

CONTENTS ENVELOPE 6919TENEMENT: E.L.'s 1356 & 1357TENEMENT HOLDER: Aberfoyle Resources Ltd.REPORTS: Undated relinquished area report Pgs. 3-13

|               |                                                 |         |
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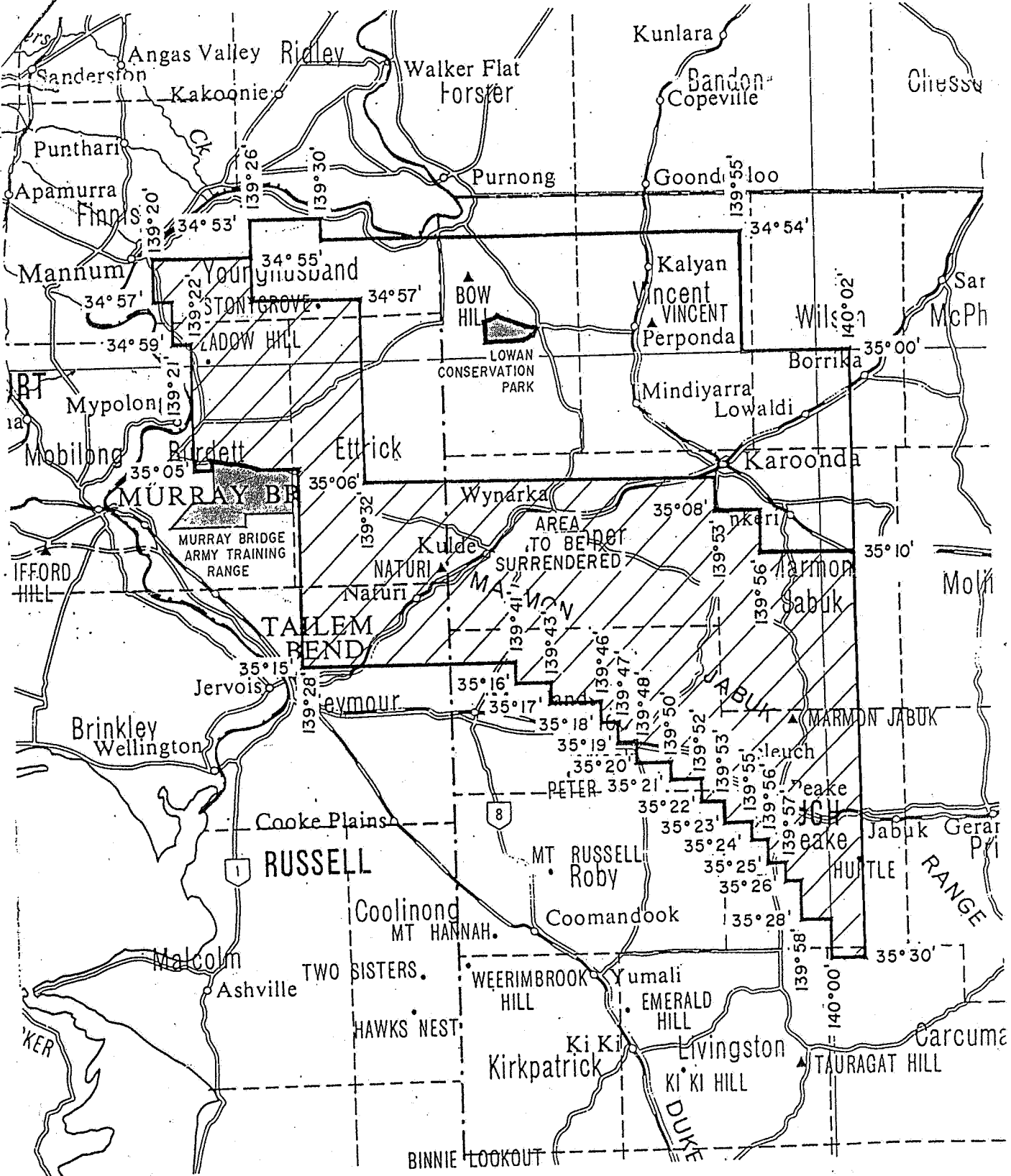
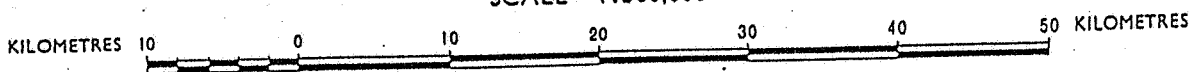


FIGURE 1 LOCATION MAP, E.L. 1356 SHOWING RELINQUISHED AREA

SCALE 1:500,000



APPLICANT: ABERFOYLE RESOURCES LIMITED 1033  
DME 114/86 AREA: 249+ square kilometres (approx.)  
1:250000 PLANS: ADELAIDE BARKER RENMARK PINNAROO  
LOCALITY: KAROONDA AREA — approx. 40 km east of Murray Bridge  
DATE GRANTED: 2-9-86 DATE EXPIRED: 1-9-87

EL No: 1356

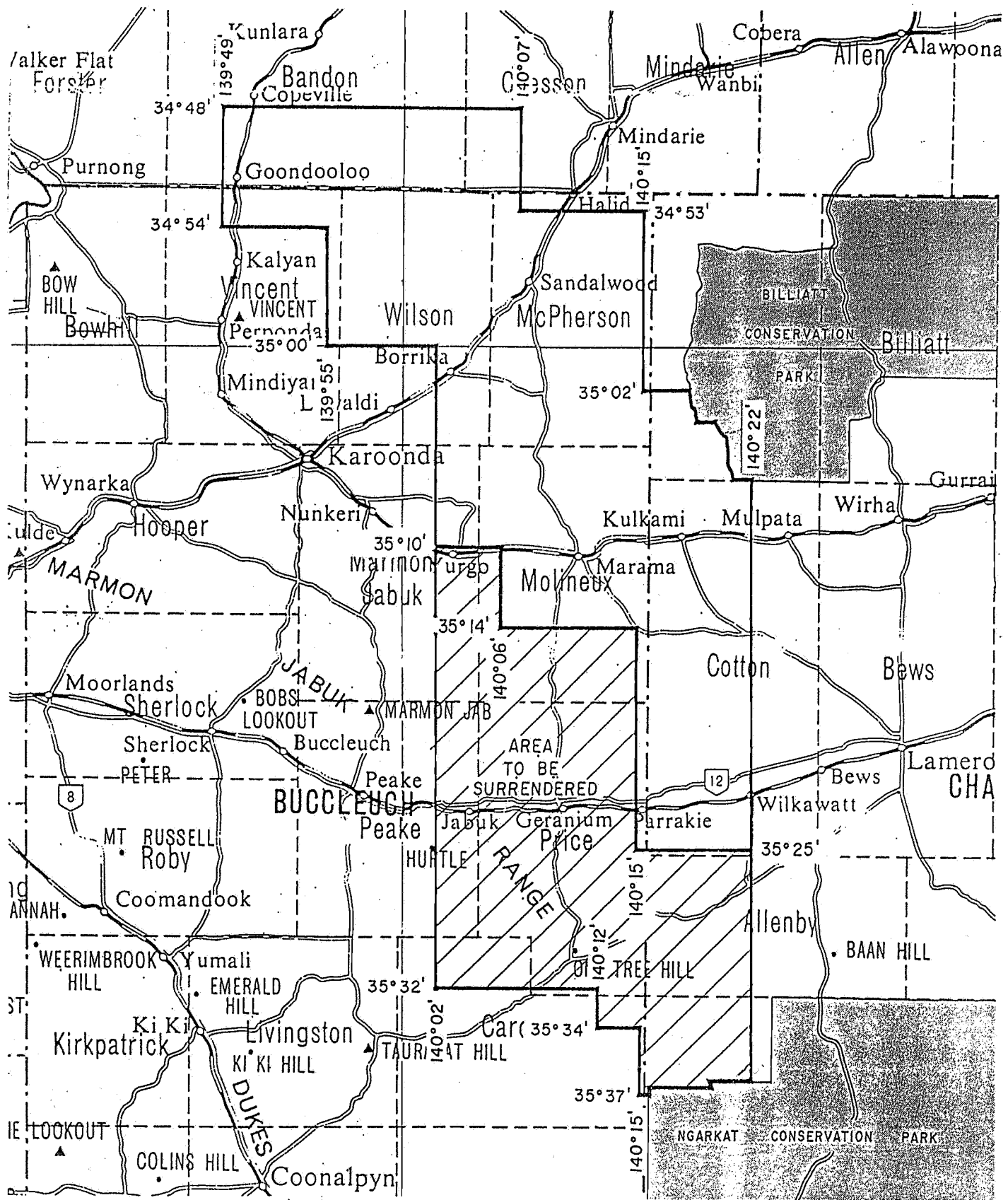


FIGURE 2 LOCATION MAP E.L. 1357 SHOWING RELINQUISHED AREA.  
SCALE 1:500,000

KILOMETRES 10 0 10 20 30 40 50 KILOMETRES

APPLICANT: ABERFOYLE RESOURCES LIMITED 1542  
DATE: 12/3/86 AREA: ~~2492~~ square kilometres (approx.)

: 250 000 PLANS:      REMARK      PINNAROO

LOCALITY: PARRAKIE AREA — approx. 80 km east of Murray Bridge

DATE GRANTED: 2-9-86

DATE EXPIRED: 1-9-87

EL No: 1357

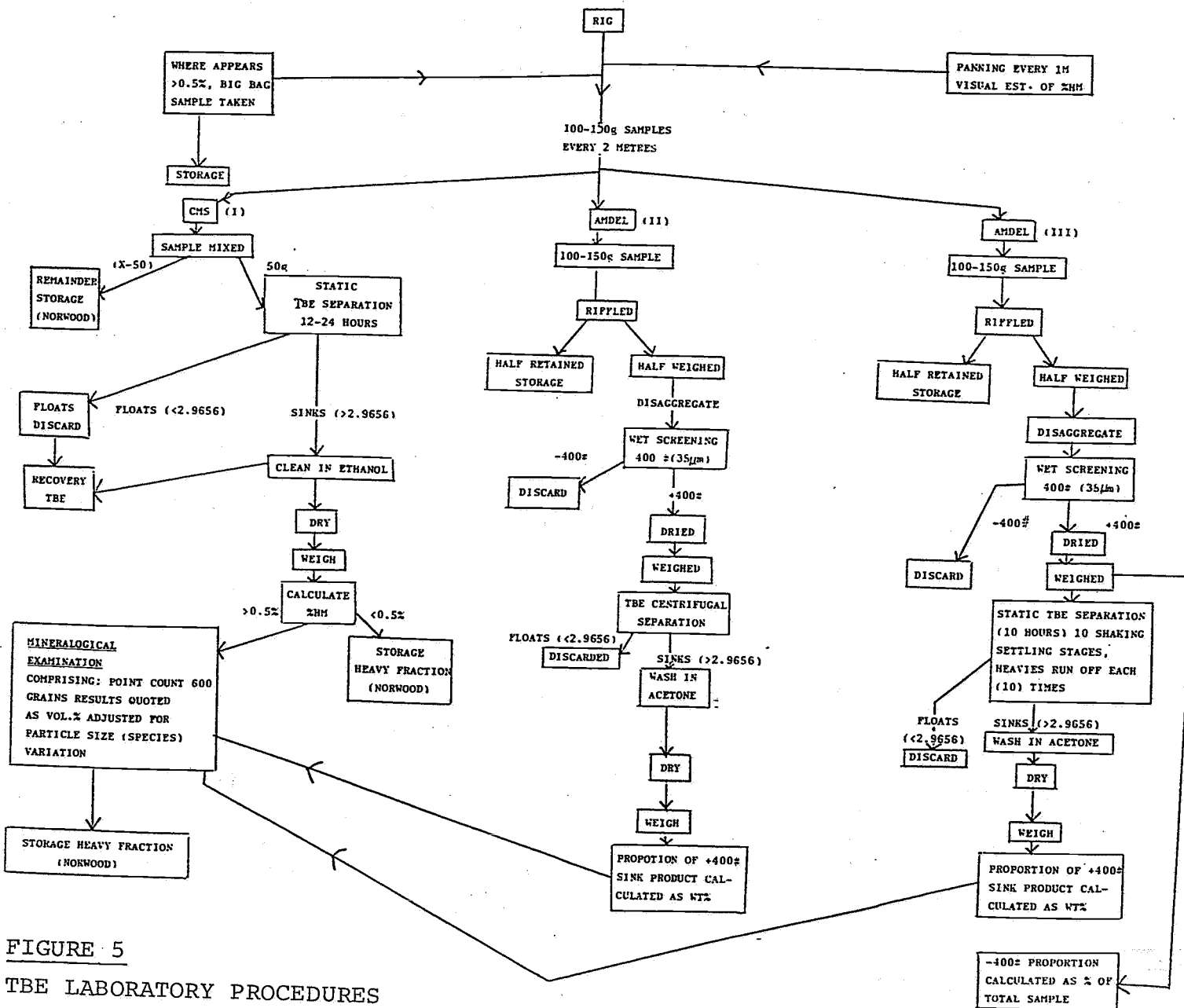


FIGURE 5  
TBE LABORATORY PROCEDURES

## SUMMARY

A RAB drilling programme to assess the Late Tertiary sequence for heavy mineral sand accumulations discovered low amounts of heavy minerals with mineral assemblages dominated by goethite. Relinquishment of 1458 square kilometres of EL 1356 and 950 square kilometres of EL 1357 is recommended.

## INTRODUCTION

This report describes exploration carried out by Aberfoyle Resources Ltd between June 1986 and July 1987 on the southern (relinquished) portions of EL 1356 (Karoonda) and EL 1357 (Parrakie). Heavy mineral sand accumulations in the Upper Tertiary was the target for exploration.

## LOCATION AND TENURE

Exploration Licences 1356, Karoonda and 1357, Parrakie were granted to Aberfoyle on 2 September 1986. Forms of surrender for these parts of the two EL's shown on Figures 1 and 2 were accepted by the Minister of Mines and Energy on 28 August 1987. The two areas cover 1458 and 950 square kilometres, respectively.

## GEOLOGY

The reader is referred to the Stratigraphic Column on the PINNAROO 1:250,000 sheet by Rogers (1980), and the accompanying notes.

Basement to the EL's is believed to be composed of middle Cambrian Kanmantoo Group metasediments. The main lithologies of these metamorphosed greywacke-type clastics are quartz-mica schist, sericite schist, slate, metasiltstone and quartzite. Gneiss, carbonates and basic igneous rocks have been recorded in drillholes. There are small scattered outcrops of Kanmantoo Group metasiltstone west of Moorlands, on the southern boundary of EL 1356. Near Tailem Bend, drilling has intersected sheets of amphibolite up to 3 metres thick (Nichol, 1977).

The Delamarian orogeny in Late Cambrian time resulted in the folding, faulting and metamorphism of the Kanmantoo Group rocks and culminated in the Early Ordovician with local extrusion of acid volcanics and intrusion of related fluorite-bearing leucogranite and biotite-hornblende granites and adamellites in a belt extending from Mannum and Murray Bridge to the Kingston-Padthaway area. These rocks lie along a northwest-trending basement high called the Padthaway Ridge.

Permian deposits in the southwestern Murray Basin are thought to fill buried glacial valleys which extend parallel to the Coorong. These deposits, consisting of sands and clays with boulders of granite and metamorphic rocks have been intersected in a steep-sided valley lying along the western edge of the granite body forming the crest of the Padthaway Ridge. Gravity, seismic and aeromagnetic data provide strong evidence for a northerly trending trough east of Karoonda, probably containing Permian deposits (Rogers, 1980).

During the Paleocene-Eocene the Renmark Beds were deposited in a predominantly fluvial-lacustrine environment over the area covered by the Karoonda and Parrakie EL's but was not deposited on the Padthaway Ridge. The Moorlands Lignite Member in the upper Renmark Beds was deposited in swamps formed in local depressions on the Kanmantoo basement. The Moorlands coalfield straddles the southern boundary of EL 1356 south of the Marmon Jabuk Scarp.

Marine transgression in the Late Eocene to Middle Miocene led to the development of an extensive shallow marine sea dominated by carbonate platform and shallow water sedimentation represented by the Buccleuch Beds/Compton conglomerate, Ettrick Formation and Gambier Limestone equivalents. (See also stratigraphic column) At the height of marine transgression in this time, the Padthaway Ridge probably existed as an archipelago of granite islands in a shallow sea.

The Middle Miocene limestones are disconformably overlain by the marine, glauconitic Bookpurnong Beds of late Miocene to early Pliocene age. These sediments record the first of three relatively brief, late Tertiary transgressive-regressive events (Rogers, 1980).

Higher energy conditions in the Pliocene are indicated by the beach, coastal dune and fluvial facies Loxton and Parilla Sands. These sands were probably derived from reworking of earlier deposits, and fluvial input during this pluvial period. The sands occur as a series of gently curved ridges interpreted as successive stranded coastlines of a regressive sea. This arcuate northwest-trending fabric is readily recognised on topographic maps, aerial photos and Landsat scenes.

In early Pleistocene time, the fluvial-lacustrine Blanchetown Clay was laid down over wide areas covered by EL's 1356 and 1357. The Middle to Late Pleistocene was characterized by the development of carbonate paleosols containing two subdivided calcrete horizons: the Ripon and Bakara Calcretes (ibid).

Holocene sand sheets and dunes are defined as Molineaux Sand by Firman (1973). In places, the Molineaux Sand thinly veneers Ripon/Bakara Calcretes, Blanchetown Clay and Loxton/Parilla Sands within EL's 1356 and 1357.



-3-

The Upper Tertiary Loxton and Parilla sands were considered the most likely hosts for economic heavy mineral sand accumulations.

## EXPLORATION PROGRAMME

### 1. RECONNAISSANCE SAMPLING

Because of Quaternary and recent cover, it was considered that shallow RAB drilling on traverse lines would be the most effective method of assessing the Tertiary for heavy mineral accumulations.

However, reconnaissance sampling of rubbish dumps, council  
 0 barrow pits, road and railway cuttings and any other areas of possible exposure of the Tertiary was deemed potentially useful in planning the drilling programme. Accordingly, nine sand samples collected (locations, figures 3 and 4) over the area of the EL's were selected for laboratory work by contractor Central Mineralogical Services.

The samples were dried where necessary, and aggregates broken up. Fifty gram portions were then separated in TBE (S.G. = 2.95), and the resulting sink fractions were weighed. Results are shown in the Table below.

#### Weight Percentages of TBE Sink Fractions

##### Sample Number

|        |       |
|--------|-------|
| 352926 | 0.39% |
| 352928 | 0.51% |
| 352929 | 0.26% |
| 353931 | 0.34% |
| 352934 | 0.48% |
| 352959 | 0.56% |
| 352961 | 0.44% |
| 352968 | 0.15% |
| 352970 | 0.22% |

Four of the above samples were selected for mineralogical examination. Results are tabulated below:

|               |                                                                                                                                                                                                                             |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <u>352928</u> | Mainly leucoxene and degraded ilmenite; about 20% zircon, 10-15% rutile, minor to trace tourmaline, garnet, hornblende, kyanite, staurolite, sphene, epidote, sillimanite, and andalusite, green spinel. Isolated monazite. |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

- 352934 Mainly ilmenite and goethite-coated quartz; minor leucoxene, with 15-20% zircon, about 5% rutile; traces of tourmaline, hornblende, sillimanite. All grains heavy iron-stained and coated, requiring acid treatment before examination.
- 352959 About 75% ilmenite/degraded ilmenite, with about 5% rutile and 5% zircon; 15% other minerals, including tourmaline, hornblende, coated quartz, sillimanite and 2-3% monazite. Most grains are coated with feruginous clay or goethite.
- 352961 35-40% ilmenite/degraded ilmenite, about 20-25% leucoxene, 5-10% zircon, 5-10% rutile, 20-25% other minerals, including tourmaline, hornblende, sillimanite, staurolite, kyanite, garnet, epidote, monazite. Variable Fe-staining and coatings.

Although these samples are probably samples from Holocene Molineaux Sand, it is believed these sheet and dune sands are derived from underlying units. The presence of ilmenite, rutile, zircon, leucoxene and monazite was thus considered an encouraging feature.

## 2. RAB DRILLING PROGRAMME

### 2.1 Drilling Methods

The contractor was H A and J E Wilson of Cobar, NSW, using a truck-mounted Investigator Mk. 5 air rig. Vertical holes were drilled by the RAB method to depths of between 12 and 24 metres and hole spacings of between 100 and 400 metres, mostly using a 100mm blade bit. In places, 115mm diameter hammer, and tricone drilling were used to penetrate near-surface calcrete.

One hundred to 150 gram grab samples were collected from each 2 metre interval of drilling. Sand samples were panned on-site for visual estimates of heavy mineral percentage. Drilling took place along traverses on the sides of secondary roads. These traverses are shown on Figures 3 and 4.

### 2.2 Heavy Liquid Separations

Samples were selected for heavy liquid separation based on evolving confidence of on-site estimation of heavy mineral percentages.

At first, fairly random samples were selected, but as field techniques improved, only those samples estimated to contain 0.5% or better heavy minerals were submitted for heavy liquid separation.

Likewise, a variety of laboratory procedures were tried in an effort to get the best balance of cost and accuracy in separations. The three methods used are shown in flow sheet form on Figure 5.

### 2.3 Mineralogy

Mineralogical examinations of heavy fractions were carried out by H W Fander of Central Mineralogical Services. Samples were mounted in a Refractive Index oil of 1.63 and point counts of 600 grains per sample undertaken. Percentage mineral species are quoted as volume percentages, adjusted for species size variation.

### RAB DRILLING RESULTS

RAB drilling data is presented as drillhole cross-sections of each drilling traverse (Appendix A). Heavy mineral percentages, and their mineralogy when determined are shown on these cross-sections.

The sand intersected in RAB drilling display wide variations in sorting and rounding as well as grainsize. Particle size ranges from very fine sand to pebble.

Sands are frequently overlain by clay and clayey sand up to 18 metres thick. Nodular, rubbly and sheet calcrete was intersected near surface over wide areas.

Shell fragments were observed, almost ubiquitously, in samples from RAB lines D, DEX, E, F, H1 and H2 and suggest that holes on these lines intersected Pliocene Norwest Bend Formation.

Carbonate cementation of the sand is frequently associated with this significant fossiliferous component to the sand. Ferruginous cementation is less common, and may represent a lower Pleistocene fossil soil known as the Karoonda Soil, described by Firman (1979).

Only trace amounts of heavy minerals were generally intersected in RAB drilling. The greatest amount was 7.14% in hole T3, Line T. However, this heavy fraction consisted almost entirely of goethite and contained no minerals of economic interest.

Mineral assemblages on Lines V and U were somewhat better but still contained low percentages of economic minerals rutile, leucoxene, ilmenite and zircon. As with Line T, goethite dominates the mineral assemblage. Very low percentages of heavy minerals were observed in panning samples from Lines D, DEX, E, F, H1, H2, G and N.

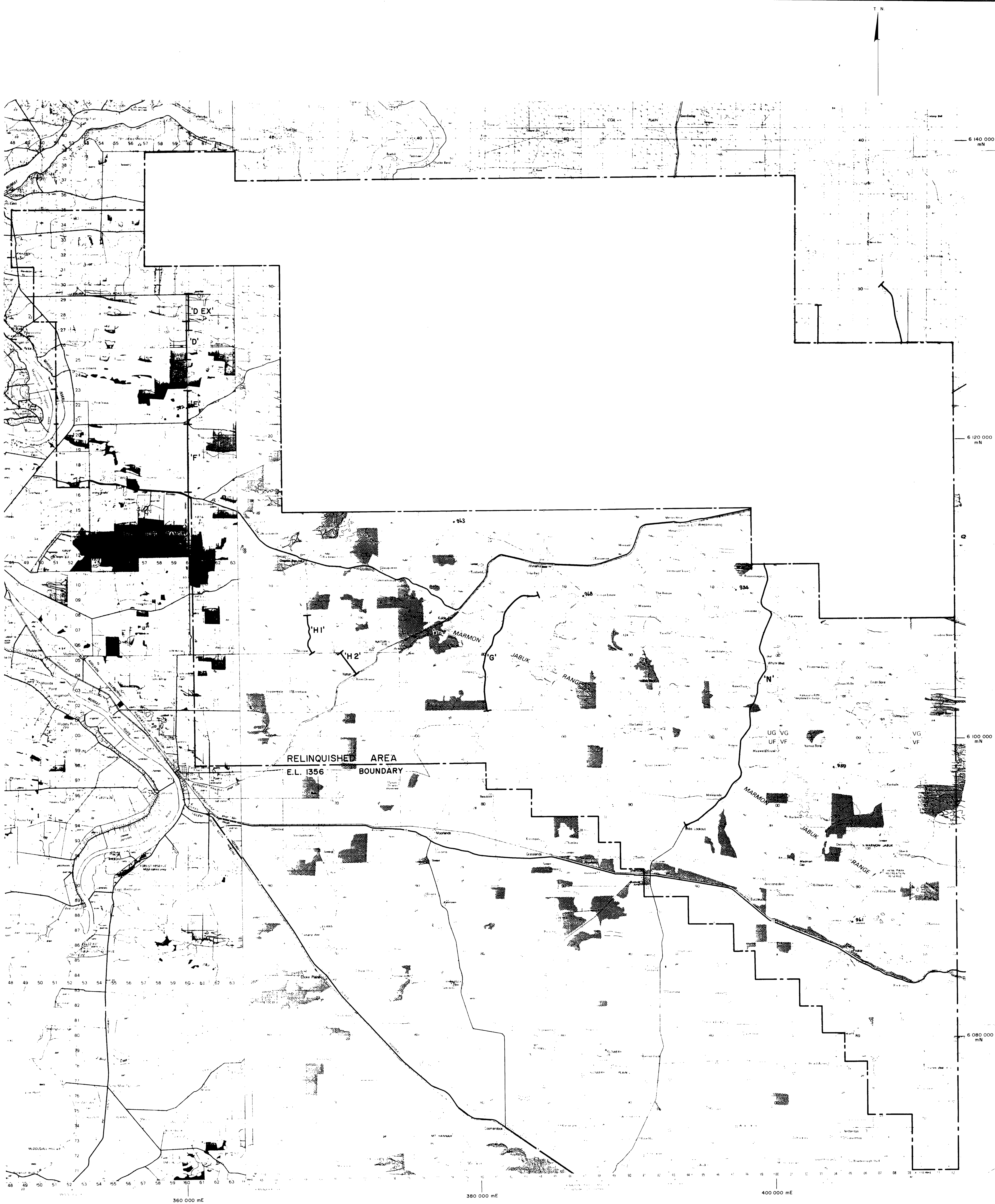
CONCLUSIONS

In view of the discouraging mineral assemblages and low heavy mineral contents of sands in these areas, it is recommended that title to these areas be relinquished.

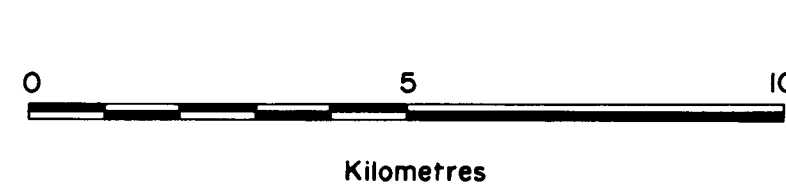
REFERENCES

- |             |      |                                                                                                                            |
|-------------|------|----------------------------------------------------------------------------------------------------------------------------|
| Firman, J B | 1973 | Regional Stratigraphy of surficial deposits in the Murray Basin and gambier Embayment,, Rep. Invert., Geol. Survey SA. 39. |
| Firman, J B | 1979 | Paleopedology applied to land use studies in SA. Geoderma, 22:105-117.                                                     |
| Nichol, D   | 1977 | An amphibolite deposit near Taillem Bend. Mineral Resource Rev., South Australia. 140:80-85                                |
| Rogers, P A | 1980 | PINNAROO, South Australia 1:250,000 geological series sheet 51/54-14. Geological Survey South Australia.                   |





N  
Extent of RAB traverse  
- see Cross Sections  
- 963  
Rise sample location and  
Number  
Prefixed 252-

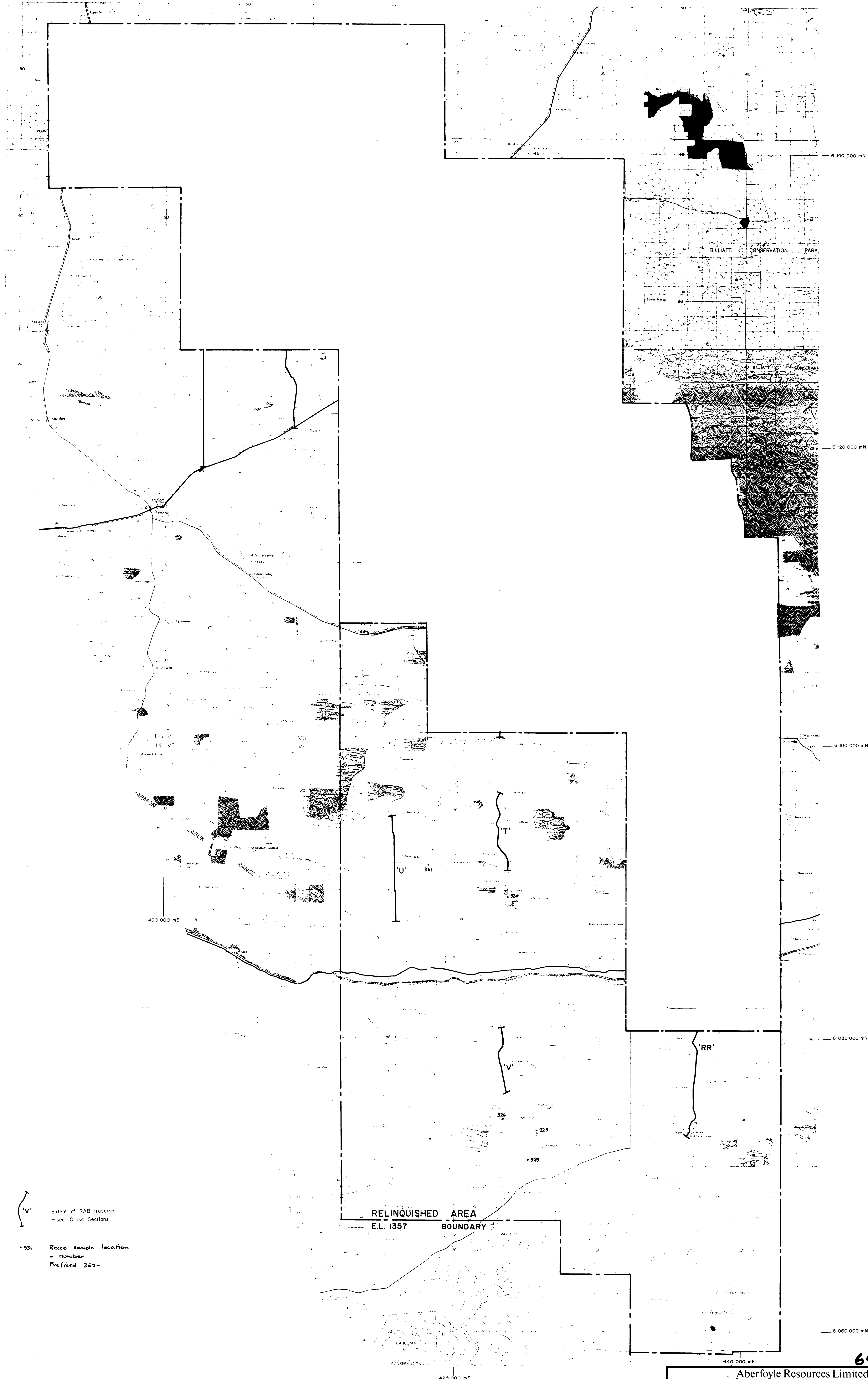


6919-1  
FIGURE 3

Base prepared from the Division of National Mapping  
1:100,000 Topographic Map Series.

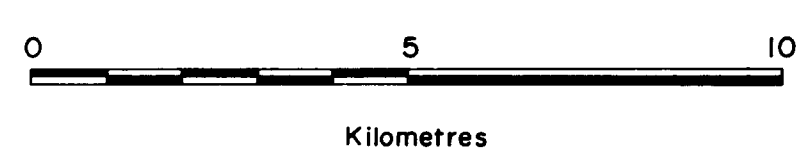
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|-----------------------------|--|--|--|--|-----------------|--|--|--|--|
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| SOUTH AUSTRALIA             |  |  |  |  | Compiled MGT    |  |  |  |  |
| RELINQUISHED AREA           |  |  |  |  | Drawn MGT       |  |  |  |  |
| KAROONDA E.L. 1356          |  |  |  |  | Traced GLC      |  |  |  |  |
| DRILL LINE LOCATIONS        |  |  |  |  | Checked MGT     |  |  |  |  |
| Location Code 154/10,14     |  |  |  |  | Date 28/08/1987 |  |  |  |  |
| Scale 1:100,000             |  |  |  |  | Plate No K 22   |  |  |  |  |





Extent of RAB traverse  
- see Cross Sections

931 Recce sample location  
+ number  
Prefixed 352-



Base prepared from the Division of National Mapping  
1:100 000 Topographic Map Series.

6919-2

FIGURE 4

Aberfoyle Resources Limited

EXPLORATION DIVISION

SOUTH AUSTRALIA

RELINQUISHED AREA

PARRAKIE E.L. 1357

DRILL LINE LOCATIONS

| REVISIONS |      |     |      |
|-----------|------|-----|------|
| Int       | Date | Int | Date |
|           |      |     |      |
|           |      |     |      |
|           |      |     |      |
|           |      |     |      |

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Compiled MGT

Drawn MGT

Traced GLC

Checked MGT

Plate No P 13

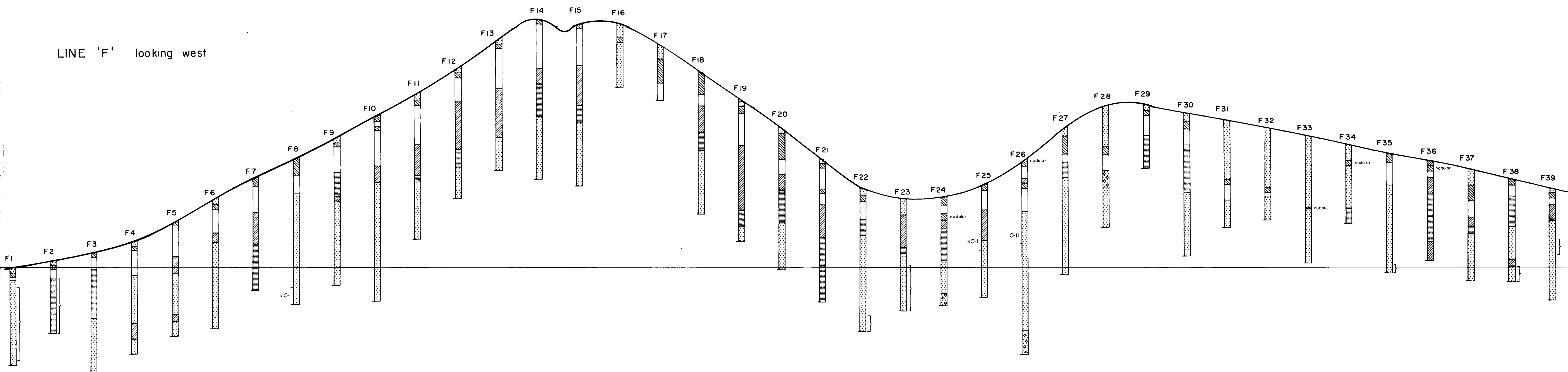
RMO 55



61 16000 m N

LINE 'F' looking west

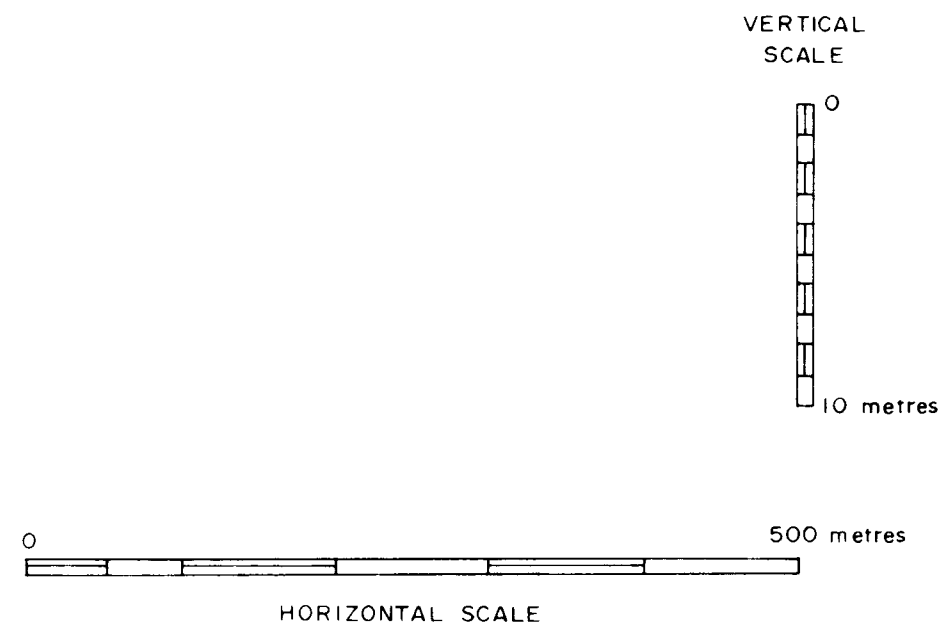
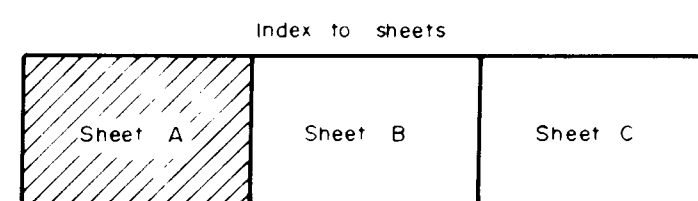
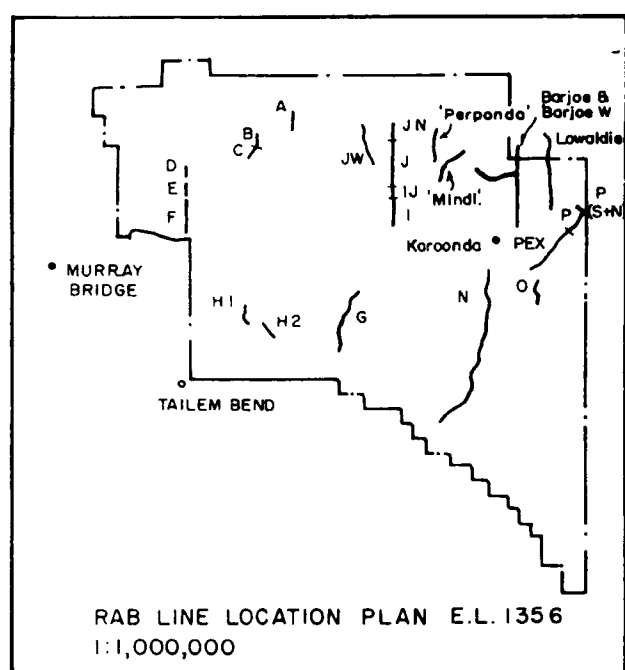
60 m ASL



calcrete  
white kaolinitic calcareous clay  
red-orange brown firm silty clay  
red-orange brown f.g. sandy clay to clayey sand  
mostly orange-red brown f.g. clean quartz sand, occasional m. - v.c.g. and gritty quartz sand. Generally ubiquitous white mica, occasional shell fragments.  
interbedded granules/pebbles  
granules/pebbles

% Heavy Minerals  
0.42

Indurated patches

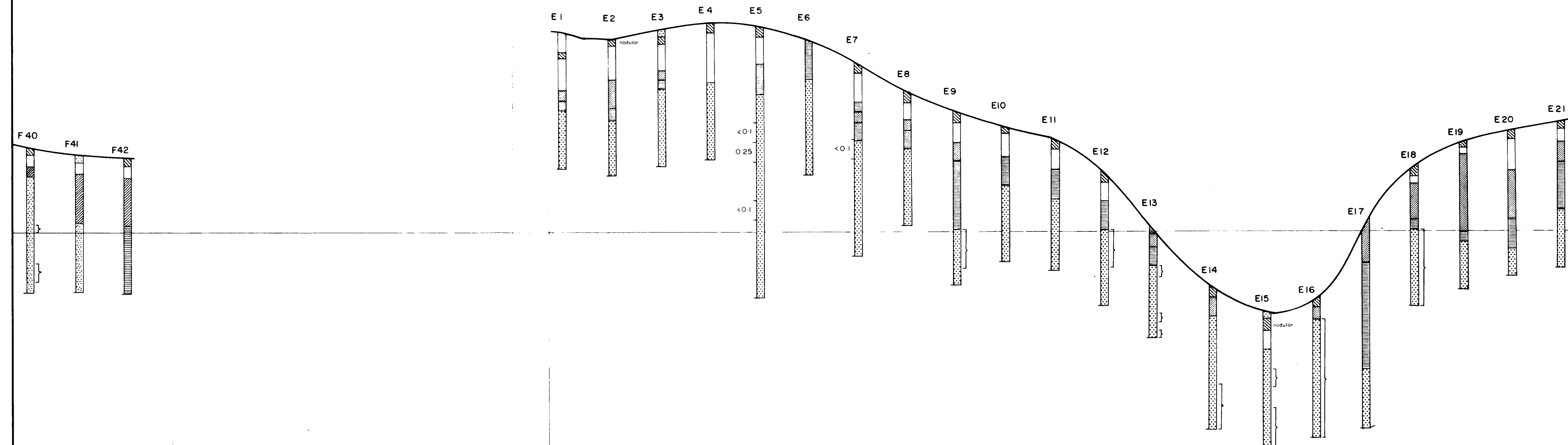


|                             |                             |                    |                    |
|-----------------------------|-----------------------------|--------------------|--------------------|
| 6919-3                      |                             |                    |                    |
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| CROSS SECTION 360000E       |                             | Traced :           | JB                 |
| SHEET 'A'                   |                             | Checked :          | MGT                |
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6121000 m N

LINE 'E' looking west



60m ASL

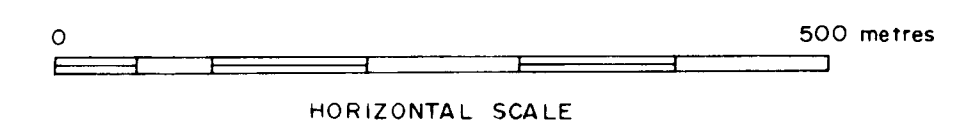
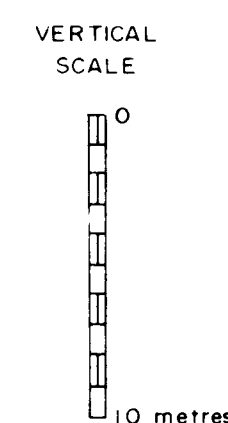
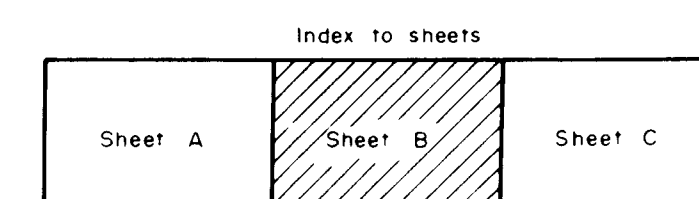
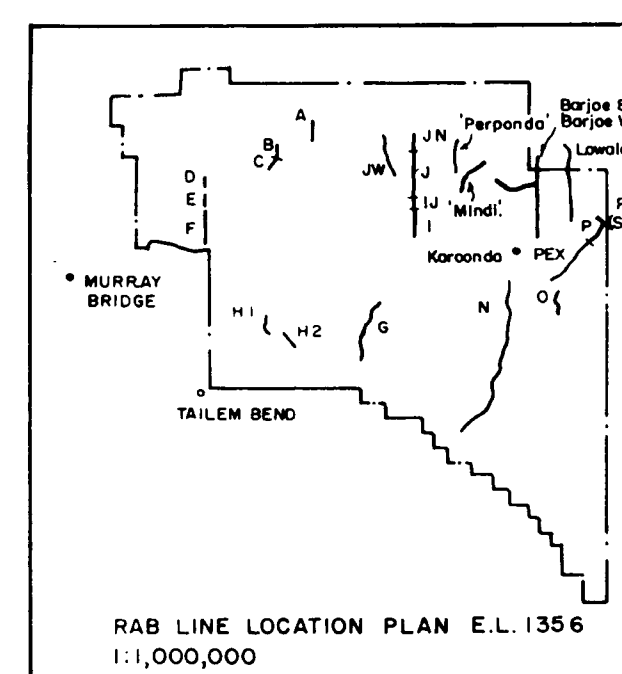


calcrete  
white kaolinitic calcareous clay  
red-orange brown firm silty clay  
red-orange brown f.g. sandy clay to clayey sand  
mostly orange-red brown f.g., clean quartz sand, occasional m. - v.c.g. and gritty quartz sand. Generally ubiquitous white mica, occasional shell fragments  
interbedded granules/pebbles  
granules/pebbles

% Heavy Minerals

0.42

Indurated patches



Aberfoyle Resources Limited  
EXPLORATION DIVISION

SOUTH AUSTRALIA  
KAROONDA - PARRAKIE  
CROSS SECTION 360000E  
SHEET 'B'

| REVISIONS |      |       |      |
|-----------|------|-------|------|
| Init.     | Date | Init. | Date |
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|           |      |       |      |
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Location Code : 154/10, 14

Scale : H 1 5000  
V 1 250

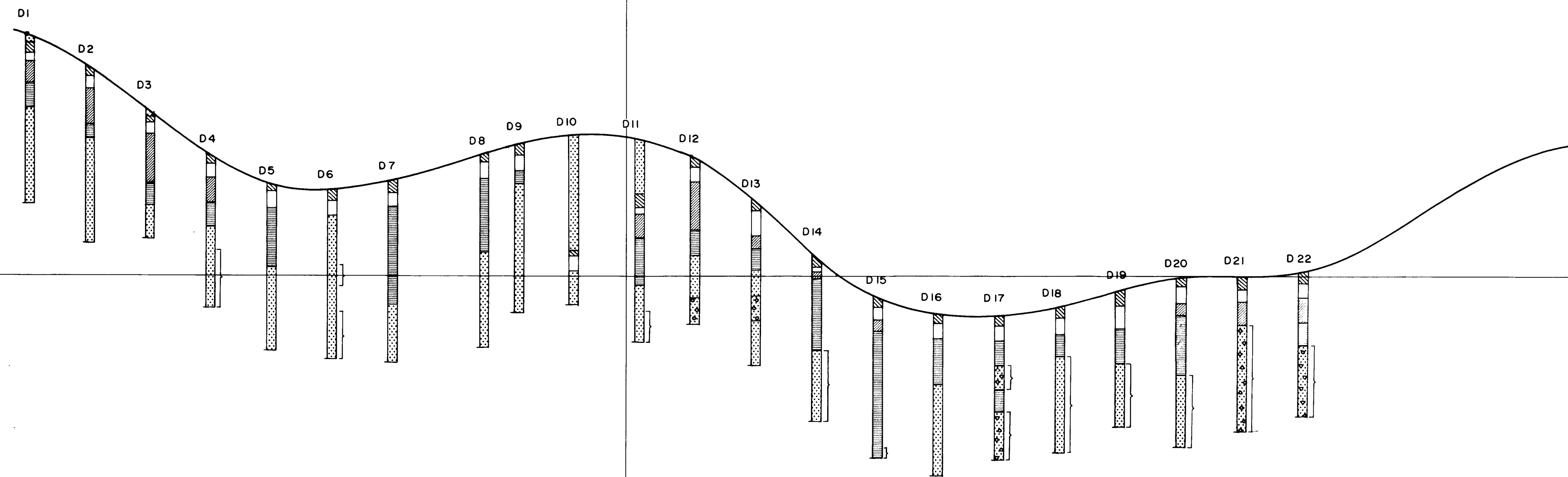
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Traced : JB  
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Plate No : K9

6919-4.



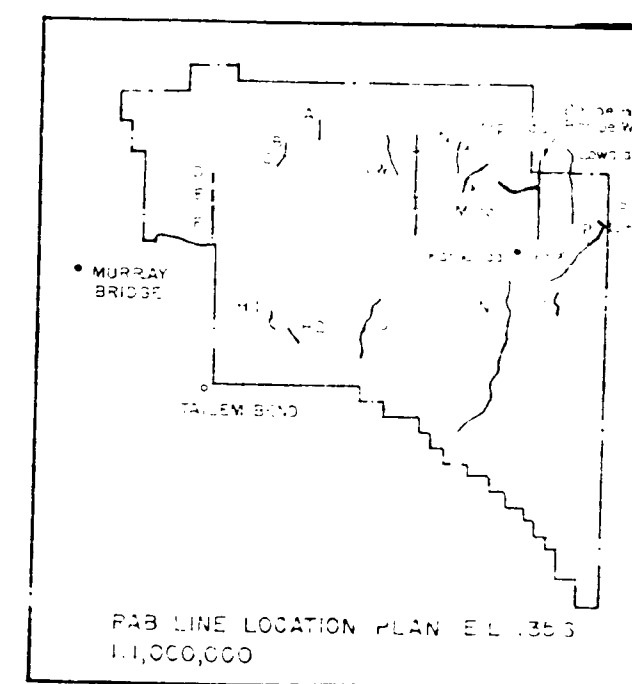
LINE 'D' looking west



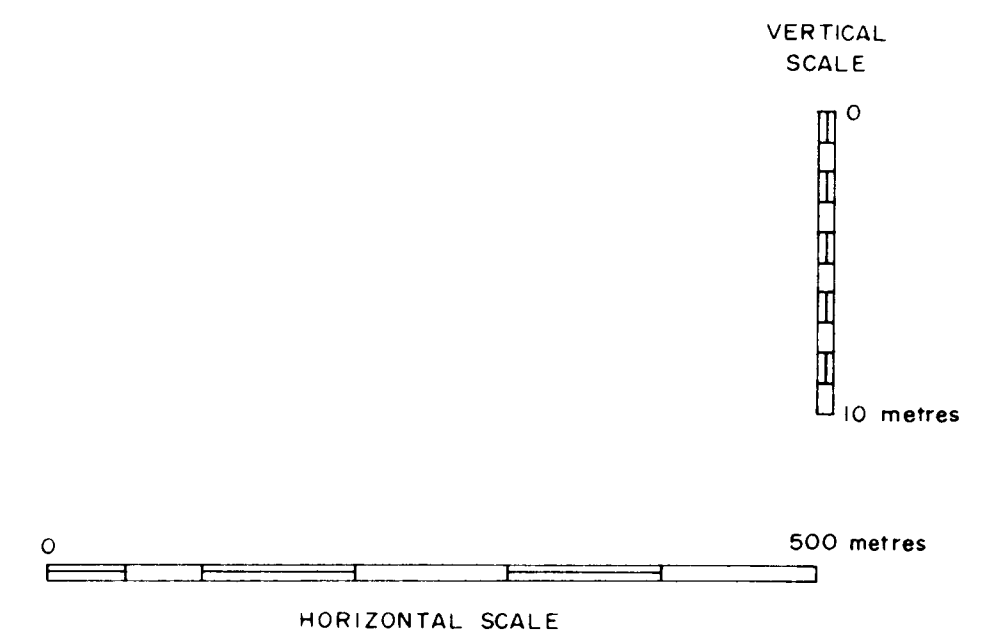
61 26000 m N

60 m ASL

- calcrete
  - white kaolinitic calcareous clay
  - red-orange brown firm silty clay
  - red-orange brown f.g. sandy clay to clayey sand
  - mostly orange-red brown f.g., clean quartz sand, occasional m. - v.c.g. and gritty quartz sand. Generally ubiquitous white mica, occasional shell fragments.
  - interbedded granules/pebbles
  - granules/pebbles
- % Heavy Minerals  
0.42
- Indurated patches



| Index to sheets |         |         |
|-----------------|---------|---------|
| Sheet A         | Sheet B | Sheet C |



|                             |               |                   |                |
|-----------------------------|---------------|-------------------|----------------|
| Aberfoyle Resources Limited |               |                   |                |
| EXPLORATION DIVISION        |               |                   |                |
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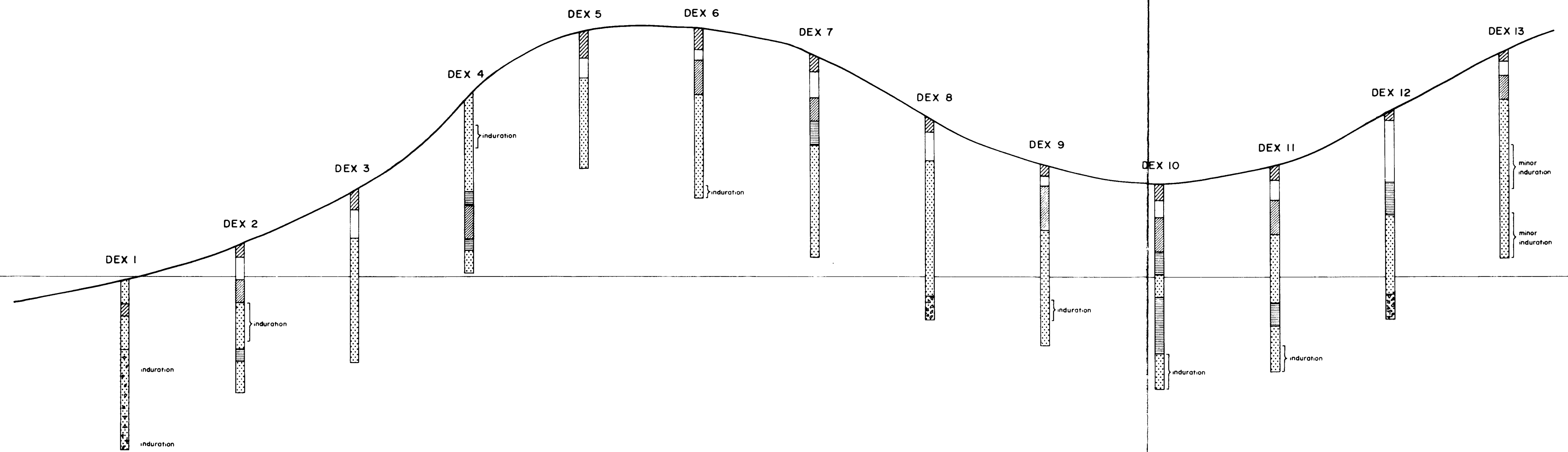
6919-5



6126 000 m N

60 m ASL

LINE 'D EX' Looking West

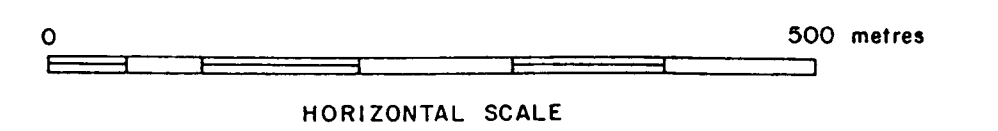
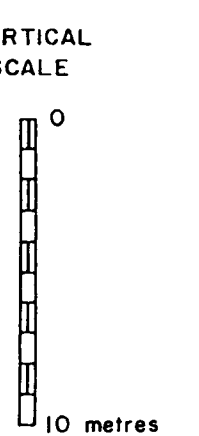
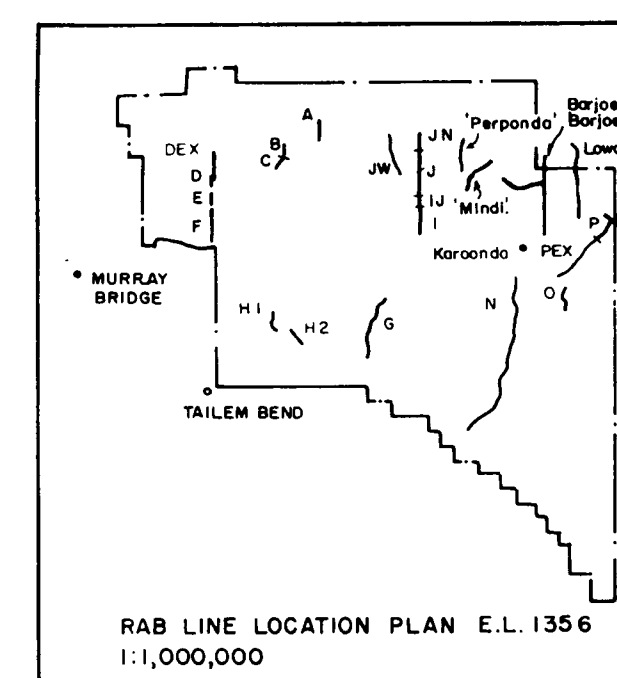


- calcrete
- white kaolinitic calcareous clay
- red-orange brown firm silty clay
- red-orange brown f.g. sandy clay to clayey sand
- mostly orange-red brown f.g., clean quartz sand, occasional m. - v.c.g. and gritty quartz sand. Generally ubiquitous white mica, occasional shell fragments.
- interbedded granules/pebbles
- granules/pebbles

% Heavy Minerals

0.42

Indurated patches



| Aberfoyle Resources Limited |  |  |                   |  |  |
|-----------------------------|--|--|-------------------|--|--|
| EXPLORATION DIVISION        |  |  |                   |  |  |
| SOUTH AUSTRALIA             |  |  | Compiled : MGT    |  |  |
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| CROSS SECTION 360000E       |  |  | Traced :          |  |  |
| Location Code : L54/O,14    |  |  | Checked : MGT     |  |  |
| Scale : H 1:5000<br>V 1:250 |  |  | Date : July, 1987 |  |  |
|                             |  |  | Plate No : K10    |  |  |

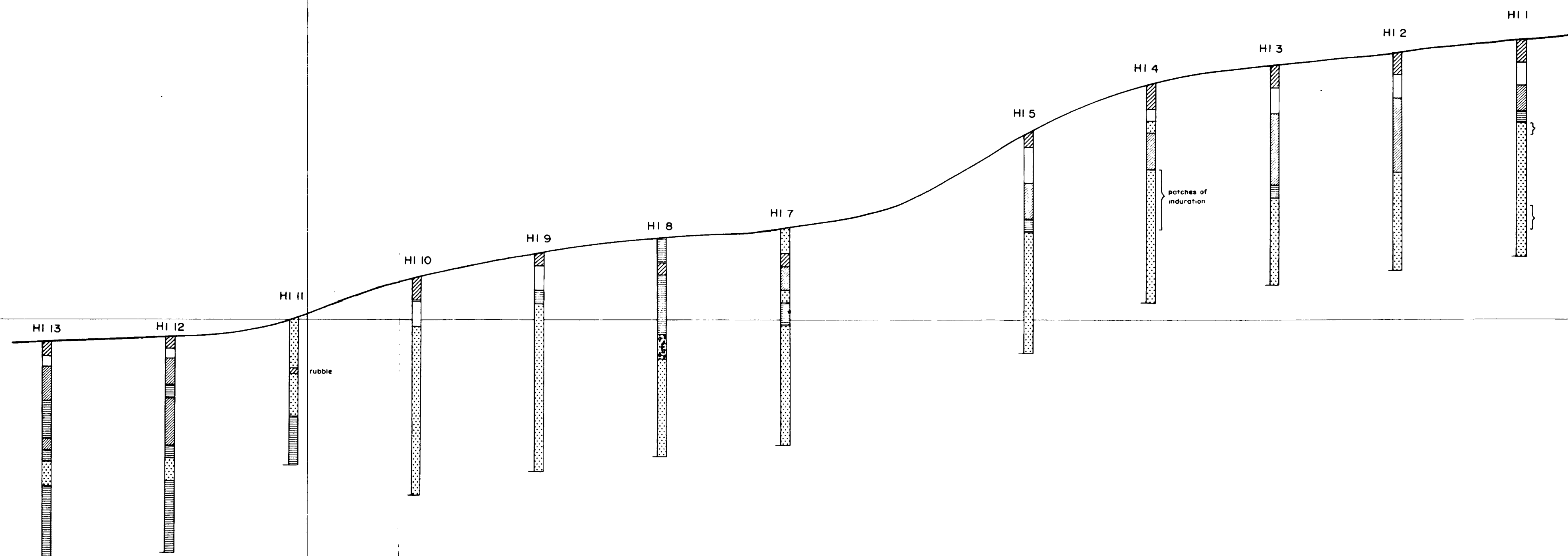
6919-6



606 000 m N

LINE 'HI' Looking West

60 m ASL



calcrete

white kaolinitic calcareous clay

red-orange brown firm silty clay

red-orange brown f.g. sandy clay to clayey sand

mostly orange-red brown f.g., clean quartz sand, occasional m. - v.c.g. and gritty quartz sand. Generally ubiquitous white mica, occasional shell fragments

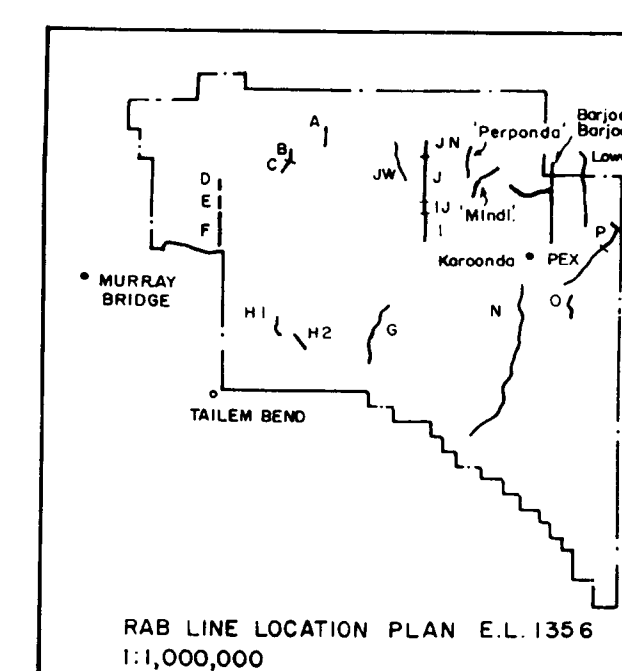
interbedded granules/pebbles

granules/pebbles

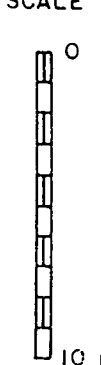
Heavy Minerals

0.42

Indurated patches



VERTICAL SCALE



0 500 metres

HORIZONTAL SCALE

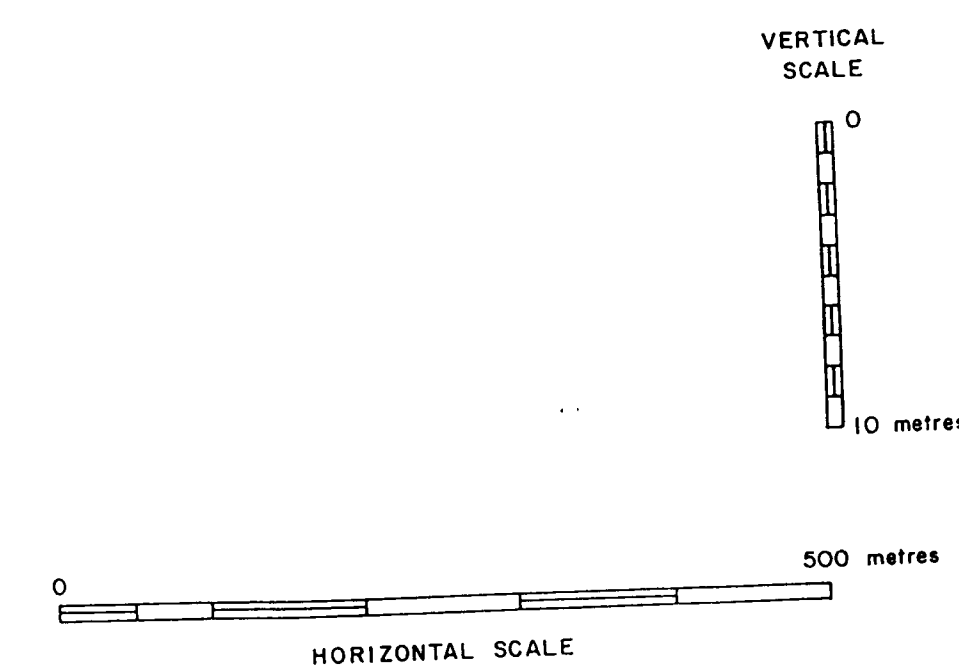
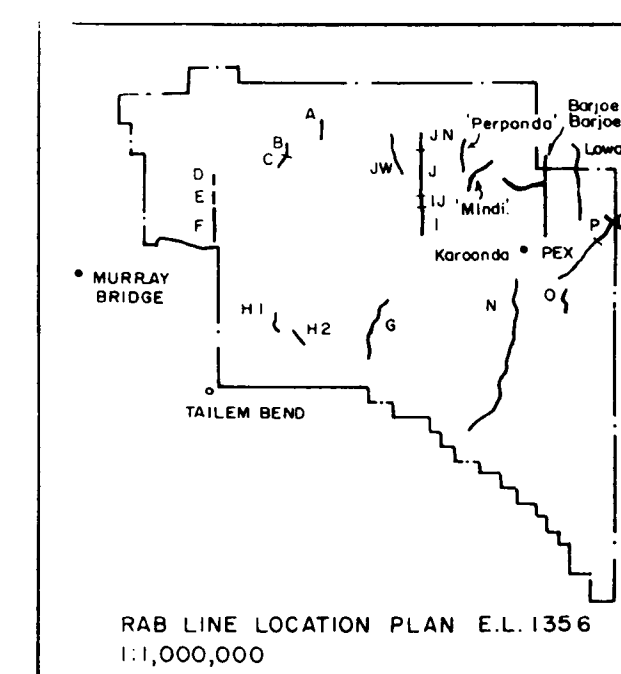
| REVISIONS            |      |      |      | Aberfoyle Resources Limited |  |  |  |
|----------------------|------|------|------|-----------------------------|--|--|--|
| EXPLORATION DIVISION |      |      |      | SOUTH AUSTRALIA             |  |  |  |
| Rev.                 | Date | Rev. | Date | KAROONDA - PARRAKIE         |  |  |  |
|                      |      |      |      | CROSS SECTION 368000E       |  |  |  |
|                      |      |      |      | Location Code : 154/O, 14   |  |  |  |
|                      |      |      |      | Scale : H 1:5000            |  |  |  |
|                      |      |      |      | V 1:250                     |  |  |  |
|                      |      |      |      | Date : July, 1987           |  |  |  |
|                      |      |      |      | Compiled : MGT              |  |  |  |
|                      |      |      |      | Drawn : GLC                 |  |  |  |
|                      |      |      |      | Traced :                    |  |  |  |
|                      |      |      |      | Checked : MGT               |  |  |  |
|                      |      |      |      | Plate No : K13              |  |  |  |

6919-7



60 m ASL

The diagram is a geological cross-section of the H2 field. It shows a series of wells labeled H2 2, H2 3, H2 4, H2 5, H2 6, H2 7, H2 8, and H2 9. The wells are represented by vertical columns with different patterns indicating different geological layers. A curved line represents the horizon, which shows a 'major inflection' between H2 3 and H2 2. The wells are distributed across the field, with H2 9 being the deepest and H2 2 being the shallowest.



|                             |      |                              |                      |                       |                |
|-----------------------------|------|------------------------------|----------------------|-----------------------|----------------|
| Aberfoyle Resources Limited |      |                              |                      |                       |                |
| EXPLORATION DIVISION        |      |                              |                      |                       |                |
| REVISIONS                   |      |                              | SOUTH AUSTRALIA      |                       | Compiled : MGT |
| Init                        | Date | Init                         | Date                 | KAROONDA - PARRAKIE   | Drawn : GLC    |
|                             |      |                              |                      | CROSS SECTION 371000E | Traced :       |
|                             |      |                              |                      |                       | Checked : MGT  |
|                             |      |                              |                      |                       | Plate No : K14 |
| Location Code : I54/I0,10   |      | Scale : H = 5000<br>V = 2500 | Date : January, 1987 |                       |                |

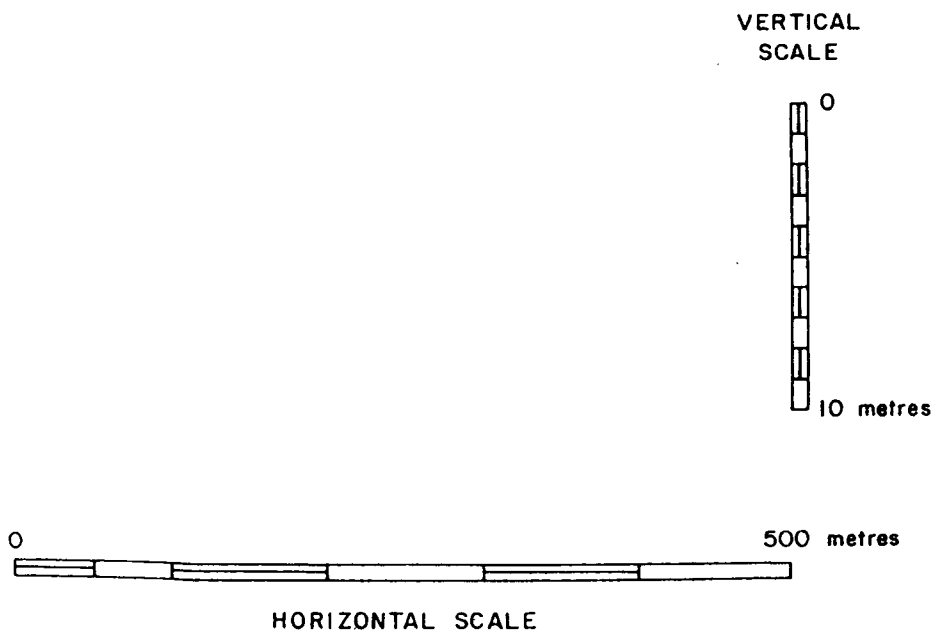
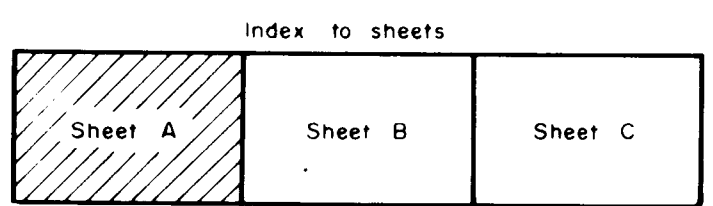
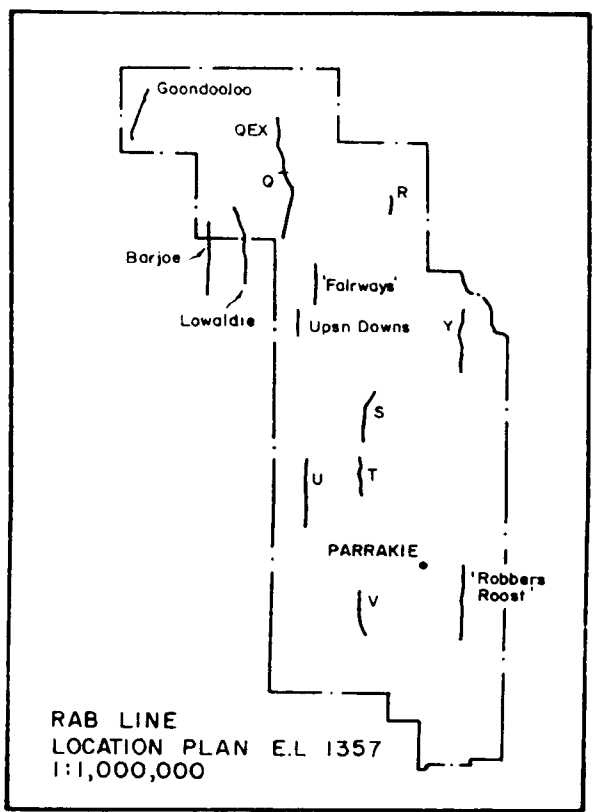
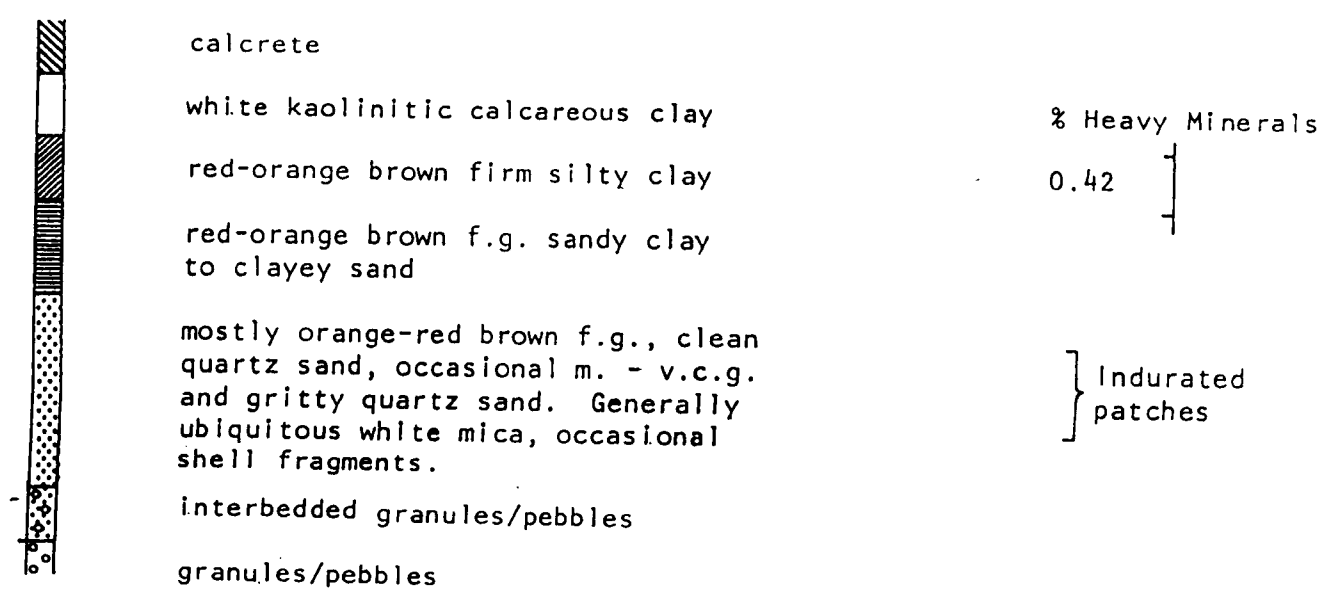
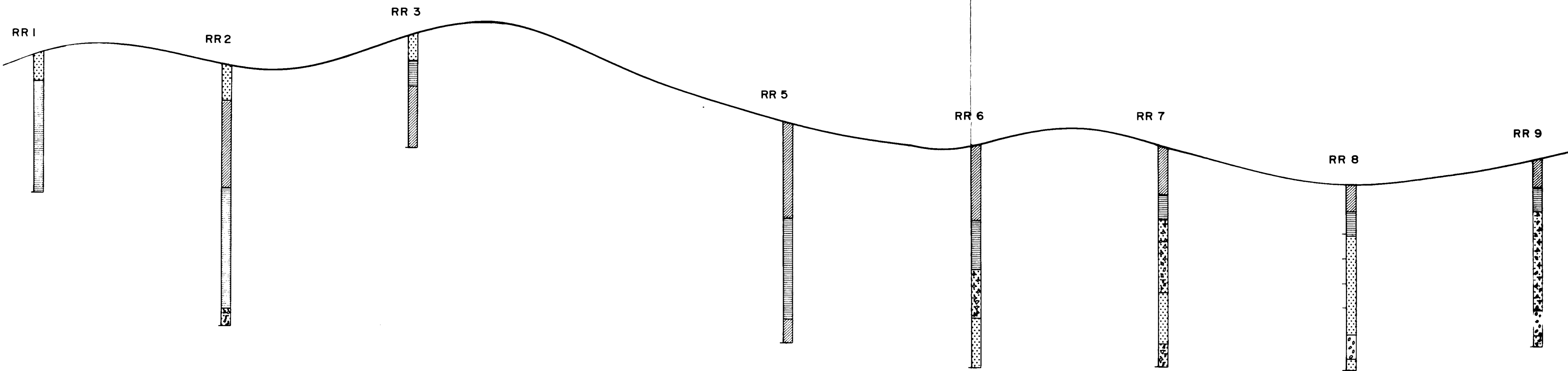
6919-8



6071000 m N

60 m ASL

LINE 'RR' Looking West

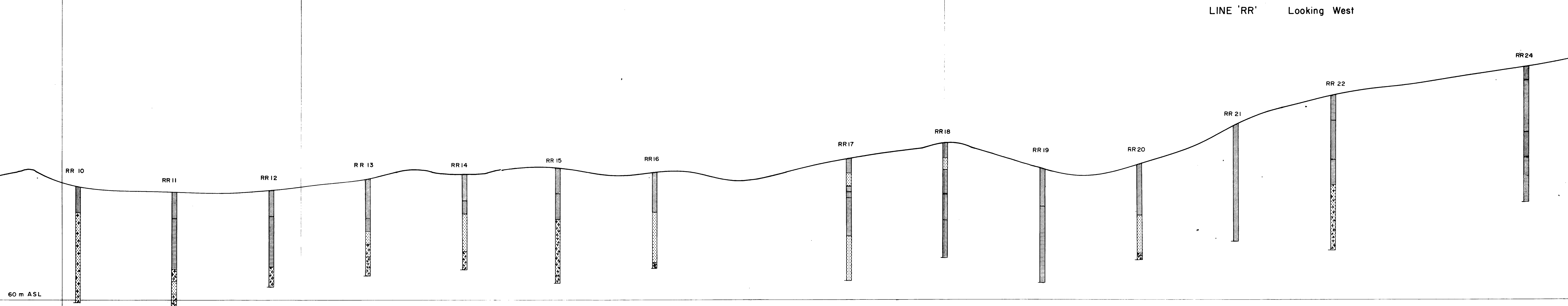


| Aberfoyle Resources Limited |      |      |      |                                                                              |  |                  |  |                  |  |
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| EXPLORATION DIVISION        |      |      |      |                                                                              |  |                  |  |                  |  |
| REVISIONS                   |      |      |      | SOUTH AUSTRALIA<br>KAROONDA - PARRAKIE<br>CROSS SECTION 437000E<br>SHEET 'A' |  |                  |  | Compiled: MGT    |  |
| Init                        | Date | Init | Date |                                                                              |  |                  |  | Drawn: GLC       |  |
|                             |      |      |      |                                                                              |  |                  |  | Traced:          |  |
|                             |      |      |      |                                                                              |  |                  |  | Checked: MGT     |  |
| Location Code I54/10,14     |      |      |      | Scale: H 1:5000<br>V 1:250                                                   |  | Date: July, 1987 |  | Plate No: PG - A |  |

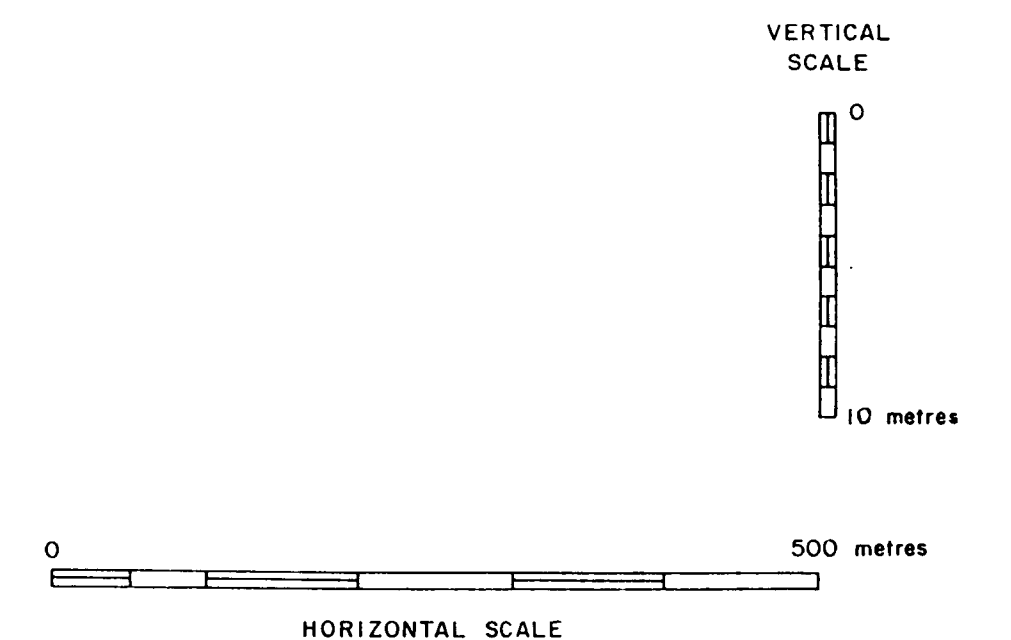
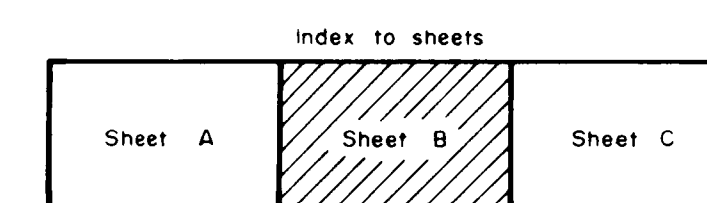
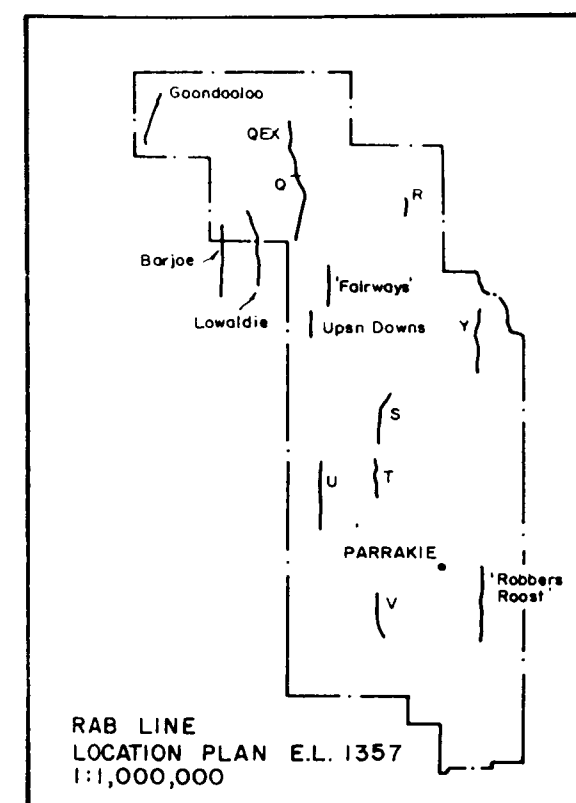
6919-9



6076 000 m N



- calcrete  
white kaolinitic calcareous clay  
red-orange brown firm silty clay  
red-orange brown f.g. sandy clay to clayey sand  
mostly orange-red brown f.g., clean quartz sand, occasional m. - v.c.g. and gritty quartz sand. Generally ubiquitous white mica, occasional shell fragments  
interbedded granules/pebbles  
granules/pebbles
- Heavy Minerals  
0.42  
Indurated patches



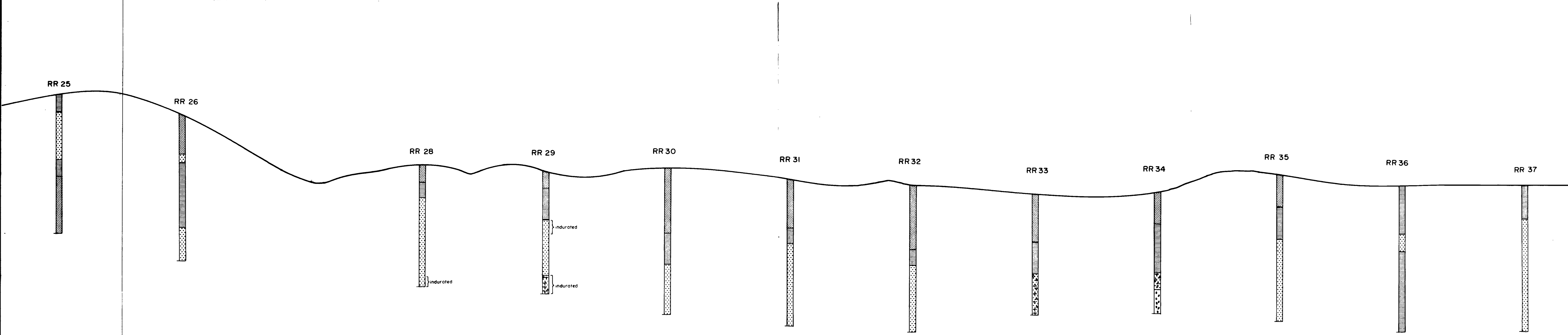
| Aberfoyle Resources Limited |  |                            |  |                  |               |                 |  |  |  |
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| EXPLORATION DIVISION        |  |                            |  |                  |               |                 |  |  |  |
| SOUTH AUSTRALIA             |  |                            |  |                  | Compiled: MGT |                 |  |  |  |
| KAROONDA - PARRAKIE         |  |                            |  |                  | Drawn: GLC    |                 |  |  |  |
| CROSS SECTION 437000E       |  |                            |  |                  | Traced: MGT   |                 |  |  |  |
| SHEET 'B'                   |  |                            |  |                  | Checked: MGT  |                 |  |  |  |
| Location Code: IS4/10,14    |  | Scale: H 1:5000<br>V 1:250 |  | Date: July, 1987 |               | Plate No: P 6-3 |  |  |  |

6919-10



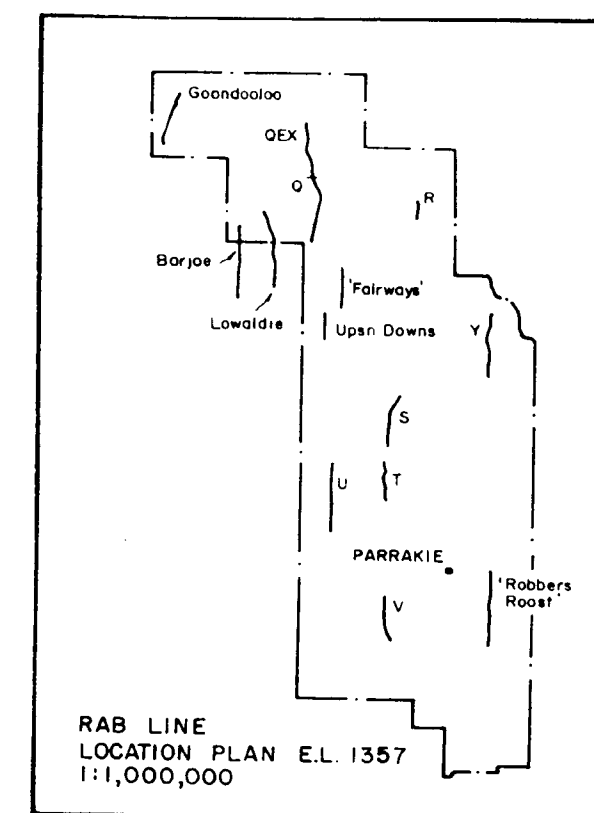
6081 000 m N

LINE 'RR' Looking West

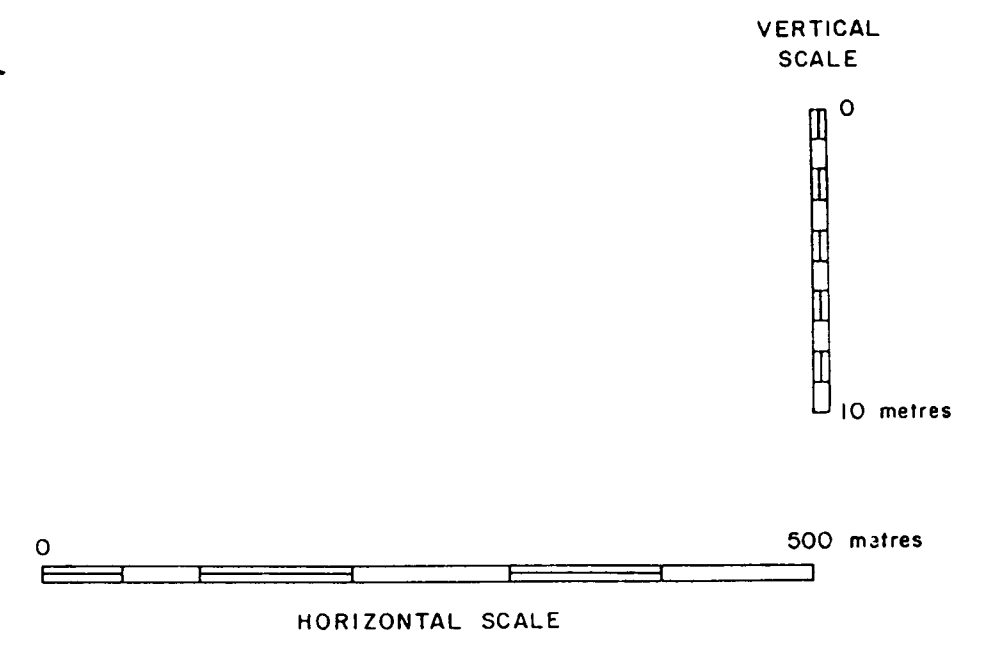


60 m ASL

- calcrete
  - white kaolinitic calcareous clay
  - red-orange brown firm silty clay
  - red-orange brown f.g. sandy clay to clayey sand
  - mostly orange-red brown f.g., clean quartz sand, occasional m. - v.c.g. and gritty quartz sand. Generally ubiquitous white mica, occasional shell fragments.
  - interbedded granules/pebbles
  - granules/pebbles
- 0.42 % Heavy Minerals
- Indurated patches



| Index to sheets |  |         |  |         |  |
|-----------------|--|---------|--|---------|--|
| Sheet A         |  | Sheet B |  | Sheet C |  |



|                             |  |                            |  |                  |  |
|-----------------------------|--|----------------------------|--|------------------|--|
| Aberfoyle Resources Limited |  |                            |  |                  |  |
| EXPLORATION DIVISION        |  |                            |  |                  |  |
| SOUTH AUSTRALIA             |  |                            |  |                  |  |
| KAROONDA - PARRAKIE         |  |                            |  |                  |  |
| CROSS SECTION 437000E       |  |                            |  |                  |  |
| SHEET 'C'                   |  |                            |  |                  |  |
| Location Code: 154/10,14    |  | Scale: H 1:5000<br>V 1:250 |  | Date: July, 1987 |  |
| REVISIONS                   |  | Compiled: MGT              |  | Drawn: GLC       |  |
| Init. Date                  |  | Traced: MGT                |  | Checked: MGT     |  |
| Init. Date                  |  | Plate No: P6-C             |  |                  |  |

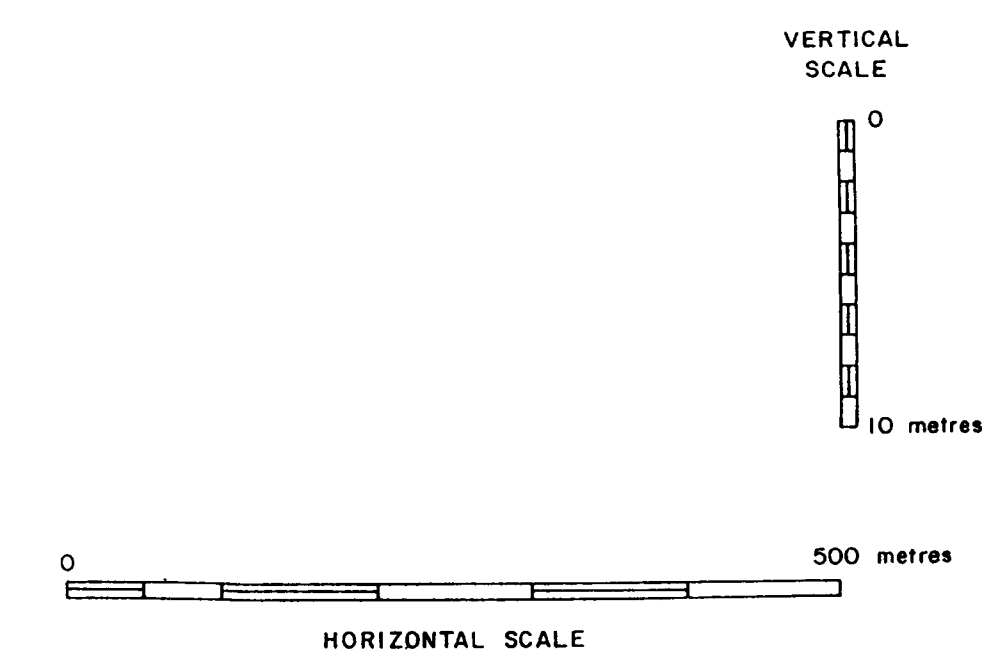
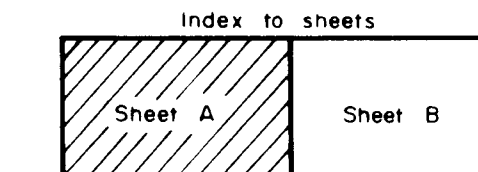
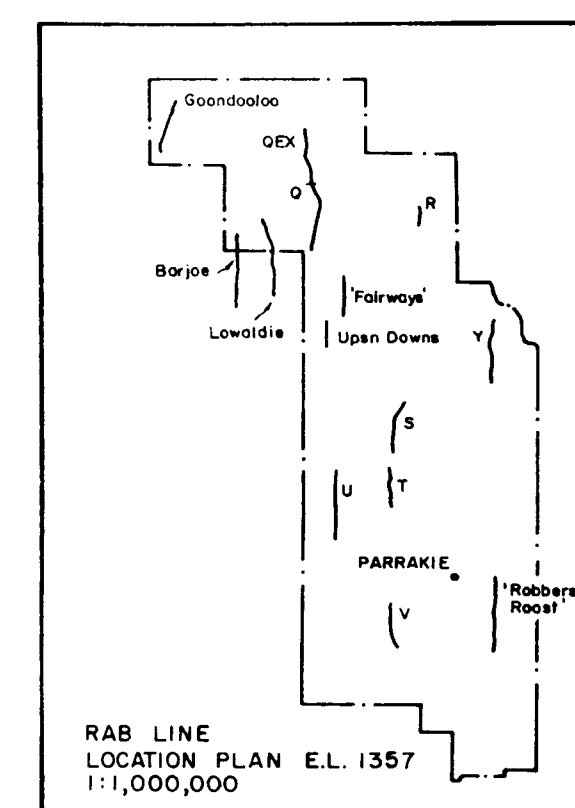
6919-11



60 m ASL

A geological cross-section diagram showing 21 stratigraphic columns labeled T1 through T21. The columns are filled with different patterns representing various lithologies. Key features include:

- Topographic Profile:** A line above the columns representing the ground surface, which is relatively flat from T1 to T17 and then rises towards T21.
- Stratigraphic Columns:** Each column represents a borehole or well. The patterns used include:
  - Horizontal lines (sandstone)
  - Stippling (clay)
  - Diagonal lines (iron-rich lateritic patches)
  - Checkered pattern (lateritic layer)
- Lithological Labels:**
  - Lateritic layer:** Indicated in column T6.
  - Lateritic patches:** Indicated in columns T7 and T8.
  - Clay patches:** Indicated in column T8.
  - Iron rich lateritic patches:** Indicated in column T15.
- Other Labels:**
  - 7-14:** A vertical scale or depth marker on the left side.
  - 2-25:** A vertical scale or depth marker on the right side.
  - 70:** A horizontal scale or distance marker at the bottom right.



|                                                                                                                                                  |  |                  |  |                   |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------|--|-------------------|--|
| <h1 style="text-align: center;">Aberfoyle Resources Limited</h1> <h2 style="text-align: center;">EXPLORATION DIVISION</h2>                       |  |                  |  | Compiled : MGT    |  |
| <div style="text-align: center;"> <h3>SOUTH AUSTRALIA</h3> <h2>KAROONDA – PARRAKIE</h2> <h1>CROSS SECTION 423000E</h1> <h2>SHEET 'A'</h2> </div> |  |                  |  | Drawn : JB        |  |
|                                                                                                                                                  |  |                  |  | Traced :          |  |
|                                                                                                                                                  |  |                  |  | Checked : MGT     |  |
|                                                                                                                                                  |  |                  |  | Plate No : PS-A   |  |
|                                                                                                                                                  |  |                  |  | Date : July, 1987 |  |
| Location Code : I54/O14                                                                                                                          |  | Scale : H 1:5000 |  |                   |  |



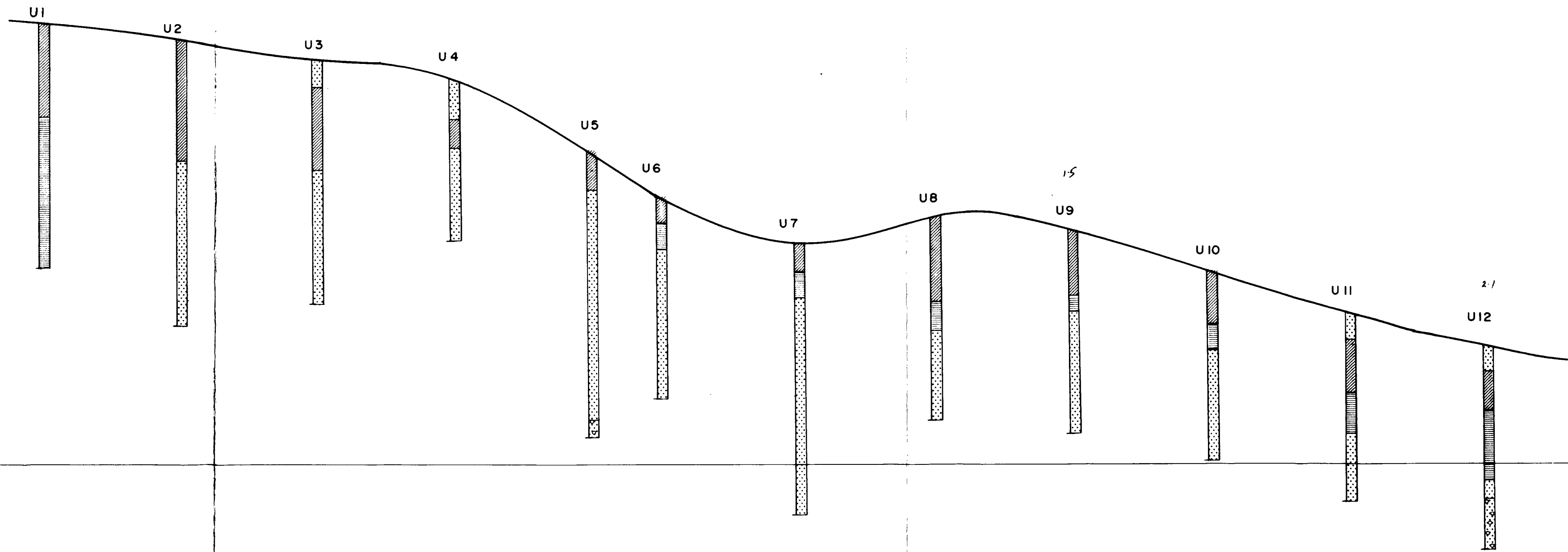




6086 000 mN

60 m ASL

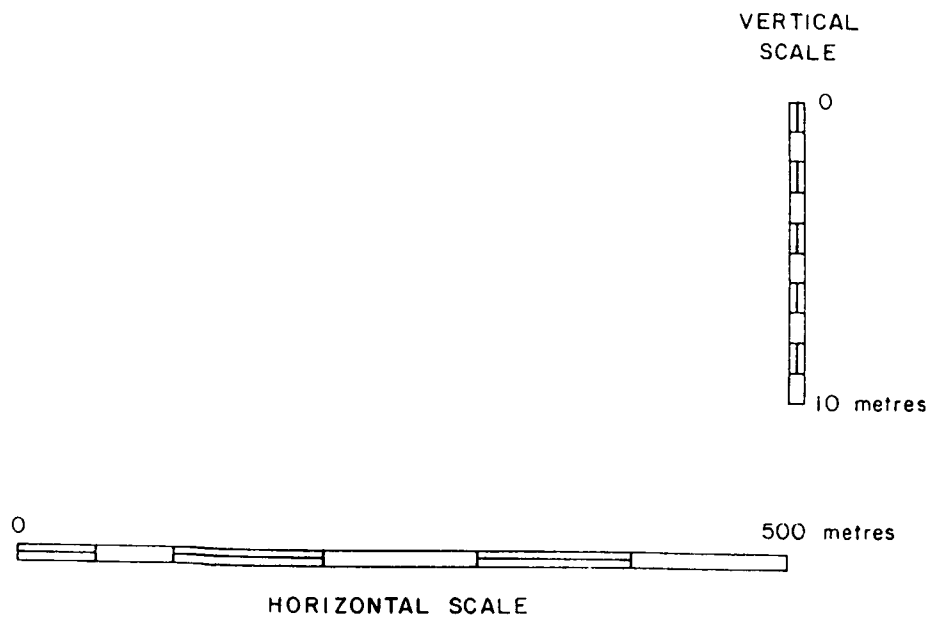
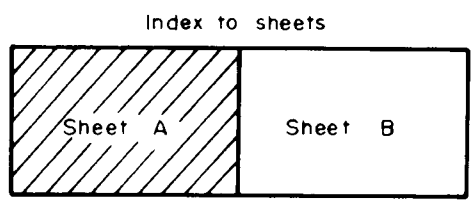
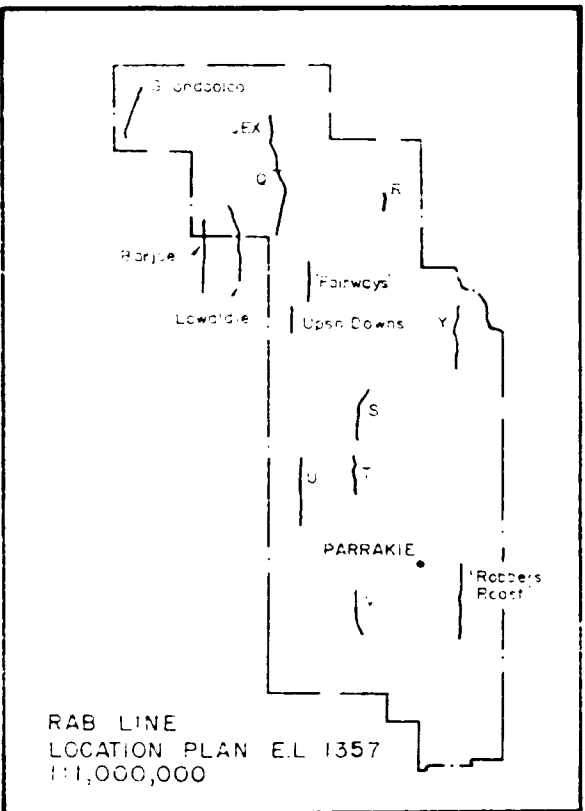
LINE 'U' looking west



calcrete  
white kaolinitic calcareous clay  
red-orange brown firm silty clay  
red-orange brown f.g. sandy clay to clayey sand  
mostly orange-red brown f.g., clean quartz sand, occasional m. - v.c.g. and gritty quartz sand. Generally ubiquitous white mica, occasional shell fragments.  
interbedded fine gravel/pebbles

Heavy Minerals  
0.42

Indurated patches



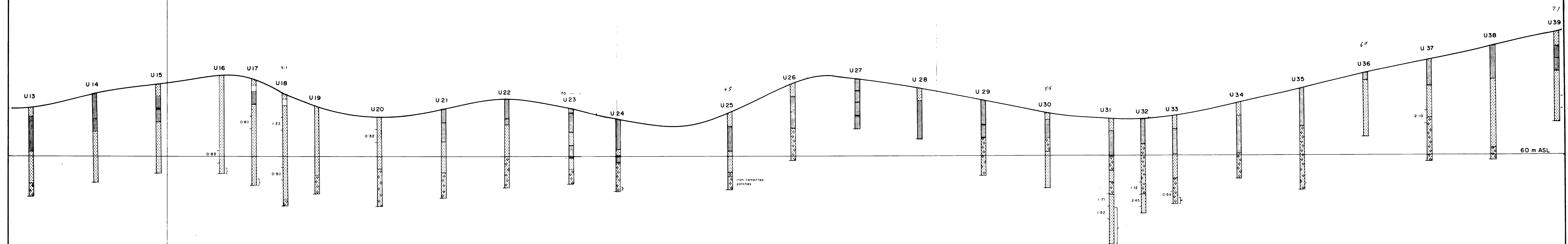
| Aberfoyle Resources Limited |  |                         |                 |                |  |
|-----------------------------|--|-------------------------|-----------------|----------------|--|
| EXPLORATION DIVISION        |  |                         |                 |                |  |
| SOUTH AUSTRALIA             |  |                         | Compiled: MGT   |                |  |
| KAROONDA - PARRAKIE         |  |                         | Drawn: JB / MGT |                |  |
| CROSS SECTION 416000E       |  |                         | Traced: JB      |                |  |
| SHEET 'A'                   |  |                         | Checked: MGT    |                |  |
| Location Code: 154/10/14    |  | Scale: H 1:5000 V 1:250 | Date: May, 1987 | Plate No: P9-A |  |

6919-14



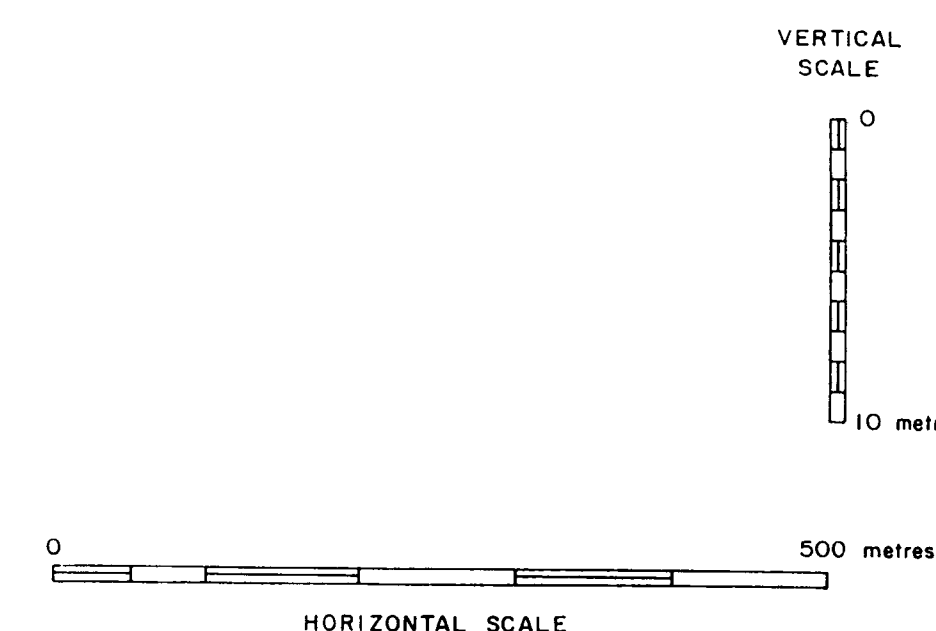
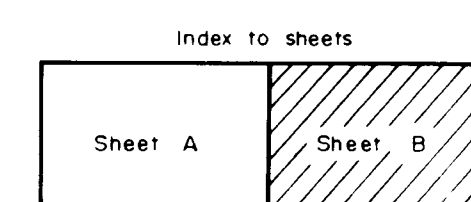
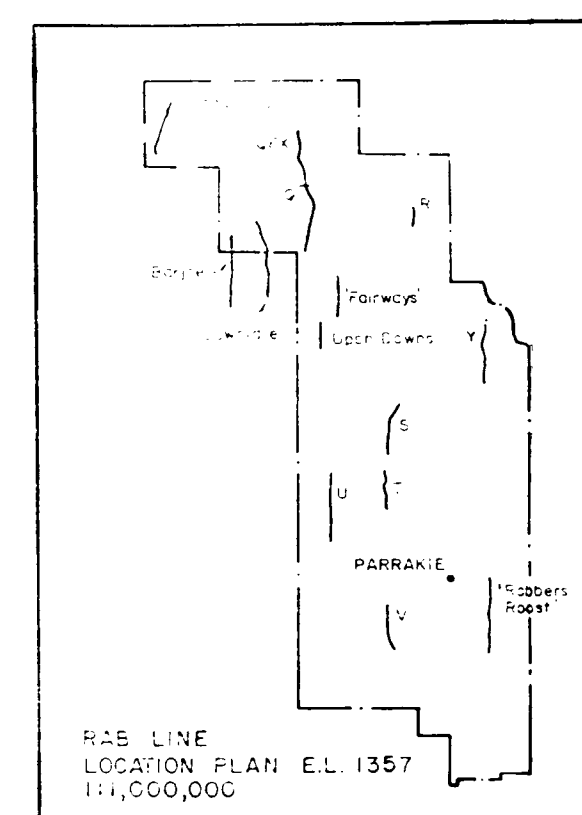
6091000 m N

LINE 'U' looking west



calcrete  
white kaolinitic calcareous clay  
red-orange brown firm silty clay  
red-orange brown f.g. sandy clay to clayey sand  
mostly orange-red brown f.g. clean quartz sand, occasional m. v.c.g. and gritty quartz sand. Generally ubiquitous white mica, occasional shell fragments.  
interbedded fine granules/pebbles

% Heavy Minerals  
0.42  
Indurated patches

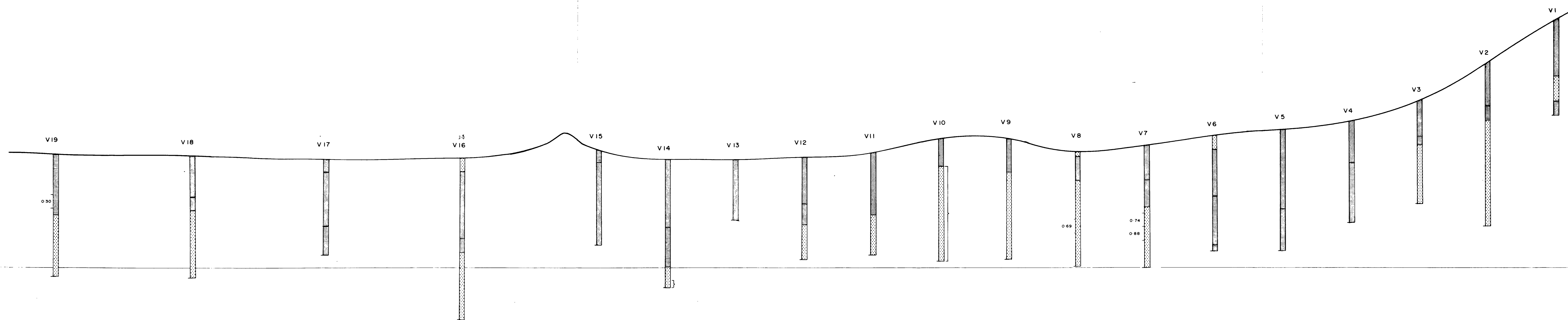


| Aberfoyle Resources Limited |  |                              |                 |  |                |
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| EXPLORATION DIVISION        |  |                              |                 |  |                |
| SOUTH AUSTRALIA             |  |                              | Compiled: MGT   |  |                |
| KAROONDA - PARRAKIE         |  |                              | Drawn: JB/MGT   |  |                |
| CROSS SECTION 416000E       |  |                              | Traced: JB      |  |                |
| SHEET 'B'                   |  |                              | Checked: MGT    |  |                |
| Location Code: 154/D/14     |  | Scale: H: 1:5000<br>V: 1:250 | Date: May, 1987 |  | Plate No: P9-B |

6919-15

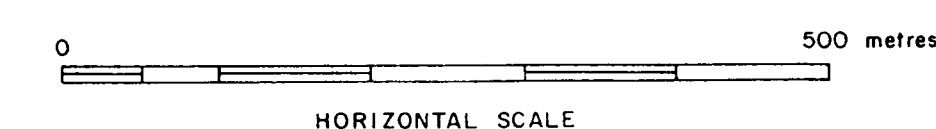
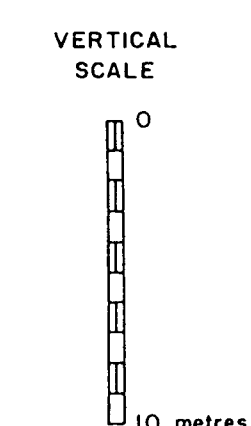
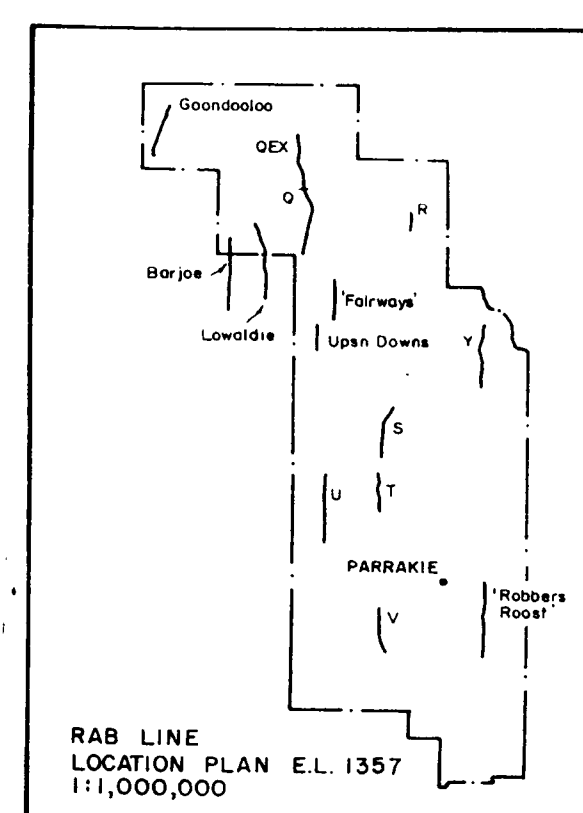


LINE 'V'      Looking West



calcrete  
white kaolinitic calcareous clay  
red-orange brown firm silty clay  
red-orange brown f.g. sandy clay  
to clayey sand  
  
mostly orange-red brown f.g., clean  
quartz sand, occasional m. - v.c.g.  
and gritty quartz sand. Generally  
ubiquitous white mica, occasional  
shell fragments  
  
Interbedded granules/pebbles  
granules/pebbles

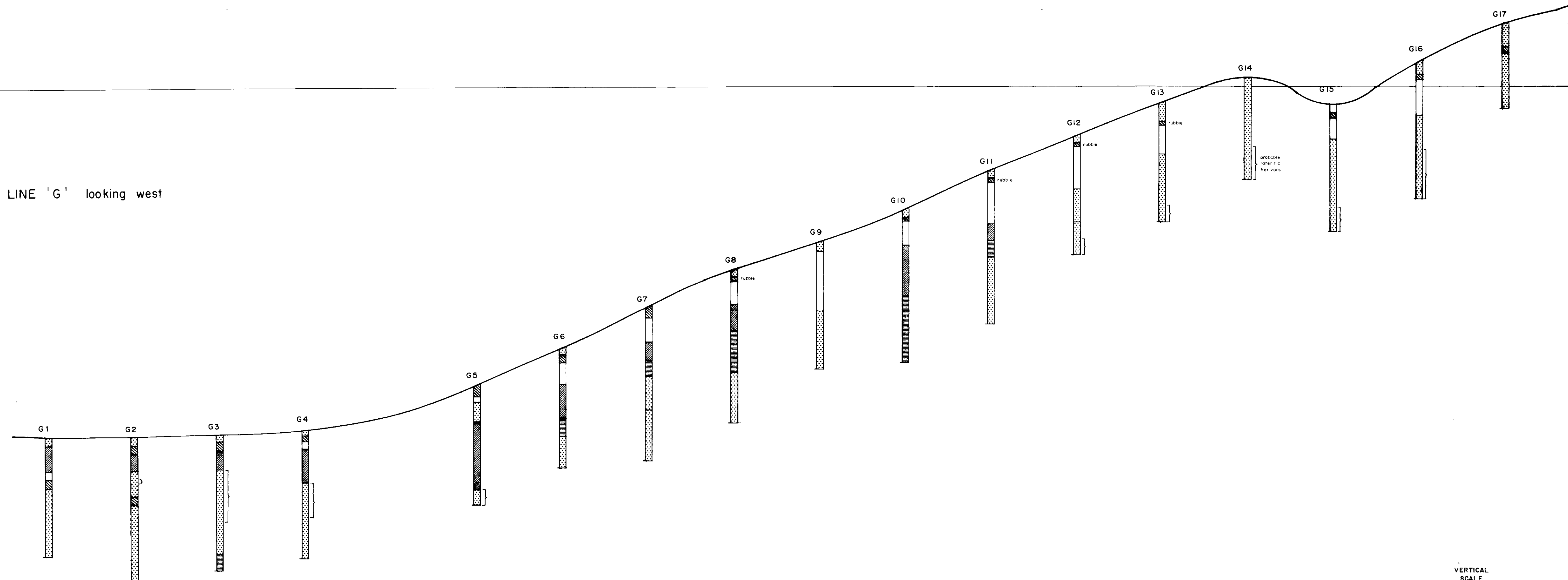
0.42 } Heavy Minerals  
Indurated patches



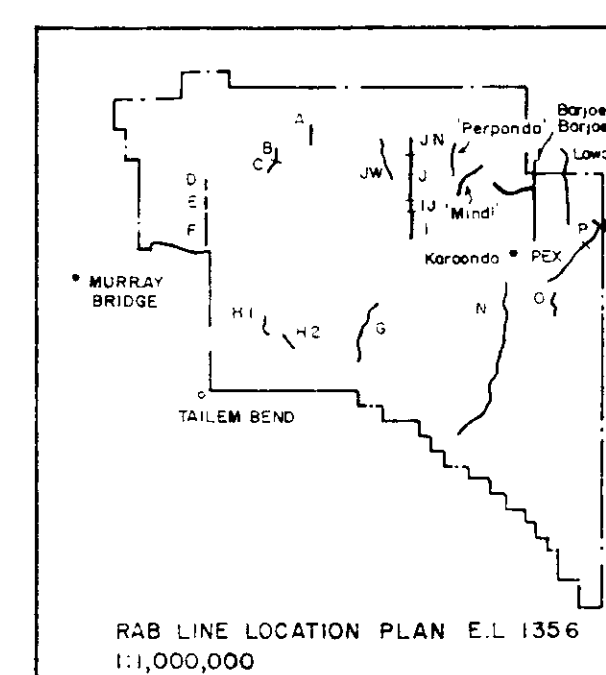
| <div style="text-align: center;"> <b>Aberfoyle Resources Limited</b><br/>         EXPLORATION DIVISION       </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |                              |      | Compiled : MGT    |      |       |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |
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| <div style="text-align: center;">         SOUTH AUSTRALIA<br/> <b>KAROONDA - PARRAKIE</b><br/> <b>CROSS SECTION 423000E</b> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |                              |      | Drawn : JB        |      |       |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |
| <div style="text-align: center;"> <b>REVISIONS</b><br/> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Init.</th> <th style="width: 10%;">Date</th> <th style="width: 10%;">Init.</th> <th style="width: 10%;">Date</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> </div> |      |                              |      | Init.             | Date | Init. | Date |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Traced : |  |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |                              |      |                   |      |       |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |                              |      |                   |      |       |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |                              |      |                   |      |       |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |
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| Location Code : IS/4/IO/14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      | Scale : H 1:5000<br>V 1:2500 |      | Date : July, 1987 |      |       |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |                              |      | Checked : MGT     |      |       |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |                              |      | Plate No : P10    |      |       |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |



LINE 'G' looking west

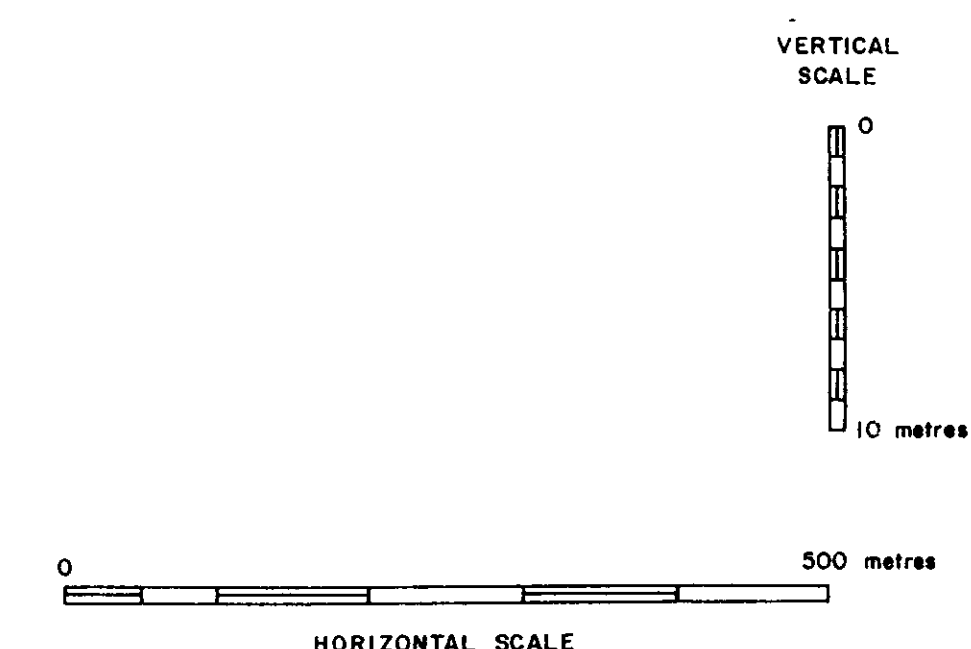


0.42 } Indurated patches



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| <h1 style="text-align: center;">Aberfoyle Resources Limited</h1> <h2 style="text-align: center;">EXPLORATION DIVISION</h2>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |                                             |                  |                                                                    |  |  |  |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                 |
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| <table border="1"> <thead> <tr> <th colspan="4">REVISONS</th> </tr> <tr> <th>Init</th> <th>Date</th> <th>Init</th> <th>Date</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> |      |                                             |                  | REVISONS                                                           |  |  |  | Init | Date | Init | Date |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <p style="text-align: center;">SOUTH AUSTRALIA</p> <p style="text-align: center;">KAROONDA - PARRAKIE</p> <p style="text-align: center;">CROSS SECTION 380000E</p> <p style="text-align: center;">SHEET 'A'</p> |
| REVISONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |                                             |                  |                                                                    |  |  |  |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                 |
| Init                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Date | Init                                        | Date             |                                                                    |  |  |  |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |                                             |                  |                                                                    |  |  |  |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |                                             |                  |                                                                    |  |  |  |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |                                             |                  |                                                                    |  |  |  |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |                                             |                  |                                                                    |  |  |  |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |                                             |                  |                                                                    |  |  |  |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |                                             |                  |                                                                    |  |  |  |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |                                             |                  |                                                                    |  |  |  |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |                                             |                  |                                                                    |  |  |  |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |                                             |                  |                                                                    |  |  |  |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |                                             |                  |                                                                    |  |  |  |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                 |
| Location Code : T54/O/14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      | Scale : $\frac{1}{5000}$<br>$\frac{1}{250}$ | Date : May, 1987 | Compiled : MGT<br>Drawn : JB / MGT<br>Traced : JB<br>Checked : MGT |  |  |  |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                 |
| Plate No. <del>14</del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |                                             |                  |                                                                    |  |  |  |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                 |



6106000 m N

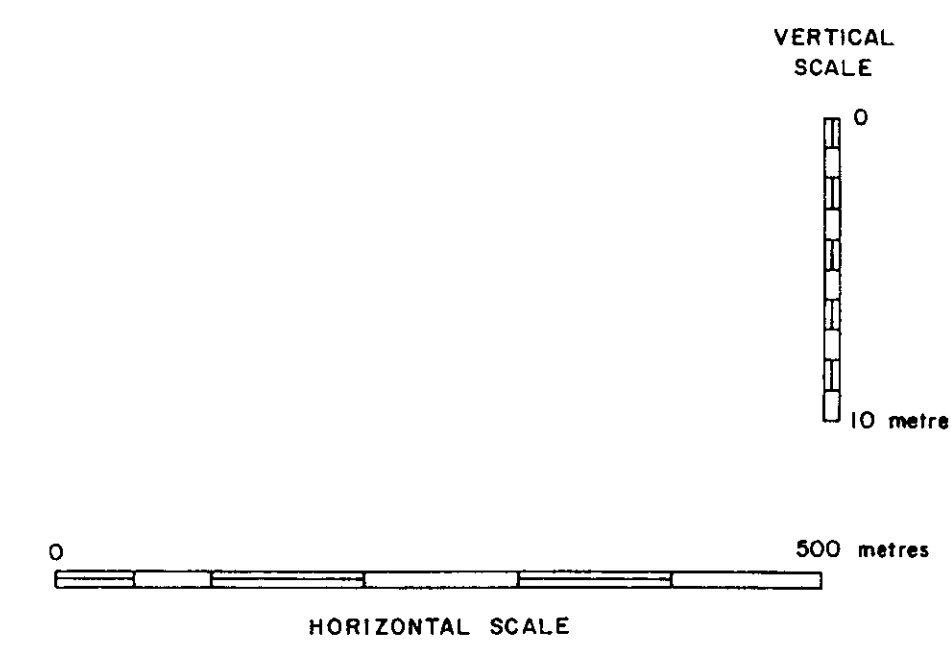
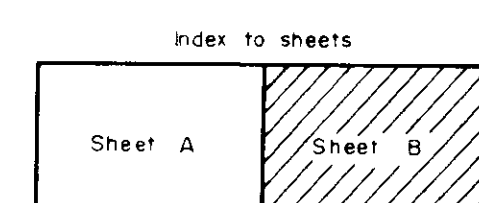
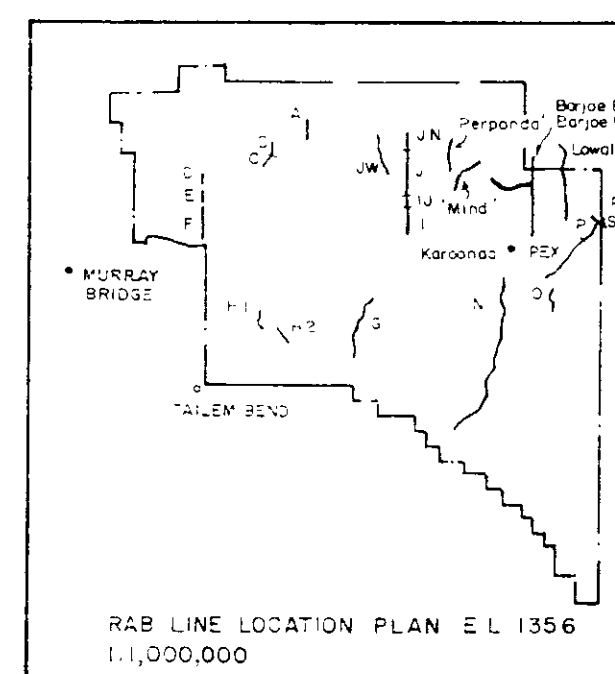
LINE 'G' looking west

60 m ASL



calcrete  
white kaolinitic calcareous clay  
red-orange brown firm silty clay  
red-orange brown f.g. sandy clay to clayey sand  
mostly orange-red brown f.g., clean quartz sand, occasional m. - v.c.g. and gritty quartz sand. Generally ubiquitous white mica, occasional shell fragments.  
interbedded granules/pebbles  
granules/pebbles

% Heavy Minerals  
0.42  
Indurated patches



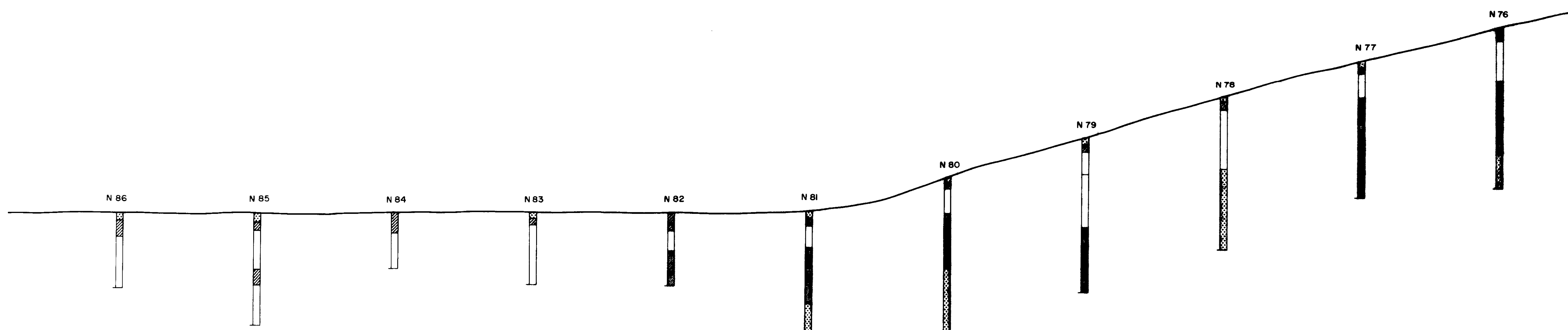
| Aberfoyle Resources Limited |  |                         |  |                 |               |                 |  |  |  |
|-----------------------------|--|-------------------------|--|-----------------|---------------|-----------------|--|--|--|
| EXPLORATION DIVISION        |  |                         |  |                 |               |                 |  |  |  |
| SOUTH AUSTRALIA             |  |                         |  |                 | Compiled MGT  |                 |  |  |  |
| KAROONDA - PARRAKIE         |  |                         |  |                 | Drawn: MGT/JB |                 |  |  |  |
| CROSS SECTION 380000E       |  |                         |  |                 | Traced: JB    |                 |  |  |  |
| SHEET 'B'                   |  |                         |  |                 | Checked: MGT  |                 |  |  |  |
| Location Code: 154/10,14    |  | Scale: H 1:5000 V 1:250 |  | Date: May, 1987 |               | Plate No: K15-B |  |  |  |



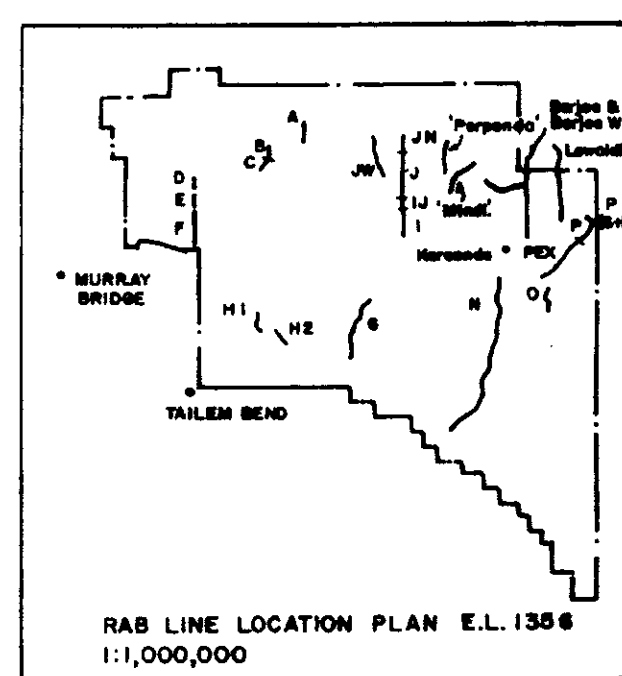
6091 000 m N

60 m ASL

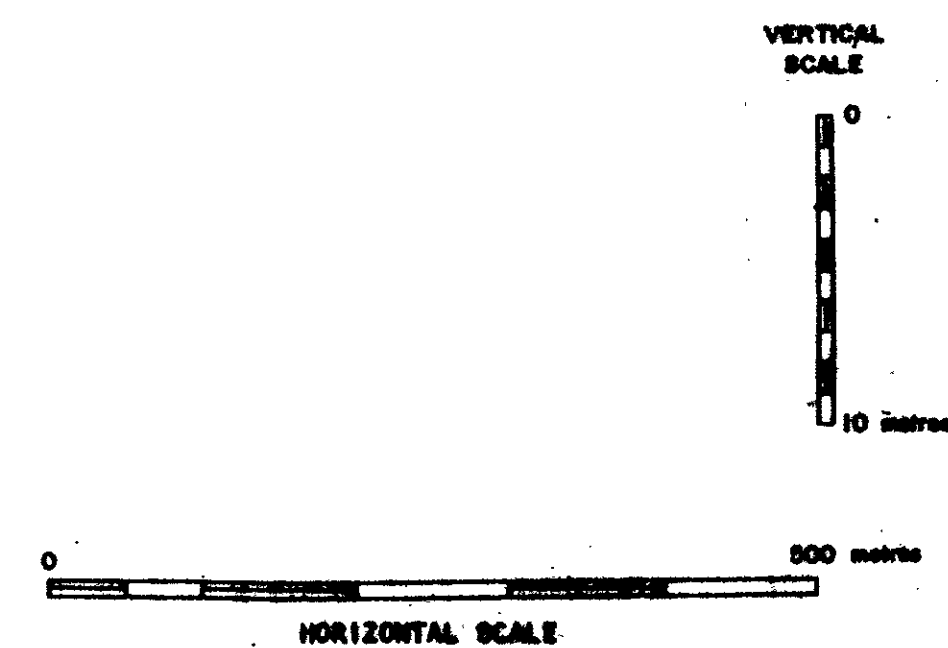
LINE 'N' Looking West



- calcrete
  - white kaolinitic calcareous clay
  - red-orange brown firm silty clay
  - red-orange brown f.g. sandy clay to clayey sand
  - mostly orange-red brown f.g., clean quartz sand, occasional m. - v.c.g. and gritty quartz sand. Generally ubiquitous white mica, occasional shell fragments.
  - interbedded granules/pebbles
  - granules/pebbles
- % Heavy Minerals  
0.42
- Indurated patches



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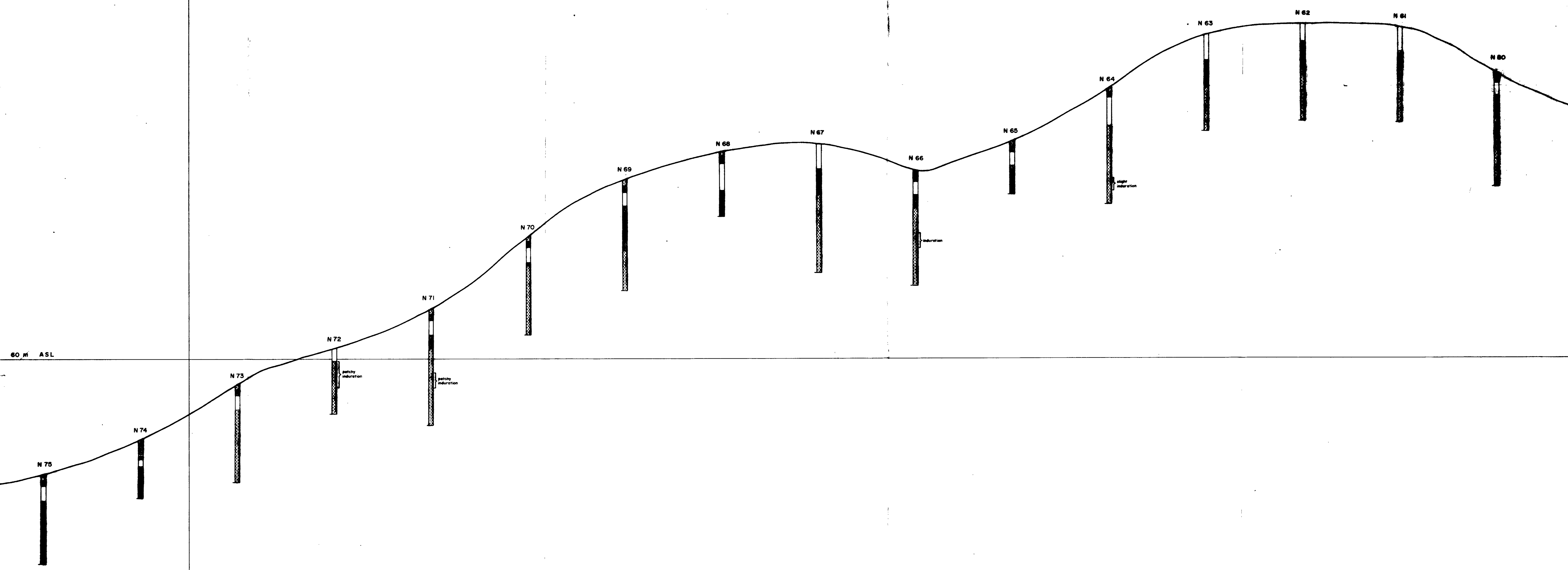


| Aberfoyle Resources Limited |  |  |  |  |                            |  |                  |  |                |
|-----------------------------|--|--|--|--|----------------------------|--|------------------|--|----------------|
| EXPLORATION DIVISION        |  |  |  |  |                            |  |                  |  |                |
| SOUTH AUSTRALIA             |  |  |  |  | Compiled: MGT              |  |                  |  |                |
| KAROONDA - PARRAKIE         |  |  |  |  | Drawn: GLC                 |  |                  |  |                |
| CROSS SECTION 398000E       |  |  |  |  | Traced:                    |  |                  |  |                |
| SHEET 'N'                   |  |  |  |  | Checked: MGT               |  |                  |  |                |
| Location Code: I 64/10,14   |  |  |  |  | Scale: H 1:5000<br>V 1:250 |  | Date: July, 1987 |  | Plate No: M7-A |



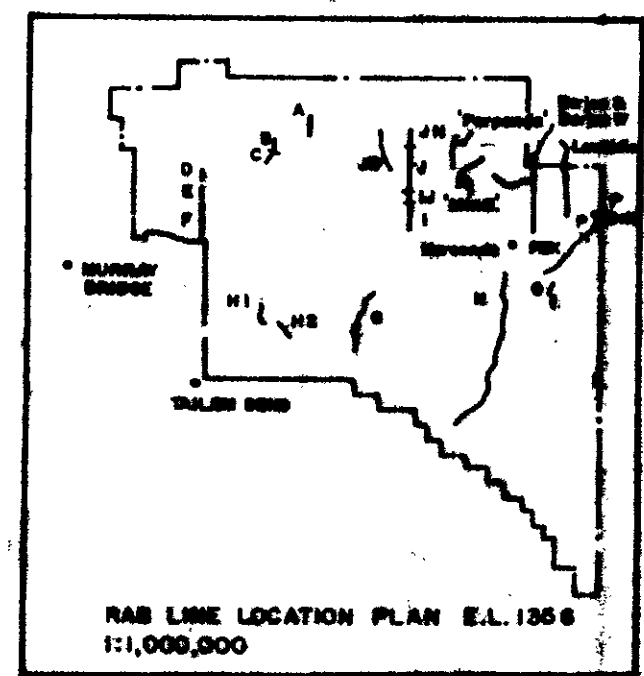
6096 000 m N

LINE 'N' Looking West



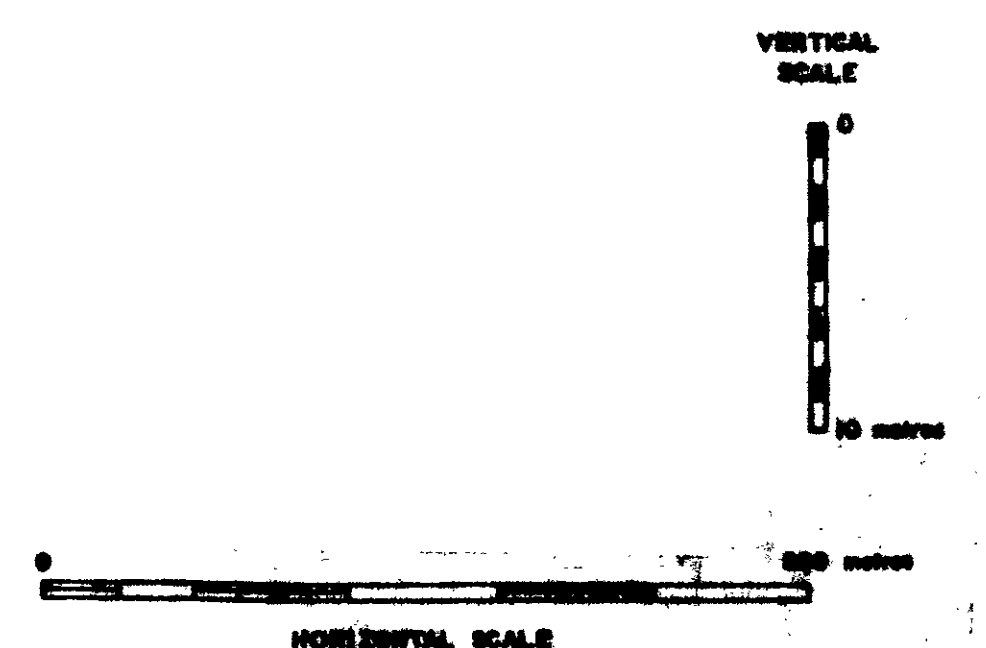
60 m ASL

- calcrete
  - white kaolinitic calcareous clay
  - red-orange brown firm silty clay
  - red-orange brown f.g. sandy clay to clayey sand
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  - interbedded granules/pebbles
  - granules/pebbles
- % Heavy Minerals  
0.42
- Indurated patches



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|                             |                         |                  |                  |
|-----------------------------|-------------------------|------------------|------------------|
| Aberfoyle Resources Limited |                         |                  |                  |
| EXPLORATION DIVISION        |                         |                  |                  |
| SOUTH AUSTRALIA             |                         | Compiled: NGT    |                  |
| KAROONDA - PARRAKIE         |                         | Drawn: GLC       |                  |
| CROSS SECTION 398000E       |                         | Traced:          |                  |
| SHEET 'N'                   |                         | Checked: NGT     |                  |
| Location Code: 124/10,14    | Scale: H 1:5000 V 1:250 | Date: July, 1987 | Plate No: K124-B |

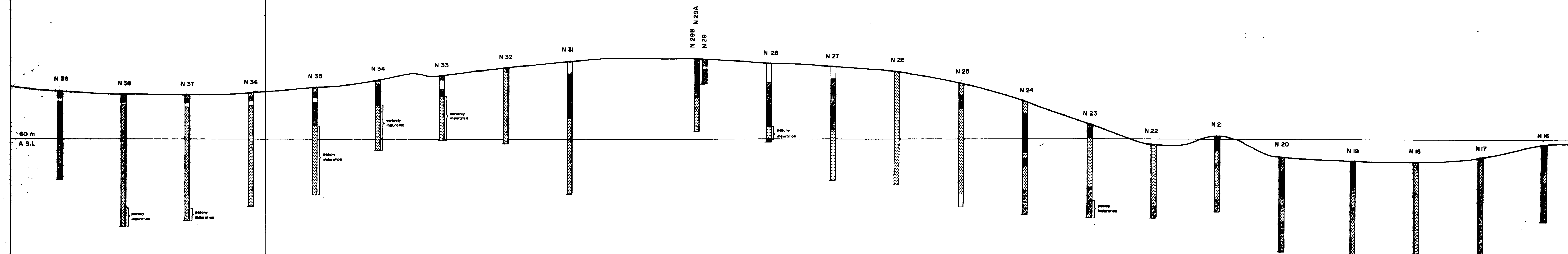






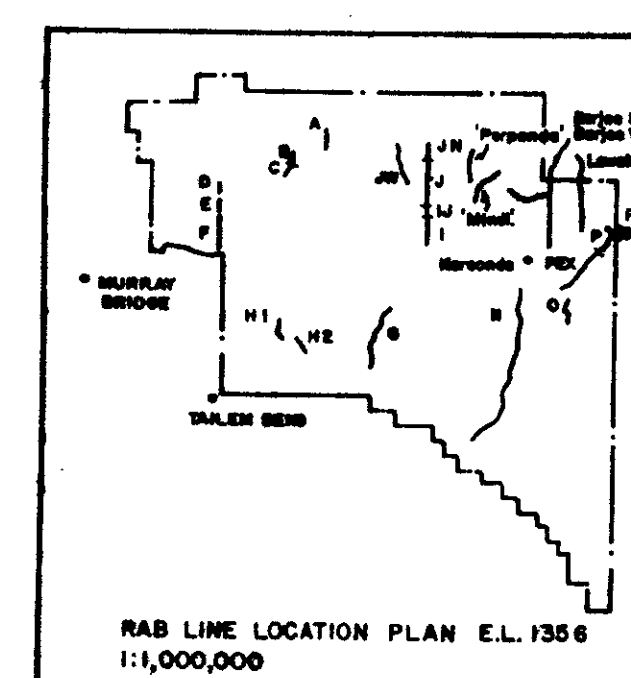
6106 000 m N

LINE 'N' Looking West

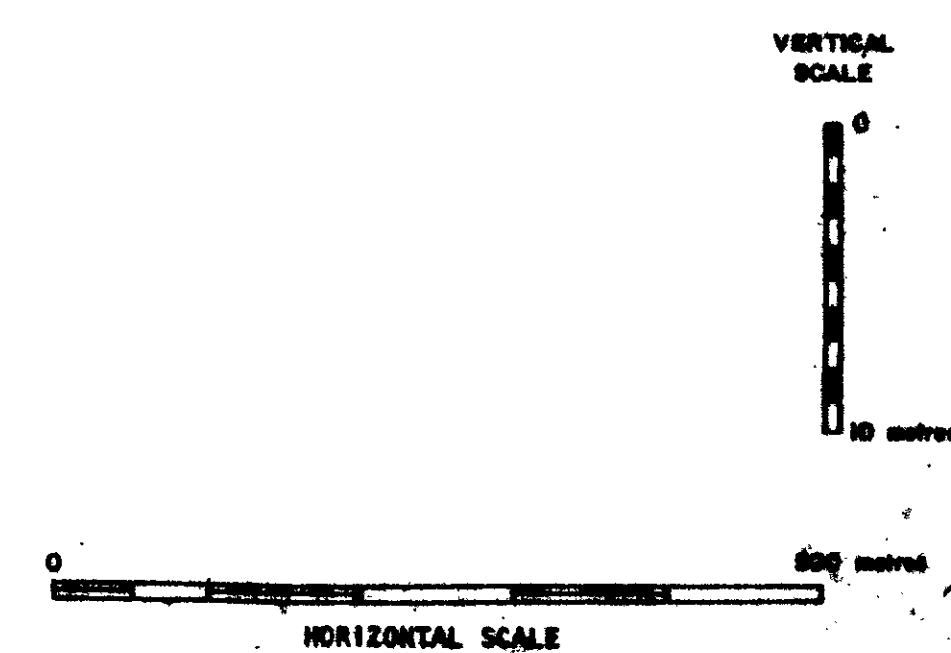


calcrete  
white kaolinitic calcareous clay  
red-orange brown firm silty clay  
red-orange brown f.g. sandy clay to clayey sand  
mostly orange-red brown f.g. clean quartz sand, occasional m. - v.c.g. and gritty quartz sand. Generally ubiquitous white mica, occasional shell fragments.  
interbedded granules/pebbles  
granules/pebbles

Heavy Minerals  
0.42  
Indurated patches



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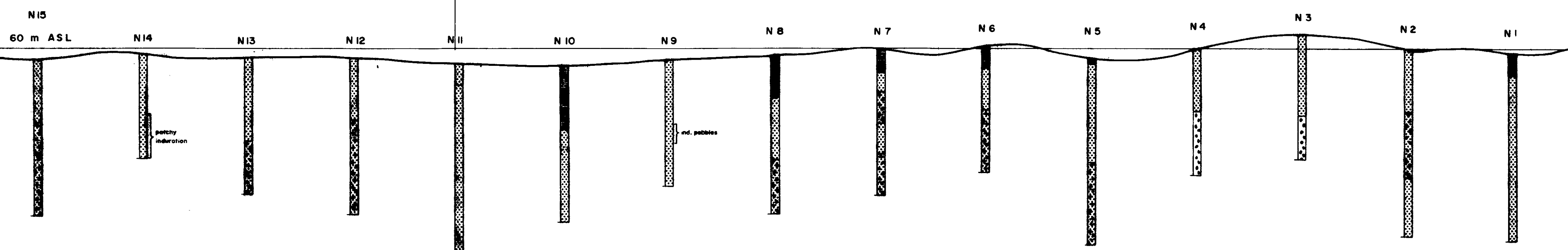


|                                                                                            |  |                  |  |                                                                            |
|--------------------------------------------------------------------------------------------|--|------------------|--|----------------------------------------------------------------------------|
| <b>Aberfoyle Resources Limited</b><br>EXPLORATION DIVISION                                 |  |                  |  | Compiled: MGT<br>Drawn: GLC<br>Traced:<br>Checked: MGT<br>Photo No: K17-22 |
| SOUTH AUSTRALIA<br><b>KAROONDA - PARRAKIE</b><br><b>CROSS SECTION 398000E</b><br>SHEET 'D' |  |                  |  |                                                                            |
| Location Code: T54/10,14<br>Scale: H 1:5000<br>V 1:250                                     |  | Date: July, 1987 |  |                                                                            |



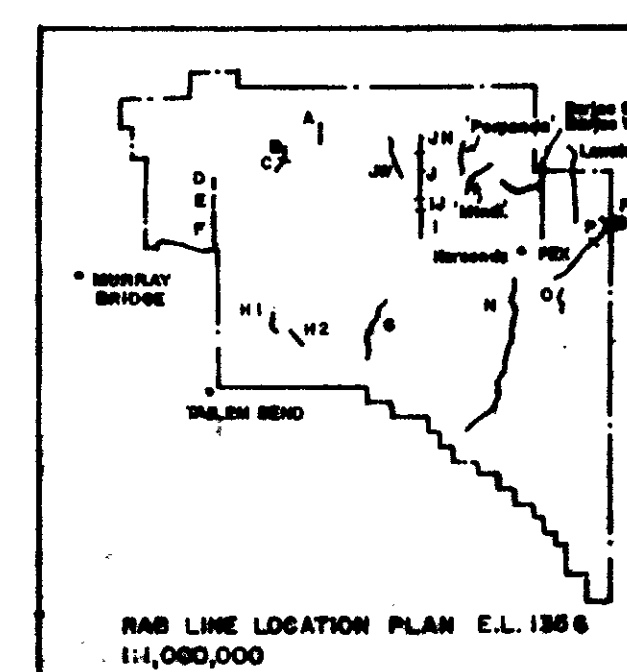
6111 000 m N

LINE 'N' Looking West

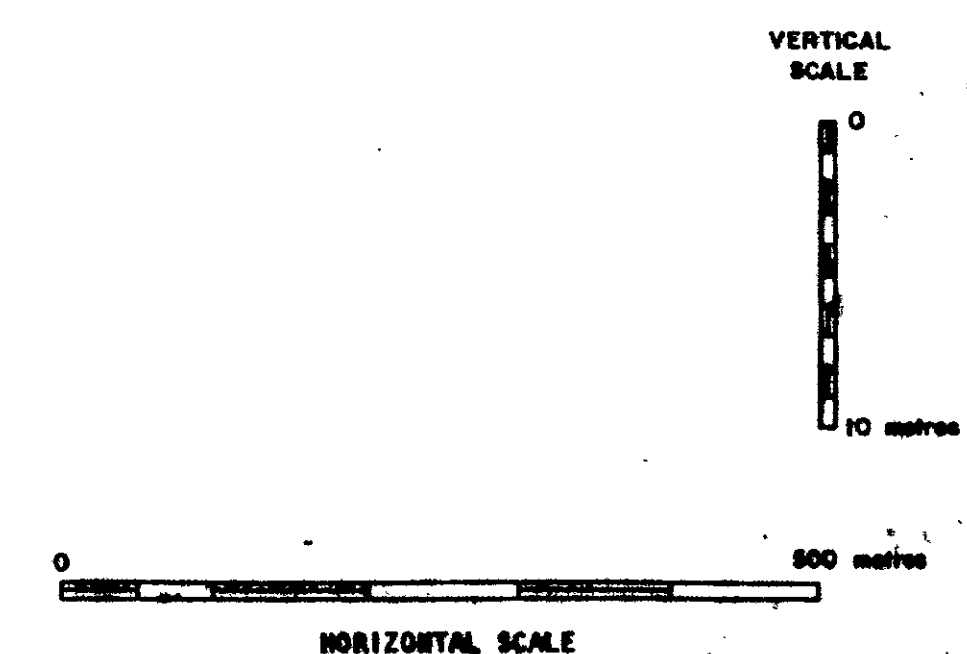


- calcrete
- white kaolinitic calcareous clay
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- red-orange brown f.m. sandy clay to clayey sand
- mostly orange-red brown f.g., clean quartz sand, occasional m. - v.c.g. and gritty quartz sand. Generally ubiquitous white mica, occasional shell fragments
- interbedded granules/pebbles
- granules/pebbles

5 Heavy Minerals  
0.42  
Indurated patches



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| <b>Aberfoyle Resources Limited</b><br>EXPLORATION DIVISION                                        |                  |                                                        |  |
| SOUTH AUSTRALIA<br><b>KAROONDA - PARRAKIE</b><br><b>CROSS SECTION 398000E</b><br><b>SHEET 'E'</b> |                  | Compiled: MBT<br>Drawn: GLC<br>Traced: PGT<br>Checked: |  |
| Location Date: 10/4/10, 14<br>Scale: H 1:5000<br>V 1:500                                          | Date: July, 1987 | Plate No: K17-E                                        |  |