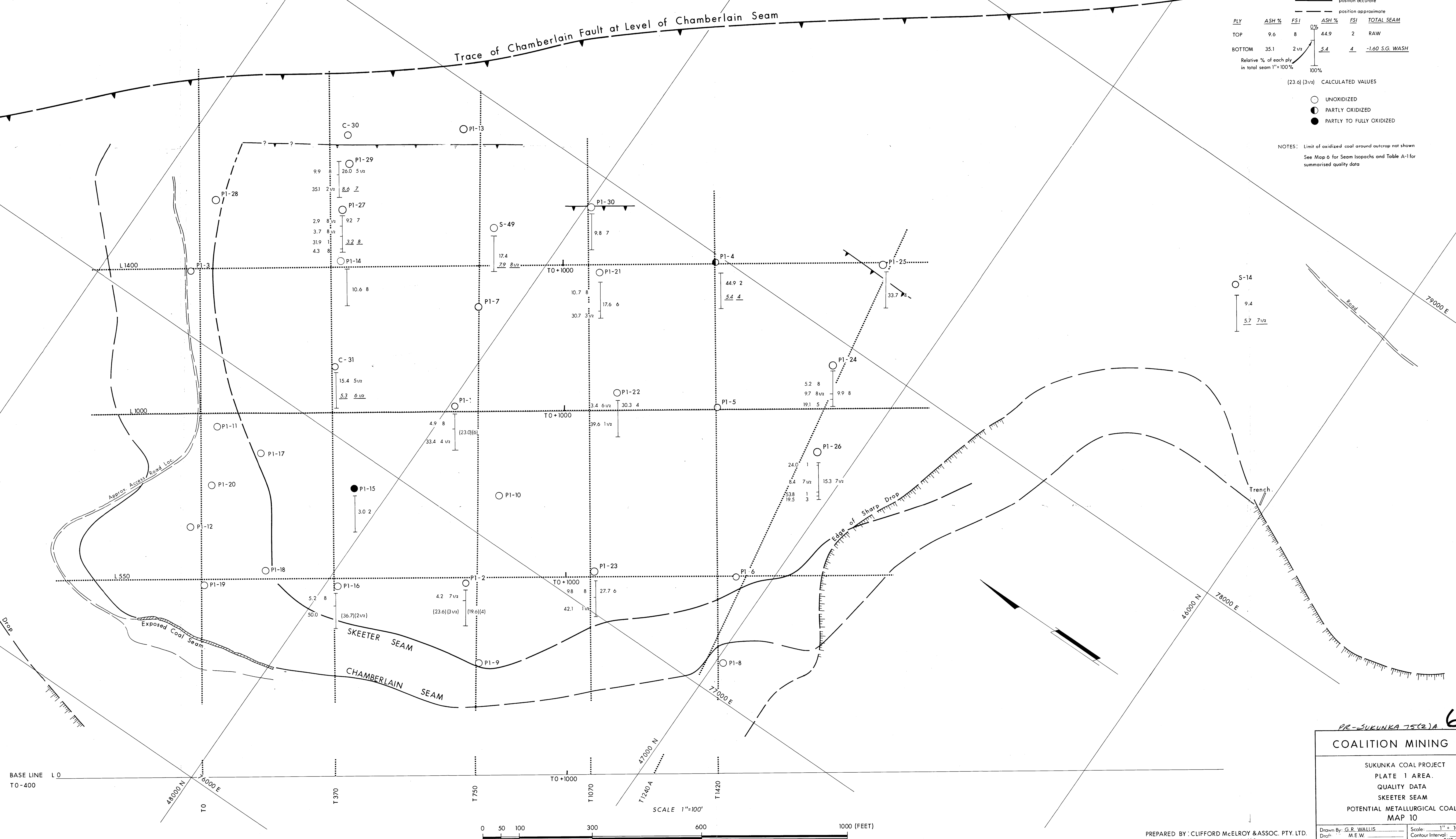
PLY	ASH %	FSI	Q%	ASH %	FSI	TOTAL SEAM
TOP	9.6	8	44.9	2	RAW	
BOTTOM	35.1	2 1/2	5.4	4	-1.60 S.G. WASH	

Relative % of each ply in total seam 1" = 100%

(23.6) (3 1/2) CALCULATED VALUES

○ UNOXIDIZED
● PARTLY OXIDIZED
● PARTLY TO FULLY OXIDIZED

NOTES: Limit of oxidized coal around outcrop not shown
See Map 6 for Seam Isopachs and Table A-1 for summarized quality data



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PR-SUKUNKA 75021A

COALITION MINING LTD.

SUKUNKA COAL PROJECT
PLATE 1 AREA.
QUALITY DATA
SKEETER SEAM
POTENTIAL METALLURGICAL COAL
MAP 10

Drawn By: G.R. WALLIS
Draft: M.E.W.
Date: MAR 12/75

Scale: 1" = 100 Feet
Contour Interval:
Drawing No. SKR.211

PREPARED BY: CLIFFORD McELROY & ASSOC. PTY. LTD.
TO ACCOMPANY REPORT No. 1/4/70

— LEGEND —

7500
48000 N
76000 E

CROSS SECTION LINES
T - transverse
L - longitudinal
ORIGIN: 27 feet, bearing 145° from 48000N, 76000E

48000 N
76000 E
LOCAL PROPERTY GRID
ORIENTATION: TRUE NORTH

○ P1-14 DRILL HOLE

SECTION LINES
OUTCROP OF CHAMBERLAIN SEAM
position accurate

PLY	ASH %	FSI	0%	ASH %	FSI	TOTAL SEAM
TOP	9.6	8	44.9	2	RAW	
BOTTOM	35.1	2 1/2	5.4	4	-1.60 S.G. WASH	

Relative % of each ply
in total seam 1"=100%

100%

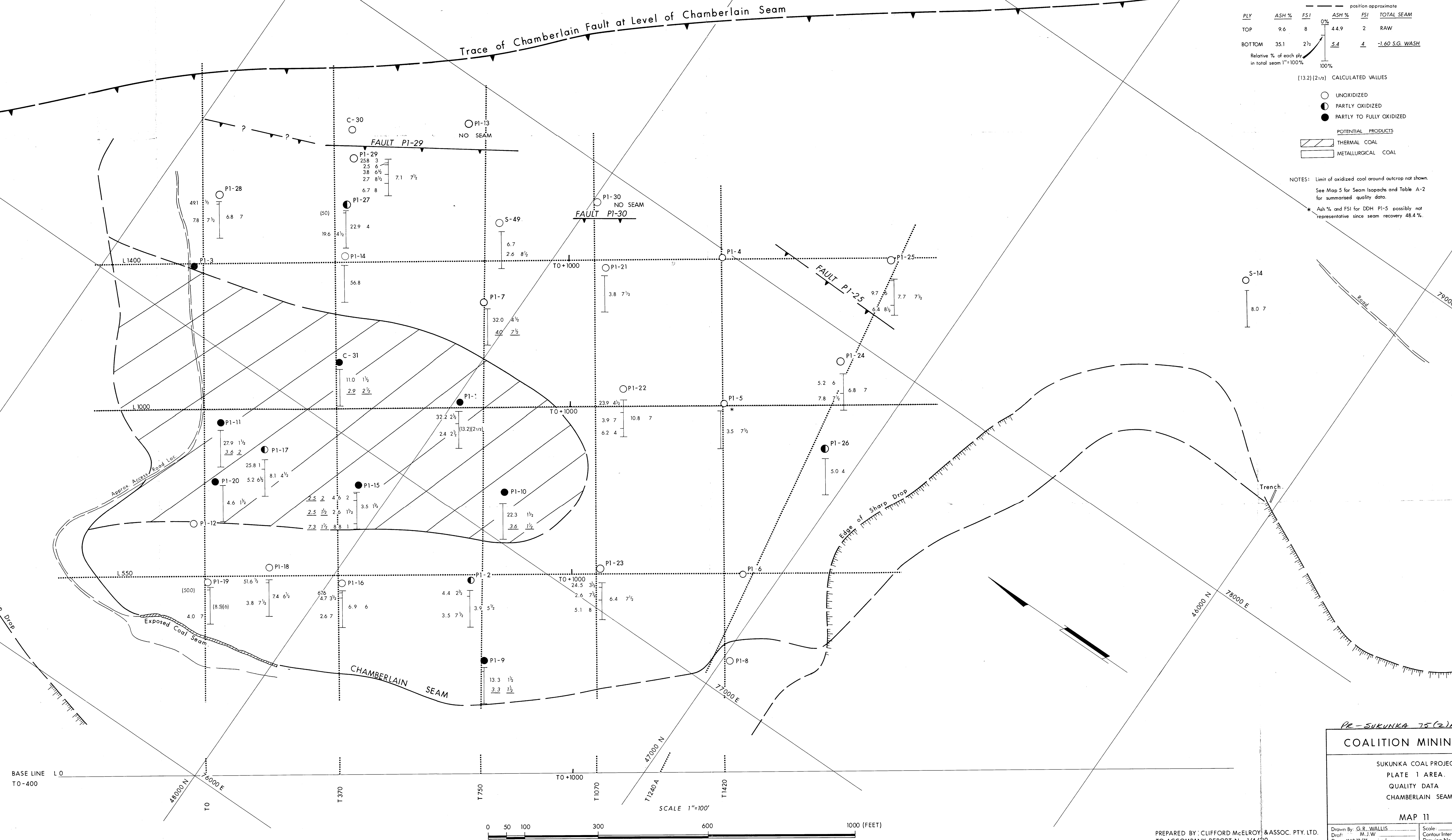
(13.2) (2 1/2) CALCULATED VALUES

○ UNOXIDIZED
● PARTLY OXIDIZED
● PARTLY TO FULLY OXIDIZED

POTENTIAL PRODUCTS

▨ THERMAL COAL
▨ METALLURGICAL COAL

NOTES: Limit of oxidized coal around outcrop not shown.
See Map 5 for Seam Isopachs and Table A-2
for summarized quality data.
* Ash % and FSI for DDH P1-5 possibly not
representative since seam recovery 48.4 %



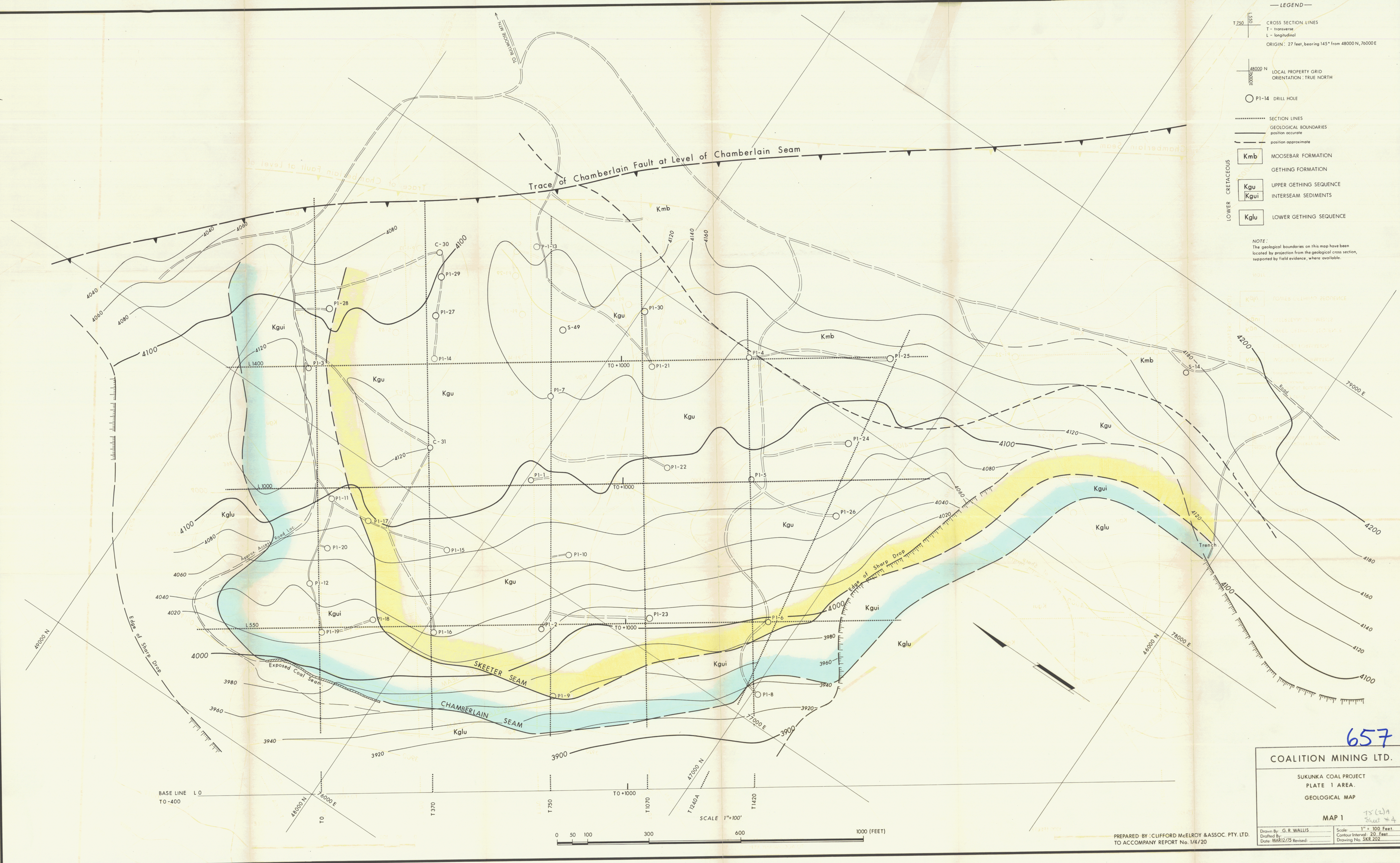
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SUKUNKA COAL PROJECT
PLATE 1 AREA.
QUALITY DATA
CHAMBERLAIN SEAM

MAP 11

PREPARED BY: CLIFFORD McELROY & ASSOC. PTY. LTD.
TO ACCOMPANY REPORT No. 1/4/80

Drawn By: G.S. WALLIS
Draft: M.J.W.
Date: MAR 12/75
Scale: 1" = 100 Feet.
Contour Interval:
Drawing No. SKR 222



LEGEND

CROSS SECTION LINES
T - Transverse
L - Longitudinal
ORIGIN: 27 feet, bearing 145° from 48000 N, 76000 E

LOCAL PROPERTY GRID
ORIENTATION: TRUE NORTH

P1-14 DRILL HOLE

SECTION LINES
GEOLOGICAL BOUNDARIES
position accurate
position approximate

Kmb MOOSEBAR FORMATION
GETHING FORMATION

Kgu UPPER GETHING SEQUENCE
Kglu INTERSEAM SEDIMENTS

Kglu LOWER GETHING SEQUENCE

NOTE:
The geological boundaries on this map have been located by projection from the geological cross section, supported by field evidence, where available.

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COALITION MINING LTD.

SUKUNKA COAL PROJECT
PLATE 1 AREA.
GEOLOGICAL MAP

MAP 1

Drawn By: G.R. WALLIS
Drafted By: G.R. WALLIS
Date: MAR/25/20
Scale: 1" = 100 Feet
Contour Interval: 20 Feet
Drawing No. 388.202

PREPARED BY: CLIFFORD McELROY & ASSOC. PTY. LTD.
TO ACCOMPANY REPORT No. 1/4/20