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EL 924

WIRRANGULA HILL

PROGRESS AND FINAL REPORTS FOR THE PERIOD 16/11/81 TO 15/6/82

Submitted by

CRA Exploration Pty Ltd 1982

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TENEMENT HOLDER: CRA Expl. Pty. Ltd.

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CRA EXPLORATION PTY. LIMITED

FIRST QUARTERLY REPORT FOR WIRRANGULA HILL E.L. 924, FOR THE PERIOD ENDING 15TH FEBRUARY, 1982.

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AUTHOR:

D.R. McBAIN

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12TH FEBRUARY, 1982.

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1. SUMMARY

An evaluation of the available data showed the potential for Permian coal over large parts of the E.L.

A detailed gravity survey was undertaken to elucidate the basement configuration within the inferred basin. The interpretation of this data showed the basin structure to be more complex than previously inferred from the regional geophysical data.

A five hole drilling programme, partially based on the gravity interpretation, is due to begin in the next quarter.

2. CONCLUSIONS

- 2.1 Intersections of Permian coal in the vicinity of the E.L. by previous explorers indicates the probable development of Mt. Toondina coal measures over the E.L.
- 2.2 The intra-basin structure trends N.W. S.E.
- 2.3 To the west of the gravity survey area, deposition of Mt. Toondina coal measures may be affected by basement configuration.
- 2.4 There are sufficient low density sediments for the development of the Mt. Toondina Formation over most of the area.

3. INTRODUCTION

Exploration licence 924 (Plan SAa 756) was taken out as part of the coal exploration programme of CRA Exploration Pty. Limited within South Australia. Previous boreholes in the vicinity have intersected Permian coal.

The tenement was granted to CRA Exploration Pty. Limited on 16th November, 1981 for a period of twelve months. This report details all work carried out by CRA Exploration Pty. Limited within this E.L. prior to 16th February, 1982.

4. WORK CARRIED OUT

4.1 Data Acquisition

Data pertaining to the broad area was acquired. No specific data was available for the licence area.

4.1.1 Regional geophysics

The regional gravity and aeromagnetic data was insufficient to detail the basin and its detailed structure.

4.1.2 Previous Exploration

Newmont - Dampier, Australian Selection and the S.A.D.M.E. have all drilled in the vicinity. Borehole logs were acquired for these holes.

4.2 Data Evaluation

All the available data acquired was evaluated. The evaluation was undertaken by a contract geophysicist, B. Finlayson. The report on the evaluation (CRAE report number 10909) is presented as Appendix I.

4.3 Geophysics

4.3.1 Gravity

It was a recommendation of the evaluation that a detailed gravity survey be undertaken in the southern portion of the E.L. In November - December, 1981 a detailed six line, 787 station, gravity survey was carried out by Solo Geophysics (Plan SAal330). The gravity survey data for this "Nilpinna" grid is presented in Appendix II.

The interpretation of the gravity data shows the intra-basin structure of the basin to be more complex than previously interpreted from the regional data. The intra-basin structure is oriented N.W. - S.E. with a series of "highs" and "lows". The overall pattern is of deepening basement to the northeast. The basement in the western part of the survey area may have influenced the deposition of the Mt. Toondina Formation.

The interpretation was complicated in the north-eastern parts of the survey area by the possible presence of Cambrian dolomites.

The final report on the interpretation is awaited. It will be presented in the next quarterly report.

5. PROPOSED DRILLING PROGRAMME

A five rotary-mud borehole programme is due to commence in the next quarter (Plan SAal331). Three of the boreholes fall within the detailed gravity survey area and their location is based on the interpretation of the gravity data. The remaining two boreholes, in the north of the E.L., were located from interpretation of the regional geophysical data.

The estimated borehole depths, estimated depths to the base of the Upper Permian and basement, and the rationale for the borehole locations is presented in Table 1.

D. P. Massin

D.R. McBAIN

DRM/lmc

TABLE 1

1982 ARCKARINGA BASIN DRILLING PROGRAMME - Wirrangula Hill E.L. 924 - Summary of Estimated Depths and Rationale behind Borehole locations.

Major coal seams located in Upper Permian

Borehole Sites	Estimated Borehole* Depths (M)	Estimated Depth to * base of Upper Permian (M)	Estimated Depth* to basement (M)	Rationale behind borehole location
AA	310	290	500	Investigate coal development on sloping S.W. margin of large basement depression. Obtain full stratigraphy to base of Upper Permian in western area of E.L.
В	320	300	850	Investigate coal development in eastern area of E.L., in area of shelving basement; located in depression to N.E. of fault. Obtain full stratigraphy to base of Upper Permian in eastern area of E.L.
C (i)	270	250	650	Investigate trough in S.W. corner of E.L.; on the downthrown side of fault, for coal development.
£ .	204	125	204	Investigate shallow coal development on northerly shallow sloping shelf in south of E.L. Provide information on L. Permian and basement.
G	270	270 (ii)	- (iii)	Investigate coal development, in the north west of E.L., within a small gravity low. Will determine potential of the northwestern portion of the E.L.
н	300	300 (ii)	- (iii)	Investigate coal development, in the north of the E.L. on a northerly slope environment. Will determine potential of the northern portion of the E.L.
YTAL	1404 (excl. Site C)			

^{*} Depths interpreted from CRAE gravity data (except for G $_{6}$ H).

⁽i) Reserve borehole site, if meterage should allow.

⁽ii) Outside CRAE gravity survey area - 150 metres allowed for U. Permian section.

⁽iii) Outside CRAE gravity survey area - No basement depths calculated from regional data.

KEYWORDS

Warrina SH53-3, Arckaringa Basin, Cambrian, Permian, Cretaceous, Tertiary, Boorthanna Formation, Mt. Toondina Formation, Stuart Range Formation, Coal - black, Geophysaeromag, Geophys - grav, Drill - rotary, Data review.

LOCATION

Warrina SH53-3

1:250,000

LIST OF PLANS

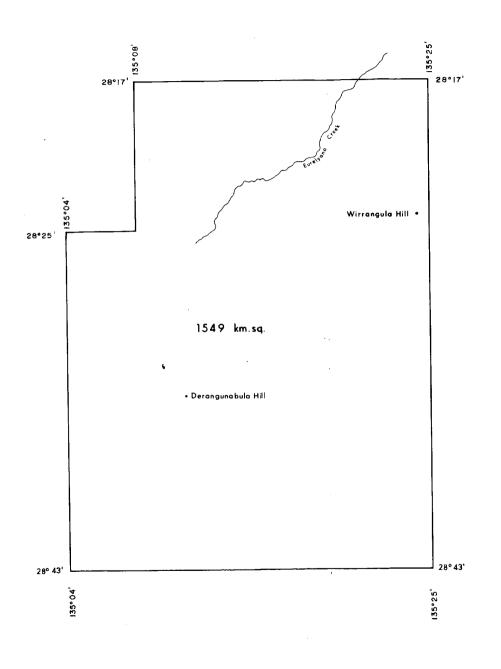
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Appendix II - Nilpinna Gravity survey grid data, December, 1981.





C. R. A. EXPLORATION PTY. LIMITED

EL 924 WIRRANGULA HILL

Drawn S.W.
Report No. 11101
Plan No. SAa 756

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APPENDIX I

WIRRANGULA HILL E.L.A. 324/81, SOUTH AUSTRALIA,

EVALUATION OF COAL PROSPECT

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CRA EXPLORATION PTY. LIMITED

WIRRANGULA HILL E.L.A. 324/81

SOUTH AUSTRALIA

EVALUATION OF COAL PROSPECT

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B. FINLAYSON

(Consulting Geophysicist)

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1. SUMMARY

The Wirrangula Hill E.L.A. overlies an area in which a broad gravity low is defined by regional gravity data. Widely spaced aeromagnetic lines across the area indicate a gradually deepening section to the east broken by a series of basement ridges and crossed by basement faults oriented north westerly. A gravity survey to give greater resolution to a drilling programme is suggested. The subsequent drilling programme is sited to test the local gravity lows within the regional feature for the potential development of Permian coal measures.

2. INTRODUCTION

The outline of the Arckaringa Basin as it is presently known has been compiled from available seismic and drilling information, (Fig. 1) (Finlayson, 1981). The basin is an intracratonic basin of Permian age, the development of which appears to have been controlled by graben and half grabens formed on an orthogonal set of north west and south west oriented fractures.

This development may be a rejuvenation of an existing fracture system as the Arckaringa Basin overlies extensions of the ?Cambrian Eastern Officer Basin which have similar orientations.

Within the Arckaringa Basin, the Permian sedimentary section can be stratigraphically divided into a lower transitional marine to lacustrine section which has had glacial influence at the base and an upper restricted non marine, paludal to fluviatile section. These correspond to the Boorthanna and Stuart Range Formations in the former case and the Mount Toondina Formation in the latter.

Coal bearing strata occur in the upper parts of the Mount Toondina Formation for which the type section occurs at Mount Toondina on Oodnadatta 1:250 000 sheet approximately 30 kilometres north of the current E.L.A. Large subeconomic deposits have been proven in the Wallira - Phillipson Trough to the south of Coober Pedy 1:250 000 sheet and 'assumed' deposits have been outlined in the Mount Furner trough 60 kilometres north west of Wirrangula Hill. Within these deposits the coal bearing upper parts of the Mt. Toondina Formation are preserved in down faulted "subsidence" basins in which a low energy environment has been maintained.

Because Permian sequences within the Arckaringa Basin have lower densities than the underlying sequences (Table 1), these basins can on a regional scale be outlined by the

existing gravity coverage although at a mean spacing of one gravity station per 36 square kilometres, optimum targets are not clearly differentiated and small basins may be missed (Fig. 2).

The Wirrangula Hill E.L.A. covers one such regionally defined gravity low.

The aims of this report were to examine existing information in relation to the coal prospectivity of the lease application area and to suggest a programme of work which would test the prospect for two types of situation.

The first situation would be where conditions were considered to be optimum for development of Permian coal measures, the second situation was to suggest areas where a prospect could be outlined for shallow development of coal measures.

Within the E.L.A. boundary at the time of consideration no subsurface geological knowledge was available. Surface geology was from photo interpretation and available in preliminary format only.

Aeromagnetic cover is poor with five kilometre east west line spacing flown at 460 metre barometric above sea level.

Bouguer gravity as mentioned above consists of regional stations barometrically levelled and positioned from uncontrolled airphoto plots.

All interpretation had to be based on this meagre data plus extrapolation of drillhole information from outside of the lease area (Fig. 3).

3. WIRRANGULA HILL E.L.A. - PREVIOUS EXPLORATION

Newmont - Dampier exploration drillhole (Fig. 3) SR 14/2, two kilometres east of the E.L.A. boundary intersected brown coal from 129.08 metres to 130.75 metres with a possible core loss from 99 to 129.08 metres (Wright, 1979).

This hole was sited on a gravity and magnetic high in the search for Roxby Downs type base metals and was abandoned when estimates of depth to basement were not considered encouraging. The position is unfavourably sited in relation to coal prospectivity and the above mentioned intersection is thus encouraging for the development of thicker accumulations within down thrown basins in the area.

Australian Selection rotary drillhole MU-2 12 kilometres west of the E.L.A. boundary also intersected one metre of brown coal from 84.5 to 85.5 metres again with probable core loss (Mason, 1975).

This hole was targeted adjacent to a gravity low and the prospectivity is thus untested but encouraging. Australian Selection drilled a fourteen hole percussion programme to the west and south of the present E.L.A. without testing the gravity depressions. Their programme confirmed that the gravity highs have poor prospectivity.

4. INTERPRETATION

To assist in the interpretation of available data a crude structural plan was drawn (Fig. 4), based on the sparse aeromagnetic data. On this was outlined areas of suspected uplifted basement. This was drawn by enclosing zones with a similar frequency response and by estimating the depth by half slope methods from the contours on two anomalies d_1 and d_2 . A proposed lineament drawn through collinear inflexions in the contour data is also indicated. This may represent a basement fault.

The existing gravity coverage outlines a broad gravity low across the southern half of the E.L.A. (Fig. 3). Comparison with the aeromagnetic data suggests a model for this gravity low in which a gradually thickening section toward the east is bounded in the west by a north westerly fault system The existing data both gravity and magnetics is insufficient to detail this basin and the extensions of gravity cover over the southern half of the lease (area A, Fig. 3) is recommended on a semi-regional spacing of 500 metre spaced stations on lines oriented north easterly five kilometres apart perpendicular to the proposed basin structures (approximately 400 stations barometrically levelled). Because of the aerial extent of the gravity low, there is potential in this area for a large deposit and reconnaissance drilling central to the regional gravity low is recommended early in an exploration programme at drill locations 1* and 2* (Figs. 3 and 4).

Drillhole 1* is the first priority hole in a section which appears most favourable for development of Permian coal measures. At least 100 metres of Mesozoic cover is expected in this hole based on widely scattered drillhole information outside of the lease area within the knowledge of the author.

Drillhole 2* is the second priority hole in a position where magnetic basement is indicated to be shallow and where gravity indicates a prospect of shallow development of coal measures.

The northern half of the lease (area B, Fig. 3) covers a regional gravity high which is in part interpreted as due to a change in basement type. This trends south westerly and may mask local gravity lows which could contain small

subeconomic coal deposits. Extensions of the semi-regional coverage to define such local lows in this area at a later stage is recommended if exploration of the southern half of the lease is encouraging. Reconnaissance drilling of the gravity lows is recommended.

Drillhole 3* is sited to test a small low in the northern portion of the lease as is drillhole 4*. Drillhole 5* is sited on a small low in a deeper portion and is expected from the general concept of northward thickening Mesozoic to locate Permian section at a depth of at least 150 metres.

In addition, aeromagnetic coverage of the southern half of the lease should be considered as a second stage exploration programme. Because the inferred prospective basins are likely to be fault controlled, a detailed aeromagnetic survey would give valuable information on the structure of the area. Coverage at 500 metre line spacing of the southern half of the lease is suggested with flight orientation north easterly perpendicular to the indicated magnetic features or at such a direction as indicated by the proposed gravity survey to be of greatest assistance in resolving structural features.

5. PROPOSED EXTENSIONS

The accompanying Fig. 3 outlines a proposed extension to the licence application subject to availability of ground.

The area includes the Australian Selection hole MU-2 (which intersected one metre of Permian Coal) and covers the majority of the regionally defined gravity low.

The extension to the south of Stuart Range Bore No. 2 covers a similar small low in which there is a possibility of locating a small deposit (of the order of 100m. tonne).

Within this area a single gravity traverse south from Stuart Range Bore No. 2 at a spacing of 500 metres with a follow up drillhole (drill location 7*) within the gravity low is recommended. A similar traverse south west from MU-2 to define the gravity low adjacent to that drillhole with a subsequent test drillhole is further recommended (drill location 6*).

Within the proposed extension two additional reconnaissance drillholes are recommended based on the existing gravity. Drill location 9* is to test extension of the main gravity low to the south east and drill location 8* to test a small depression to the south of the existing boundary.

* Recommended drillhole reference, table 2. Positions subject to completion of gravity survey (Figs. 3 and 4).

6. SUMMARY OF RECOMMENDATIONS

- 1. Within outlined area A, Fig. 3 a semi regional gravity grid of approximately 400 barometrically levelled stations 500 metres apart on lines five kilometres apart oriented 045°.
- 2. Extension of application area.
- 3. Reconnaissance nine hole drilling programme.

B. FINLAYSON

BF/pw

TABLE 1 - DENSITY INFORMATION FROM THE ARCKARINGA BASIN

Stratigraphy Density (tonne/m³) Tertiary 1.9 - 2.2Cretaceous 2.1 Permian Mt. Toondina 2.1 - 2.2Stuart Range 2.3 Boorthanna 2.4 Cambrian - I 2.71 - II 2.75 - III 2.4 - 2.5- IV 2.2 Proterozoic 2.66

TABLE 2 - SUMMARY OF RECOMMENDED DRILLHOLES - ESTIMATED DEPTH TO TOP OF PERMIAN (By broad interpolation from surrounding areas)

- 1. 100 150 metres
- 2. 100 metres
- 3. 120 metres
- 4. 150 200 metres
- 5. 150 200 metres

REFERENCES

- Finlayson, B., 1981. Exploration of the Arckaringa Basin South Australian Department of Mines and Energy Report Book 81/51. Unpub.
- Mason, M.G., 1975. Australian Selection E.L. 184
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 and Energy open file env. 2556.
 Unpub.
- Wright, R.G., 1979. Newmont Dampier E.L. 340 South Australian Department of Mines and Energy open file env. 3091.

KEYWORDS

Warrina SH53-3, Arckaringa Basin, Cambrian, Permian, Cretaceous, Tertiary, Stuart Range Formation, Mt. Toondina Formation, Boorthanna Formation, Coal - black, Geophys-gravity, Drill-rotary.

LOCATION

Warrina SH53-3 1:250 000

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Appendix II CRAE Memorandum - subject Newmont - Dampier SR-14/2

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APPENDIX I AUSTRALIAN SELECTION E.L. 184 DRILL LOGS.

4.3 Hydrogeology

Large volumes of brackish water have been located in the Algebuckina and Cadnaowie coarse sand units. This groundwater sub-basin of the Great Artesian Basin has been described in detail in report by Mason (1975) and will not be further discussed here.

4.4 Coal

Carbonaceous fragments were intersected in almost all holes from the Cretaceous Cadnaowie to the Permian Mt. Toondina Formation. However, coal seam intersections were confined to MU-1, MU-2, MU-3, MU-8, MU-9 and MU-13.

Coal in the Mt. Toondina Formation was confined to MU-3 (less than 50mm seams below 125 metres) and MU-2, where a metre seam was intersected from 81.5 to 82.5 metres; a 0.2m seam at 86.5 metres, and seven 50mm seams were intersected down to 101 metres. Below this the sediments were not carbonaceous. Petrographic analysis of coal from the interval 84-86 metres indicated the coal was principally vitrinite with sub-ordinate amounts of granite and inertinite. The coal was low rank with an estimated violarite matter of 55%, calorific value of 12,500 (Btu/lb) and low ash content. Details appear in Appendix 2.

The metre intersection in MU-2 was the only Permian intersection of note. This intersection is

surrounded by barren holes MU-13, MU-14, MU-3, MU-4, MU-5 and Stuart Range No. 2. Therefore, the possibility of an economic development of coal is confined to the northeast, where drilling indicates the Permian is greater than 100 metres below surface.

Coal in the <u>Cadnaowie Formation</u> was much more common and widespread. Intersections included:

- MU- 1 minor seam at 41 metres
- MU- 3 1 metre seam 42-43 metres 4 0.05 to 0.2 metre seams 43-47 metres few minor seams down to 66 metres
- MU- 8 minor seams 66 to 80 metres; possibly in the Jurassic Algebuckina Sandstone
- MU- 9 minor seam 30-52 metres
- MU-13

 0.5 metre seam 28-29 metres
 1 to 2 metre seam 56-58 metres
 1 metre seam 59-60 metres
 0.5 metre seam 66-67 metres
 minor seam 88-89 metres, probably in the
 Jurassic Algebuckina Sandstone

Of these, the intersections in MU-3 and MU-13 were significant. These may in fact be the same horizon and continuous. However, the minor intersections in MU-1 was not repeated in MU-14 and indicates a lack of continuity of coal seams in the Cadnaowie unit.

Coal has previously been intersected in the Cadnaowie by Oilmin further to the north. The quality was poor, as is the case in this area.

Three samples from MU-13 were submitted to Robertson Research for analysis. See Appendix II. Intervals

K 25.

ested were from 32-34 metres, 56-58 metres and 59-60 ætres. All samples were similar being almost entirely emposed of vitrinite, low rank, an estimated 55% olatile matter, caloritic value of 12,400 Btu/lb and with a low ash content.

I DNCLUSIONS

The top of the Mt. Toondina Formation varies from 62 In 106 metres below surface generally becoming deeper the north.

Eal was intersected in the Mt. Toondina Formation —y as a 1 metre seam in MU-2. Surrounding holes —dicate that the intersection is of no economic —significance.

This suggests a significant area aderlain by coal greater than 1 metre thick. However, the quality is poor and no economic deposit is considered present.

There is little chance of significant coal deposits lear the perimeter of E.L. 184.

EXECOMMENDATION

Yo further work is warranted.

M. G. MASON SENIOR GEOLOGIST

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- R.L.COLLAB.... MURLSHEOPPIE 1:250,000 LOCATION: CO-0205 .. 7807 ... 4407..... DIRECTIONS SHER SENTH **GEOSHAM** DESCRIPTION Methedrical (,or) (u (,p,n) Zu (,pn) RENARCO Buff Soil + Gyffin Light Book - Buff Blocky SHRLE Dark Bray Blocky SHALE 10 m Becoming Freshar + More Fissile Blury-Stock Every Fissile shally-Sicrosone Thin Buist while Aphanilic austrito 20 m Buck Medium - Course Corned Transparent QUARTE & MINOR FELDSPATHIC SAND Amoor Shale Gordanination from above + MINOR Shale Gordanination from above + Very minor pay positi As Above + Light Grey SANDY SILVSTONE Join . . 9.5 As Above + Mid - Darle Gray Shee Sny Smarie Medium - Coarse Transparent QUARTZ + White Facos ATHIC HIST MUSICULITE SAND HISTORY 40 m FORMATION Muscouite 50m -180 ft of casing Owie 1-2- Black trumly weak Coul CAONA-Im Burch Woody Coul 60 m -Black Bull woody Blocky Madyine Soil it was I the wast, while the same of the -70 m As Above - medium grained Medium - Coarse Grund Transparent M. QUARTZ & MINOR FELOSPATHIC SANO Ю, 80 m Coarse Graned Transport DUARTE As Above - med - Fine - comme commed Medium-coare Coare of Tay of the Sungary Som
Medium-Coare Gained Transported 90m
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LOG OF PERCUSSION BRILL HOLE

POSPECT MURLOOCOAPIE COAL

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SPECT: MURLADICAPPIE COAL

WARRINA 1:250,000 CO-OROS: ...3/4/...4/4/......

DIRECTION:....TT....

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CT MURLOOCOPULE COLL

CO-ORDS: 3174 4352

INCLINATION: ... 90° DIRECTION:

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LOG OF PERCUSSION CRILL HOLE

ISPECT: MURLOCCOMPLE. COME

WARRINA 1:250,000 CO-0505: 3257 4210

R.L.COLLAR:.... INCLINATION: 90°

DIRECTION:....T....

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[- 031 LOG OF PERCUSSION WAILL HOLE OSPECT MURLDOCOPPLE COAL WARRINA SHEET 1:250,000 INCLINATION:96 CO-CRDS: 3136 4207 DIRECTION: ०६९८५ अदासद्य GEOCHEM DESCRIPTION (yam) | Cu (pam) | Za (pam) 7777 William Grey Fissile Fresh

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EUG OF FERGUSSION WHILL MULL

SOSPECT MUALOOCTPIE COAL

MUT

R.L.CJLLAR:....

INCLINATION: -90° DIRECTION:..... co-oros:..... LOCATION:.... GEOCHEM CUI OEPTH METRES REMARK DESCRIPTION (print | Cu (ppm) LZn (ppra) בשוקנפ של פש CLAY - Khaki, 25% silt ي -ع n.g. sand, 15% mile. Reser clas. 2070 94P SHI 10 m 5ANO - pale yellow, 20% c.q. 45% m.g. Rent f.g. angular quartz 5% Feldspan riner clay 20% sitt some Feldspan 10% eng. Rest c.g. sub augular quarty. COMPASE CAND. yellow 35% c.g.
30% - .g. minor silt clay amica
Per F.a Fand Subangular.
Iron oxide coated surface, 20 m Limit of ocidation? MEDIUM EAIL White. 50 mice. 346 angular. 35% m.g. minor 6.7. Rev F.g. quartz. 10% white 30m · 0 Foldspar. meoium sano - white nime mica...

10-20% Kaolin, 60% F.J. Reore

mg subangular quartz. Minor

opaline quartz 40 m 50m 35% Sand 45. GRANITE grey m. 7. 30% biotife + + 30% quanty (gry-blue) & 30%-1'h, 40 30 45 133C ++ feldspur. equigranula _ + + 69 m END OF HOLE 60m. 70 m 80 m 90 m 100m-110 m DRILL TYPE: SENTOMOR | DAVE DRIVETO ... 15-16th May 1: LOGCED M. Mas

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END of HOLE Bandres. Selection of the content of	- 1	. Т	cilt. 10% kaolin. Ao% č.g. 20% ing. 10% F.g. 44 antz. Sona opaline.	50m ·						
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to a contract of the contract										

MULE NE MU-LOG OF PERCUSSION DRILL HOLE JOSPECT : MURLOCCOFFIE COFFE Warring 1:250,000 Sheet R.L.COLLAR:.... LOCATION 40km NE Conton Fedy . CO-OFUS: 3024 4315 INCLINATION: .. + DC DIRECTION: HAIER CUT DEPIH PETRES GEOCHEM DESCRIPTION REMAR Cu (pom) | Zn (pom) CHAY EAY Khaki 4 dark grey . F.g. 20% silt quanty 5-10% mica Rest clay, dork gray. 5% graphital. SANDY SILTSTONE gry ofen g. quarty sandy sitterone your some conference with the some conference of the 10 m 4600pp יוחי some combo Feldsportist

mino- polibles pinked green

wenthend porthyry. 1 198 20 m · SENIO - BOYNET - Substantial quanty substantial situation and sitestane layers 0 30m -10,000 gph . 40 m 50m SAND -m.g. 20% Koolin matrix. Follomg. angular quarty. No Feldspares cont. pyritis. Silt. 60 m cistornet grea 15% f mg. quarts subsande minor pyrtic. 189. Mis. 55% cit. 57. graphite. 70 m 57. m.g. sant 25% ctag 80 m -90 m 3 some calcarente lens with pyrite h END OF HOLE 95 metres . cakorente 100 m-110 m Date Lype: Solveron DATE Lyn LCD: ... 5-6" My 197

URILLER D. BILSTON LOGGET M. MASON

LOG OF PRACHISOION TAMELY OSPECT MURLOOGEPPIE CORL R.L.COLLAG..... INCLUMATION: 二急的 MAP LOCATION 55 km NNE Cooper Pedy. co-onos 2860 4660 DIRECTION:...T METHES LOG GEOCHEM DESCRIPTION (zwn) Cu (ppm) Zn (ppm) CLAY SOIL - RED Drown . 10% gypsuzu CLAY KHAKI. - F.g. 20 Yorounded Silt. Rest day. 75, שרניש שרפיים 343 10 in -4 CARBUNACEOUS SHALE - Eleut Fig. 10% graphite 15% mus flest clay. 20 m oin hard hand 30 m 19/0 m.g. 50% F.g quanty tournalised ججا siur eury - 25-30 % silt. - 10-20/s mica 5%- pyrile, minor graphite Rest day 23 CARD 20% mg. Saye (a) may sold from the sold 40 m 30% sitty day \$ O 1.... 5cm calconents ŤΘ. calcanent END OF HOLE . 56 meters . 60 m 70 m of 5 30 metres for - Barry 80 m 90 m 100m 1!0 m DRILL THEEL SEMERATION OF THE CRILLIAN A. May 19:5 ORILLER P. BILSTON Lecoso M.Mason

ISPECT MURLOOWIFFE CORT.

LOUS OF MERCUSSION WHILE HOLE or Mulbocoppie Miso, one sheet.

TCATION: 48 km IINE Conter Pedy CO-0905: 2838 4534

R.L.COLL'AR INCLINATION: - 90 DIRECTION:......

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a	CLAY - Dark green-gray, Fig. 15% sell quenty, 3% towarding]	<u></u>				1	1		
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LOGE OF 03 ROUSSION DRILL HOLE

SPECT MURLOCKCEPIE COAL

Munloscrppie 1:250,000 1.

CATION 37km Mys Conbor Pedy.

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SCALE 1.500

30 April - 2Mby 19

MAP

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SPECT MURLUOCUPIE COAL

Murlousoppie 1:250,000 Sheet.

R.L.COLLAR..... MICLINATION: 17 29 DIRECTIONS ... To..

OCATION: 26 hm NNE Crober Pedy CO-ORDS: 2827 . 4277. NATER GEPTH LOG GEOCHEM DESCRIPTION REMAR (com) | Cu (pom) | do (opin) CADHADWIE FORMATION - Cons in cone

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Occurrence to 76 f.m.g. 5000 15/0-100

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To/o cloy groy miner brown

To/o cloy groy mineral 15/0-100

To/o cloy groy mineral 55/0-19

To/o cloy groy mineral 55/0-19

To/o cloy groy mineral 55/0-19 12 20% a 2 ban -=% pyrite 10107 10 m 2% - 3 ATC 5% SATID v. pale grey 90% f-c.g. quants c.g. subtrounded F.m.g. rounded water cut. 2-570mica minor clay bocarthered e? (co. 2% purile 1% 0500pb alle curbona capus 20m-COPRICE SUMD -V. CALLE great O River in College, 15% ming same OFFIND - 1974 grey - 60% ming rounded great OFFIND - 1974 grey - 60% ming rounded great 5 7% ports - in tour source 10% to by books. (3) 575 F.g. Frignants سندنية بدور OCOPRESE SAND - v. pale gray. 30% c.g.
subangular quants. Minor alangs city.
Rene F-mig. subranded quants.

Pert F-mig. quants 30m -1% Fig. cont Fro 3% clay pieces 5 % Kadin m.g. 3 Cadno minon tournaline, pyride, Frietpe 15 % clay silt with conference of 10% conf (umps -wouldy . (Seom) 40 m To io Kaulin 30% Fine sandstone with 20% Figure for the sandstone with 20% Figure for the sandstone with 20% Fine sandstone is 20% Filesper minor clay 10% minor Regional Subangular.

5% Fig. datrital cool.

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DRILL TYPE: A Sprogning | DATE - DILLEO 20 April -30 April . 1 ORILLER: P. BILLTON LOCCED M.Meison 039

APPENDIX II CRAE MEMORANDUM SUBJECT NEWMONT - DAMPIER SR-14/2



C.R.A. EXPLORATION PTY TAMILLED

llth May, 1981.

Memorandum to:

D.R. KENNEDY

Memorandum from:

D.R. McBAIN

Re:

WIRRANGULA HILL - E.L. APPLICATION RECOMMENDATION

Newmont-Dampier drilled a cored borehole on their Cadaree Hill E.L.. the position is marked on the accompanying map.

The relevant borehole information is:

99 - 129,08 Core loss (considered unconsolidated - white

sand and coal fragments)

129,08 - 130,75 B

Brown coal

The coal analysis is as follows:-

Specific Energy	20.94 MJ/Kg	28.82 MJ/Kg
Total Sulphur	0.64	-
Fixed Carbon	28.6	39.4
Volatile Matter	38.4	52.9
Ash .	5.6	7.7
Moisture	17.4 (Total ?)	-
	AIR-DRIED %	DRY 3

The seam as far as Newmont-Dampier were concerned was 1.67 metres, though this could extend upward due to 30 metres core loss in the roof, and there were no geophysical logs.

The coal quality data is slightly vague, particularly with regard to ash and moisture. From the 3 volatiles one would expect the 3 moisture to be higher. Therefore it could be assumed that probably this is not a true total moisture figure.

The borehole above is on an E.L. area under application to another company; however the proposed Wirrangula Hill E.L.'s eastern boundary is only 2.25 kilometers from the borehole.

The geophysical outlook for the Wirrangula Hill E.L. is reasonably promising according to the general magnetics and gravity. These both show a basin type feature.

Regards,

17 14 Ban

D. MCBAIN

DM/dp

042

APPENDIX II

NILPINNA GRAVITY SURVEY GRID DATA, DECEMBER, 1981.

CLIENT: CRA EXPLORATION

GRID : NILPINNA

AREA : NORTHERN SOUTH AUSTRALIA

SURVEY: GRAVITY & OPTICAL LEVELLING

DATE : NOVEMBER/DECEMBER 1981

PHASE 1

A COMBINED GRAVITY AND OPTICAL LEVELLING SURVEY - NILPINNA

FOR: CRA EXPLORATION

31 OSMOND TERRACE,

NORWOOD, S.A., 5067

BY: SOLO GEOPHYSICS & CO.

3a McINNES STREET,

RIDLEYTON, S.A., 5008

Mobilising from Bulgunnia and restocking at Coober Pedy the Nilpinna gravity and optical levelling survey commenced 19th. November, 1981. After 25 days and completing 169 kilometres of the 220 line kilometre grid, the four man crew demobilised to Adelaide. The survey party consisted of three SOLO operators (one of which arrived Coober Pedy 23rd. November) and one CRAE field-hand. Access to the grid from Coober Pedv is as follows:

From the Miners Store, travel 7.35 kms north on the Oodnadatta road to the Nilpinna turn-off (not marked), then travel east on the Nilpinna road 79 kms. (accumulated distance from the Miners Store) to Marys Yard. The field crew camped at Marys Yard throughout the duration of the survey after permission was obtained from Jim Nunn, Manager - Nilpinna Station (call sign - 9 Oscar, India). Only the southern portion of the surveyed grid was outside Nilpinna's Pastoral lease, this falling within Crown land (see map).

Access to various parts of the grid was good and included a number of tracks (single-cut with grader) originating from Marys Yard as well as the Coober Pedy road (double-cut with grader). Most tracks have been graded within the past six months while Marys Yard was constructed last year. Fences enclose the grid but can be dropped with considerable ease as per instruction of Jim Nunn.

SURVEY DETAILS:

The grid origin was either Newmont drill-hole SR-14 or BA14/8? (only one could be found). A magnetic bearing was calculated from the proposed CRAE traverses off the Warrina 1:250000 sheet. When applied this bearing aligned exactly with a previous traverse undertaken by SOLO in 1978 for Newmont Pty. Ltd. The base line, designated co-ordinates of 50000N, is 8.2kms from the averaged position of the Newmont drill-holes. Traverses bearing 033 magnetic are positioned every 5 kms along the base-line (see map), with the most easterly designated co-ordinates of 100000E. Steel pickets were sited at the end of each traverse. Located at the intersections of traverses and base-line are three metre lengths of polypipe. Steel spacers and wooden dumpy pegs, marking the site of gravity measurements are alternately sited every 200 metres along the traverses. Distances were measured with a specially calibrated odometer.

Gravity loops were kept to within two hours duration. Five main gravity bases located every 5 kms along the baseline formed the basis of all the further gravity work completed along the traverses. These bases numbering 1 - 4 inclusive and 28 were tied in an A-B-A-B-A manner. The remaining gravity bases were tied in an A-B-A-B manner, in that a drift corrected value taken from the end of a gravity loop was repeated to ensure its accuracy and correct comparison to the initial base (in all 29 bases, checks proved a better than .05 mgal accuracy and most better than .02 mgals). See map for distribution of gravity bases.

Base one, 50000N/100000E was given an assumed observed gravity value of 979200, the survey was made arbitary to this point. Drifts encountered throughout the survey were moderate averaging .05 mgals per hour.

Station 54600N/100000E had an assumed elevation of 250 metres. All stations were optically levelled.

The fanfold data contains the original field data in loop format with station co-ordinates, station I.D., instrument reading in scale divisions, time and elevation. Also listed are the observed and theoretical gravity plus Bouguer gravity at 2.1, 2.4, 2.67 and 2.8 gm/cc.

The line files of the various traverses are listed with station I.D., station co-ordinates, elevation, loop number and ten Bouguer densities at 0.1 gm/cc steps over a range from 1.8 to 2.7 gm/cc.

INSTRUMENTATION SUPPLIED FOR THE SURVEY:

Two LaCoste & Romberg temperature compensated gravimeters G#037 and G#561.

One Pentax and one Sokisha automatic engineers level.

Two five metre staffs.

Two electronic vehicle odometers.

Complete camping gear for four man crew.

INSTRUMENTATION DAMAGED:

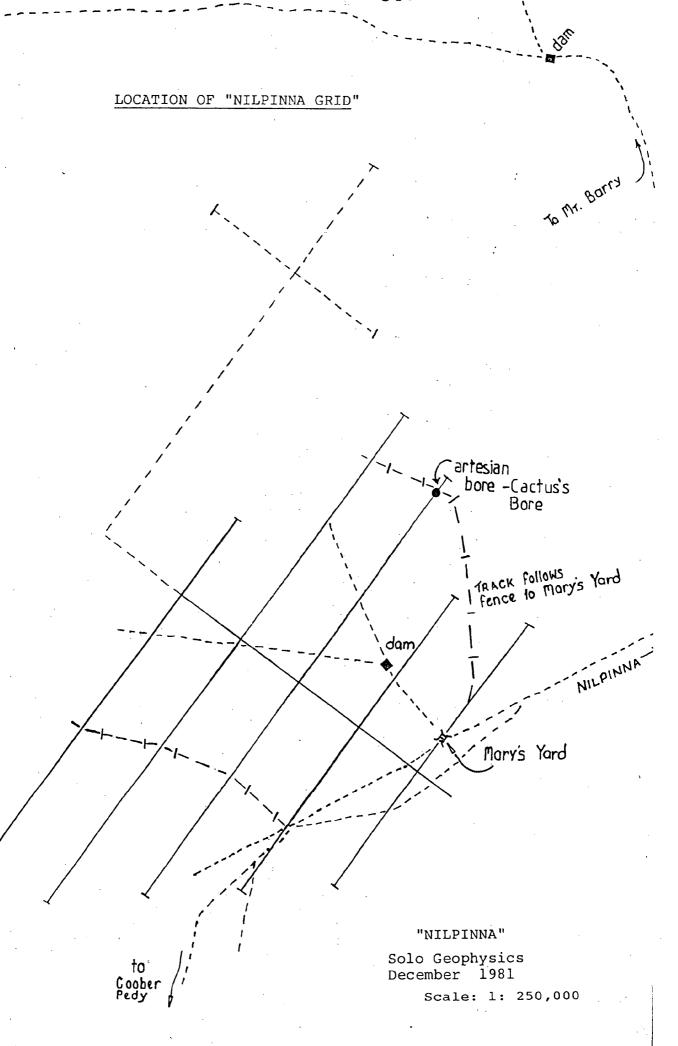
One tent completely written off and the second badly damaged. Gas bottle (bleed valve sheared).

Tripod (level screw sheared).

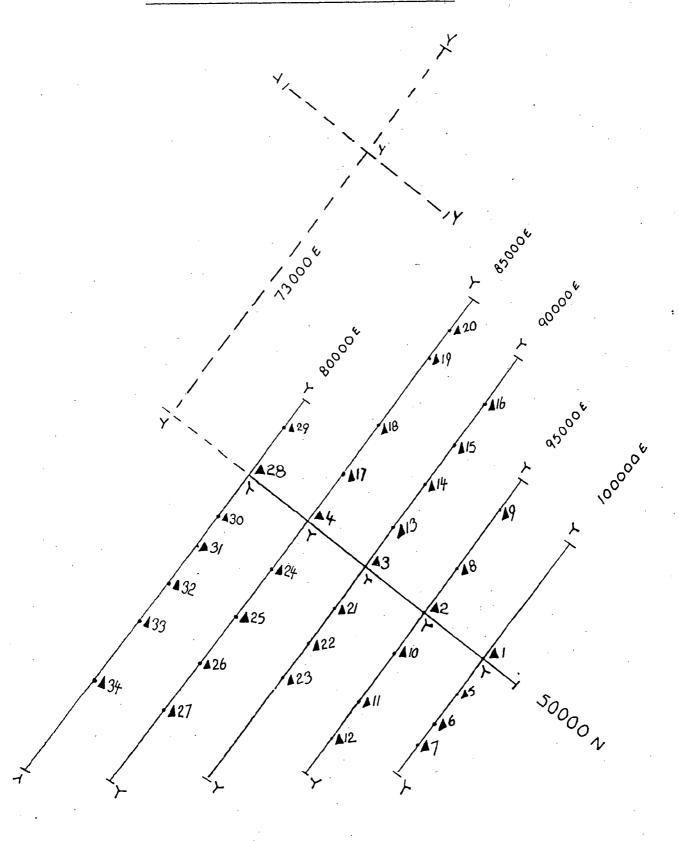
Two hammers - one lost, the second broken.

One reclining chair.

R. ANNETT - Senior Surveyor - BSc., A.R.S.M., A.I.M.M.



LOCATION OF GRAVITY BASE STATIONS



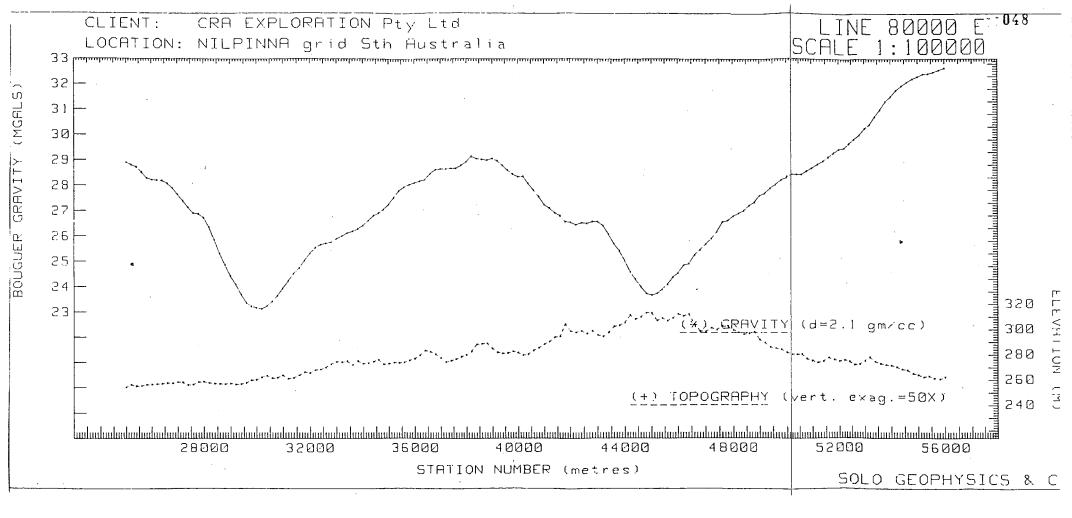
Y SOLO GRAVITY Base Steel PICKEL

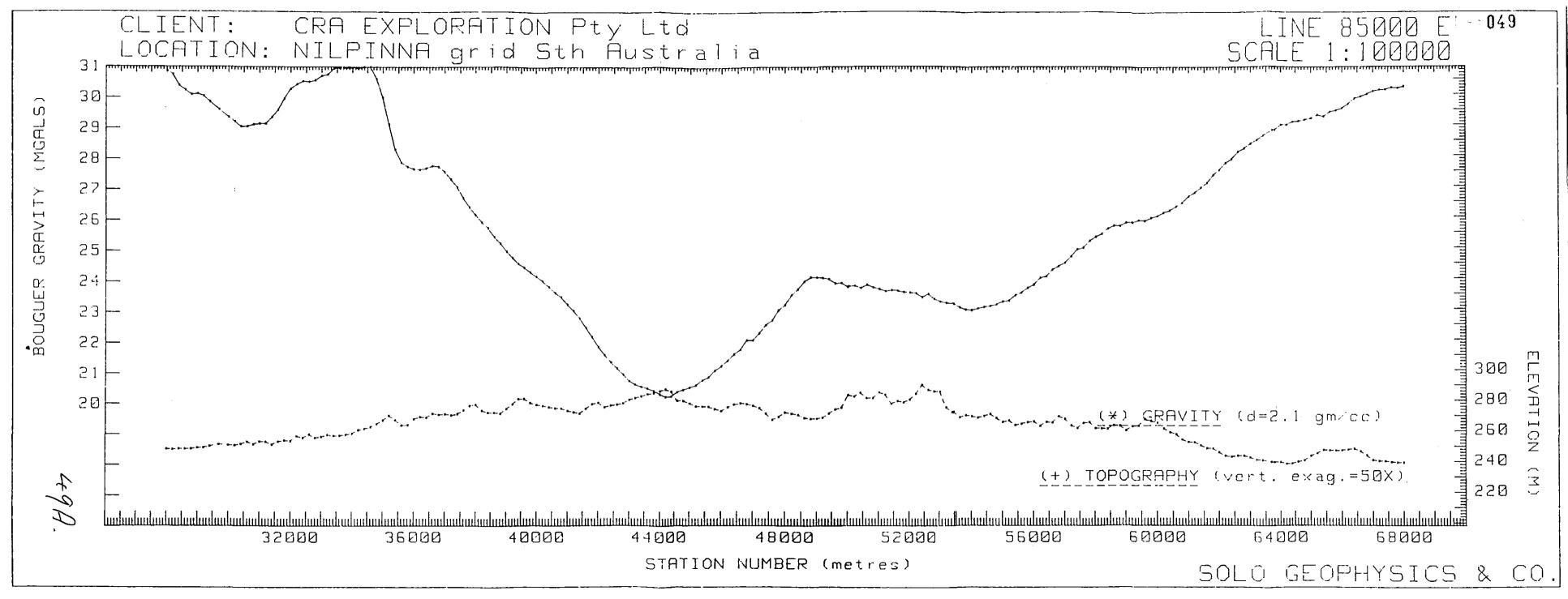
Y 3 metre Polypipe

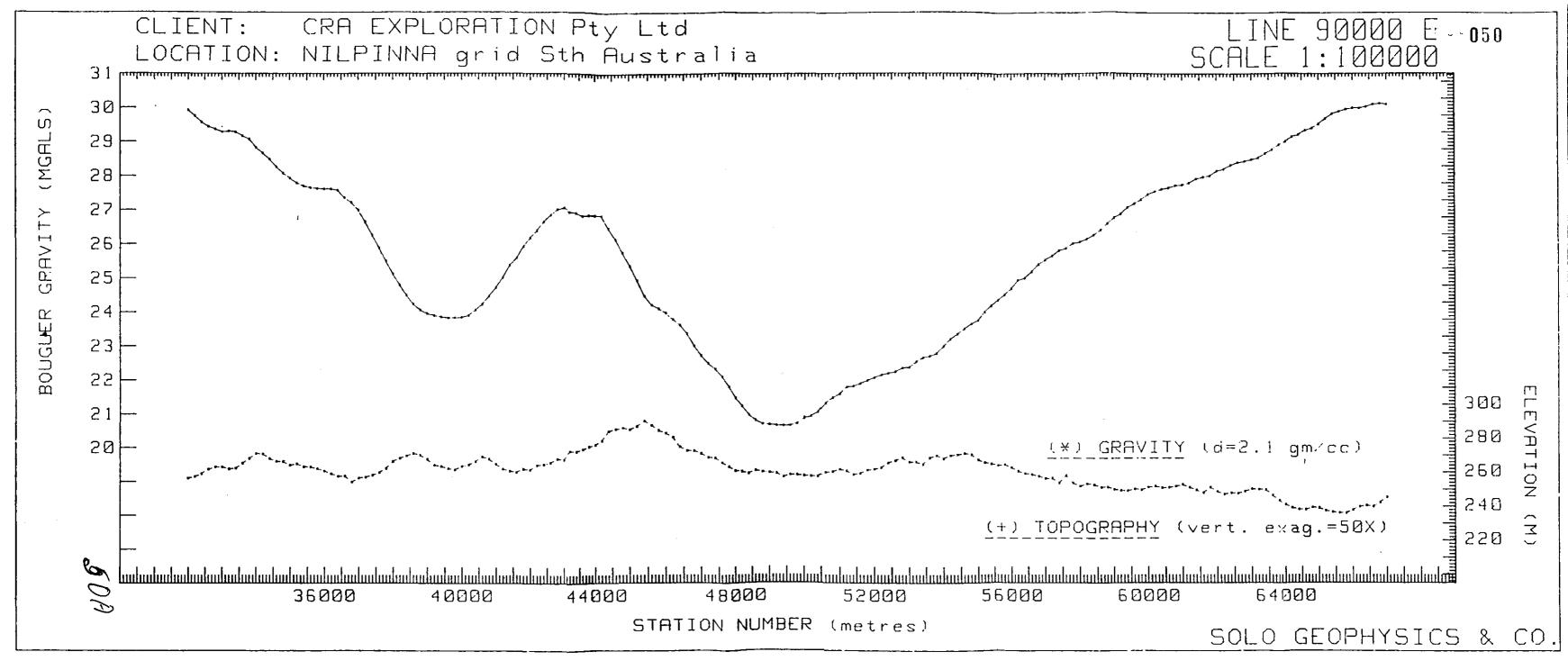
"NILPINNA"

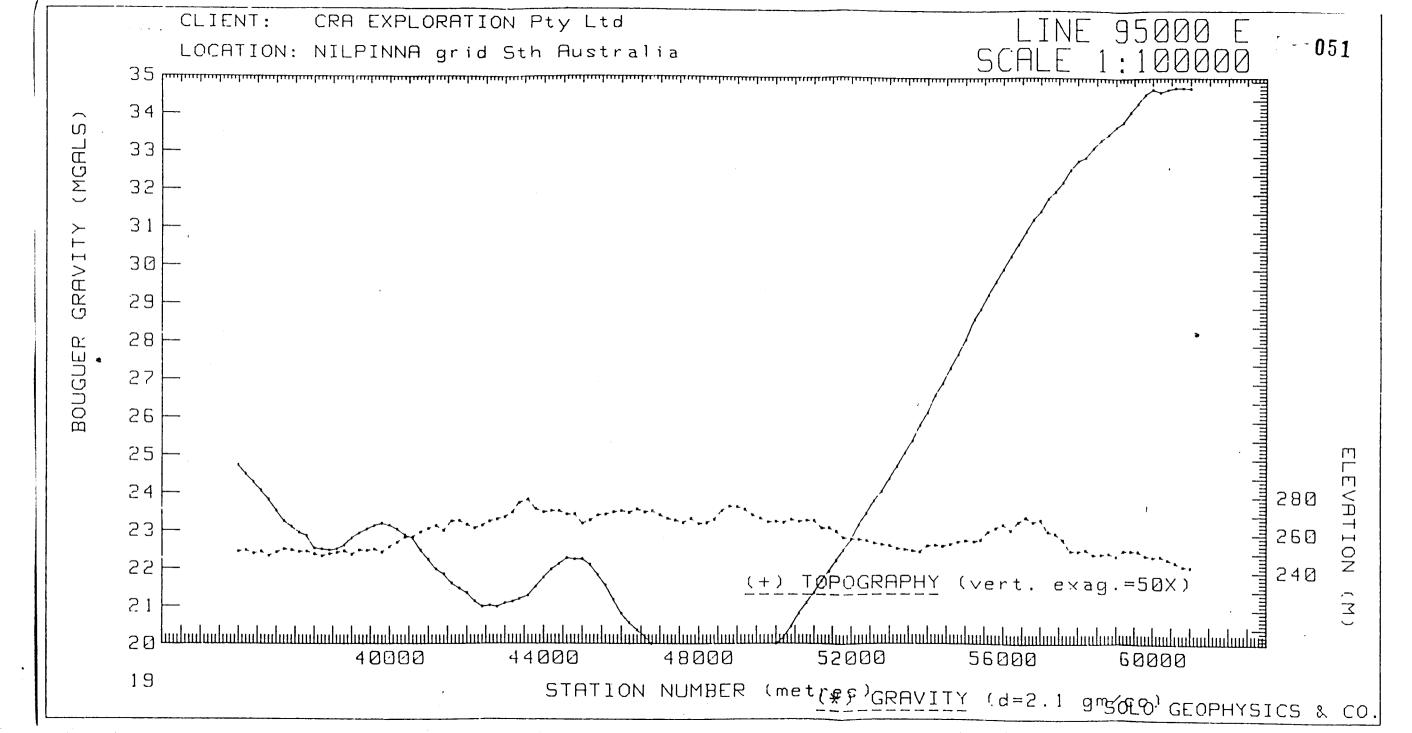
Solo Geophysics December 1981

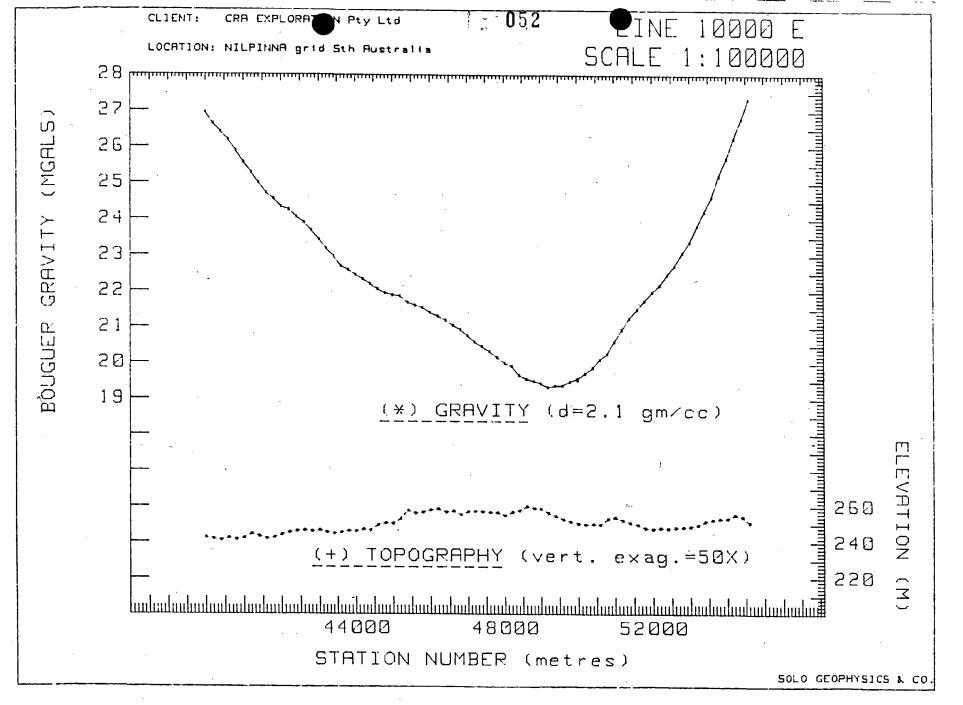
Scale: 1: 250,000











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	BAG	E # 03			2686, 95	15.28		770100 10						
٠.	******	******						7771.75. 32 ***********						_
			24/12/61			******	***	**************************************	*******	*******	********	*****	****	-
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SURVETED	FUR 1.3	RA LEXI	PLORAT	TON P	ty 1. t	d							
LOCATION		ILPINNA	grid Sth	Austra	lia								
COVERAGE	LINE 50	000N		FROM 0000	OE TO COUN	0E							
Loop Time Loop Drif				it Rate e Zone:	- 03 9.500		ter #U 561 tion Factor:			MMET 1 2971179	1.		_
GRID NORTH	GR1D EAST	MERCATOR NORTHING	HERCATOR EASTING	METER READING	TIME	ELEVATION (Metres)	OBSTRUED GRAVETY	THEORETICAL GRAVITY *	2 1	2 4	1 17 (ges. 2.67	/cc) 2.0	
BAU	E # 04			2682.16	e -3		079179.53				•		
50000	85000	9	Q	2682,16	0.53	282 35	979190.55	979229 00	23 03	20 28	17.09	19.55	
5000t	84500	v	0	2684.00	e no	273 1.6	226192.41	979228 70	23.02	20 53	12.43	15 24	
50000	84000	. 0	O	2603.00	9 07	275 79	279191 . 48	979228 .57	23.75	20 ,28	17.16	15 56	
50000	83500	0	y	2680 92	°. 12	282 60	979189.31	979228 W	23 ;"7	15 74	16 54	19 00	
50000	83000	9	9	2680.50	0 19	202 33	070108.89	279228 14	23 107	12 47	16.20	14 74	
20000	82500	. (1	0	2677 1.4	9,24	285,43	970108.02	979227 113	23 06	19 47	\$44,24	14 60	
50000	82000	9	0	2677,02	n. 31	294.64	979186. 19	9792 27 72	23 47.	19.76	14.43	14 02	_
50000	81500	(1	. 0	2681 11	9.00	202.20	979(182.51	979227 50	24 06	20 71	17.5 2	15 90	
50000	31000	. 0	0	2682.00	9.45	280,50	9770174.30	979227 29	25 00	22 38	19.20	17 6.T	_
50000	80500	9	0	2693.15	9,1,9	203,00	900191.70	979227 09	27.50	23 %6	28.74	19 20	
50000	80000	0	0	2684 78	2.56	280,20	979193.22	9792 26.86	29 32	24 77	21.61	20 08	
FASI	C. # 04	to an addressed to the segment and the segment	**************************************	2682.12	10.792		97017W, 55				·	·	_
		24/12/01	******	*****	*******	********	*********	*********	******	*****	*****	++++	_
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SURVEYED E		XA EX			·	d						
T'ÖCA LTÜM		NILPINNA	grid Sti	Austra	lia		·	·				
COVERAGE.	LINE S	1000H		FROM esso	10E TO 2000	0E						
Loop Tine Loop Drift				ft Pate me Zone	13 9.500		ter (v 561 tion Factor)		rator P.	ANNET: 29/11/8	1	
GRID NORTH	GRID EASI	MERCATOR NORTHING	MERCATOR EASTING	METER READING	TIME	ELEVATION (Metros)	OBSERVED CRAVITY	THEURETICAL GRAVITY	800G 2.1	UER GRAV 2.4	1TY (gms 2 67	7007 2.8
PASE	04			2682.12	10 :25		979198.55					
50000	8550u	0	0	2685.11	10.3%	269.47	279193,59	979229 . 22	23 (11	20 43	17.30	15.71
50000	86900		U	2695.01	10 40	267.03	979124.30	979229 . 43	23 70	20.42	17.40	15 94
50000	86200		0	2686 %	10.45	261,90	979195.47	979229 54	23 51	20.22	17 26	15 94
50000	87600	U		2686 64	10,52	262,50	977175.17	979229 86	23 23	19 93	16.97	15 57
50000	87500	0	ų	2605.97	10.50	265 31:	279104.51	979230.07	22 57	19 64	16.53	15 17
50000	88000		(1	2686.62	11 64	262 13	929105.17	272230 . 29	22 71	19 41	1.6 45	15 00
50000	88500		U	2695.87	11,89	260 34	979195.24	979230.50	22 16	18 69	15.24	14.50
50000	89000	· ·	Ú	2687,54	44 19	256,50	979196.14	979230.70	22,09	18 78	15 80	1.4 40
50000	89500	9	0	2686.05	11 24	257 70	079195.45	979230 , 93	21,38	19.14	15.23	15 92,
50000	90000	0	(1	2686.71	11 177	254, 92	3"(1115.32	279231 14	20 06	17 63	14.72	13.30
BASE	● 03			2685 71	11.27		777173.32					
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X	SURVEYED LUCATION		SHA ES		-		:J						
		EASE I			 							<u> </u>	
		e 1 78 ft: ~.040			ft Rate: · ie Zone:	02 9.500		ter #G 561 tion factors		erator K.7 te.	29/11/0	1.	
1	GRID NORTH	GRID EAST	MERCATOR NORTHING	MERCATOR EASTING	METER READING	TIME	(metres)	OBSERVED TY EVAND	THEORETICAL GRAVITY	800Gt 2 . 1	JEK GRAY 2 4	1TY (gn: 2.67	2.9
_	li A	SE + 01			2691 32	12.53		979200.00		· · · · · · · · · · · · · · · · · · ·			
	50000	95000	0	0	2685 02	13.20	265.72	979124.67	979233 29	19.29	16 65	1.3 . 64	12.19
_	50000 50000	100000 95000	0	0	2691 26 2686 91.	13.47	249.35	979199.96 979194.68	979235 , 4 4 979233 , 29	20.00	16.39	13.57	12.21
	FIAS	SE # 01	T NOW I HE WAS AND AND AND A CHARLE		2691 20	14.40		9792nu.uu					
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	SURVEYED	FOR C	RA EX	PLORAT	TON F	TV 1 t	ci				·			
	LOCATION		NILPINNA	grid Sti	h Austra	lia								
	TOVERATOR	BASC T	n: 2-3											
_	Loop fine	e: 1.62	Hours	9r 1	ift Rate.	.03	Gravime	ter #6 561	По	erator R.A	INNETT			
	Loop Brit	řt: <u>,050</u>	rigals.	110	ne Zone	9.500		tion Pactor.			29/11/01	l		,
	GRID NORTH	GRID EAST	MERCATOR NORTHING	MERCATOR EASTING	METER READING	TIME	ELEVATION (metres)	DESERVED GRAULTY	THEORETICAL GRAVITY	มดบธ บ 2.1	DER GRAVI 2.4	17 (gms 2.67	2.0	-
	PAS	SE • 02			2686.02	15.07	·	979194.68			·			
	50000	90000	U	. 0	2686, 60	15 , 32	256, 92	979195 33	979231 . 14	20.87	17.64	14.73	13,33	
_	50000	95000	. 0	ij	2695.04	15.56	265.72	979194.67	. 979233 . 29	20.00	16.56	13.65	12.20	_
							25.4	979195 32	979231 .14	20.416		14.72	13.32	
_	20004	90000	(1	(1	2686.49	16.19	256,07	77717332	777251.11	20,116	17 63	14.75		
	HAS	SE ♦ 02			2686.02	15.44		929194.68						_
	HAS	.E ♦ 0S			2686.02	15.44		929194.68	*****					_
	HAS	.E ♦ 0S	******		2686.02	15.44		929194.68						
	HAS	.E ♦ 0S	******		2686.02	15.44		929194.68						
	HAS	.E ♦ 0S	******		2686.02	15.44		929194.68						
-	HAS	.E ♦ 0S	******		2686.02	15.44		929194.68						
	HAS	.E ♦ 0S	******		2686.02	15.44		929194.68						
	HAS	.E ♦ 0S	******		2686.02	15.44		929194.68						
	HAS	.E ♦ 0S	******		2686.02	15.44		929194.68						
	HAS	.E ♦ 0S	******		2686.02	15.44		929194.68						
	HAS	.E ♦ 0S	******		2686.02	15.44		929194.68						
	HAS	.E ♦ 0S	******		2686.02	15.44		929194.68						
	HAS	.E ♦ 0S	******		2686.02	15.44		929194.68						

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SURVEYE,	FUR 43	KA EX	PLORAT	TON P	ty L.t	d						
LUCATION	<u> </u>	ILPINNA	grid St	n Austra	lia							
COVERABLE	BASE TI	1 3-4										
Loop lime Loop Drif				ift Rate ie Zone	02 9.500		ter #5 561 tien Cactor		perator 7.0 ate	01/12/8	1.	
GRID NORTH	GRID EAST	MERCATOR NORTHING	MERCATOR EASTING	METER READING	TIME	ELEUATION (metres)	DRSERVED GRAVITY	THEORETICAL GRAVITY	2006 2.1	JER ORAV 2.4	£TY (gns 2.47	2.0
	E # 03			2687 33	9.45		279195.32	<u></u>				
50000	85000		. 6	2682,40	10 11	282, 45	979190.54	9792291.00	23.02	20 27	17.07	15,54
50000	90000	υ	0	2687.34	10 37	256.77	979195.32	979231 . 1 4	20.86	17.63	14.73	13.33
50000	85000	0	0	2682 60	11.06	282.35	979190.55	979229.00	23.03	2,0 . 28	17.09	15.55
BAS	E # 03			2687 32	11.32		979175.32					
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Data com	puted on	24/12/81			·							
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| HAME • 02 2696.62 13.06 970174 69 Source Scale NTLPINNA grid (3th Australia) LINE V5000E FROM 50000N TO 54000N e: 2.08 Hours Drift Kare04 Gravimeter 16 561 Operator P. AMMET! Ft:091 Mgals Line Zone: 9.500 Calibration Foctor: 1 009 Date: 01/12/01 GRID MERCATUR MERCATOR METER TIME ELEVATION OBSERVED THEORETICAL MOUGUER GRAVITY (MASSEC) EAST NORTHING EASTING READING (Metres) GRAVITY GRAVITY 2.1 2.4 2.67 2.8 95000 0 0 0 2686.62 13 06 979194 68 979233.29 20 01 16 66 13 66 12.29 95000 0 0 0 2686.79 12.11 265 11 979194 06 977233.10 20 15 16 66 13 66 12.29 95000 0 0 0 2686.79 12.11 265 11 979194 06 977233.10 20 15 16 66 13 66 12.29 95000 0 0 0 0 2686.81 13 16 266 82 979194 68 977233.10 20 16 17 10 14 00 12.56 |
|--|---|
| COVERAGE LINE 95000 Control FROM SOUTH STATES Control Color | E: 2.08 Hours Drift Rate 04 Gravimeter 16 561 Operator 1: ANNET! ft:091 Hgals Line Zone: 9.500 Calibration Factor: 1.009 Date: 01/12/81 GRID MERCATUR MERCATOR METER TIML ELEVATION DESCRIVED THEORETICAL MOUGUER CHARTITY (QMS/CC) EAST NORTHLING EASTING READING (Metree) GRAVITY GRAVITY 2.1 2.4 2.67 2.6 SE • 02 2686 62 13.06 979174 68 979233.27 20.01 16.66 13.56 12.21 95000 0 0 2686 67 13.16 265 72 970174 68 979233.10 20.46 17.10 14.00 12.57 95000 0 0 2686 61 13.16 266 82 970174 68 979233.10 20.46 17.10 14.00 12.57 95000 0 0 2686 61 13.16 266 82 970174 68 979233.10 20.46 17.10 14.00 12.57 95000 0 0 2686 61 13.16 266 82 970174 68 979233.10 20.46 17.10 14.00 12.57 95000 0 0 2686 61 13.16 266 82 970174 68 979233.10 20.46 17.10 14.00 12.57 95000 0 0 2686 61 13.16 266 82 970174 68 979233.10 20.46 17.10 14.00 12.57 95000 0 0 2686 61 13.16 266 82 970174 68 979233.10 20.46 17.10 14.00 12.57 95000 0 0 2686 61 13.16 266 82 970174 68 979233.10 20.46 17.10 14.00 12.57 |
| Coop Time 2.09 Hours Drift Kate -04 Gravineter 10.561 Operator 0.000 Olive O | e: 2.09 Hours |
| CRID GRID MERCATOR METER TIME CONTROL CALIDRATION CONTROL | Fr091 Mgals Time Zone: 9,500 Calibration Factor: 1,009 Date: 01/12/81. GRID MERCATUR MERCATOR METER TIME ELEVATION OBSERVED THEORETICAL BOUGUER GRAVITY (UNS/CC) EAST NORTHING EASTING READING (Metree) GRAVITY GRAVITY 2.1 2.4 2.67 2.8 GE • 02 2686.62 13.06 970174.68 979233.29 20.01 16.66 13.66 12.21 95000 0 0 2686.79 13.11 265.11 V70174.86 979233.10 20.46 17.10 14.03 12.65 95000 0 0 2686.61 13.16 266.82 970194.68 979233.10 20.46 17.10 14.03 12.65 95000 0 0 2686.61 13.16 266.82 970194.68 979233.10 20.46 17.10 14.03 12.65 95000 0 0 2686.61 13.16 266.82 970194.68 979233.10 20.46 17.10 14.03 12.65 95000 0 0 2686.61 13.16 266.82 970194.68 979233.10 20.46 17.10 14.03 12.65 95000 0 0 2686.61 13.16 266.82 970194.68 979233.10 20.46 17.10 14.03 12.65 |
| CRID | Fr091 Mgals Time Zone: 9,500 Calibration Factor: 1,009 Date: 01/12/81. GRID MERCATUR MERCATOR METER TIME ELEVATION OBSERVED THEORETICAL BOUGUER GRAVITY (UNS/CC) EAST NORTHING EASTING READING (Metree) GRAVITY GRAVITY 2.1 2.4 2.67 2.8 GE • 02 2686.62 13.06 970174.68 979233.29 20.01 16.66 13.66 12.21 95000 0 0 2686.79 13.11 265.11 V70174.86 979233.10 20.46 17.10 14.03 12.65 95000 0 0 2686.61 13.16 266.82 970194.68 979233.10 20.46 17.10 14.03 12.65 95000 0 0 2686.61 13.16 266.82 970194.68 979233.10 20.46 17.10 14.03 12.65 95000 0 0 2686.61 13.16 266.82 970194.68 979233.10 20.46 17.10 14.03 12.65 95000 0 0 2686.61 13.16 266.82 970194.68 979233.10 20.46 17.10 14.03 12.65 95000 0 0 2686.61 13.16 266.82 970194.68 979233.10 20.46 17.10 14.03 12.65 |
| NORTH EAST NORTHING EASTING READING CHAPTER | EAST NORTHING EASTING READING (Metree) GRAVITY GRAVITY 2.1 2.4 2.67 2.6 SE • 02 2686.62 13.06 970374.68 95000 0 0 2686.52 13.06 265.72 970374.68 979233.29 20.01 16.66 13.66 12.21 95000 0 0 0 2686.79 13.11 265.11 970174.86 979233.10 20.46 17.10 14.03 12.65 95000 0 0 0 2686.64 13.16 266.82 970194.68 979233.10 20.46 17.10 14.03 12.65 |
| HASE | EAST NORTHING EASTING READING (Metree) GRAVITY GRAVITY 2.1 2.4 2.67 2.6 SE • 02 2686.62 13.06 970374.68 95000 0 0 2686.52 13.06 265.72 970374.68 979233.29 20.01 16.66 13.66 12.21 95000 0 0 0 2686.79 13.11 265.11 970174.86 979233.10 20.46 17.10 14.03 12.65 95000 0 0 0 2686.64 13.16 266.82 970194.68 979233.10 20.46 17.10 14.03 12.65 |
| HASE | SE ♦ 02 2686.62 13.06 979174.68 95000 0 0 2686.62 13.06 265.72 970174.68 979233.29 20.01 16.66 13.66 12.21 95000 0 0 2686.79 12.11 265.11 970174.86 979233.10 20.15 16.82 13.62 12.35 95000 0 0 0 2686.61 13.16 266.82 970194.68 979233.00 20.46 17.10 14.00 12.65 |
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| 50200 95000 0 0 2686 79 12.11 265 11 77714 86 977233 19 20 11 16 66 13.66 50400 95000 0 0 2686 61 13.16 266 82 979194 86 979233 89 20.46 17.10 14.00 50600 95000 0 0 2687 18 13.16 266 82 979194 88 979233 89 20.46 17.10 14.00 50800 95000 0 0 2687 18 13.71 265 74 779195 17 977232 97 20.00 17.46 14.49 51200 95000 0 0 2687 31 13.30 266 79 979195 22 979232 76 21.07 13.49 14.49 51200 95000 0 0 2688 31 13.30 266 18 979195 49 979232 76 21.35 16.00 14.49 51400 95000 0 0 2689 89 13.36 266 19 979196 49 979232 65 21.57 18. | 95000 0 0 2686.79 13.11 265.11 970174 86 977233.79 20.01 16.66 13.66 12.21 95000 0 0 2686.61 13.16 266.82 970194.68 979233.00 20.46 17.10 14.03 12.65 |
| S0200 95000 0 0 2686.79 13.11 265.11 777174 06 777233.19 20.01 16.66 13.66 50400 95000 0 0 2686.64 13.16 266.82 979194.68 979233.09 20.46 17.10 14.00 2680 95000 0 0 2687.18 13.76 266.82 979194.68 979233.09 20.46 17.10 14.00 2680 95000 0 0 2687.18 13.71 265.44 779195.17 977232.97 20.00 17.74 14.72 25100 95000 0 0 2687.11 13.71 265.46 0 979195.22 979232.09 21.09 17.74 14.72 25100 95000 0 0 2688.51 13.30 266.18 979195.39 979232.65 21.57 18.37 15.41 25100 95000 0 0 2688.51 13.31 26.26 19.979196.49 977232.65 21.57 18.37 15.41 25100 95000 0 0 2688.51 13.31 26.26 19.979196.49 979232.65 21.57 18.37 15.66 2600 95000 0 0 2688.51 13.31 26.26 19.979196.49 979232.65 21.57 18.37 15.66 2600 95000 0 0 2688.61 13.31 26.26 19.979196.49 979232.65 21.57 18.37 15.66 2600 95000 0 0 2689.67 13.46 2600 24.49 979232.44 22.21 18.93 15.66 2600 95000 0 0 2689.67 13.50 256.50 97019 26.979232.23 22.75 19.24 16.33 2500 95000 0 0 2690.67 13.50 256.50 97019 26.979232.23 22.75 19.24 16.33 25200 95000 0 0 2690.67 13.50 255.50 97019 26.979232.23 22.75 19.24 16.33 25200 95000 0 0 2690.67 14.03 255.50 97019 29.979232.12 23.44 20.23 17.34 25200 95000 0 0 2690.67 14.03 255.50 97019 29.979232.10 23.40 20.23 17.34 25200 95000 0 0 2690.67 14.03 255.00 97019 29.979231.10 24.36 24.17 17.77 253000 95000 0 0 2690.77 14.13 253.40 97019 29.979231.10 24.36 24.17 19.30 253400 95000 0 0 2690.77 14.13 253.40 970200.87 979231.30 25.30 25.00 95000 0 0 2690.77 14.13 255.00 970200.87 979231.30 25.30 25.30 25.30 25.30 25.30 25.30 25.30 25.30 25.30 25.30 25.30 25.30 25.30 25.3 | 95000 0 0 2686.79 13.11 265.11 970174 86 977233.79 20.01 16.66 13.66 12.21 95000 0 0 2686.61 13.16 266.82 970194.68 979233.00 20.46 17.10 14.03 12.65 |
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COVERAGE LINE 95000E FROM 46400N TO 47000N	COLORIDO		SURVEYED (FOR «	SRA 189	el Okas	IT TIT ITTERAL ATA					****	******	*****	*****
COVERAGE. LINE 75066	COVERAGE LINE VS-06E FROM 1/4 JUNE STORY STO								d				*		
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CRID GRID HERCATOR HERCATOR HEIR TIM: ELEVATION UBSERVED HEORETICAL BOUGGER GRAVITY (UBS-CE)	## CRID GRID HERCATUR HERCATUR READING THE ELECATION UBSERVED CRAVITY	_												1	
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	GRID HORTH	GRIO EAST	MERCATUR MORTHING	HERCATOR EASTING	METER READING	TIME	ELEVATION (metres)	OBSERVED GRAVITY	THEORETICAL GRAVITY	2: 1	UER GRAV	177 (gms 2 62	2.9
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	SURVEYED	FÜR (CRA EX	PLORAT	TUN P	'ty 1t	d						*******
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						7.300	Calibra	tion Factor:	1.047	Date:	04/12/01	·	
	GRID NORTH	GRID EAST	MERCATOR NORTHING	MERCATUM EASTING	METER READING	TIME	ELEVATION (Metres)	UBSCRVED GRAVITY	THEORETICA	n. <u>900</u>	GUER GRAVI	TY (gms	2.0
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H	GRID NORTH	GRID EAST	MERCATOR NORTHING	MERCATOR EASTING	METER READING	TIME	ELEVATION (motres)	DUSERVED GRAUITY	THEORETICAL CRAVITY	500G 2 1	UEK GRAL 2.4	2 67	/cc) 2.8	_
	BAS	E # 16			2708,76	12: 36		CATACON OF THE STATE OF THE STA						_
	45000°	90000	0	0	2708.76	12.36	237.88	979780,24						_
-:"	65200	90000	Ü	Ü	2709.14	12 41	236.31	979260.24 979260.64	979223.21	29.50	26.51	23.82	22.53	
	65400	90000	0	. 0	2709.36	12.46	235.43	979200.87	979223.10	29.66	-26.69	24.02	22.73	_
	65600	90000	U	0	2709.42	121, ta21	234.98	279200.93	979222.00	29.08	26.84	24.18	22.90	_
	65000	90000	. 0	0	2709.40	12,59	234,60	979200.91	979222.79	29.94	26.92	24.26	22.98	
	66000	90000	0	0	2708,93	13.01	236, 79	970390.42	979222 60	29.97	27.00	24.33	23.05	_
	66200	90600		<u> </u>	2708.42	13.07	236.71	279199.89	279222.5e	29.97	26.97	24.27	22.97	_
	66400 66600	90000	0	0	2708.21	13 12	239 42	229199.62	979222.47	30.01	27.09	24.29	22.99	
	66800	90000	0	0	2709.30	13.17	238.82	979149.77	979222.36	30.00	27.08	24 38	23.00	_
	67000	90000	0	0	2707,72	13 22	241,18	979199.16	979222.26	30.10	27.07	24 34	23.03	
	07000	70000	0	0	2706,94	13 26	244.31	979198134	979222.15	30,00	27.01	24.24	22.91	_
x		* 16	******	*********	2708.75	13 37		979200,24						_
			24/12/81	· · · · · · · · · · · · · · · · · · ·		*********	*******	********	*******	****	****	*****	****	
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- 1	BOLU	GEU	HYSIC	8 & CC	<u>.</u>					********** 11 () 11 *****	, MAN	BER	22.6 22.6 (*****
9	BURVEYED F	UR (RA EX	PLORAT	ч иот	ty 1t	d						
L	OCAT 100			grid Sti			· · · · · · · · · · · · · · · · · · ·						
€.	OVERĀĞL	LINE U	5000E		FROM 5000	ON TO 5400	ทบห	***					
L	.00p 1140:	2.25	Hours	Dr i	ft Rate:	02	Le altime	ter #G 561				_	
ᆫ	oop Drift	040	Mgals		e Zone	9.500		tion Factor:	1.007 Dat	erator to. Le:	05/12/8	1	
-													
	GRID NORTH	GRID EAST	MERCATOR NORTHING	MERCATOR EASTING	METER READING	TIME.	ELEVATION (metres)	GRAVITY	THEORETICAL		UER_GRAV		
-			A STATE OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF T				(11011.03)	GRHVIII	GRAVITY	2.1	2.4	2.67	2.0
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_	BASE	# 04		-	2692 15	14.11		979190 55					
_	50000	85000	0	0	2682.15	14 11	282 35	979190.55	979229 00	23.93	20 28	17 09	15.55
	50200 50400	85000 85000	0	0	2682 125 2681 53	14 17 14 22	281 44 283 99	977170 65	977220 89	23 t4	20 30	17 12	15 50
	50600	85000	- U	()	2682 . 29	14 31	280 47	979189.93 979190 89	979228.79 779228-60	23 76 23 88	20 19 20 35	16.78 	15 43 - 15 65
	50800 51000	85000 85000	0	6	2682 13 2681 13	14 35	200 28	979190.54	9 79228 58	23 79	20 26	17 89	15.56
	51200	85000	o ·	e	2681 29	14 45	284 12 282 66	777187 53 977189 69	777228 47 979228 37	23 73 23 67	- 20 16 - 20 11	16 94 16 91	15 40 15 37
	51400 51600	85000 85000	0 · ·	0	2682 47	14 50	276 77	975170.70	979220 26	- 23 76 -	20 22	12.60	15 Su
	51800	85000			2681 99 2682 112	14.55	278 48 277 67	977170.40	979228.15 	23 69 23 64	20.10	17 02 17 00	15 51
	52000 52200	85000	0	0	2681 51	15 05	279 45	979189 92	979227 94	23 62	20 11	16.75	15 40 15 40
	52200 52400	85000 85000	0	0	2680 53 2679 05	15.10 15.15	283 32 289 03	977108 93	777227 84	23 57	20.03	16 83	15.20
	52600	82000	. 0		2679 75	15 230	285.02	979197.44 779188.15	979227 73 979227 63	23 42 23 57	19 93 19 98	16.56	14 99
	52800 53000	85000 85000	0	U	2679 69	15,28	284 98	974188.09	979227 52	23.41	19 83	16 61	15 04
	53200	85000	0	0	2679 54 2681 64	15.33 15.40	284.67 274.40	777187 94 979190.06	777227 41 979227 31	23.32	19 83	16 73	- 24 - 95 -
	53400 53600	85000 85000	0		2682.16	15 45	271 40	7:01:0 57	777227 20	23.25 - 23.25	17.03	10 3 16 77 -	15 23 15 20
~-~	_23600	82000		0	2682.72 2682.73	15 51 15 56	267 81 267 13	979191.15 -97~170.68	979227 10	23.13	19.22	16 74	15.20
	54000	85000	0	0	2682,27	16.01	268,49	979190 70	979226 do	23.86 23.09	19.69 19.67	16.63	15.16 15.17
	BASE	# 04			2682.11	16 .3%		970100 55					
-	*****												
_	***********	*****	********	*********	*******	********	*******	******	****	*****	*****	*****	*****
1	Data compu	ited on	24/12/61										
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			- HYBIC	27 - (21 - 1 <i>2</i> 1	f. 					L. CICIF ******	******		ジン: ******
_	SURVEYED	FUR (CRA EX	PLOKAI	TON P	ty 1+	d						
	FOCATION	•	NILPINNA	grid 311	1 Austra	lia							
	COVERÁGE	LINE	550 00E		FROM 5400	<u>, , , , , , , , , , , , , , , , , , , </u>	ท						
									•				
	Loop Tine Loop Drif				ft Rate e Zone:	00 9.500		ter #G Sai	1.009 Date	rator R.	ANNETT 06/12/8:		
										· · · · · · · · · · · · · · · · · · ·	00, 12,70		
	GRID NORTH	GRID EAST	MERCATOR NORTHING	MERCATUR EASTING	METER READING	TIME	ELEVATION (metros)	UBSERVED GRAVLIY	THEORETICAL GRAVITY	800G 2 1	DER GRAVI	117 tqms. 2.67	2.8
_													
	PASI	E * 17			2682 25	10.07		979120.70					
_	54000 54200	85000 85000	0	0	2682 85	10.07	260.47	979190.70	979226 Bu	23.04	19.67	16.63	15 16
_	54400	85000	Ŏ	ő	2682 40 2682 09	10.16	267.60 268.75	975176 85 979190.54	977226 70 977226 67	23.10 23.15	19.77	16.71 16.73	15 25
	54600 54800	85000 85000	0	0	2601 74 2682 29	10 27 10 31	270 : 01 267 : 23	777170 19 977190.74	777226 57	23.18		16.73	- 1 S E6
	55000 55200	85000	0	0	5685 03	10 36	264 73	777171 29	979226 46 97 9226 36	23,23 23,33	19 07 20 09 -	16.85	15 39
-	-55400	85 000 85000	0	0	2682 54 2683 27	10 41	265.71 262.57	979191.00	979226 25	23.36	20.62	17 01	15 56
	\$5600 \$5800	85000	0	0	2683 07	10 50	263 58	979191-73 979191-53	979226 14 - 979226 04	- 23 53 - 23 68	- 20 23 - 20 30	17.26 17.32	15 89
	55800 56000	85000 85000	0	0	2682 09 2682 78	10 56 10 59	264.57	777171 34	777225 93		20 44	17 45	14 (1)
	56200	B5000		0	2683 51	11 76	565 55	979191.24 979191.98	979225 U3 779225 V2	23 66 24 16	20.55 - 20.66 -	17 55 17 83	16 10
	56400 56600	85000 85000		0	2682 91 2683 10	11 10	264.73	979191,37	979225 62	24 15	20.02	17 93	16.39
	56800	85000	ŏ	ő	2682 21	11 14 11 18	264 36 268 45	977171.56 - 979198.67	979225 51 979225 40	24 48 24 48	21 04 - 21 10	10 05 18 07	16.63
	57000 57200	85000 85000	0	0	2682 57	11	266.72	****1 v1 . 05	979225 34	24 50	21 10	18 07 -18 21 -	16 60 16 76
	57400	82000		<u>0</u>	2683 61 2684 12	11 26	262.56	977172.08 -777172.57 -	979225 19	24.00	24.50	18 53	17 10
٠.	57600 57800	85000	0	U	2683.34	11.39	264 10	979191.81	779225 H7 779224 76	- 25 #3 - 25 #8	21.76	18.77	17 30 17 34
	58000	85000 85000	0	0	2683.32 2684.28	11.46	284.70	777171.79	777224 86	25.30	£1 0:-	10.40	17 54
_		+ 17			2682.24		260 71	979192.69	979224 77	25 44	22.16	19,21	17.79
_						12.11		979190.70					
	*****	*****	******	*****	********	*******	********	*****	*******	******	*****	******	****
_	Data comp	uted on	24/12/81										
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CHANGE			S & Lit						********* 1*.* *******	HUN 9	野鹿食	:2 t3
SURVEYED			PLOKAT			d	١					
LUCA'T LUM	السب سنن	NILPINNA	grid St	Austra	lia							
COVERAGE	LINETS	nu00E'		FROM SOOO	ON TO 4620	UN						
			Paris de la companya					· · · · · · · · · · · · · · · · · · ·			- 	
Loop Thine			Dr i	ft Rate.	01	Gravine	ter 40 037			****		
Loop Drif	rt:021	Mgals	1.14	e Zone:	9.500	Calibra	tion factor:	1_047 Da	erator n. te:	06/12/8	1	
GRID	GRID	MERCATON										
NORTH	EAST	MERCATOR NORTHING	MERCATUR EASTING	METER READING	TIM:	ELEVATION (metres)	OBSERVED GRAVITY	THEORETICAL GRAVITY	800G 2.1	UER GRAV 2.4	ITY (gms 2.67	2.8
BAS	E + 03			2704.07	9.48		979195.32					
50000	90000	n	A									
49800	90000	0		2704 07 2703 72	9,48 9,54	256.97 252.43	979195.32	979231.14	20.06	17.63	14 72	13.3
49600 49400	90000	0	Ů	2703 93	7.54 7.50	257 43 257 56	777175.16 979195.18	977231,25 979231,36	20.70 20.63	17.46	14.55	13.1
49400 49200	90000 90000	0	Ū Q	2704 30	10 94	256.25	979175.56	777231.46	20.63	17.40	14 48	13.00
49000	70000	0	· - 0	2703 % 2703 99	10 09	259.37	979195.21	979231.57	20.63	17.39	14 46	13.0
48800	90000	0	Ő,	2704 U4	10 13	258.00 259 14	979195.24 979195.29	777231.67	20.65	17 49	14 47	13.0
48600 48400	90000	1	0	2704 04	10.74	280 14	777175.29 777175.29	979231.78 979231.89	20.60	17 42 17 52	14.47 14.58	13.0
48200	90000	0	0	2704 67	10.28	258.38	979155.96	979231 . 79	20.26	17.71	14 79	13.14
40000	90000	0	U O	2704 77 2705 01	10 36	257 44 259 94	977176.08	777232.10	21.21	17 75	15 02	13.5
4780u	90000	0	<u> </u>	2704 72	10.42	262 31	979196.31	979232.20	21 '4'5	18 18	15.24	13 8
47600 47400	90000 90000	0	Ů	2704.79	10.52	264 71	979196.22	779232.31 979232.42	21 77	18 73	15 31	3 9 : 01
47200	90000	0	0	2704 54	10 57	267,47	777175.82	777232.52	22 30 22 30	10 73 18 94	15.74 15.91	14.30
47000	90000		<u></u>	2704 71 2704 54	11.03	267.00	979196.00	979232 63	22.42	19.10	16.07	14 61
46000	90000	Õ	ŏ	2704 60	11 15	270 22 271.74	777175.83 979195.89	777232 73 979232 84	22.70	19 30	16 24	14.75
466(II) 4640(I	90000	0	0	2705 110	11 19	271.76	979176.31	777232 84	22,99 - 23,36	19.58 19.94	16.50	15.02
46200	90000 90000	0	0	2704 87	11 26	274.18	979196.17	979233.05	23 60	20.16	16 86 17.05	15.56
		U	U	2703 94	11 31	277.83	974175 20	979233.16-	23.79	20.25	1780	15.50
BACE	E # 03			2704.05	11.50		777173.32	·				

2	SURVETE	FOR (KA LX	PLOKA	CTON .					K., C.) (.)	**************************************	** T * T * * * * * * * * * * * * * * *	4.4	
	LUCATION		NLLPINNA				r d							
	COVERAGE	EINE H										···		
:-					FROM SOO	00N TO 628	אסט							
	Loop Fin	e. 1.67 ft:061	Hours	ne ne	ift Rate	~.03						 -		
			rigals	LŦ	Me Zone	9.500	Calibr	eter #0 561 ation Factor:	4 44 6 6	Derator R	ANNETT			
HH	GRID	GRID	MERCATOR	MERCATOR							07/12/0	31		_
14	NORTH	EAST	NORTHING	EASTING	METER READING	TIME	(netres)	UBSERVED GRAUTTY	THEORETICAL	9000 2.1	CUER GRAN			·-
_			· · · · · · · · · · · · · · · · · · ·						The sip and should be self the second section of the section	- L	2.4	2.67	2.8	
	58000	85000			2684.28	6 .47		975172.70						
-	58200 58400	85000 85000	0	0	2684 29 2684 27	6 37	269.71	979192.70	979224.77	25.44	22.16			
-	58600	85000	0	0	2684,42	6 45	260.33	979192.91 979192.85	977284.66	25.53	- 22.26	19.21 19.31	17.79	
	58800 59000	85000 85000	0	õ	2683 91 2683 85	6 40 6 51	262.37 262.35	777172.33	979224.56 979224.45	25.71 25.81	22.44 - 22.58 -	19.49 19.53	18.08	
	59200	85000	0 -	0	2684 55	6.173	257.13	979192.27 979192.99	979224.35 979224.24	25.80	22 50	19.53	18.10	_
	59400 59600	85000 85000			2683 .87 2683 .75	6.58 7.92	261.81	979192.30	979224 . 1.4	25.92	- 22 65 - 22 62	19 9 <u>8</u> 19 66	10.31	7
	59800	85000	- 0	- 0	2682.63 2682.76	7 06	266 72	977172.18 979191.05	979224.63 979223.92	25.98 -	22 69 -	19 72	18.23 18.25	{_
	60000 60200	85000 85000	0	Ú	2683 13	7.13	265 17 264 16	- 777171-37 -	777223.02	25.96 26.99	22.61 - 22.73	19.59	18.14	
	60400 60600	85000	Ű	0	2683 95 2684 45	7.17	260.44	979191.56 777172.39	979223.71 779223.61	26.12	22 80	19.81	18.37	
	60800	85000 85000	0		2584.74	7.21	250.02 256.76	979192.90 979193.19	979223.50	26 23 - 26,31	- 22 ?6 - 23.07	- 20.01 - 20.15	18.50 18.74	
	61200	85000		0	2685.52 2685.57	7.29	253,27	979193.98	979223 4# 979223 29	26 : 43	23.20	-56 :36 -	10.74 -18.9 4_	
IJ	61400	85000 85000	0	0	2686.02	7.33	251.86 251.49	777174.43 979194.49	777223 18	26.56 - 26.76 -	23.37 23.69	20.51 20.75	19.13 	
	61600	85000	0	0	2686, 49	7.40	249.31		979223.08 979222.99	26.09 	23.72	20.88	19.51	
	61900 62000	85000 85000	0		2687.17	7.43	247 55 247 57	979195.47	979222.87	27.21	- 23.91 24.10	- 21.09 - - 21.29	-19.73 -	-0
	62200	85000		0	2688, 39 2688, 39	<u> 2.5</u> 0	244.08	979195.65 979196.27	979222:76 979222:66	27.46	24 35	21.55	19.95 -20.28 -	_"
	62400 62600	85000 85000	0	Ű	2688.54	7.5 4 7.57	242 63 242 65	977176.80	777222.55	27.63 27.86	24.55 - 24.61 -	21.78 - 22.86 -	20.45	ľ
	62800	85000	0	() U	2698 50 2698 52	8.01	242.76	979197.04 979197.01	979222.44	27.79	24.95	22.21	20.89	
	HASE	# 18				8.66	242.70	979197.02	979222.23	28.35	25.17	22.42 22.55	21 10 21 22	⊣;
*			****		2684 22	B.22		979192.70						-
	Data com	uted as	7.4.4.0.4m	*****	******	*****	*****	****	********	*****	****			_ •
	va comp	0.40 00	24/12/81										****	5 5
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	SOLU	GE UF	HYSILS	3 <u>4 ((</u>	2					********* 1 (.) () () *******	MUN .	BER	75.0	,
	SURVEYED F	0k (RA EXI	PLORAT	TON P	キターにキ	c							
	LOCATION		ILPINNA	grid St	h Austra	lia	· · · · · · · · · · · · · · · · · · ·							
	COVERACI .	CINE 8	5000E		FROM 6290	ON TO 6580	ีย ท ี	····	,					_
_					77.									
_	Loop Time Loop Drift				ift Rate. ne Zone:	0.00 9.500		ter 40 561 tion Factor:		erator R. te:	ANNETT 07/12/8	1		
_	GRID	GRID	MERCATUR	MERCATOR	METER	TIME	ELEVATION	OBSURVED	THEURETICAL		UER GRAV			
	NORTH	EAST	NORTHING	EASTING	READING		(Metres)	GRAVITY	GRAVITY	2.1	2.4	2.67	2.8	_
	Base	# 19			2688.50	8 50		979127.02						_
	62800	85000	0	U	2689 50	0.50	242.28	979197.02	979222 23	28.34	25 29	22 54	21.22	
	63200	85000 85000	U U	() 0	2689 90 2689 13	8,55 8,59	241.51 240.12	979197 32 979197.66	979222 13 979222 02	28:47 20:60	25 45 25 58	22 72 22 07	21.40 21.56	_
	63400 63700	85000 85000	0	0	2689 23 2689 48	9 03 9 00	237.02	977177,76 977198,01	979221 92 979221 76	28.74 28.92	25.72	23 61	21.71	-
	63800 64000	85000 05000	U	0	2689 49	2 11	238.55	979178 02	979221 70	टश एव	25 94	23 24	21.94	_
-	64200	85000		<u>ō</u>	2689.55 2689.71	9 16	238 99 237 56	979198 08 270198 24	979221.60 979221.47	29 10 29 11	26.10 26.12	23 40 23 44	22.10 22.14	
	54400 54600	85000 85000	0	0	2689 56 2689 32	9,23	237 56 238 72	279198.19 279127 05	979221 39 777221 20	27 20	26 22 26 22	23 53 23 58	22.24 22.22	_
	64800	85000	Ü	0	2689 09	9.31	239 51	979197.62	979221.18	29 27	26.26	23 55	22.24	
	65000 65200	85000 85000	U 0	A Ú	2688 00 2688 00	7.34 9.36	242. 19 244. 25	979196 90 979196 52	979221 07 979220 97	29.32 29.43	26.27	23.53 23.59	22,20 22,26	_
•	65400 65600	85000			2607 30	7 41	246.35	977175 87	777220.80	27.37	- 26.20 -	- 23 49 -	22.15	_
	65800	85000 85000	<u> </u>	0	2687 48 2687 45	9.46	246.12	979195.99 975175.76	979220.75 777220.85	29,53 27,56	26.43 26.48	23 65	22.31	
	BASE	19	1 - 1 - 1 - 1 - 1 - 1 - 1	,	2688 50	10.06		979197.02						_
	*******	*******	*******	****	******	******	*******	*******	*************	*****	*****	*****	*****	_
-	Data comp	uted on	24/12/01											_
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SOLU	GE, U	HYBLL	a v	1					********* ********	MUM	BER	.5.1 *****
SURVEYED	FOR (RA EX	PLOKAT	4 MUT	ty 1 t	c1						
LOUATION		NILPINNA	grid Sti	n Austra	lia						<u> </u>	
COVERAGE	LINE 0	50 00E		FROM 6500	<u> </u>	ON					-,	
Loop Time		Hours Mgals		ft Rate e Zone:	.01 9.500		ter #G Sai tion Cactor:			AMMETT 07/12/81		
GR1D NORTH	GRID EAST	MERCATOR NORTHING	MERCATUR EASTING	METER READING	TIMI.	ECEVATION (metros)	OUSERVED GRAVITY	THEORETICAL GRAVITY	800G(2.1	JEK GKAVI 2.4	TY (gms. 2.67	2.8
HAS	E # 20			2687 (9	10 52		979195.96					
65000	85000	0	0	2607 50	10 52	246.00	279195.96	979220.65	29.50	26.40	23.70	22.36
66000	85000	Ü	U	2687 42	10 %6	246,72	977175.88	779220.54	29 65	26.55	23.77	22.4
66200	85000	. 0	. <u>U</u>	2687 34	11 00	246.72	979195.80	979220 . 44	29 78	26.68	23.89	22.51
66400	85000	0	0	2687 37	11 95	247.07	979195.75	979220.33	29 76	26.85	24.05	22 70
_66600	85000	0	0	2687 68	11 08	245.57	979196.08	979220 . 23	30 02	26 93	24 16	22 62
66800	85000		U	2688) .	11 11	242,93	977196 63	979220.12	30 1.9	27.04	24 30	22,95
67000	85000	0		2688 64	11 15	239.83	929197 31	979220.02	30 20	27 10	24 47	23 16
67200	85000	<u> </u>	()	2688 92	11.18	232.12	979197.39	979219 91	30.24	27 23	24 53	23.22
67400	85000	0		2680 05	11,711	239.06	979197.32	979219 80	30.29	27 24	24 53	23 23
67600	85000	U		2680 93	11.214	238.51	979197.40	979219 70	30.31	27 31	24 61	23.31
67890	85000	0	IJ	2688 97	11.197	230,21	979197.33	979219.59	30.29	27.29	24.50	23.30
5800v	85000	U	Ü	2688 (1)	11 30	238.77	979197.27	979219 . 49	30.35	27 35	24 65	23.36
	€ ♦ 20			2687.51	11.44		777173. 76					
		24/12/81	*****	**************************************		******	******	*****	******	****	*****	*****

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ij	SURVEYED F	OR C	RA EX	PLORAT	TUN P	ty Lite	.1					
L	LOCATION		11LPINNA	grid 5th	Austra	lia						
C.	COVERÁĞE	LINE VO	D'Ú G O'E		FROM 4620	UN TO 42288 1	JN .		4-3-10-			
									<u></u>			
	Loop Time: Loop Drift				ft Rate. e Zone.	04 9.500		ion Factor:	•	07/12/8	1	
										BUILDER GRAV		
	GRID NORTH	GRID EAST	MERCATOR NORTHING	MERCATOR EASTING	METER READING	TIME	ELEVATION (Metros)	CRAVITY	THEORETICAL GRAVITY	2.1 2.4	2.67	2.0
_								00001000				
_	BASE	* 21			2703 76	6 47		979195.20				
_	46200	90000	. 0	1)	2703 %5 2703 73	6 : 417 6 : 52	279.03	977174.76	979233.16 779233.26	23.77 20.25 - 23.76 20.41	17.08	15.56 15.60
	45000 45800	90000 90000	e	ű	2703 50	6.56	283 71	979194.83	979233.37 979233.48	24 09 20.52 24.20 20.59	17.30	15 76
	45600 45400	90000 90000	0	0	2703 15 2702 97	7. UL 7. US	287 91 287 53	979194 17	979233.50	24.46 20.82	17 54	15.97
•	45200	9000U	U	0	2704 19 2705 08	7 11 7 15	286 78 284, 43	979175 46 979196 3 9	979233 67 979233 79	24 72 21:32 25 34 21:76	18 00 18 54	16 52 16 99
	45000 44800	90000	<u>"</u>	<u>0</u>	2705 36	7 29	285 46	977176.69	979233 90 979234 01	25 76 22 17 26 15 22 56	18.94 19.34	17.79
	44400 44400	90000 90000	0 U	0	2705 73 2706 62	7 25	284 79 283 66	979197.29 979198.01	979234 11	26 47 - 22 71	19 70	10-15
	44200	90000	0	ë	2708 26 2708 86	7 34	277 98 275 67	979199.73 979290.36	979234 22 979234 32	26 03 23 34 - 26 35 23 30	20 19 20 20	18 68 18 76
	44000 43800	90000 90000	ű	U U	2709 15	27. 432	274 59	979200.71	979234 43	26 95 23.40 26 02 23.39	20 29 20 30	18 80
	43600 43400	90000 90000	0	0	2709 58 2710 04	7 47 7 55	273 117 271 114	977201 12 979201.61	979234 54 979234 64	26 91 23.49	20 42	18.94
	43200	90000		- 0	2710:10 2711 41	U 66	272 94 266 85	979201 66 979203.05	979234 75 979234 US	26:74 23 52 27:86 23 71	20.65	18 76 19 24
	43000 42800	9000 0	<u>0</u>		2711.36	B . 1.0	267 32	- 970203-00	979234 90	27 11 23 65 26 95 23 52	20 62 20 52	19.07
	42600 42400	90000	<u>0</u>	0	2711.76 2711.73	8 15 8 17	265.16 265.74	977203.42 777203.60	97 9 235 07 779235 17	26 66 23 34	20.35	18 71
	42200	90000	ő	0	2711.86	8 24	263 .59	979203.53	979235 28	26.40 23 09	20 10	18 57
	BASE	\$ 21			2703 09	ध ५८		979195 20		<u> </u>		
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		**** **** *** *** ********			······································							
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	solu	GEU	PHYSIC:	8 <u>& C</u> U						**************************************	1 ES EL PC	15.13	
1	SURVEYED F	אטי (CRA EX	PLORAT	TON P	τ ν Ιτ	r s			· ·			\neg
1	LÜCATTUR		NILPINNA										#
<u> </u>	COVERAGI, :	LINE	7000 0E		FROM 4220	טפעב פר אפ	и					-	
		***************************************							1. The variable of the variabl				-
-	Loop Time				ft Rate e Zone	02 9.500		ter vu 037 tion Cactor:		perator 0.3LAVIA ate: 07/12/	81		
I	GRID NORTH	CRID EAST	MERCATOR NORTHING	MERCATOR EASTING	METER READING	TIMI:	ELEVATION (metros)	OBSERVED GRAVITY	THEORETICAL GRAVITY	800 6UER GRA 2.1 2.4	VITY (gms 2.6?	/cc) 2.8	1
	BASE	E • 22			2711 :60	9.34		979203 52					2
	42200 42000	90000	0	t)	2711 98 2712 36	9.34 9.48	263 59 260 96	979203.52 979204.02	979235 20 979235 30	26 37 23.87 26 10 22.79	20.09	18.65 	2
1	41800 41600	90000 90000	· 0	0	2712 11	9 44 7 30	261 39	979203.76 979203.75	979235 49 979235 60	25 93 22 65 25 59 22 33		19.26	2
	41400	90000	ŏ	ő	2712.03	9.52	260 21	979203.68	979235 70	25 38 22.11	19 16	17.75	1
	41200 41000	90000 90000	0	0	2711 54 2710 74	9 56 10 00	261 35 264 30	979203 17 979202:33	977235 61 977235 91	25 01 21 73 24 72 21 40		17 35 15 97	AN
	40800	90000		0	2709 90 2709 58	10 04	267 776	777201 54	979236 02 979236 13	24.47 21,11 24.23 20.65	18.09	16:63	
: !	40400	90000	0		2710 12	10 06	268 53 265 60	979201.12 979201.69	977236 13 977236 23	24 25 20 85 24 85 20 72	1	16 35 16 87	!
;	40200	90000	0	0	2710 46 2710 70	10 16	263 80 262 90	979202.04 979202.30	779236 34 779236 44	23 90 20 59 23 84 26 54	17.57	16 16	
	39800	90000	Ü	Ō	2711 21	10 24	260 88	979202.83	979236.55	23 83 20 59	17 50	16 17	. 3
;	39600 39400	90000 90000	0	0	2711 17 2711 03	10.34	261 54 262 78	979202 79 979202,64	977236 66 977236 76	23 93 20 54 23 89 20 54	- 17 58 17 57	16.15 16.14	;
\vdash	39200	90000	0		2711 01	10 30	263 56	777202 62	979236 6°	23 07 20 50	17 69-	16-16-	
. N	39000 38800	90000 70000	0	0	2710 42 2710 11	10 42	267.10	979202.01 979201.60	979236 90 979237 00	23 95 20 59 24 06 20 69		16 12 16 15	:
	38600	90000	Ö	0	2710 16	10 91	270 56	979201.74	979237 19	24.23 20.83	17 77	16 30	
2	38400 38200	90000 90000	0		2710 01 2711 51	10.55	267 12 267 66	979202 42 979203 15	979237 29 979237 40	24 49 21 11 24 80 21 43	10 40	16.60 16.94	
	38000	70000	8	0	2712 30	11.03	265.06	9792113 90	979237 : 51	<u>25 12 21 70</u>	18 77	47.32	
<u>:</u>	37800	90000	O U	O	2713 64	11 00	261 66 257 20	979205.39	979237 61 779237 72	25.47 22.20 25.67 22.61	19 24	17 82 18 27	•
;	37400	90000	Ü	Ú	2715.42	11 17	257 64	979207.25	979237 82	26.26 23 02	20.11	18 70	
1	37200	90000	0	0	2716.12	11 21	250 114	~ 9***2:17:49 ~		26.65 23 42	20.58	19 12	-
<u>'</u>	BASI	€ # 22			2711 85	11 39		279203 52		 			
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4	Data comp	ovted or	24/12/81										- 12 s
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301.4	<u>GEU</u>	HYSLC	ti A CL	<u> </u>					LOG	********* -	移植材	****** 15-41 *****	
SURVEYE.	D FUK (CKA EX	PLORAT	TON P	Ty 1t	cd .							_
LOCAT LO	<u></u>	HILPINNA	grid Sti	n Austra	a.t.l.								
COVERAGI	C: LINE 9	OVOUE		FROM 3220	10N TO 32110	n N							_
									-				
Loop Tra	ne 1.98	Hours	. Dri	ft Rate	. 04	Gravias	ter #6 037		perator n	*** n++			
Loop Dr	ift: . 07.3	Mgals	Tie	ne Zone:	9.500		tion Factor:		ate:	07/12/9	1		
GRID	GRID	MERCATOR	MERCATOR	HETER	TIME	ELEVATION	DESCROED	THEORETICAL					
NORTH	EAST	NORTHING	EASTING	READING		(metres)	GRAVITY	GRAVITY	2.1	EUER GRAV	2.67	2.8	
								* ************************************	 				_
84	98E # 23			2716 12	12.35		979287.98						_
37200	90000	U	U	2716 12	12 35	256.54	979207.98	979237.93	26.64	23 41	20 51	19.11	
37000 36800	90000 90000	0	0	2716.67 2717 49	12.37 12.43	255 00 253.61	979208 55 979209.41	777238.04 979238.14	28 77	23 79	20.07	19 4C	,
3660U 36400	90000 90000	0	0	2716 77	12 47	257.10	979203 88	977238.25	27 21 27 33	24.02	21 15 21 21	19.77 19.61	
36200	90000	v	0	2717.31	12.51	252.07 258 47	979209.22	979238.35	27 57	24 34	21 43	20 03	
36000	90000	ő	Û	2716 92	12 58	258 47	979209 05 979208.80	979238 46 979238 52	27 61 27 61	24 36 24 34	21 43 21 40	20 92 19 98	-
35800 35600	90000 90000		0	2716 76	13 03	261 38	9772118 63 -	777238 67	27 62	24 33	21.40	19 95	
3540u	90000 90000	. 0	. 0	2716 67 2716 78	13 06	262 41	979208.54	979238.78	27 64	24.34	21.37	19 24	
35200	90000	ë	. 0	2716 61	13 10	262.60 264.31	979200.65 979208,47	779238 89 979238,99	27 69 27 70	24.39 24.46	21 42	20 03	
35000 34800	90000 ~	Ü	0	2717 94	13 17	263 39	779298.92	777237 19	27 72	24 61	- 21 63	20 15	
34600	90000 90000		0	2716 80	13.20	265 60	979208.66	979239,20	28 07	24 73	21 72	20.27	
34400	90000	Ú	0	2717 07 2717 04	13.24 13.29	265.73 267.37	979298 94 979208 91	979239 31 -	28 25	24.91	21 70	20 46	
34200	90000		0	2716 79	13 33	270 11	777208.71 777208.59	979239 . 42 779239 . 32	28 47	25 11 - 25 26	22 09 22 20	20.63 20.73	
34000 33800	90000	U	0	2716 94	13 36	270 39	979208.80	979239 63	28.82	25.42	22 36	20 00	
33600	90000	0	0	2717 70 2718 68	13 40 13 43	267 45 264 57	977299 80	979239 74	24 95	25 70	- 22 . 68 -	51 53	
33400	90000		0	2719 51	13 48	264.57	979210.62 979211.49	979239 84 779239 95	29 15 29 20	25.83	22 94 21 93	21 40 21 60	
33200	90000	0	Ü	2719 72	13 52	261 37	979211.70	979240.05	29.30	26.02	23 06	21.64	
33000 32800	90000 90000	0	0	2717.55	13.56	262 36	979211 52	777248 16	29 10	- 25 90 -	23 01	- <u>21, 59</u>	
32600	90000			2719.75 2720.23	14 00 14.95	262 50 261 U3	979211.73	979240 27	29,32	26.07	23.10	21.67	
32400	90000	Ü	ő	2720 99	14 08	258 50	977212.23 979213.02	777240 3 · · · · · · · · · · · · · · · · · ·	29.57	26 16 - 26.32	23 20 - 23 39	21.70 21.70	
32200 32000	90000	Ū	0	2721 . 65	14 13	256 70	777213.71	777240 50 777240 50	29.75	26.52 26.52	53 65 53 37	21.70 22.22	
	90000	0	. 0	2722.11	14.18	255 78	979214.19	979240 . 69	29.02	26.71	23.81	22.40	
·	SE # 23			2716.19	14.34	····	977297.98						
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	nputed on	24/12/81				,							_
													
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L	BOLO	<u> ខារក</u> ា	rHYS1C	# & G	<u>)</u>					L O t	********** **********	13世代	1.5 %	
. 41	SUKVEYED	FOR (URA EX	PLORAT	TON P	ty 1_t	d							
ď	" rocal tok		NILPINNA	grid St	h, Austra	lia				·····				
	COVERAGE	LINE	15000E		FROM SOOC	10N TO 4500	ON							
	Loop Time	2.13	Hours		ift Rate.	01								
	Loop Dri	ft: .026	Mgals		ne Zone:	9.500		ter #U 561 tion Factor:	1.009	Operator (Date:	10/12/9	1		-
H	GRID	CRID EAST	MERCATOR	MERCATOR	METER	TIME	ELEVATION	OBSERVED	THEORETICA	1 1111	JGUER GRAV			
			NORTHING	EASTING	READING		(metres)	GRAVITY	CRAVITY	2.3		2.67	2.8	
	BAS	SE ♦ 04			2692.13	11.02		979170.55						
	50000 49800	85000 85000	0 0	0	2682.13 2684.10	11.02	282.35	979190.55	979229.00			17 09	15.55	
-	49600 49400	85000 85000	0	0	2684.40	11.14	273 43	979192.54 979192.84	979229 . 1 1 979229 . 21	23 94	20 50	17.40 17.41	15.92	
	49200 49000	85000 85000	- 0	0	2685 97 2686 22	11.25	270 76 268 01	979173.67 979194.42	979229 . 32 979229 . 42	24 11		17 61 17 71	16.14 16.25	
	48800 48600	95000 95000	0	0	2686 37	11 39 11 34	267 47 267 29	979174.67 979194.82	779229 .53 979229 .64			17 75	16 29	_
	48400	85000	0	0	2685 20 2685 63	11 30	267 71	977174.65 979194.07	779229.74	24-01	20 64	17 61	16 30 16 15	
	48200 48000	85000°	0	0	2685.37	11 51	270 66	779194,07 779193,81	979229 , 85 779229 , 95			17 31	15.84	
_	47800	850.00	·		2684 98 2685 55	11.55	271 49 269 51	979193.42 - 979193.99	979230.06 979230.19		19 83	16.76	15.28	
	47600 47400	95000 95000	0	· · · · · · · · · · · · · · · · · · ·	2685 75	12.04	266 69	979194.19	979230,27	22 75		16 38	15.20 14.92	
	47200	85000	ő	Ű	2684 77 2683 85	12.13	278 86 274 44	979173 22 - 979192 27	979230 38		49.49	16 12	14 65	_
	47000 46800	85000 85000	0	0	2683 40	12:17	275 75	777171.02	979230 . 40 979230 . 59	22.33 22.10		15 77 -15 51	14.20	
_	46600	<u>82000</u>	<u></u>	0	2683.26 2682.75	12.30	277 88	979191.68	979230.69	22.10	18.61	15.48	13.97	
	46400 46200	95000 85000	0	0	2683.08	12.35	276 78	979171 36 979171 49	977230 : 8n 979230 : 91	21.77 21.64		15.03	13 65	
	46000	85000	e	0	2683.37 2683.83	12.37	274,77 272,57	979191.59	977231 : 01	21.43	17.02	14 86	13.52 13.36	
	Bast	E ♦ 04			2682.15	13.10	4/2.3/	979192.25 979190.55	979231.12	21.26	17.83	14.74	13.26	
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LINE 8 1 . 83 1 : . 131 GRID EAST E # 24 85000 85000 85000	NILPINNA S000E		h Austra		UN Gravine Calibra ELEVATION (Metres)	ter 4U S&1 tion Factor: UDSERVED CRAVITY	1 009 Date THEORETICAL GRAVITY		ANNET1 10/12/0 UER GRAV 2.4	ITY (gms	700)
LINE 8 1.83 1.131 GRID EAST E # 24 85000 85000 85000	Hours Mgals HERCATOR NORTHING	Dr fi	FROM 4600 ift Rate me Zone METER READING	00N TO 4200	Gravine Calibra ELEVATION (Metres)	DDSERVED CRAVITY	1.009 Date	a :	10/12/0	ITY (gms	766)
GRID EAST E # 24 85000 85000	Hours Mgals MERCATOR NORTHING	MERCATOR	ift Rate Me Zone: METER READING	07 9.500	Gravine Calibra ELEVATION (Metres)	DDSERVED CRAVITY	1.009 Date	a :	10/12/0	ITY (gms	766)
GRID EAST E # 24 85000 85000 85000	Mgals HERCATOR NORTHING	MERCATOR	METER READING	9.500	Calibra ELEVATION (metres)	DDSERVED CRAVITY	1.009 Date	a :	10/12/0	ITY (gms	7ce)
GRID EAST E # 24 85000 85000 85000	Mgals HERCATOR NORTHING	MERCATOR	METER READING	9.500	Calibra ELEVATION (metres)	DDSERVED CRAVITY	1.009 Date	a :	10/12/0	ITY (gms	/cc)
GRID EAST E # 24 85000 85000	MERCATOR NORTHING	MERCATOR	METER READING		ELEVATION (metres)	ODSERVED CRAVITY	THEORETICAL.	BUUG	UER GRAV	ITY (gms	7cc)
EAST E # 24 85000 85000 85000	NORTHING		READING	TIME	(netres)	CRAVITY					7CE)
85000 85000 85000			2693 86				Dittivation	- A		53 L 17	20 0
85000 85000 85000			2693 86							2.67	2.8
85000 85000				14.15		979172.25					
85000	U	. O	2683 85	14.15	272 57	979192.25	979231.12	21 26	47.67	4 4 725	
	ŏ	0	2883 54	14.21	273 87	979191.92	979231.12	21 26	17.83 17.67	14.75 14.57	13 26 13 99
85000	.0	0	2683.10 2683.03	14 25	275.42	979191.47 779191.45	979231.33 777231.44	20 90	17 43	14 32	12.82
85000	0	0	2683.01	14 34	275 59	979191.37	979231.54	20 62	17 33 17 15	14.21	12 53
85000 85000	U O	0	2682 62 2682 29	14.30	277 54	979170.97	979231.65	20 55	17 06	13 98	12.40
82000		<u>0</u>	2682.33	14 47 14 40	279 26 279 13						12 20
		0	2690.99	14.50	285.15	979189.31	979231.97	20 25	16.66	13.44	11 88
85000	0	Q						20 22	16.62	13 30	11 02
85000	()	Ú	2681.73	15.95	284.11	979190 04					11 94 12 09
	-				283.49	979190.36	979232.39	20 51	16.94	13 73	12 19
85000	0	ŭ	2682.95								12 20
	0	0	2683.43	15 17	277.01	979171 74	777232.71	20 54 20 75 -		13.73	12 40 12 55
		•					979232 61	20.97	17 48	14.34	12.83
85000	Õ	ŏ	2685.20	15.30							13 06 47 20
	0	0	2685.70	15.34	274.77	- 954144 - 89	979233-43	21.62	19 16	15 05	13 28 13 55
	- 0	<u> </u>	2685,52	15.39	277.08	979193.82	979233 . 24	21.98	18.39	15.25	i3 73
# 24			2683,79	16.05		977/172 . 25					
	85000 85000 85000 85000 85000 85000 85000 85000	85000 0 0 85000 0 0 85000 0 0 85000 0 0 85000 0 0 85000 0 0 85000 0 0 85000 0 0 85000 0 0 85000 0 0	85000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	85000 0 0 2682.33 85000 0 0 2680.99 85000 0 0 2680.75 85000 0 0 0 2681.19 85000 0 0 0 2681.73 85000 0 0 0 2682.05 85000 0 0 0 2682.52 85000 0 0 0 2682.95 85000 0 0 0 2682.95 85000 0 0 0 2683.43 85000 0 0 0 2683.43 85000 0 0 0 2683.70 85000 0 0 0 2685.20 85000 0 0 0 2685.20 85000 0 0 0 2685.20	85000 0 0 2682.27 14.46 85000 0 0 2680.99 14.50 85000 0 0 2680.75 14.56 85000 0 0 2681.75 14.56 85000 0 0 2681.73 15.01 85000 0 0 2681.73 15.05 85000 0 0 2682.05 15.00 85000 0 0 2682.95 15.15 85000 0 0 2682.95 15.15 85000 0 0 2683.43 15.17 85000 0 0 2684.25 15.22 85000 0 0 2684.25 15.22 85000 0 0 2684.25 15.32 85000 0 0 2685.20 15.39 85000 0 0 2685.20 15.39 \$\$000 0 2685.52 15.39	85000 0 0 0 2680.75 14 46 277 15 85000 0 0 0 2680.75 14 56 286.65 85000 0 0 0 2680.75 14 56 286.65 85000 0 0 0 2680.75 14 56 286.65 85000 0 0 0 2681.73 15 95 284.11 85000 0 0 0 2682.52 15 00 283.49 85000 0 0 0 2682.52 15 12 282.11 85000 0 0 0 2682.52 15 12 282.11 85000 0 0 0 2682.52 15 12 282.11 85000 0 0 0 2682.52 15 12 282.11 85000 0 0 0 2682.52 15 12 282.11 85000 0 0 0 2683.43 15 17 279.81 85000 0 0 0 2684.76 15 22 277.55 85000 0 0 0 2684.76 15 26 276.64 85000 0 0 0 2685.20 15 30 276.64 85000 0 0 0 2685.52 15 39 277.08	85000 0 0 2682.33 14.46 277.22 97.9170.83 85000 0 0 2680.99 14.50 285.15 97.9189.31 85000 0 0 2680.75 14.50 286.65 97.9189.31 85000 0 0 2681.19 15.01 285.67 97.189.50 85000 0 0 2681.73 15.05 284.11 97.919.03 36.850.00 85000 0 0 2682.05 15.00 283.49 97.919.03 36.850.00 97.919.03 36.850.00 97.919.03 36.850.00 97.919.03 36.850.00 97.919.03 36.850.00 97.919.03 36.850.00 97.919.03 36.850.00 97.919.03 37.919.03	85000 0 0 2682.33 14.46 277.13 979170.67 979231.95 85000 0 0 2680.99 14.50 285.15 979189.31 979231.97 85000 0 0 2680.75 14.50 286.65 979189.31 979231.97 85000 0 0 2681.19 15.01 286.65 979189.50 979232.07 85000 0 0 2681.73 15.01 285.57 979189.50 979232.10 85000 0 0 2682.05 15.01 283.41 979170.04 779232.20 85000 0 0 2682.05 15.00 283.41 979170.03 979232.30 85000 0 0 2682.52 15.12 282.11 97170.83 979232.50 85000 0 0 2682.95 15.15 280.98 979191.26 979232.60 85000 0 0 2683.43 15.17 277.01 979171.74 777232.71<	85000 0 0 2682.27 14 46 277 15 779170.83 979231.75 20.47 85000 0 0 2680.99 14 50 285.15 979189.31 979231.97 20.25 85000 0 0 2680.75 14 50 286.65 979189.31 979231.97 20.25 85000 0 0 2681.19 15 81 286.65 979189.50 979232.09 20.22 85000 0 0 2681.73 15.05 284.11 979190.04 779232.20 20.32 85000 0 0 2682.05 15.05 284.11 979190.03 979232.39 20.51 85000 0 0 2682.05 15.00 283.49 979190.03 979232.39 20.51 85000 0 0 2682.52 15.12 282.11 979190.03 979232.50 20.51 85000 0 0 2682.95 15.15 280.98 979191.26 979232.60 20.5	85000 0 0 2682.13 14.46 277.13 77170.83 979231.95 20.47 16.96 85000 0 0 2680.99 14.50 285.15 979189.31 979231.97 20.25 16.86 85000 0 0 2680.75 14.56 286.65 979189.31 979231.97 20.25 16.66 85000 0 0 2681.19 15.01 285.57 979189.50 979232.07 20.22 16.62 85000 0 0 2681.73 15.05 284.11 979190.04 779232.28 20.32 16.73 85000 0 0 2682.05 15.00 283.49 979100.04 779232.28 20.51 16.94 85000 0 0 2682.95 15.00 283.49 979100.03 979232.39 20.51 16.94 85000 0 0 2682.95 15.15 280.90 979191.26 979232.60 20.51 16.94 85000 <td>85000 0 0 2682.37 14.46 277.15 779170.83 979231.75 20.47 16.96 13.80 85000 0 0 2680.75 14.50 285.15 979189.31 979231.97 20.25 16.66 13.44 85000 0 0 2680.75 14.50 286.65 979189.31 979231.97 20.25 16.66 13.44 85000 0 0 2681.75 14.50 286.65 979189.31 979232.07 20.25 16.66 13.43 85000 0 0 2681.73 15.05 288.65 979189.50 979232.19 20.25 16.73 13.50 85000 0 0 2681.73 15.05 284.11 979190.04 779232.20 20.25 16.73 13.50 85000 0 0 2682.05 15.00 283.47 979190.03 979232.30 20.51 16.94 13.64 85000 0 0 2682.52 15.15</td>	85000 0 0 2682.37 14.46 277.15 779170.83 979231.75 20.47 16.96 13.80 85000 0 0 2680.75 14.50 285.15 979189.31 979231.97 20.25 16.66 13.44 85000 0 0 2680.75 14.50 286.65 979189.31 979231.97 20.25 16.66 13.44 85000 0 0 2681.75 14.50 286.65 979189.31 979232.07 20.25 16.66 13.43 85000 0 0 2681.73 15.05 288.65 979189.50 979232.19 20.25 16.73 13.50 85000 0 0 2681.73 15.05 284.11 979190.04 779232.20 20.25 16.73 13.50 85000 0 0 2682.05 15.00 283.47 979190.03 979232.30 20.51 16.94 13.64 85000 0 0 2682.52 15.15

	Toca) rob			PLORAT			1.0							
	COVERAĞIL						-							
:	Loop Time Loop Drii	1 92	l'our e		ift Kater de Zone	01 9.500	Gravine Calibra	ter #1: 037	1 1147	Uperator H. Date:				
<u> </u>	GRID NORTH	CRID EAST	MERCATOR NORTHING	MERCATOR	METER	TIME	ELEVATION	UBSERVED			10/12/8			
			NORTHING	EASTING	READING		(metres)	GRAVITY	THEORETICAL GRAVITY	- Buus 2.1	UER GRAV 2.4	ITY (gns 2.67	2.8	
	PAG	E # 04			2699 . 48	10.49								
	50000	90 00 0	U	Ú	2701.98	11 19	280.70	979190.55 979193.17						
<u> </u>	50000	85000	U	0	2699.42	11.46	282 35	979190.55	979226.86 979229.00	28.28	24.75	21.57	20.04	
	50000	80000	Ü	U	2702.92	12.15	280 70	979193.23	979226.86	23.63	20,28	17 09	15.55	
B	BAU	C # 04			2599.47	12.44			777220.00	20.33	24.80	21.62	20.09	_
*	********* Data comp	**********	24/12/01	*********	********	******	******	777190.55 *********	********	*****	*******	*****	****	H
**	#¥####### Dæta comp	#####################################	24/12/01	本工业在本本本本本工工	*******	*******	******		*********	********	******	*****	****	H
***************************************	Data comp	uted on .	24/12/01	本本本本本本本本本本本本本本本本本本本本本本本本本本本本本本本本本本本本	********	********	********	*******	***********	*******	*******	******	****	_
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***************************************	Daris Comp	uted on .	24/12/01	******	*******	******	******	*******	**********	******	*******	*****	*****	
1	Daris Comp	uted on .	24/12/01	******	********	******	******	********	*******	******	******	*****	****	
1	Daris Comp	uted on .	24/12/01	******	*******		******	********	*******	******	*****	*****	****	# 1
**************************************	Daris Comp	uted on .	24/12/01	******	*******		******	********	***********	*****		****	****	
# # # # # # # # # # # # # # # # # # #	Daris Comp	uted on .	24/12/01	******	*******	-	******	********	**********	******		*****	****	
	Daris Comp	uted on .	24/12/01	******	*******	******	******	*********	**********	******		*****	****	

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URVEYED I	UR (CRA EX	PLOKAT	TON P	* ty 1+	d							
OCAT LUIT		NILPINNA	grid St	h Austra	lia								
0VERAGE	LINE S	1000E		FROM 5000	<u> </u>	UH .							
									· · · · · · · · · · · · · · · · · · ·				
oop Time: oop Drift	2.08	Houre Mgals			.07 9.500			1.047	Operator i Date:		1		
:P T N	PRIN												
NORTH	EAST	NORTHING	MERCATOR EASTING	METER READING	TIME	(metros)	GRAVITY	THEORETICA GRAVITY			2.67	2.8	
HASE	* 28		,	2702,04	13,53		979173.20		 -				_
50000	80000		U	2702.04	13,53	280 90	979197 20	070994 04	Chr. Tr.		54 ***		_
50200 50400	80000 80000	0	0	2702,38	13.50	277.31	277173.55	777226.75			21.59 21.74	20.06 20.2 2	
50600	80000	Ü	U	2782,28	14.03	279 04		979226.65 979226.54			21 73	20.21	
51000	80000	<u>0</u>	0	2703.01	14.12	275 50	979174.20	979226 44	28 53	25 07	21,75	20 45	5
51200	80000	0	. 0	2703.59	14 20	274 US 272 S7	979194.53 979194.90				22 20	20 61	
51600	80000	0	0	~~2703~ *** ~ 2703_00	14 23	273 63	777174.68	979226 12	20-	25 49	55 30	- 50 -50	<u>,</u>
51800	80000	- 0	0	2703.37	14 3º	276.25 274.74	979194.16 779194.34				22.49	20 93	
52200	80000				1.4 4.4	273.55	979194.85	979225.80	29 39	25 95	22.86	21.37	
52400	80000	Ü	ō	2703 73	14.53	274 23 273 44		977225.79 979225.59			22 89	21 40	
52600 52800	8000U	0	0	2704 34	14 59	270 07	777175.54	979225.4U			23.10 23.33	21 51 - 21 86	
53000	80000	0	- 0	2703 80	15 04	271.43 274.94		979225.30			23 48	22.00	•
53400			U U	2703 36	15.17	276 79	979174.49	979225.17		26 90	23 60 23.77	22 10	
53600	80000	Ü	ō	2704 78	15.72	273 43 271,05	977175 44 977175 47	979225 06-			24-12	22.60	-
53800 54000	80000	U	-	2705 17	15.52	270 70	979196 39	777224 85	31 30		24 49 24 83 -	23 01 23 35	
		<u></u>	U			270 36		979224.74	31.50	28.10	25.04	23.57	
	DVERAGE DOP TIME DOP Drift	DURATION DVERAGE LINE 1 DOP TIME: 2.08 DOP Drift: 136 DOP	DUATION NILPINNA DUERAGE LINE 10000E DOP TIME: 2.08 Hours DOP Drift: .136 Mgals DOP DRIFT: .136 Mgals DOP DRIF	DUBLISH DUBL	DUBLISH NILPINNA Qrid Sth Austral	DESTIDE NILPINNA Qrid Sth Australia	DOUBLE Company Compa	DURRAGE LINE 30000E FROM STON AUSTRALIA	DUBLISHON NILPINNA Qrid Sth Australia	DUMAN NILPINNA Grid Sth Australia	NILPINNA Grid Sth Australia	December Color C	NILPINNA Grid Sth Australia Strombor Stromb

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;	SURVEYED	FOR (CHA EX	PLORAT	TON 6	ty L.t.	cl							
	LUCATION		NILPINNA										,	
	COVERAGIS	LINE :	######################################		FROM S400	ON TO 5600	0N							; ;
; ; ;	Loop Time Loop Drift				ift Rate: na Zone:	.10 9.500		ter to 037 tion Factor:		rtor h.	SLAVIH 10/12/81			13
	GRID NORTH	GRID EAST	MERCATOR NORTHING	HERCATOR EASTING	METER READING	TIME	ELEVATION (Metros)	UBSERVED GRAVITY	THEORETICAL GRAVITY	800G 2.1	UER CRAVI 2.4	TY (gms 2.6?	/ cc) 2.8	1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5
	BASE	# 29			2705.46	16.20		977176.60						19 20 21
L	54000	80000	0	0	2705.46	16 20	270 36	979196.60	979224 74	31.47	28 10	25.04	23.56	22
L	54200	80000	0	0	270S US	16 28	269 19	779177.81	979224 64	31.75	28 36	25.32	23 85	24
	54400	80000	0	. 0	2706 33	16 31	267 29	279197.49	979224 53	31.92	28 56	25 53	24.08	25
I	54600	80000	0	0	2706.53	16 37	266 55	979197.69	979224 43	32.96	28.71	25.70	24.24	
	\$4800	80000	0	0	2707.11	16 42	263 96	979198.29	979224 32	32 20	28 88	25.89	24 45	30
	55000	90000	0	()	2707 34	16 46	262 83	979198.52	977224,21	32 29	28 90	26 01	24.59	31
	55200	80000	0	0	2707 68	16 50	261 25	977198.87	979224 11	32 39	29 11	26 15	24.73	33
	55400	80000	Ü	Ü	2707 46	16 54	261 . ยฮ	9793.98.64	979224 00	32.40	29 11	26.14	24.72	35
84	55600	00000	0	0	2707 77	16.58	260 28	272198.95	979223.96	32 47	29 20	26, 25	24.83	37
ı	55800	80000	0	U	2707 87	17.11	259 79	979179.04	979223.79	32 59	25. 58	26 34	24 93	11
	56000	80000	0	0	2707 54	17.14	261 29	979198.68	979223 . 69	32.64	29.35	26.39	24 97	42
		• 29			2705 57	17.26		979176.60						44 45 4
			24/12/01	*****	********	**************************************	******	******	*********	*****	******	*****	*****	47 48 49
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	SURVEYED I	FOR 4.	SKA ES	PLORAT	TONE	ty Lat	d					
	LOCAT LON		NILPINNA	grid Sth	Austra	lia				,		
··· (COVERÃCE:	LINE 8	5000E		FROM 4200	OUN TO 3900	N					
			-107-T		***************************************							
	Loop Time Loop Drift				ft Rate e Zone	9.500		ter #0 561 tion Factor:		ator R.ANNETT : 11/12/81		
	CRID NORTH	GRID EAST	MERCATOR NORTHING	MERCATUR EASTING	METER READING	TIME	ELEVATION (Metres)	UBSERVED GRAVITY	THEORETICAL GRAVITY	BUUGUEN GRAVI 2.1 2.4		2.8
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_	BASE	£ \$ 25			2685 73	7.54		979193 82				
_	42000 41800	85000°	0	: 0	2685 73 2686 36	7.54 8.04	277 98 276 79	979193.82	979233 24 979233 34	21 89 18:39 22 20 18:72	15.24 15.57	13 73
	41600	85000	0	Ċ	2687,40	9 08	274 00	579195.52	979233 45	22.51 19.07	15.96	14.47
	41400 41200	85000 85000	Ú Ų	Ü	2680 51 2680 66	8 13 9 16	270 72 271 61	777176 84 979196 80	979233 50 979233 66	22 81 19 48 23 85 19 64	16.34 16.56	14 06 15 08
	41000	85000	U	0	2688 777	8.55	272 51	979176 91	979233 77	23 26 17 83	16 75	15 27
	40800	85000 85000	0	<u>0</u>	2688.77 2688.98	9 26 8 27	274 03	979196.92 979197.13	97 923 3 87 979233 98	23 49. 20.05 23 64 20 49	16 95	15.45
	40400	85000	Ŭ,	Ö	2689.12	8.33	274 89	979197,28	979234 09	23 93 20 39	17 26	15 72
	40200 40000	85000 85000	0	0	2689 23 2689 33	ध ना 8 44	275.65 276.38	979197 40 979197.50	777234 17 979234,30	24 91 20 55 - 24 17 20 70	17 43 17 57	15 93 16 86
	39800	85000	0	Ü	2687 20	E az	277 71	977177.30 977177.46	979234.30	24 31 20 82	17 58	15 15
	39600 39400	85000 85000	<u> </u>	<u> </u>	2688 95 2689 13	8 23	280 36	979197.13	979234 51	24 46 20 94	17 77	16 24
	39200	85000	Q.	0	2690.22	9 01	280 32 276,90	777177 36 979198,42	977234 62 979234 72	24 50 21 06 24 78 21 30	17 89 18 16	16 36 16 85
_	39000 38800	85000 85000	0	0	2673 2.9	A 42	273 सन	777177.41	779234 83	-24 77 E1 S5	-14 45 ·	46 05
-	38600	85000 85000		0	2692 22 2692 49	9 09	270 83	979200 44 979200 63	9 79234 .93	25 25 21 05 25 46 22 05	18 78 18 98	17 31
_	38400	85000	0	0	2692 79	9 16	271 44	977201.03	979235 15	25 76 22 34	19 27	17 79
	38200 38000	85000 85000	0	0	2692.29	7 17 7 23	272 71 276,54	979201 03 979200,53	979235-25 979235-36	25 93 22 50 26 17 22 69	19 42 19 57	18.06
-	BASE	+ 25		•	2685 62	9 41		979193.82	777233 30	44. A7 44. U7	<u> </u>	
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	Data comp		24/12/81					****				
												
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			HYBLU	S & CC	1					********* 1 (.) (.) (.) *******	" NUM	ECLER	41
H	SURVEYED		JRA EX	PLORAT	TON P	ту 1., т	d						
	LOCATION		NILPINNA	grid St	h Austra	lia							
	COVERAGE.	LINE	5000E		FROM 3800	ON TO 3400	ON					-	
		e: 1.60 ft:111			ift Rate: ne Zone:	07 9.500		ter +0 381 tion Factor:			ANNETT 11/12/8	1	
_	GRID	GRID	MERCATUR	MPREATER					and the same of th	****			
<u> </u>	NORTH	EAST	NORTHING	MERCATUR EASTING	METER READING	TIME	ELEVATION (Metros)	GRAVITY	THEORETICAL GRAVITY		UER GRAV 2.4	117 (gms 2.67	/cc) 2.8
									ACCUTATION AND ACCUSATE AND ACC				
	BA:	SE # 26			2692.24	9.59		977200.53				<u> </u>	
	38000	85000	(1	n	2692.24							·	
	37800	85000	- O	' 0	2692.24	7.59 10.05	276 54 275 56	979200,53 977201,04	979235.36 979235.46	26.17 26.43	22.70 22.76	19 5?	18.06 18.34
_	37600 37400	85000 85000	0	0	2693.77	10.08	272 97	979202.08	979235.57	26.73	23.30	20 21	18.72
_	37200	85000	ů .	Ů	2674 77 2695 31	10.11	270 33 269 63	979293:12 - 979203:64	979235 . 66 979235 . 70	27 03 27 34	23.75	20 6E	19.15
	37000 36800	85000 85000	0	0	2695 47	10.17	270 47	777273 81	777235 87	- 27 50	23.75 24.18	20 70 21 12	19 43
	36600	85000		0 0	2695 83 2695 80	10.25	270 01 270 74	779204.18	979235 99	27 75	24 35	21 30	19 03
	36400 · 36200	85000	0	0	2696 40	10 33	268.12	979204 76	777236 19 979236 21	27 78 27 70	24.39 24.33	24 34 24 30	19 84
	36000	85000 85000	0	0	2696 35 2696 79	10 37 10 41	260 20 267.13	777204 72	779236 31 ·	27 ns -	24 20	21.24	40 25
	35800	85000			2697.81	10 44	263.26	979205.17 979206.20	979236 42 979236 52	27 67 	24 32 24 44	21 29 21 45	19 84
	35600 35400	85000 85000	0 	Ü	2698 09 2697 00	10.49	263 07	979206.49	979236.63	27 89	24.58	21 60	20 17
	35200	85000	0	0	2698.15	10 52	266, 42 — 269, 35	- 979206.28 - 979206. 56	977236.74 979236 84	- 20 31 29 13	- 24 96 25 74	21 95 22 70	20.50
	35000 34800	85000 85000	0	0	2599.73	11 01	266 26	777208:21	777236 95	27 13	26 65	- 23 63 -	21 23 22 10
_	34600	85000	- o -		2701.04 2701.74	11 04	263 79 	979209.48 979210:39	979237 06 979237 16	30 61	27.30	24.31	22 87
	34400	85000 85000	<u>0</u>		2702.29	11 11	260 76	979210.74	979237 27	31 77 30 72	27.70 27.71	24 74 24 75	- 23 31 23 34
	34000	85000	. 0	0	2702.52 2703.14	11.18 11.19	257.91 257.63	979210.99 979211.61	979237 37	30-75	27.60	- 24.74	23 42
	HAIs	E # 26					237.03		979237 , 48	30 96	27 73	24.81	23 41
					2692.13	11.35		979200 53					

3010	GE UI	нхалс	S & CU		W				********** ********	, MUW	es til te	************************
SURVEYED	FOR C	RA EX	PLOKAT	TUN P	τ υ 1τ	d						
LOCATION		ILPINNA	grid Str	Austra	112	····						
COVERACI:	LINE U	7000E	·····	FROM 3400	ON 10 2000	0N						
		-							<u></u>			
Loop Time Loop Drif				ft Rate. e Zone:	.00 9.500		ter #U 561 tion Pactor:		perator R.	11/12/8	í	
GRID NORTH	GRID EAST	MERCATOR NORTHING	MERCATOR EASTING	METER READING	TIME	ELEVATION (metres)	UBSERVED GRAVITY	THEORETICAL GRAVITY	nous 2.1	JER CRAV	117 (QMS 2.67	700) 2.8
	<u> </u>											
BAS	E # 27			2703.13	12.49	 	979211.61					
34000 33800	85000 85000	0	0	2703.13	12.49	257.63	979211.61	979237 . 48	30 95	27.72	24 91	23.40
33600 33600	85000	0	0	2703 37 2703 45	12.56 12.59	256, 07 256, 20	979211.87 979212.13	979237 57 979237 69	30.95	27.72	24 81	23.41
33400	85000	0	U	2703 22	13,01	256.07	979212.13 979212.25	779237.6V 779237.80	30 ምሪ 30 ምሪ	27.74	24 84 24 83	23.44 - 23.43
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	LOCAT TON	ŕ	NILPINNA	grid Sth	Austra	Lia						
	COVERAGE	LINE 8	0000E		FROM SOCOO	N TO 45001	ON .					
	Loop Time Loop Drif				ft Rate: - e Zone:	9.500		er to 037 ion hactor:	•	erator n. SLAVIN te: 11/12/81		
	GRID NORTH	GRID EAS!	MERCATOR NORTHING	HERCATOR EASTING	METER READING	TIME	ELEVATION (Metros)	GRAVITY	THEORETICAL CRAVITY	BUUGUER GRAVI 2 1 2.4	17 (gms/ 2.67	2.8
	BASI	E # 28			2702 27	7.43		979193.20				
	50000	80000	0	0	2702 27	7 43	280 76	979193.20	979226 . 86	28.30 24.77 28.17 24.63	21.59 21.42	20 06 17:00
	49800 49600	80000	0	0	2701.78 2701.53	7 S1 7 SS	283 14 283 78	979172.70 979192.44	979226 76 979227 07	28.01 24.44	21.23	19 68
	49400	80000	0	0	2701 28 2700 48	8 95 8 95	284 75 288 28	979192.18	777227 18 979227 28	27.66 24.04 27.66 24.04	21 06 20 77	19.50 19.20
	49200 49000	80000			2699.77	8.12	290 66	577170.84	777227 37	27 57 23 92	20 63	19 45
. ,	48800	80000	0	0	2698 56	8 16 8 16	296 71 275 34	979189.35 779189.58	979227 49 979227 69	27 31 23.59 27 10 23 46	20 22 - 20 12	18 60 18 51
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	48000 47800	80000		0	2698 18 2697 53	8.34 8.37	300 57	977188.30	777228 02	26 60 22 82	17.42	1 7 78
	47600	80000	0	Ö	2697 38	8 42	301.61	979188.14 - 777108:53	979228.13 	26.55 22.75 26.17 22.41	19 34 - 19 03 -	17 70
	47400 47200	80000	0	0	2697.74 2697.24	8,53	278 64 300.21	777100:53 779188:01	979228 34	25 89 22.12	18.72	17.09
_	47000	80000		<u>0</u>	2697 77	8 57	277.10	777138.59	979228 45 979228,55	25 60 21 94 25 45 21 71	- 10 50 - 18 35	16.76 16.72
_	46800 46600	80000 80000	0	0	2697 57 2696 28	9 02 30 9	303.29	979188.36 979187.82	479228 EE	25 24 21 41	10.00	16 35
	46400	80000	Ü	0	2694.38	7 11	311.16	979185.03	979228.76 979228.87	24 91 20 99 24 93 20 94	17 47	15.78
_	46200	80000	0	0	2694.73 2694.20	9,15 9,22	307 63 311 24	977105.40 979184.86	979228.57	24,54 20.62	17 10	15.41
	45800	80000		0	2694 85	7.27	307.70	977105.54	977227.00	24.30 20.51	17.07	15.35
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50LU	GEUPT	YSICS	<u> </u>) F##	******* ********	***********	********** ******	4.4 ****
SURVEYED F	· (1) 4 - 4 - 4	A EXI	LORAT	TON 1.	ty late	f							
LOCATION			grid Sth										
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OVERACI	LINE UUU	00E		FRON 4590	N TO 41200	N							
									Opera	+	LAVIU -		
Loop Time	2.00 II t:094 M	ours gals		ft Rate e Zone:	05 9.500	Gravine: - Calibrat	er TC U37 ion Factor:	1.047	Date		11/12/01	_	
				and the second second second second			UBSERVED	THEORETI	CAL.	ROUGU	ER GRAVI	TY (gms/	cc)
GR1D NORTH		MERCATOR NORTHING	HERCATOR EASTING	METER READING	TIME	ELEVATION (metros)	CRAVITY	CRAVIT		2.1	2.4	2.67	2.8
				Age and the first out of the second									
HAS	E # 30			2694 . 81	10.37		979105.53						
45800	80000	0	U	2694.111	10.37	307.90	979185.53	979229. 		24 37 24 07	20.50 20.25	17.01 16.77	15.34 15.18
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45400 45200	80000	- O	0	2694 B7 2693 64	10.52	312.14	977105.63 979184.32	979229 979229	50	23.67	19.75	16.21	14.51
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44400	80000	0	<u>0</u>	2694 U1 2695 T6	11.09	307 22	979186.34 979186.04	777227 979229		24.27 24.59	20.43 20.69	16.95 17.18	15.49
44200	80000 80000	<u>0</u>	0	2695 27 2697 02	11.13	310.45 304.61	777187.88	- 977230 979230	0.3	- 25.84 25.43	21.81 21.63	19.76 18.21	16 56
43800	80000	0	U	2697.96 2698.46	11.25	302.41	979189.86 979109.39	977230	25	25.71	21.72	18:50	16 85 17 37
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42800 42600	80000	υ υ	0	2700.46 2700.92	11 48	296.00	979191.99	979230 779230		26.50 26.55	22.78 - 22.79	19,43 - 17,41	17.82 17.79
42400 42200	80000	0	v	2700.62 2700.88	13.53 11.52	278. 01 296. 87	979191.95	979230 	99	26.45 26.54	22 72 22 80	19.36	17.74
42000	80000		tı	2699.81	12.92	303 41	779171 71 779190 . 84	979231	20	26.57	22.75	19.32 19.78	17 67
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	SE # 30		The state of the s	2694.72			777185.53						
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10	SURVEYER		URA EX	PLORA	TON	, t.y. L. t	r ct			*****	******	*****	* * * * * *	
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L	CUVERAGE	LINE U	000 0E		FROM 415(00N TO 3060	DON.							
	Loop Fin	n 1.85 ft: 063	Hours		ift Rate.	. 03	Gravine	ter #6 037						
	-		***************************************	/1	me Zone	9.500	Calibra	tion lactor		p erator i Date:	1.8LAVIN 12/12/6)1		
H	GRID NORTH	GRID EAST	MERCATOR NORTHING	HERCATOR EASTING	METER READING	TIME	ELEVATION (Metres)	UBSERVED GRAVITY	THEORETICAL GRAVITY	#UL 2.1	GUER GRAV	2.67	2.8	
	BAS	E # 31			2702.14	13.27		979193.33						
	41400 41400 41200	80000 80000	0	0	2702.14 2702.43	13,27 13,32	293.69 293.22	979193.33	979231.30	26.81	23.12	19 79		<u>.</u>
	41000	80000 80000	0 0	0 9 0	2703.48 2704.16	13.37	289 65 287 53	977173.65 979194.73 777175.44	979231 - 41 979231 - 52 777231 - 62	26.92 27.11	23.24 23.46	19 02 20 19	18.17 - 18.32 18.61	
1	40600 40400 40200	80000 80000 80000	0 ·····		2705.14 2705.74 2766.92	-13.48 -13.52 -13.56	284.83 282.67 279.66	979196.46 979197.30 979198.32	979231 (13 979231 (83	27.24 27.56 27.82	23.63 23.98 24.29	20 76 20 76 21 07	19 01 17.21	
	40000 39800	80000	0 0	0	2707.45 2707.13 2707.12	14.99 14.87	270:72 280:07	979198.89 979198.53	979231.94 979232.65 979232.15	28.07 26.35 28.34	24 55 24 85 24 81	21 39 21 60	19 87 20 12	_
	39600 39400 39200	80000 80000	0	0	2707.66 2708.00 2708.00	14.14	281 .55 280 .53 280 .25	777178.52 979199.09 777177.44	979232.26 979232.36 979232.47	28.60 28.79	24 99 25 08	21 63 21 71 21 90	20 18 20 19 20 39	
	39000 38800 38600	80000 80000 80000	0	0 .	2707 7/4 2705,02	14.23 14.27 14.34	281.18 284.17 288.26	979199.52 779199.86 979198.19	979232.58 979232.68	28.97 29.86	25 27 25 43 25 49	22 27 22 27	20.57 20.72 - 20.72	
	FASI	* 31		-	2707.04	15 18	267 Julia	777178.42	979232 . 79 	28.99 29.93	25.32 - 25.41 -	22.11 - 22.1 5	20,54 20,55	
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COMPANDED FOR CAPA EXPLIDING ATION PTY Land		HOLU_	GEOF	HYSLC	S'& CU	1					· 1 C.F.C.F.I	*************************	BER	40	5
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COURTING COURT C		LOCATION													
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CARD District 1.0 September 1.0 Sept	_	COVERAGE:	LINE U	UU U0E		FROM 3860	<u> </u>	บพ							
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CARD District 1.0 September 1.0 Sept		Loop Tine:	2.707	Hours	De i	ft Bate	- 06	P= ra=	• * • • • • • • • • • • • • • • • • • •						
NORTH EAST NORTHING EASTING READING: THE COLOR OF CHAPTY GRAVI	_	Loop Drift	:115	Mgals									1		
NORTH EAST NORTHING EASTING READING: THE COLOR OF CHAPTY GRAVI	_														
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38600 80000 0 0 2707 22 9 9 49 287 80 979198.41 97923.69 27.02 25 40 22.14 20.51 38400 90000 0 0 0 2707 45 10 01 287.37 779178.66 777235.00 29.16 25 44 22.19 20.51 38200 80000 0 0 0 2708 79 10 06 281 07 97920.07 979233.11 29.14 25.60 22.41 20.61 38000 80000 0 0 0 2709 75 10 10 27 17 77720 56 777233 21 28 79 25 30 22.15 20.64 37980 80000 0 0 0 2709 75 10 13 277 56 777233 21 28 79 25 30 22.15 20.64 37980 80000 0 0 0 2709 75 10 13 277 56 77720 35 27 28 79 25 30 22.15 20.64 37980 80000 0 0 0 2710 27 10 23 274 56 777201.56 777233 32 28 79 25 30 22.15 20.64 37280 80000 0 0 0 2710 27 10 23 274 56 777201.64 979233.53 28 67 25 22 22.11 20.64 37920 80000 0 0 0 2710 50 10 27 274 66 777201.64 979233.53 28 67 25 22 22.11 20.65 37280 80000 0 0 0 2710 50 10 27 274 66 777201.64 979233.53 28 67 25 22 22.11 20.65 3680 80000 0 0 0 2710 50 10 27 274 66 777201.76 977233.53 28 67 25 22 22.11 20.65 3680 80000 0 0 0 2710 50 10 27 274 66 777201.76 977233.53 28 67 25 22 22.11 20.65 3680 80000 0 0 0 2710 50 10 27 274 66 977201.29 979233.74 28 55 25 17 22 04 20.55 3680 80000 0 0 0 2700 77 10 37 28 16 49 977200.29 979233.74 28 55 25 17 22 04 20.55 3680 80000 0 0 0 2700 77 10 37 28 16 49 979200.29 979233.75 28 46 24 92 21 73 20.25 3600 80000 0 0 0 2710 70 10 50 276 77 777201 70 977201 70 977201 70 97020 70 977201 70 97020 70	_														
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CRA EXPLORATION PTY. LIMITED

WIRRANGULA HILL E.L. 924

SOUTH AUSTRALIA

INTERPRETATION OF GRAVITY SURVEY

The contents of this report remain the property of C.R.A. Exploration Pty. Limite and may no be publicated in whole of a part not used in a company prospectus without the written consent of the Company.

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B. FINLAYSON

(CONSULTING GEOPHYSICIST)

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24TH FEBRUARY, 1982

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1. SUMMARY

The gravity survey covering the southern half of Wirrangula Hill Exploration Lease has highlighted three gravity zones; two extended positive gravity highs and a broad gravity low. The gravity low has been interpreted as resulting from a series of elongate Permian depressions, with potential for development of Mt. Toondina Coal Measures, separated by narrow basement ridges. Within the gravity low a contour plan of depth to basement has been produced by comparison of gravity and magnetic estimates.

A six hole drilling programme of 1 375 metres has been suggested based on the interpretation.

2. INTRODUCTION

Following an earlier evaluation of the scant available data relevant to the Wirrangula Hill lease area (Finlayson, 1981a), a gravity survey was carried out for CRA Exploration Pty. Limited by Solo Geophysics and Co. in December, 1981. This survey of five 'east' grid lines and one 'north' grid line contained 787 gravity stations spaced 200 metres apart on 'east' line and 500 metres apart on 'north' lines and optically levelled. Due to the long transits to the nearest known benchmark and permanent gravity station an arbitrary topographic level and gravity value were assumed. Positioning of the grid is relative to local landmarks with 'east' lines oriented 033 magnetic. Accuracy of the survey appears good with ties less than 0.05 milligal. Positioning may need to be confirmed relative to lease boundaries particularly as the base reference point (SR-14/2 ? Fig. 1) was not positively identified nor was its true position known, (Appendix I).

Gravity data were made available in the form of raw data, drift corrected observed, theoretical and Bouguer gravity at densities 2.1, 2.4, 2.67 and 2.8 gm/cm³. Profiles and plots of Bouguer values at a calculated 2.1 gm/cm³ density were supplied at 1:50 000 and 1:100 000 scale. Interpretation of the gravity data sought to, within the limitations of control, model the thickness of Permian section and suggest:

- (a) drillhole sites where Mt. Toondina Coal Measures were most likely to occur and
- (b) drillhole sites where a shallow intersection of Mt. Toondina Coal Measures was likely.

The available information (Figs. 1, 1a) limits the interpretation in that:

- i. there is no stratigraphic control within the lease area,
- ii. aeromagnetic coverage (five kilometres east west lines flown at 460 metres barometric), is of poor quality,
- iii. for the present survey, at five kilometre line spacing and 200 metre station spacing correlation of features from line to line is interpreted with some uncertainty,
- iv. there are a large number of possible components to the gravity field.

In this interpretation 'basement' and 'cover' are used in the sense of a Pre Permian base to a Permian and Post Permian sequence. Within the lease area the possibilities for basement are:

- 1. Pre Cambrian crystalline rocks. These occur in shallow boreholes to the south of the lease area (Fig. 1) but are, within the lease area, of unknown extent and density variation.
- 2. Pre Cambrian sedimentary rocks. These occur in subsurface drillhole intersections to the south east of the lease area on the Stuart Shelf (Fig. 2) where the Adelaidean sequence has a range of densities from 2.50-2.85 gm/cm³. A regional negative response is normally associated with the thicker portions of this sequence.
- 3. Cambrian sedimentary rocks. These occur beneath the Boorthanna Trough to the east of the lease area (Fig. 2) and have a range of densities from 2.35-2.85 gm/cm³ including a thick dolomite section with density 2.7-2.85 gm/cm³.

PROCEDURE

The gravity data was contoured by hand from plots of Bouguer Gravity supplied at a scale of 1:50 000 and calculated at a density of 2.1 gm/cm³ (Fig. 3). This density was considered appropriate to the Mesozoic cover rocks and thus to minimise topographic variation effects. Regional data from the South Australian State Gravity File (S.A.S.G.F.) were incorporated where possible into the survey data. These points are barometrically levelled and plotted from uncontrolled airphotos. Their fit is only fair and three points were rejected as incorrect. A level adjustment was made to S.A.S.G.F. points

by adding the mean difference between S.A.S.G.F. points and current survey points to each S.A.S.G.F. point. This adjustment is limited in accuracy by the errors of positioning and reading in the two surveys and by errors arising from incorrect extrapolation of values in comparing the two surveys.

For the complete set of points, an attempt was made to separate the potential field data into two components of basement and cover. The regional or basement response chosen was a constant plane of 32 milligals with no gradient. This was arrived at by interpretation of the South Australian Bouguer Gravity Map at 1:10⁶ scale and by the comparison of the survey data with S.A.S.G.F. points as mentioned above. Residual values were calculated for each point by subtracting the reference value from each Bouguer Gravity value. Along each profile then the residual values were modelled using a basin model inversion programme on a Tektronix 4052 computer. These profiles were compared with magnetic depth to basement estimates interpreted for the area (Fig. 4 and Appendix II). The depth estimates were arrived at by enclosing zones of similar frequency response on the 1:250 000 scale aeromagnetic map of Warrina and by calculating depths at two points d, and d2 (Fig. 1a) by half slope methods to calibrate the zonal division.

Alternative methods of arriving at a regional-residual separation were tried. A first order polynomial fit to the complete set of data was tested as a regional component and the residual which resulted from the subtraction of that surface was modelled and compared as above.

Finally a first order polynomial fit was made to the limited number of data points in the survey which compared with the 200 metre plane of the depth to magnetic basement estimates. The residual which resulted from the subtraction of that surface was again modelled as above.

Both polynomial fit regionals were found to be unsuitable largely because they sampled the area of interest only and the resultant surface produced in each case was distorted by the anomalies which were the subject of this interpretation. The manually selected regional-residual separation was found to give the best overall fit to the aeromagnetic depth to basement sketch (Fig. 4 and Appendix II).

From the profiles of the chosen models and the print output from those models (Appendix III) a contour plan of depth to basement was drawn up (Fig. 5) and drillhole recommendations are based on the profiles and that plan. For each drillhole an approximate three layer model was then used to give an estimate of likely thickness of the lower density Mesozoic and Upper Permian section. This model assumed values of 2.15 gm/cm³ for the low density layer 2.35 gm/cm³ for Lower Permian and 2.65 gm/cm³ for crystalline basement c.f. table 1. These densities have not yet been confirmed in the area and the whole modelling procedure is without adequate con-

trol for the figures produced to be reliable. They should initially be used as a guide only. Samples of material should be measured for density as part of further evaluation following drilling and density logs should be run on completion of each drillhole.

4. INTERPRETATION

Within the Arckaringa Basin gravity depressions are normally associated with thick development of Permian sediments and Mt. Toondina Coal Measures have been outlined within these in places (Finlayson, 1981b). However in those areas overlying sub basins of the ?Cambrian Eastern Officer Basin, this simple model does not necessarily hold. Within the Boorthanna Trough to the east of the lease area (Fig. 2), dense dolomites lie beneath the Permian section and in places these have been uplifted relative to surrounding low density Permian sediments creating a more complex gravity picture. In addition deep basement contrasts may further complicate the picture.

In the Wirrangula Hill Lease area all of these components may be present. The applied separation of the gravity field into regional and residual components is only a partial solution to the problem of separation of basement and cover response and the area can be divided into three zones (Figs. 1, 3 and 5).

- A. This broad gravity negative (Figs.1,3 and 5) can be internally divided into a series of elongate highs and lows which are interpreted as Permian depressions separated by basement ridges. Continuity of Permian may occur over the ridges and testing of at least one ridge is recommended by drillhole. The depressions are the optimum sites for development of thicker Permian coal measures. Within this zone the modelling procedure is considered to have the most reliability although the influence of adjacent zones will influence that reliability close to the margins.
- B. This zone is a broad gravity positive with a gradient zone marking its southern boundary. It is elongate to the north east and over its extent there is a broad correspondence between depth to magnetic basement and gravity response c.f. Fig. 4. Relatively shallow magnetic basement is inferred on both sides of the gradient zone which bounds the feature and an intracrystalline basement density variation is strongly suggested to account for this anomaly.

This zone is a narrow elongate gravity positive oriented south easterly across the northern portion of the survey Along this feature magnetic basement depth increases with gravity response and two alternative hypotheses are suggested (Fig. 6).

Hypothesis 1

The gravity ridge is the result of an intrabasement density change. The anomaly corresponds with a magnetic high and on this coincidence Newmont Pty. Ltd. drilled SR/14 to the east of the lease area in the search for Olympic Dam type basement mineralisation. They abandoned that hole at Cadaree Hill at 195 metres in Mt. Toondina Beds when estimates of depth indicated too deep a target. In that hole they intersected possible coal measures from 89 to 129 metres. apse of the section occurred and only 1.5 metre of core was recovered from the interval. This hole suggests that a continued increase in Permian thickness conformable with magnetic basement is possible.

Hypothesis 2

The gravity ridge is the result of a development of a ?Cambrian dolomite filled trough. The gravity ridge coincides with a depression in magnetic basement at a point where the gravity anomaly is greatest and a weak depression may extend on strike of the gravity anomaly to the north west. To fit the gravity information some uplift of the dolomites must be present. A similar structural setting is implied at Mt. Toondina to the north of the lease area in the Boorthanna Trough. Such uplift may bring deeply buried coal measures closer to surface as at Mt. Toondina where the type section for the coal measures is found in outcrop. shallow intersection of coal in SR-14 is compatible with this hypothesis and further testing is suggested.

5. DRILLHOLE RECOMMENDATIONS

Using the profile estimates of depth (Appendix III) suggested drillholes were approximately modelled to obtain an estimate of likely low density Mesozoic Upper Permian sediments. Because of the uncertainty in the overall interpretation, these figures, table 2, should be used as an initial guide only.

Six drillhole positions have been suggested (Figs. 1, 3, 5 and Appendix II).

- A. This drillhole is sited to test a gravity depression at 44200N on line 85000E. At this site a depth to basement of 810 metres has been interpreted. From modelling, a 300 metre section of Upper Permian plus Mesozoic can be expected. This site is optimum for the development of coal measures within this 300 metre section.
- B. This drillhole is sited to test the main elongate gravity low on line 95000E at 48000N. At this site the total depth to basement is considered to be approximately 850 metres and a 300 metre section of Upper Permian plus Mesozoic is indicated. As the interpretation at this point is subject to the hypothesis accepted for the gravity high to the north of this point, these depths should be used as a quide only.
- C. This hole tests the edge of a gravity low indicated by line 80000E at 30200N. A depth of 650 metres is expected for basement with 250 metres of low density sediments. This hole may not be optimal for development of coal within the indicated depression but will indicate the potential of that depression near its margins. Further outlining of this depression may then be warranted at a later stage.
- D. This hole is sited over a possible uplifted block on which shallow coal measures may be preserved. The position suggested is on line 90000E at 42800N where 150 metres of low density sediments can be expected over a basement at 250 metres.
- E. This hole on line 90000E at 34400N is sited to test a shallow shelving section where basement is expected at 200 metres with 125 metres of low density sediments.
- F. This hole is sited on the northern end of line 95000E at 61000N. At this point depth to Permian is unknown. If Cambrian dolomites do occur they will significantly affect the potential field (Table 1). A maximum of 250 metres of low density sediments are expected although this figure should be used as a guide only. The figure is arrived at by modelling a dense (2.8 gm/cm³) section overlying magnetic basement (2.65 gm/cm³) and covered by 2.25 gm/cm³ material. This model implies relative uplift of dolomites and deeply buried coal measures may have been brought to a shallow depth in this locality. SR-14/2 intersected at least 1 metre of coal at a depth of 89 metres with a collapsed section to 129 metres.

TABLE 2 - SUMMARY OF SUGGESTED DRILLHOLES

	Line	Position	Estimated Upper Permian + Mesozoic*	Estimated Basement Depth		
a b c d e f	85 000 95 000 80 000 90 000 90 000 95 000	44 200N 48 000N 30 200N 42 800N 34 400N 61 000N	300 300 250 150 125 250	810 850 650 250 200 1 500		
* G	* Guide for drilling only					

TABLE 1 - DENSITY INFORMATION FROM THE ARCKARINGA BASIN

Tertiary	1.9 - 2.2 gm/cm ³
Cretaceous	2.1
Permian	?
- Upper - Mt. Toondina	2.1 - 2.2
- Lower - Stuart Range - Boorthanna	2.3 2.4
Cambrian (dolomites)	2.7 - 2.85
Pre Cambrian (sedimentary)	2.60
Pre Cambrian (crystalline)	2.65

KEYWORDS

Warrina SH53-3, Arckaringa Basin, Cambrian, Permian, Cretaceous, Tertiary, Stuart Range Formation, Mt. Toondina Formation, Boorthanna Formation, Coal-black, Geophys-gravity, Geophys-magnetics, Drill-rotary.

LOCATION

Warrina SH53-3 1:250 000

B. Flor

B. FINLAYSON

LIST OF FIGURES

			Scale	Plan No.
Fig.	1	Summary of Information	1:250 000	1253B
	1A	Aeromagnetic Contours	1:250 000	1289
	2	Arckaringa Basin Geophysical Interpretation	1:106	1115
	3	Bouguer Gravity Contours	1:100 000	1333
	4	Depth to Magnetic Basement Sketch	1:250 000	1336
	5	Depth to Basement from Gravity and Magnetics	1:100 000	1338
	6	Schematic Models for Line 100000E		1340

APPENDICES

Appendix I Nilpinna Gravity & Optical Levelling survey

Appendix II Inversion Profiles Calculated

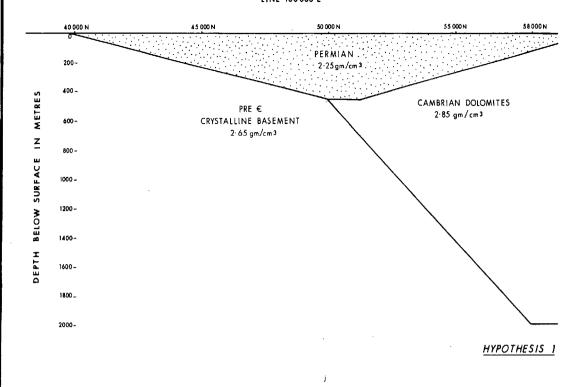
Appendix III Print output of Inversion Profiles

REFERENCES

Finlayson, B., 1981a Wirrangula Hill E.L.A. 324/81, South Australia. Evaluation of Coal Prospect. CRAE Report 10909

Finlayson, B., 1981b Exploration of the Arckaringa Basin. South Australian Department of Mines and Energy Report Book 81/51. Unpub.

LINE 100 000 E



LINE 100 000 E

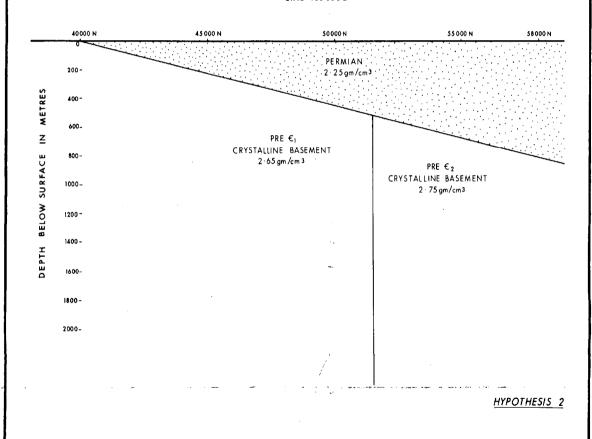


FIG.6

CRA	EXPLORATION	PTY.	LIMITED
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WIRRANGULA HILL E.L. 924

SCHEMATIC SECTION OF ALTERNATIVE MODELS
FOR LINE 100000 E

Ref: WARRINA SH 53 - 3	
Author: B.F.	Scale:
Drawn: SJB	Report No: 10909/ 11132
Date: FEBRUARY 1982	Plan No: SAa 1340

APPENDIX I

NILPINNA GRAVITY & OPTICAL

LEVELLING SURVEY

CLIENT: CRA EXPLORATION

GRID : NILPINNA

AREA : NORTHERN SOUTH AUSTRALIA

SURVEY: GRAVITY & OPTICAL LEVELLING

DATE : NOVEMBER/DECEMBER 1981

PHASE 1

A COMBINED GRAVITY AND OPTICAL LEVELLING SURVEY - NILPINNA

FOR: CRA EXPLORATION

31 OSMOND TERRACE,

NORWOOD, S.A., 5067

BY: SOLO GEOPHYSICS & CO.

3a McINNES STREET,

RIDLEYTON, S.A., 5008

Mobilising from Bulgunnia and restocking at Coober Pedy the Nilpinna gravity and optical levelling survey commenced 19th. November, 1981. After 25 days and completing 169 kilometres of the 220 line kilometre grid, the four man crew demobilised to Adelaide. The survey party consisted of three SOLO operators (one of which arrived Coober Pedy 23rd. November) and one CRAE field-hand. Access to the grid from Coober Pedv is as follows:

From the Miners Store, travel 7.35 kms north on the Oodnadatta road to the Nilpinna turn-off (not marked), then travel east on the Nilpinna road 79 kms. (accumulated distance from the Miners Store) to Marys Yard. The field crew camped at Marys Yard throughout the duration of the survey after permission was obtained from Jim Nunn, Manager - Nilpinna Station (call sign - 9 Oscar, India). Only the southern portion of the surveyed grid was outside Nilpinna's Pastoral lease, this falling within Crown land (see map).

Access to various parts of the grid was good and included a number of tracks (single-cut with grader) originating from Marys Yard as well as the Coober Pedy road (double-cut with grader). Most tracks have been graded within the past six months while Marys Yard was constructed last year. Fences enclose the grid but can be dropped with considerable ease as per instruction of Jim Nunn.

SURVEY DETAILS:

The grid origin was either Newmont drill-hole SR-14 or BA14/8? (only one could be found). A magnetic bearing was calculated from the proposed CRAE traverses off the Warrina 1:250000 sheet. When applied this bearing aligned exactly with a previous traverse undertaken by SOLO in 1978 for Newmont Pty. Ltd. The base line, designated co-ordinates of 50000N, is 8.2kms from the averaged position of the Newmont drill-holes. Traverses bearing 033 magnetic are positioned every 5 kms along the base-line (see map), with the most easterly designated co-ordinates of 100000E. Steel pickets were sited at the end of each traverse. Located at the intersections of traverses and base-line are three metre lengths of polypipe. Steel spacers and wooden dumpy pegs, marking the site of gravity measurements are alternately sited every 200 metres along the traverses. Distances were measured with a specially calibrated odometer.

Gravity loops were kept to within two hours duration. Five main gravity bases located every 5 kms along the baseline formed the basis of all the further gravity work completed along the traverses. These bases numbering 1 - 4 inclusive and 28 were tied in an A-B-A-B-A manner. The remaining gravity bases were tied in an A-B-A-B manner, in that a drift corrected value taken from the end of a gravity loop was repeated to ensure its accuracy and correct comparison to the initial base (in all 29 bases, checks proved a better than .05 mgal accuracy and most better than .02 mgals). See map for distribution of gravity bases.

Base one, 50000N/100000E was given an assumed observed gravity value of 979200, the survey was made arbitary to this point. Drifts encountered throughout the survey were moderate averaging .05 mgals per hour.

Station 54600N/100000E had an assumed elevation of 250 metres. All stations were optically levelled.

The fanfold data contains the original field data in loop format with station co-ordinates, station I.D., instrument reading in scale divisions, time and elevation. Also listed are the observed and theoretical gravity plus Bouguer gravity at 2.1, 2.4, 2.67 and 2.8 gm/cc.

The line files of the various traverses are listed with station I.D., station co-ordinates, elevation, loop number and ten Bouguer densities at 0.1 gm/cc steps over a range from 1.8 to 2.7 gm/cc.

INSTRUMENTATION SUPPLIED FOR THE SURVEY:

Two LaCoste & Romberg temperature compensated gravimeters G#037 and G#561.

One Pentax and one Sokisha automatic engineers level.

Two five metre staffs.

Two electronic vehicle odometers.

Complete camping gear for four man crew.

INSTRUMENTATION DAMAGED:

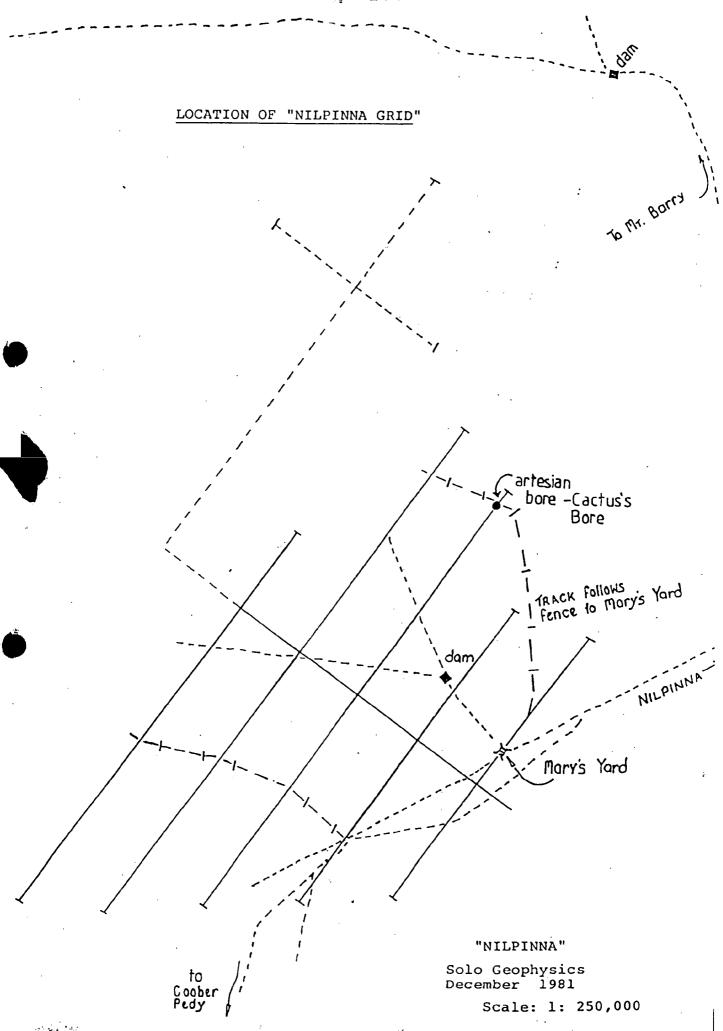
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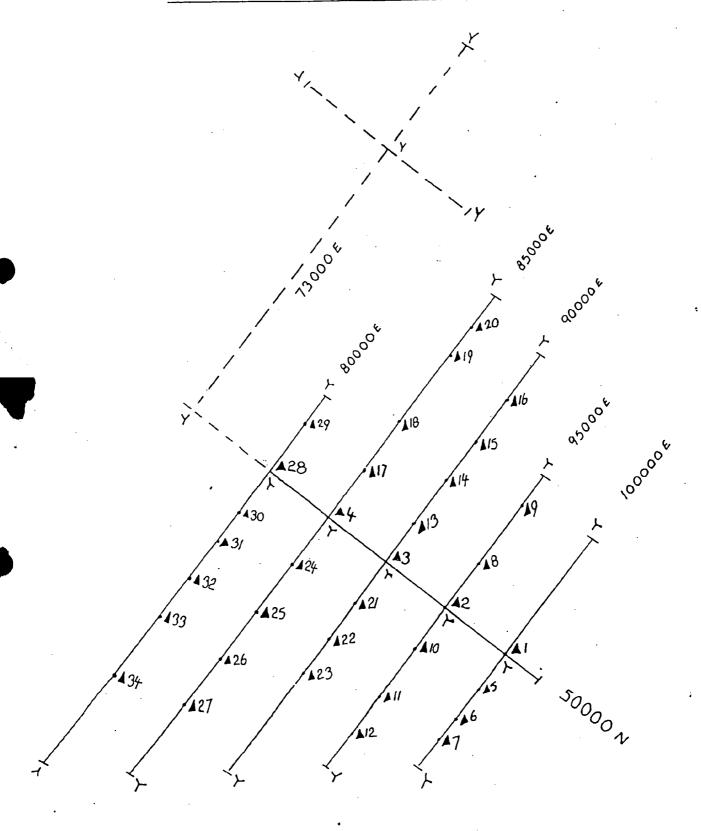
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R. ANNETT - Senior Surveyor - BSc., A.R.S.M., A.I.M.M.



LOCATION OF GRAVITY BASE STATIONS



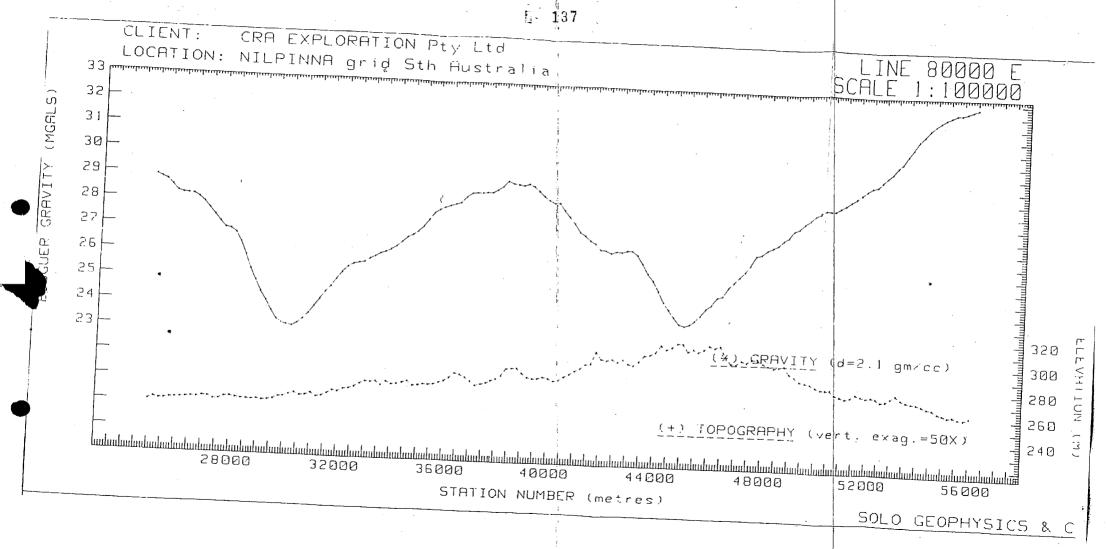
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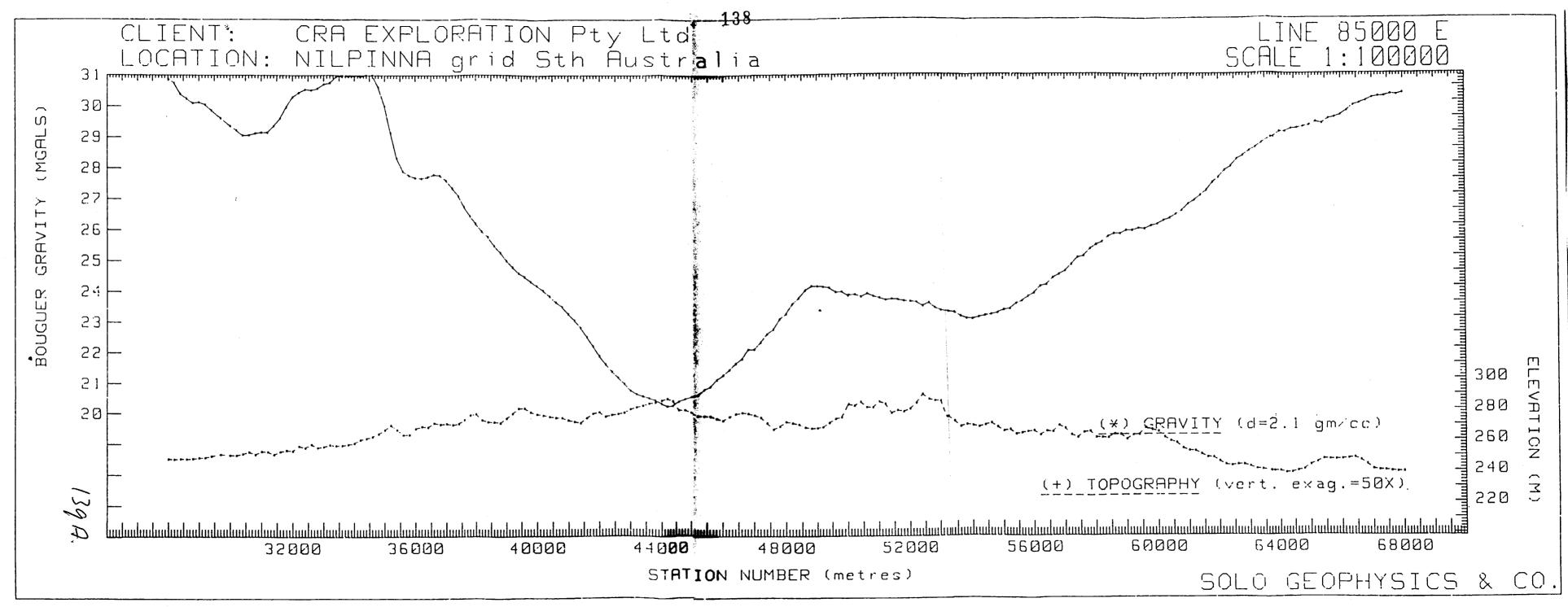
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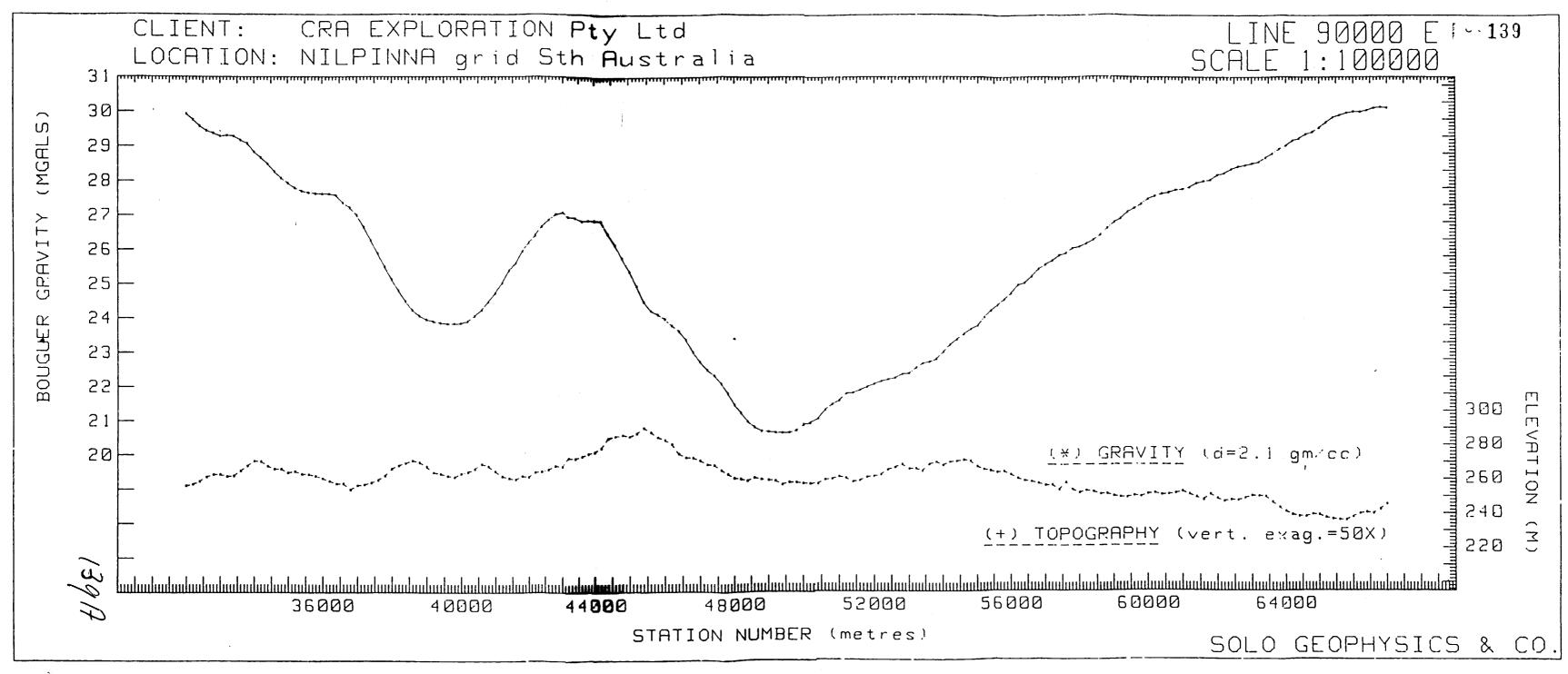
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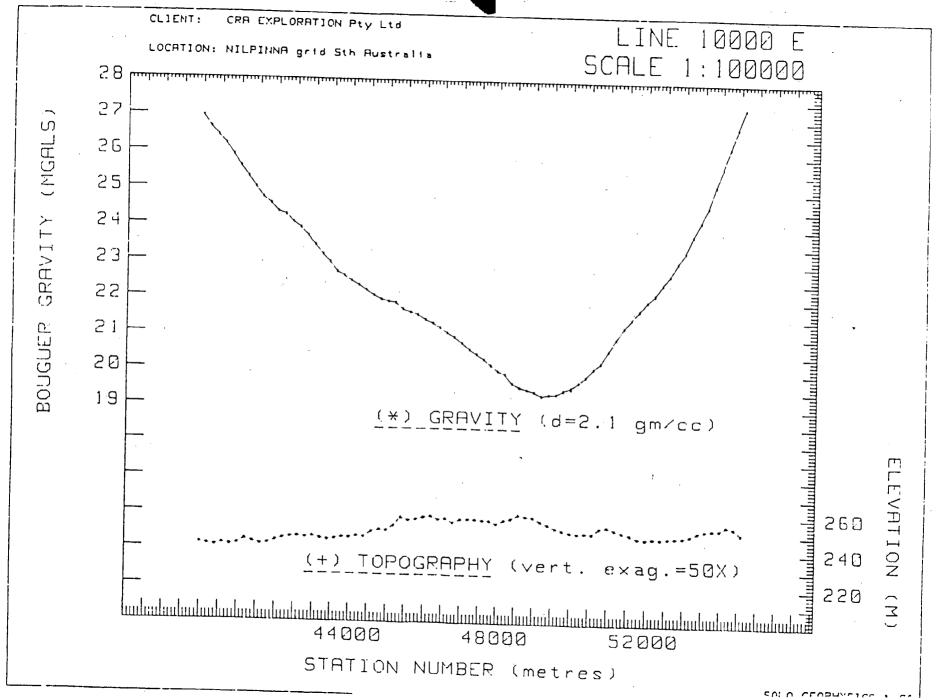
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133 0 5000 80000 280.70 3 8 RP1 31.06 30.68 27.50 20.32 27.15 55.97 \$2.77 \$2.62 22.48 \$21.28 \$1.34 \$0.5000 80000 280.70 37 \$ RP1 31.04 30.86 27.48 \$20.30 27.13 25.79 \$2.77 \$2.62 22.48 \$21.28 \$21.30 \$1.35 \$0.5000 80000 280.70 37 \$ RP1 31.06 30.69 \$27.48 \$20.30 27.15 25.99 \$24.88 \$23.62 22.48 \$21.28 \$27.15 25.99 \$24.88 \$23.62 22.48 \$21.28 \$27.15 25.99 \$24.88 \$23.62 22.48 \$21.28 \$27.15 25.99 \$24.88 \$23.62 22.48 \$21.28 \$27.15 25.99 \$24.88 \$23.62 22.48 \$21.28 \$27.15 25.99 \$24.88 \$23.62 22.48 \$21.28 \$27.15 25.99 \$24.88 \$23.62 22.48 \$23.27 \$24.88 \$23.27 \$25.28 \$27.90 \$24.88 \$23.27 \$25.28 \$27.90 \$24.88 \$23.27 \$25.28 \$27.90 \$24.88 \$23.27 \$25.28 \$27.90 \$24.88 \$23.27 \$25.28 \$27.90 \$24.88 \$23.27 \$25.28 \$27.90 \$24.88 \$23.27 \$25.28 \$27.90 \$27.90 \$27.28 \$27.90 \$2	133 0 50000 80000 280.70 38 RPT 31.06 30.88 (29.50 20.32 27.15 25.97 2.77 23.06 22.44 21.26 13.34 0 50000 80000 280.70 37 RPT 31.06 30.87 27.88 20.30 27.15 25.90 2.77 23.06 22.44 21.26 13.34 0 50000 80000 280.70 37 RPT 31.06 30.87 27.8 20.30 27.15 25.90 24.08 23.62 22.44 21.26 13.34 0 50000 80000 280.70 37 RPT 31.06 30.87 27.8 20.30 27.15 25.90 24.08 23.62 22.44 21.26 13.34 0 50000 80000 279.31 38 31.72 30.75 27.8 20.20 27.10 23.72 24.08 23.62 24.42 21.26 13.34 0 50000 80000 279.31 38 31.72 30.75 27.8 20.20 27.10 23.72 24.08 23.62 24.42 21.26 21.27 21.28 21.						43	31.04	30.66			27.00	23.02	24.63	23 44	22.26	21.07
135 0 50000 80000 280.90 37 * RPT 31.00 30.49 27.51 29.33 27.15 25.90 24.00 23.65 22.44 21.27 135 0 50000 80000 277.31 3B 31.92 30.65 27.46 20.28 27.10 23.72 24.73 23.75 25.90 24.00 23.65 22.44 21.27 137 0 50400 80000 277.31 3B 31.92 30.65 27.46 20.28 27.10 23.72 24.73 23.75 25.50 24.71 23.75 25.66 21.37 24.75 23.75 25.00 24.00 23.75 25.56 21.37 24.75 23.75 25.00 24.00 23.75 25.56 21.37 24.75 23.75 25.00 24.00 23.75 25.56 21.37 24.00 27.65 23.75 25.50 24.00 23.75 25.56 21.37 24.00 27.65 23.75 25.50 24.00 23.75 25.50 24.00 27.65 23.75 25.25 24.30 24.00 27.65 23.75 25.25 24.30 24.00 27.65 23.00 27.65	134 0 55000 80000 280.90 37 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$							841 31.86	30.68	49.50	28 75	27 15	25 62	24 70	27 47	2.2	
135 0 \$5000 8000 279.31 38 \$31.01 30.32 27.55 25.96 24.80 23.6c 22.44 21.72 13.10 130 0 \$5000 8000 279.31 38 \$31.71 30.74 27.55 27.56 26.37 22.75 23.7	135 0 50000 80000 297.91 3 9 8 8FT 31.92 30.55 27.46 20.28 27.10 23.72 24.73 23.73 24.39 24.61 23.62 22.44 21.27 137 0 50400 80000 297.94 38 31.92 30.75 29.58 20.41 27.24 26.07 24.90 23.73 22.55 21.39 139 0 50400 80000 297.94 38 31.91 30.74 29.57 20.40 27.23 26.06 24.89 23.72 29.92 21.39 139 0 50600 80000 275.50 38 31.91 30.74 29.57 20.40 27.23 26.06 24.89 23.72 29.92 21.39 140 0 50000 80000 275.50 38 31.91 30.74 29.57 20.40 27.23 26.06 24.89 23.72 22.55 21.30 141 0 51200 80000 275.50 38 32.99 30.95 29.80 20.65 27.50 26.05 29.97 27.71 26.76 27.71 27.72							RP1 31.114	30.85	27.48	~ CD 3H						- · · · ·
137 U 5040U 80000 279.31 38 31.72 30.75 27.50 20.41 27.24 26.07 24.79 23.77 21.37 21.50 21.37 13.0 U 5040U 80000 279.22 38 31.91 30.74 29.57 20.40 27.23 26.06 24.87 23.72 22.55 21.30 13.91 U 50600 80000 279.22 38 31.91 30.74 29.57 20.40 27.23 26.06 24.87 23.72 22.55 21.30 140 U 5120U 80000 274.05 38 32.00 30.84 29.87 20.35 27.50 26.22 29.07 23.71 26.76 27.30 26.02 29.07 23.71 26.76 27.30 26.35 27.50 26.35 27.50 24.05 27.50 24.05 27.50 24.05 27.50 26.35 27.50 24.05 27.10 26.06 27.05 26.02 29.07 23.71 26.76 27.05 26.22 29.07 23.71 26.76 27.05 26.22 29.07 23.71 26.76 27.05 26.22 29.07 23.71 26.76 27.05 26.22 29.07 23.71 26.76 27.05 26.22 29.07 23.71 26.76 27.05 26.22 29.07 23.71 26.76 27.05 26.22 29.07 23.71 26.76 27.05 26.22 29.07 23.71 26.76 27.05 26.22 29.07 23.71 26.76 27.05 26.22 29.07 23.71 26.76 27.05 26.22 29.07 23.71 26.76 27.05 26.22 29.07 23.71 26.76 27.05 26.22 29.07 23.71 27.05 26.25 27.05 26.25 27.07 24.25 29.07 27.05 26.25 27.05 27.05 26.25 27.05 27.05 26.25 27.05 27.05 26.25 27.05 27.05 26.25 27.05 27.05 26.25 27.05 27.05 26.25 27.05 27.05 27.05 26.25 27.05 27.05 27.05 27.05 27.05 27.05 27.05 27.05 27.05 27.05 27.05	136			0 50000				51.05	30.67	27.51	28.33	27.15	25.98	24.80	23.62	22.44	21 27
130 U 50400 80000 279.22 38 31.71 30.74 29.57 20.40 27.22 28.08 24.67 24.76 23.72 22.59 21.38 13.71 30.74 29.57 20.40 27.23 26.06 24.89 23.72 22.59 21.38 13.71 30.74 29.57 20.40 27.23 26.06 24.89 23.72 22.59 21.38 13.71 30.74 29.57 20.40 27.23 26.06 24.89 23.72 22.55 21.30 14.0 0 51000 80000 274.05 38 32.09 30.08 29.80 20.65 27.50 26.35 25.20 24.05 22.91 21.76 14.1 U 51200 80000 274.65 38 32.09 30.08 29.80 20.65 27.50 26.35 25.20 24.05 22.91 21.76 14.1 U 51200 80000 273.63 38 32.09 31.09 29.80 20.65 27.50 26.35 25.20 24.05 22.91 21.76 14.1 U 51200 80000 273.63 38 32.09 31.09 29.80 20.65 27.50 26.35 25.20 24.05 22.91 21.76 14.1 U 51200 80000 273.63 38 32.50 31.09 29.80 20.65 27.50 26.35 25.20 24.05 22.91 21.75 14.1 U 51200 80000 273.63 38 32.50 31.40 30.25 29.80 20.65 27.50 26.35 25.20 24.05 22.91 21.75 14.1 U 51200 80000 274.79 38 32.50 31.40 30.25 29.80 27.55 26.77 25.52 29.40 23.30 22.14 14.1 U 51200 80000 274.79 38 32.71 31.56 30.40 29.25 28.10 26.95 29.00 24.65 23.49 22.34 14.1 U 51200 80000 274.23 38 32.93 31.67 30.40 29.25 28.10 26.95 29.00 24.65 23.49 22.34 14.0 U 52000 80000 274.23 38 32.93 31.67 30.40 29.25 28.10 26.95 29.00 24.65 23.49 22.34 14.9 U 52000 80000 274.23 38 32.03 30.70 31.74 30.59 29.44 20.30 27.15 26.00 24.85 23.70 22.55 14.9 29.70 14.9 U 52000 80000 274.23 38 32.21 30.70 31.73 30.76 27.53 26.47 27.53 26.40 25.60 24.45 23.30 25.55 14.9 29.70 25.00 26.00 27.5 26.	139	<u> </u>			B0000				30.03	£7.40	20.28	27.10	23.72	24.73	23.37	22.39-	
130 0 50600 80000 279.22 38 31.91 30.74 29.57 20.40 27.23 26.06 24.89 23.72 22.55 21.30 140 0 51000 80000 274.05 38 32.00 30.94 29.57 20.40 27.23 26.06 24.89 23.72 22.55 21.30 140 0 51000 80000 274.05 38 32.00 30.94 29.57 20.53 27.36 26.22 29.07 23.71 28.70 24.05 141 0 51200 80000 274.55 38 32.00 30.94 29.59 20.65 27.50 26.33 25.20 24.05 22.91 21.76 142 0 51400 80000 273.63 38 32.37 31.22 30.07 20.93 27.70 26.63 25.49 24.34 23.19 22.04 144 0 51800 80000 274.79 38 32.50 31.40 30.25 29.00 27.70 26.63 25.49 24.34 23.19 22.04 144 0 51800 80000 274.79 38 32.50 31.40 30.25 29.07 27.70 26.63 25.49 24.34 23.19 22.04 144 0 51800 80000 274.79 38 32.37 31.25 20.07 20.73 27.70 26.63 25.49 24.34 23.19 22.04 144 0 51800 80000 274.79 38 32.70 31.56 30.07 29.70 26.65 27.77 25.82 4.46 23.30 22.14 144 0 51800 80000 274.79 38 32.03 31.69 30.40 29.25 28.10 26.95 20.00 24.65 23.49 22.34 144 0 52000 80000 274.73 38 32.07 31.73 30.75 29.44 20.30 27.15 26.00 24.85 23.49 22.34 149 0 52400 80000 274.23 38 33.20 31.69 30.76 29.44 20.30 27.15 26.00 24.85 23.70 22.55 149 0 52800 80000 274.74 38 33.30 32.24 31.10 29.70 20.04 27.75 26.26 29.95 23.70 22.55 149 0 52800 80000 274.74 38 33.30 32.24 31.10 29.70 20.04 27.75 26.26 29.95 23.70 22.55 149 0 53000 80000 274.74 38 33.30 32.24 31.10 29.70 20.04 27.75 26.26 29.95 23.70 22.55 149 0 53000 80000 274.74 38 33.30 32.24 31.10 29.70 20.04 27.75 26.26 24.41 32.29 29.07 27.92 26.78 25.65 24.40 23.34 27.35 26.20 29.07 27.92 26.78 25.65 24.40 23.34 27.35 26.20 29.07 27.92 26.78 25.65 24.40 23.34 27.25 26.40 25.26 24.40 23.34 27.35 26.20 29.07 27.92 26.78 25.65 24.40 23.34 29.35 26.20 29.07 27.92 26.78 25.65 24.40 23.34 27.55 26.20 29.07 27.92 26.78 25.65 24.40 23.34 27.25 26.40 25.26 24.40 23.34 27.35 26.20 29.07 27.92 26.78 25.65 24.40 23.34 27.55 26.20 29.07 27.92 26.78 25.65 24.40 23.34 27.55 26.20 29.07 27.92 26.78 25.65 24.40 23.34 27.55 26.20 29.07 27.92 26.78 25.65 24.40 23.34 27.55 26.20 29.07 27.92 26.78 25.65 24.40 23.34 27.55 26.20 29.07 27.92 26.78 25.65 24.40 23.35 26.20 29.07 27.92 26.	130											27.24	26.07	24.90	23.75	22.56	21.39
140 0 51000 80000 274.05 38 32.00 30.08 27.57 20.53 27.36 26.22 29.07 23.72 22.56 21.58 141 0 51200 80000 274.05 38 32.07 30.95 29.80 20.65 27.50 26.35 25.20 24.05 22.91 21.76 142 0 51400 80000 273.63 38 32.37 31.22 30.07 29.73 27.70 26.63 25.40 24.34 23.19 21.76 144 0 51600 80000 276.25 38 32.37 31.22 30.07 20.73 27.70 26.63 25.49 24.34 23.19 21.76 144 0 51600 80000 274.77 38 32.77 31.25 30.07 20.73 27.70 26.63 25.49 24.34 23.19 21.76 144 0 51600 80000 274.77 38 32.71 31.56 30.40 29.25 28.10 26.95 25.00 24.65 23.49 22.34 145 0 52000 80000 274.73 38 32.71 31.56 30.40 29.25 28.10 26.95 25.00 24.65 23.49 22.34 146 0 52000 80000 274.23 38 32.93 31.57 30.59 29.49 27.37 28.23 27.10 25.95 24.46 23.30 22.14 147 0 52400 80000 274.23 38 32.93 31.74 30.59 29.49 20.30 27.15 26.00 24.65 23.49 22.34 149 0 52600 80000 274.84 38 32.07 31.74 30.59 29.49 29.00 24.65 23.70 22.55 140 0 52600 80000 270.87 38 33.07 31.73 30.78 27.50 26.47 27.75 26.20 25.65 23.90 22.75 140 0 52600 80000 270.87 38 33.07 31.73 30.78 27.50 26.47 27.75 26.20 25.65 23.90 22.75 140 0 52600 80000 274.04 38 33.07 31.73 30.78 27.50 26.47 27.75 26.20 25.55 25.42 41.3 22.99 150 0 53800 80000 274.04 38 33.07 32.25 31.10 27.77 28.03 27.67 26.55 25.42 41.3 22.99 150 0 53800 80000 274.04 38 33.07 32.52 31.30 32.24 31.10 27.77 28.03 27.67 26.55 25.42 41.0 23.33 152 0 53400 80000 274.04 38 33.07 32.52 31.37 30.22 29.07 27.92 26.78 25.63 24.40 23.33 152 0 53400 80000 274.04 38 33.07 32.70 31.74 30.30 30.70 29.55 26.41 27.26 26.11 24.97 23.02 153 0 53400 80000 274.04 38 33.07 32.52 31.10 27.77 28.03 27.67 26.55 25.42 41.02 23.43 152 0 53400 80000 274.04 38 33.07 32.52 31.10 27.77 28.03 27.67 26.55 25.42 41.02 23.43 152 0 53400 80000 274.04 38 33.07 32.52 31.37 30.32 29.07 27.92 26.78 25.63 24.40 23.33 152 0 53400 80000 274.04 38 33.07 32.52 31.37 30.30 30.00 27.67 26.60 27.85 30.00 27.00 38 34.71 33.57 32.64 31.50 30.30 30.16 29.03 27.07 26.64 29.00 24.44 40.23 33.15 30.00 27.00 20.80 27.00 20.80 27.00 27.85 39 30.00 27.00 30.77 32.64 31.50 30.30 30.70 29.55 26.41 27.	140 0 51000 80000 274.05 3B 32.0V 30.95 27.50 20.35 25.20 24.05 22.71 21.30 141 0 51200 80000 274.05 3B 32.0V 30.95 29.80 20.65 27.50 26.35 25.20 24.05 22.71 21.76 142 0 51400 80000 273.63 3B 32.37 31.22 30.07 20.93 27.50 26.35 25.20 24.05 22.71 21.76 143 0 51600 80000 275.25 3B 32.37 31.22 30.07 20.93 27.50 26.35 25.20 24.05 22.71 21.76 143 0 51600 80000 276.25 3B 32.37 31.22 30.07 20.93 27.70 26.63 25.42 24.34 23.17 22.04 144 0 51800 80000 274.79 3B 32.71 31.56 30.40 27.25 28.10 26.95 25.37 24.65 23.47 22.04 145 0 52200 80000 274.79 3B 32.71 31.56 30.40 27.25 28.10 26.95 25.00 24.65 23.47 22.34 145 0 52200 80000 274.23 3B 32.87 31.67 30.34 27.37 28.22 27.10 28.63 23.49 22.34 147 0 52200 80000 274.23 3B 32.87 31.67 30.34 27.37 28.22 27.10 28.65 23.49 22.34 147 0 52200 80000 274.23 3B 32.87 31.67 30.34 27.37 28.22 27.10 28.65 23.49 22.34 147 0 52200 80000 274.73 3B 33.21 32.00 30.94 27.10 28.67 27.53 26.00 24.65 23.49 22.55 149 0 52200 80000 270.87 3B 33.21 32.00 30.94 27.10 28.67 27.53 26.00 24.65 23.49 22.55 149 0 52200 80000 271.73 3B 33.21 32.00 30.94 27.10 28.67 27.53 26.00 24.85 23.70 22.55 149 0 52200 80000 271.73 3B 33.21 32.00 30.94 27.10 28.67 27.53 26.00 24.85 23.70 22.55 149 0 52800 80000 271.73 3B 33.21 32.00 30.94 27.10 28.67 27.53 26.00 24.85 23.70 22.55 149 0 52800 80000 271.73 3B 33.07 32.22 31.10 27.97 28.03 27.09 26.78 25.62 24.13 22.99 150 0 53000 80000 274.04 38 33.47 33.50 32.22 39.07 27.92 26.78 25.62 24.13 22.99 150 0 53000 80000 274.04 38 33.47 33.50 32.22 39.07 27.92 28.00 28.78 25.62 24.10 28.94 27.15 28.00 80.00 270.74 38 34.74 33.35 30.22 29.07 27.92 28.07 28.79 25.62 24.10 28.07 27.15 28.00 80.00 270.36 38 34.74 33.35 30.22 29.07 27.92 28.00 28.79 27.92 28.00 28.42 25.55 28.41 27.00 28.42 25.55 28.41 27.00 28.42 25.55 28.41 27.00 28.42 25.55 28.41 27.00 28.42 25.55 28.41 27.00 28.42 25.55 28.41 27.00 28.42 25.55 28.41 27.00 28.42 25.55 28.41 27.00 28.42 25.55 28.41 27.00 28.42 25.55 28.41 27.00 28.42 25.55 28.41 27.00 28.42 25.55 28.41 27.00 28.42 25.55 28.42 27.00 28.00 27.35 28.2						38				20.40	27.23	26.08	24.81	23.72	22.35	- 21 . 38
141 0 51200 80000 274.05 38 32.07 30.95 29.80 20.65 27.50 26.35 25.20 24.05 22.70 21.76 142 0 51400 80000 273.63 38 32.37 31.07 29.74 20.00 27.86 25.52 25.37 24.23 25.49 24.75 24.75 143 0 51600 80000 273.63 38 32.37 31.22 30.07 20.93 27.70 26.63 25.49 24.34 23.17 22.04 144 0 51800 60000 274.79 38 32.74 31.55 30.40 27.25 28.10 26.45 23.49 22.34 144 0 51800 80000 274.79 38 32.71 31.55 30.40 27.25 28.10 26.45 23.49 22.34 145 20.37 24.25 28.10 24.45 23.49 22.34 146 0 51800 80000 274.23 38 32.71 31.55 30.40 27.25 28.10 26.75 27.05 28.46 23.49 22.34 146 0 52200 80000 274.23 38 32.03 31.67 30.54 27.37 28.22 27.10 25.75 24.01 23.66 22.51 147 0 52200 80000 274.23 38 32.03 31.67 30.54 27.37 28.22 27.10 25.75 24.01 23.66 22.51 147 0 52200 80000 274.23 38 32.03 31.67 30.54 27.37 28.22 27.10 25.75 24.01 23.66 22.51 149 0 52200 80000 274.23 38 33.07 31.73 30.76 27.63 25.47 27.54 20.20 24.85 23.70 22.55 149 0 52200 80000 274.24 38 33.17 31.73 30.76 27.63 25.47 27.54 20.20 24.85 23.70 22.55 149 0 52200 80000 274.04 38 33.07 32.52 31.37 30.76 27.63 25.47 27.54 20.20 24.85 23.70 22.55 149 0 52000 80000 274.04 38 33.07 32.52 31.37 30.22 29.07 27.79 26.67 27.53 26.40 25.26 24.13 22.97 15.0 15.50 80000 274.04 38 33.07 32.52 31.37 30.22 29.07 27.79 26.78 25.69 24.40 23.33 15.2 30.85 27.70 31.73 30.75 27.75 20.75 2	141 0 51200 80000 272.57 38 32.07 30.95 29.80 20.65 27.50 26.35 25.20 24.05 22.91 21.76 142 0 51400 80000 273.63 38 32.37 31.22 30.07 20.73 27.70 26.63 25.49 24.34 23.19 22.96 144 0 51800 80000 274.79 38 32.56 31.40 30.25 27.00 26.83 25.49 24.34 23.19 22.06 144 0 51800 80000 274.79 38 32.71 31.55 30.40 22.25 20.10 26.95 25.00 24.65 23.49 22.34 145 30.40 29.25 20.10 26.95 25.00 24.65 23.49 22.34 146 0 52200 80000 274.23 38 32.03 31.67 30.44 27.55 26.77 25.62 24.46 23.30 22.14 146 0 52200 80000 274.24 38 32.37 31.25 31.97 30.54 27.37 28.29 27.10 25.95 24.60 24.65 23.70 22.55 140 20.25 20.10 26.95 25.00 24.65 23.70 22.55 140 20.25 20.10 26.95 25.00 24.65 23.70 22.55 140 20.25 20.10 26.95 25.00 24.65 23.70 22.55 140 20.25 20.10 26.95 25.00 24.65 23.70 22.55 140 20.25 20.10 26.95 25.00 24.65 23.70 22.55 140 20.25 20.10 26.95 25.00 24.65 23.70 22.55 140 20.25 20.10 20.25 20.25 20.10 20.25 20.25 20.10 20.25 20.25 20.10 20.25 20.25 20.10 20.25 20.25 20.10 20.25 20.25 20.10 20.25 20.25 20.10 20.25 20.25 20.10 20.25 20.2											- 27-32	20.00	24.89	23.72	22.55	21.38
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## # F 6 1:	******** • STATIU	**************************************	GR1D	ELEVATION	4##### LOOP	REFERENCE OF THE SECOND	*****	*****	****	****	GERREIO	****	*****	****	******	*****
•	•	NORTH	EAST	(netres)	₩.	#F15	1.8	1.7	2.0	2 1	(gms/c)	:1 				2.7
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3		0 28400	85000	247.47	42		33.50	32.81	31.78	30 74	29.71 29.33	28.67	27.64	26.60	25.56 25.20	24.53
<u>-</u>		0 28600	85000	247.34	42		33.34	32.31	31.27	30 23	29.20	28.16	27.12			
د ن		9 28800 0 29000	85000 85000	247.40 248.11	42		22 50	32.16	31.13	30 07	29.05	28.01	26.78			23.87
		0 29200	85000	248.27	42		33 . 23 33 . 16	32.12	31.15	30.11	29.07	28.03 27.96	26.99 28.91			23.0?
<u> </u>		U 2940ti	85000	249.30	42		32.79	31.94	30.90	29 05	28.81	27.76	26.71	25.07 25.67	24.83	
10		0 29700 V 30000	95000	250.52	42		32 "	31.70	20.05	27 50	28.55	27.50	26.45	25.40		23.30
<u></u>		9 30200	85000 85000	249.95 249.03	42		32 50 32 36	31.45	30.40	27.36	28.31	27.26	26 . 21	25.17	24.12	
12		0 30400	8500v	250.73	42		32 20	31.31	30.26	27 CS	20.17	26.94	25.07 25.09	25.03 24 84		22.93 22.74
		20800	85000	252.11	42	•	32.22	31.17	30.11	27 05	28.00	25.74	22.88	24.03	- 23.77	22.71
<u>) 4</u> 15		0 30000 0 31000	85000 85000	250.50	42		32 27	31.22	30.17	29.12	28.07	27.02	25 97	24.72	23 67	22.82
16		U 31208	82000 82000	252.44 252.24	42		32 32 32 32	31.26	39.20 30 21	27.15 27.15	28.07 28.07	27.03	25 77 25 98	24.71	23.86 23.86	22.00
17		0 31400	95000	250.37	42		32.51	31.46	30.41	27 36	28.31	27.25	26.21	25 13	23 86	22.01 23.06
1 U	·	0 31600	95000	252.22	42		32 "7	31.71	30.66	27.60	28.54	27.49	26.43	25 37	24 31	23.26
		7 31900 " 32000	82000	253.03" 252.59	42° 42		33 (15) 33 (46)	25.04	31:03	"27.77	28.70	27.84	26 78	25.72	24.00	23.80
23		0 "32200"	82000	255.87	42		33 . 46 33 . 65	32 40 32:50	31.35	30.29 30.43	29.23 27.36	28.17	27.11	26 05	24.97	
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23 24		n 75800 n 25900	<u>85000</u>	256.47	72		33 "4	32.67	31.59	30.51	29.44	28.36	27 28	26.21	25.13	24.05
		v 32000	85000 85000	254.71 255.44	42 42		33 17 33 91	32.70	31.63	30.57	29.50	20.43	27.36	26.30	25.23	24.16
29.0	1	0 33200	85000	256.60	42		33 m	32.84 32 90	31.77 31.82	30.70 30.75	29.63° 29.67	28.55	27.39 27.52	26,45	25.35 25.37	24.28
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		0" "34000	B5000	257.63			34 20	33 12	32.04	30.76	29.80 29.89	28.80 28.61	-27 73	26 64 - 26.32	25.56 25.37	24 48
30 33		0 34200	85000	259.91	41		34 21	33 12	32.03	30.95	29.86	28.77	27.68	26.59	25.50	.24.41
33		0 34400 9 34600	95000 95000	260.76 261.88	41		34 27 34,27	33.10	32.08	30.99	29.90	28.81	27.71	26 62	25.53	24.43
		34900	92000	263.79	. 41		33 . ?3'''	33.17	32 07	31.00	29.70 29.51	28.40	27.70 27.30	26 61	25.51 25.02	24.41
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30		75200 1 35400	95000 95000	269.35	41		327.52	21.26	30.25	27.13	28.00	26.87	25.74	24.61	23.49	22.38
35.	···	35200	05000	266.42 263.07	41		31.66	30.54	29.43	29 31	27.19	26.08	24.96	23 05	22 73	21.61
411		35800	6 5000	263.26	41		31 86	29.95	28.85	27 09 27 75	26.78	25.60 25.54	24.58	23.48	22.37	21.27
41 42		36000"	85000	287.13	41	••	31.03	29.91	20.79	27.67	26.55	25.44	24.32	23.20	22.00	20.95
		36200 36400	85000 	260.50 768.12	. 41 4 1		31.03	29 90	28.78	27.65	26.53	25.40	24.28	23 15	22.02	20 70
44		36600	85000	270.74	41		31:07- 31:10	30.05	20.03	27.70 27.78	26.58 26.64	-25.45- 25.51	24 33 24 37	- 23.21 - 23.24	22.00 22.10	- 20.96 20.97
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	70	0 42000	82000		36	24.46	23.30	22.14	20.77	20.02	18.86	17.70	16.54	15.38	14.22	
		¢ 4300¢	85000		36	24 27	23.10	21.93			18.65	17.48	18.32		"13.99"	
	ย์แ	U 43400	85000		28.	24717					18.41 18.28	17.29	16.06	14.89	13.72	
	31	0 43600	95000 85000		36	24 11	22.93	21.75	20.57	12.38	10.20	17 02	15.04	11.75	- 13.37 -	
	02.	0 43800	85000	283.49	36	24.07	55.09	21.69		19:32	18.13	17. 94				
	<u> </u>	1 44000	B5000		36	24 00	22.81	21.62	20.43	19.24	10.05	16.86	15 A7	14 40	47 20	
<u> </u>	છ.)	11 44201)	95000	286.65	36	23.71		21.21	20.32	19.12	17.92	16 73	45. 5.5			
	चड	44400	82000 ·	285.15	36 38	23.03 23.03	22.63	21.43	20.22	17.U.T	17 H2	17. 62	45 43	4 4 00	13 02	i
	136	V 4460n	85000	279.15	36	23.03	22.64	~ A . 77	CU. CS	17 117	- T 					
	37	0 44800	82008	279.22	36	23.70	22.73 22.81	~1.56	20.39	19.22	18.05	16.88	15.71	14.54	13 32	
	gr	45000	8500v	277.54	34	24.84	22.67	~1.07	20.7/	17.30	111111	7 7 7				
	90 90	75200-	B2000	275.59	~ 36 /Å	24.00		21.77	20.52	17.30	10.22	17.06	15.82	14 77	47 67	
	71	45400	D5000	275.55	36 🛝	24.26			20 79	19 64	18:31	17.15	18.00	14.04	13.67	
	90	"-0"" "45600"" U 45800	32000	275.42	36	54:36	23:20	22:05-	20 70-	-1 7-7 4-	18.48 16.57	17.33	16 17	15.02		
	 73		82000- 82000	273.89	36	24.96	23.41		21 11	17.96	18.82	17 67	10.20	15.12	13.97 -	
	~ 4	0 46000	85000	272.57 272.57	32	247697	23.54	22.40	21.26	20.11	18.97		10.52		14.23	
<u> </u>		9 46200	82000	274.79	36 ¢ HPT.			22.40	21 26	20.11	18.97	17.83	16 69	15 55	14.40	
	46	U 46400	85000	276.78	35	24.07	23.74"	25.28.	21.43-	20:20	77 13	17 97	72.77	70-0-	14.52	
	35	9 46600	85000	277.58	35 35	25.32		~~.00	21,04	20.40	19.32	10 . 16	17 00	15 04	44 45	Č
	90	0 46800	8500v	277.06	35	25.26 25.56		44.70	21.7Y	~Z0.63~	37.47	15:30	-17-14-	19-00-	14.81	
	79	47000	85000	275.73	33	- 25.57-		-3.20	22 1U	20.74	19.78	10.61	17.45	16.27	15 13	
	100	B 47200	85000	274.44	35	25.70		63.25	22.10	20.74	19.78	10 81		16.31	13.16	
	101	0 47400	85000	270.06	75			23.48	ec. 33	21.18	20.03	1U.88	17.73	14. 511	45 47	
	102	0 47600	85000	266.69	35	28.10			22.59	21.46	20:32	13.13	18 113	16-22-		
	103	47800	820.00	288.61	35	26.45			46./3 23 nn -		20.51	17.40	18.20	17.16	16.04	
	101	9 40000 B 48900	82000	271.49	35	26.66			23.24	22.11	20.83	10 02	10.37	17-45-	16.32	
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	107	~~~~~~48500~··	02000	269.86 	35		26.02	24.88	23.75	22.62	21.49	20 36	10 31	10 40		_
	100	U 40800	85000		35	· 44 · 34 · -		49.13	24 01	22.00	21.76 -	20.64	19 4 -	40-30-		
			<u>82000</u>	267,28 *** 267 7,47*****	35		20.30	-3.60	C4.14	23.02	21.90	2U 7A	10 1.1.	10 C4		Ľ
	110	n 4920u	85000	268.01	35					23.02	21.70	29.78 —	19-44-	40-54-		
		9400	_62000	270.76	35			23.64 j	24.11	22.98	21.87	20.75	19.62	18.50	17 38	
	112	9 49600	85000	273.43	32 22			25.22	24.00	25.73	21.81	**************************************	17.34	18.41	17 27	
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	114	" 500vv	85000	282.35	6			52.XX 1	23.76 ·	22.01···	21:66-7	20.51-	17-30	18:21-	17-06	
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		•			0.0	r)										
		 	85000	<u>"282", 35 "</u>		27.38 🗔		25.02	23.05		दश क्ट्रा	54.58	47.19	37.72	10.73	
	110	0 50000	85000	262 35	37 1 RPT		01.65	25.02 25.02	23 03 23 03	22.65	21.47		19.10 19.10		16.73	
. III	117	u 50000 u 50200	85000	282.35	35 # KPT		26.20 26.20	25.02	23 83	22.05	21.48		-	17.94	15.76	
£ !"	121	9 50400	85000	293.07	26		26.14	24.95	23.74	22.57	21.38	20:19		17.01	16.62	
/ i	122	# 5060H	85000	280.49	26			115.05	23.00	22 70	21.53	20.35	19,17	12.00	16.02	<u> </u>
1	123	0 50800 4 51000	95000 95000	280.29 284.12	26 21		26.14 26.11	24.96	23.79	22.54	21.44		18 "	17.78	16.59	- :
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s)	120	9 51400	8500 0	276.77	2&		26.02	24.86	23.70	22.54	21.38		19.06	17.90 17.84	16.74	ં કે
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• : • 1	1311	n 52200	8500v	283.32	26	27.16	25.97	24.70	23.59	22.41	21.22		18.04	17.66	16:47	
FVV	131	U 5240U	85000	289.03	26		25.89	24.68	23.47	22.26	21.05	17.83	18.52	17.41	16.20	017
· · · U	132	# \$2600 U \$2800	85000 85000	285.82	<u> 26</u>		25.47 25.00	24.77	23.37		21.03			17.44	16.25	- 45
n l	133	n 53000	85000	284.67	2 t		25.71	24.52	23.32	22.13	20.94	19.74	18.55	17.36	16.17	- :
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s <u> </u>	1'36	0 53400 0 53600	85000 85000	271.40 267.81	<u>26</u> 26		25.53 25.38	24.39	23.25	22.12	20.75	17.07		17.52	15.40	:
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20 ; 21 .	141	0 54200 t 54400	85000	268.75	27		25.40	24.28	23.15	22.02	20.90	12.77	18.64	17.52	16.39	21
	143	0 54600	85000	270.01	27		25.44	24.31	23.18	22.05	20.72	17.79	10.65	17.52	16.39	E F
n (1)	144	# 5480H	85000	267.23	27			124.35	23.23	22.11	20.99	20.00	18.75 18.07	17.63 17.78	16.51	1 10
24	1.4%	0 55000 0 55200	85000 85000	264.73 265.71	27		25.57	24.47	23.36	22.24	21.13	20.02		17.79	16.68	12
, ", — —	147	55400	85000	262.67	27	26.03	25.73	24.63	23.53	22.43	21.33	20.23		18.03	15.72	
n'	140	n 5560n	85000	263.50	<u>27</u> 29		25.83 25.77	24.72 24.88	23.62	22.51	21.41	20.30	17.20	18.10	16.49	
n;	1 47 150	0 55000 0 55000	85000 85000	264.57 265.05	27 27		25.77	24.99	23.08	22.77	21.66	20.55		18.33	17.21	,
"——— a	วิธีจ๊	\$6200	B\$0.00	262.22	27	27.37	26 30	25.20		23.00		20.80		10.00	17.30	
31	152	0 56400	05000	264.73	27		26.37	25.26	24.15 24.37	23.04	21.93 -22.15	20.82 21.04	19.71 -19.74	18.60 18.83	17.50	;
32	153 154	0 56600 u 5680u	85000 85000	264.36 260.45	27 27 - 4		26.58 26.73	25.48 25.60	24.48	23.35	22.23	21.10	19.90	18.85	17.73	12
1:00		0 57000	85000	266.72	27 3		26.02	25.70	24.59	23.47	22.35	21.23	20.12	19.00	17.88	10
1.	156	0 57200	85000	262.56	27		27.00	25.90	24,80	23.70 23.74	22.60	21.58	20.40	19.30	18.20	<u> </u>
35	7757 "1 150	0 57400 0 57600	85000 85000	260.77 264.10	27		27:21 27:30	26.12 26.19	25.03	23.98	22.87		20.66	19.55	18.44	
"		57800	62000	264.70	27		27.52	26.41	25.30	24.15	23.08	21.97	20.06	17.73	18.65	
. 3t	160	u 58000	85000	260.71	27		27.62	26.53	25.44	24.34		22.16	21.06	17.97 17.98	10.08	;
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41		T 58400		260.33	29		27:70				23.53	22.44	21.33	20.26	17.17	—;
41	164	u 2860 n	82000	262.59	29		20.01	26.91	25.81	24.70			21.40	20.30	19.20 19.20	
44	165	0 50000 0 59000	85000 85000	262.35 259.13	. 29		28.00 28.00	25.90 27.00	25.80 25.91	24.70		22.50	21.57	20.48	19.40	
45	167	7 57200	62000	261.01			29.11	27.01	25.92	24.02	23.72	22.62		20.43	19.33	-
339	160	U 5948#	85000	262.17	29	29 20	28.18	27.88	25.70	24.88	23.70	22.69		20.49	19.39 17.26	<u> </u>
4	167	57600	820.00	2667.72	29		20.20 20.29	27.08 27.18	25.96 26.07	24.85	23.73		21.62	20.51	19.40	·
41	171	<u> </u>	<u>82000</u>	265.19	58		28.33	27.23	26.12	25.01	23.90	.22.80	21.65	20.38	17.48	
30 51	172	0 60200	85000	260.44	29	29.51	28.42	27.32	26.23	25.14		22.96		20.77	19.68	
\$2	173	60400	85000	~~258°, 02 ~~	29		28.47		26.31 26.43	25.23 25.36		23.07	21.59	20.90	19.82 19.98	- 3 -
u	17/1 17/1	0 60000 0 00000	85000	256.78 253.27	58	29.66 27.74	20.50		28.38	23.50	24.43	23.37	22:31	-21-25 -	20.19	l;
54 j	176	0 61000	85000	251.66	5.5	29 93	20.07	27.82	26.76	25.71	24.65	23.60		21.49		
34	<u></u>	0 61200	85000	251.49	59	<u>20.05</u>	20.77	27.74	28:08 27:05	25.03 26.00	24.76		22.67	21.61 21.82	20.56	,
и <u>:</u>	<u> 178</u> 17명	0 6140# 0 61560	85000 85000	- 249 ; 51 247 ; 55"	27 27	30,12 30,32	29.14	20.25	27.05	25.17	25.13	24:10		22.02	20.78	
	1300	9 61000	85000	247.35	27	30.52	29.54	20 50	27 46	26.43	25.37	24.35	23 32	22.20	21.24	I),
4	THY	62000	82000	24400	.54	30.71	29.60	20.86	27 63	25.51	25.58 25.82	24.55	23.53	22:50 22:77	21.76	
	<u> </u>	0 62200	82000	242.60		30	27.67	_ <u> </u>					_ 		<u> </u>	

										_				25.95	£4_42_			_ محت	
				-ยรับงิง	242.09				-31-63	311.702		-27-77-	27.21	26.14	25.17	24.35		22,12	
	1113	••	52400	นริยยย	242 70		257	•	31 JU	30 28	277 . 274	20 22	27.33	26.31	25.29			22.24	<u>.</u>
	13.50	**	626011		242.70		27		31 40	20 70	7.36		27.32	26.31	25.29	24.27	23.25	22.24	
	1975		25000	8,2000	242.70		30	7 701	31 3.5		29.36	20.34	27.48	26.47	25.45	24 44		22,42	- 1
-) VR	19	65886	65000	241.6		30		31.45	30.52	29.50	20.49	27.60	26.59	25.58	24 50	23.57		
	(BC)	IJ	P2000	05000	240.1		30		33 62	30.61	29.61	20.40	27.74	26.73	25.73	24.72	23.72	22.71	· , .
	100		63200	<u>85000</u>	239.0		30		31 32	30.75	29.75	20.74	27.42	26.92	25.92	24.72		22.72	
	187	13	63400	82000 85000	236.7		30		41 "2	30.92	27.92	20.74	27.94	25.94	25.74	24.74	23.74	22.94	- 10 to
	1570		63700	- 52000 	238.5		2.0.			20.22	29.93	29.10	29.10	27.10	26.11	25.10	24.10	23.10.	0
-	197	ų.	63000	85000 85000	230.5		30		3:: 10	31.10	30.10	27.11	28.11	27.12	20:12	- 25 : 13	24:13	-23.14	3.5
	172	ti	64000	B2000	- 237 3		30.		25us.	31.10		29,20	20.21	27.21	26.22		24.23	23.23	1.87.95
	193	- 0-	64200	85000	237.5		30		32.17	31.20	30.20	27.22	28.22	27.22	20.22	27.22	24.22	23.22	. X
	194	- 11	64400	85000	238.7		30		32.22	31.22	30.22		28.27	27.26	26.26	25.26	24.25	23.25	
	125		64600	85000	237.5		30		32,20	31.28	30.28	29.32	20.30	27.29	26.27	25.25	24.24	23.22	
	176		64888		242.4		30		32.37	31.35		29.43	28.41	27.30	26.36	25.33	24.31	23.29	
	197	U	65000	85000	244.2		30		32.50	31.48			28.34	27.31	25.28		24.21	-23.10	
	1 90	17	45200	<u>85000</u>	216.3		30		32.47			27.53	28.50	27.47	26.43	25.40	24.37	23.34	
	177	<u> </u>	65400		246.3		30		32.62		30.56				26.48	23.43		23.37	
	200	19	65600	85000	246.0		30		32.67	31.64		27.58			26.48	25.45		23.39	
	201	0	65800	85000	246.0		31	→ 1ℓP	7 32.67	31.64						25.52		23.46	- 1
	202	u	82800	05000	245.2		31		32.74	31.71				27.72	20		0	66400	
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<u>'' '''</u>	000 247.27	3	1		245.5	L.77	31		33.11		31.05		- 20 111	28.05		26.03			
	20%		66600	85000 85000	242		31		33.12				29.17		27.10	26.17		24.16	
	20%	 0	66000	85000	239.		31		33.21								25.23	24:23	
	200	1 1	67800 67200	82000	237		31		33.22	-32:27						26.24	25.24	24.23	
				עטטכם			31		33.::	32.22	31.25					26.31	25.31		
	5615	- U		05000	つてや	0 <i>E</i> .	٠,												
	210	Ð	67401	85000	239. 238.		21		337.31	32.31							25.30	24.30	
		<u>ü</u>	6740U	02000	238.	51			337.21	32.31 32.20	3 31.29	30.29	29.29	20.27	27.29	26.27		24.30	
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80	210 213 217	0 0 0	67400 67600 67600 67600	82000 82000 82000	238 . 238 . 238 .	51	31	· · · · · · · · · · · · · · · · · · ·	337.21	32.31 32.20	3 31.29	30.29	29.29 29.35	20.27	27.29 - 27.35	26.27	25.39	24.33	
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ı,	213 213 214 216	() () () ()	67400 67600 67600 67600	82000 82000 82000	238 . 238 . 238 .	51	31	F**YY*1	337.21	32.31 32.20	3 31.29	30.29	29.29 29.35	20.27	27.29 - 27.35	26.27	25.39	24.33	
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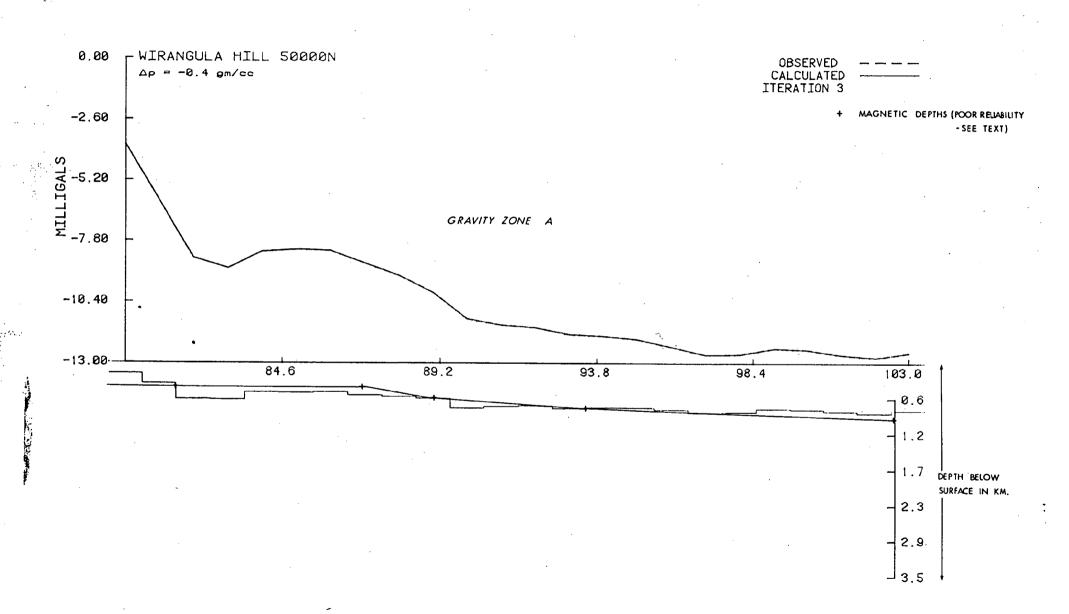
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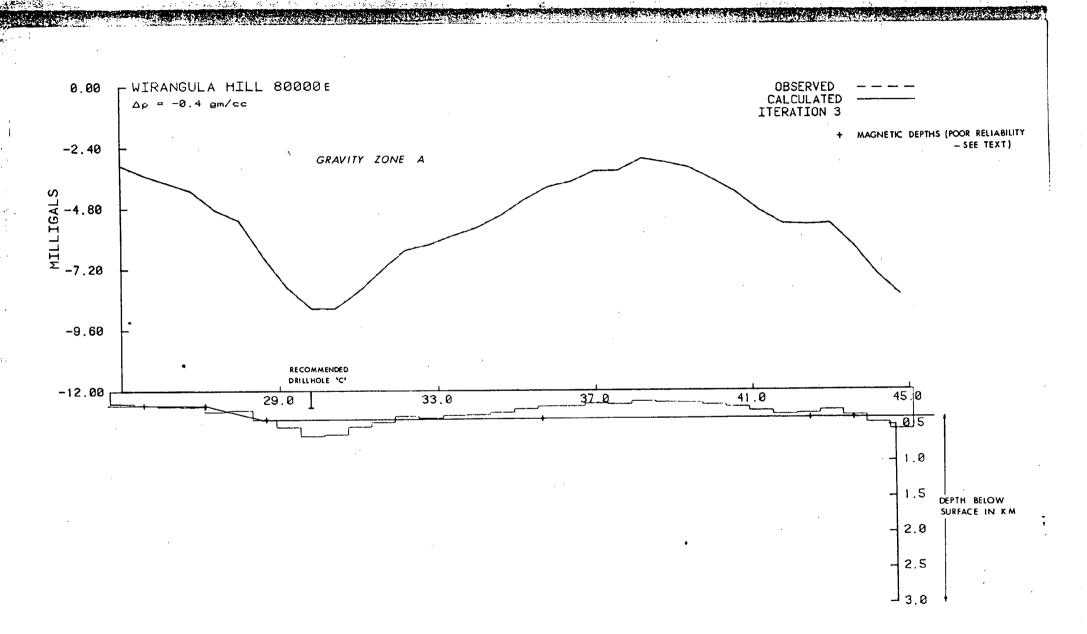
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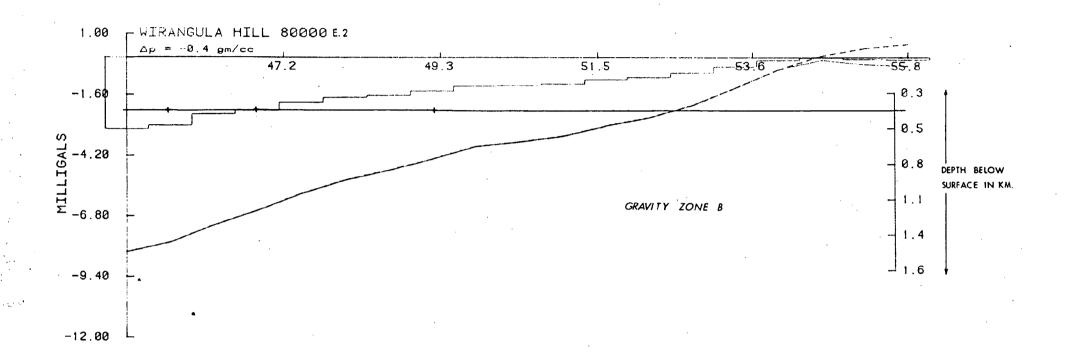
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## APPENDIX II

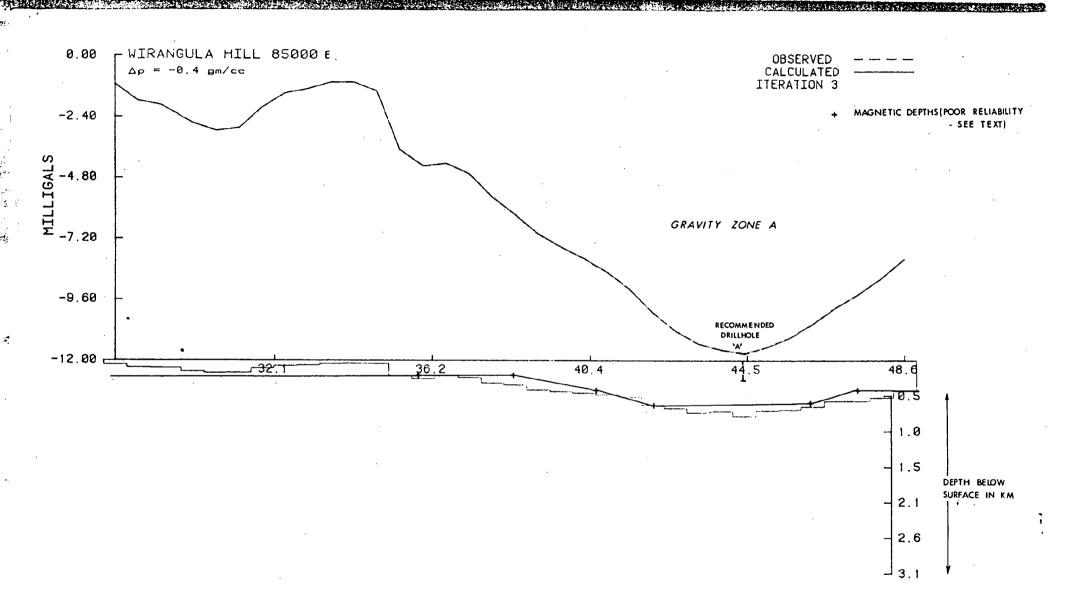
INVERSION PROFILES CALCULATED

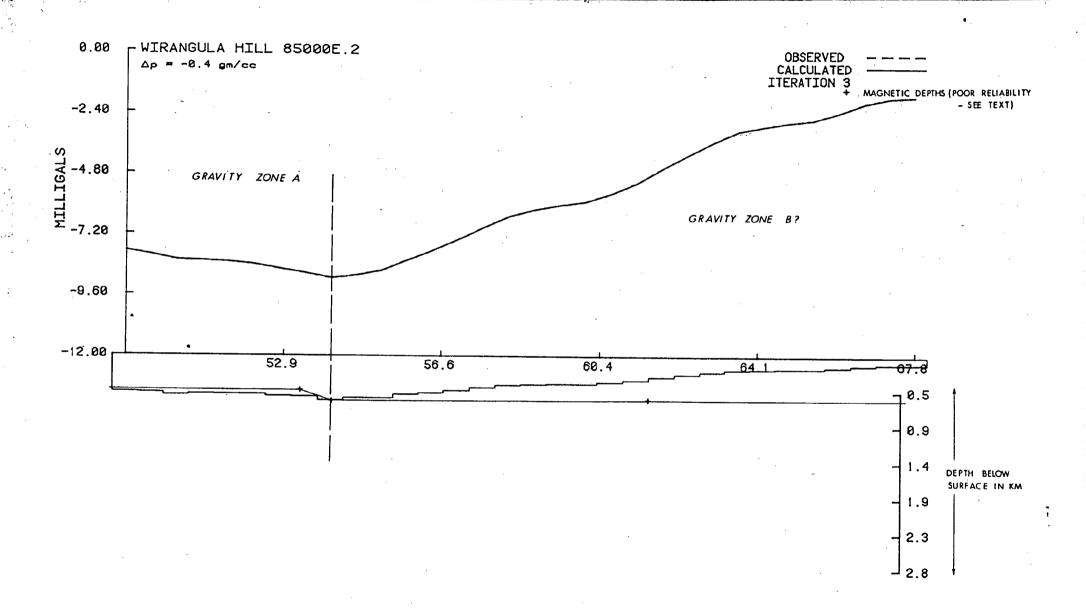


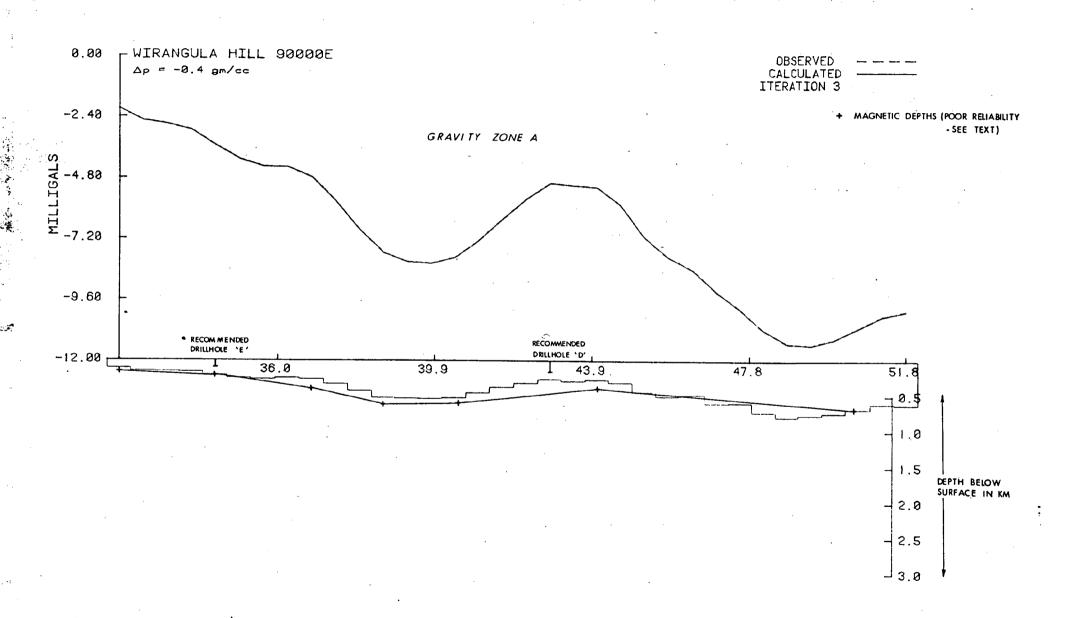


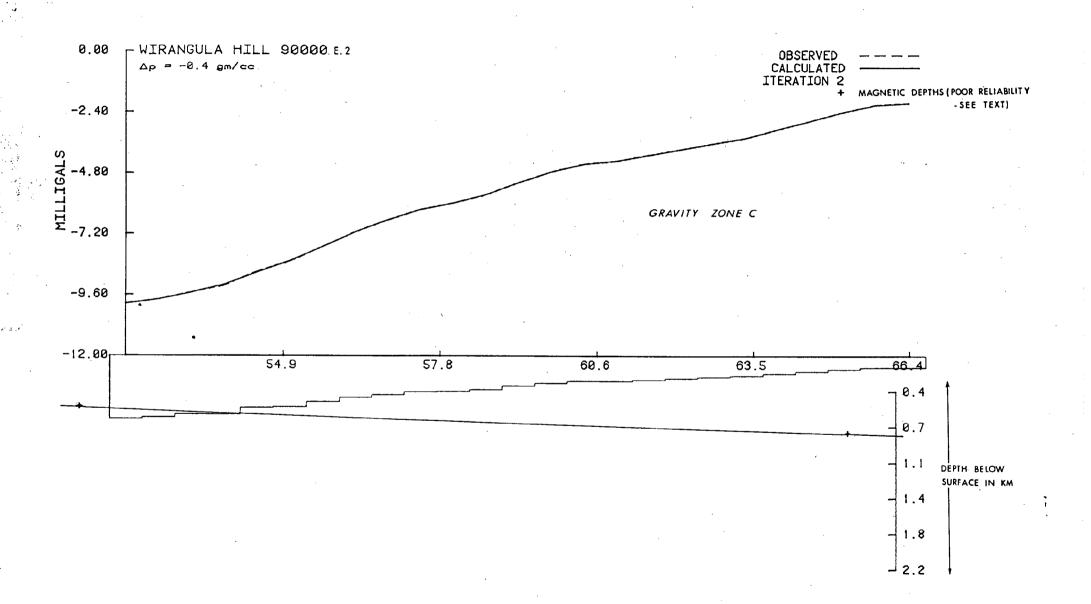


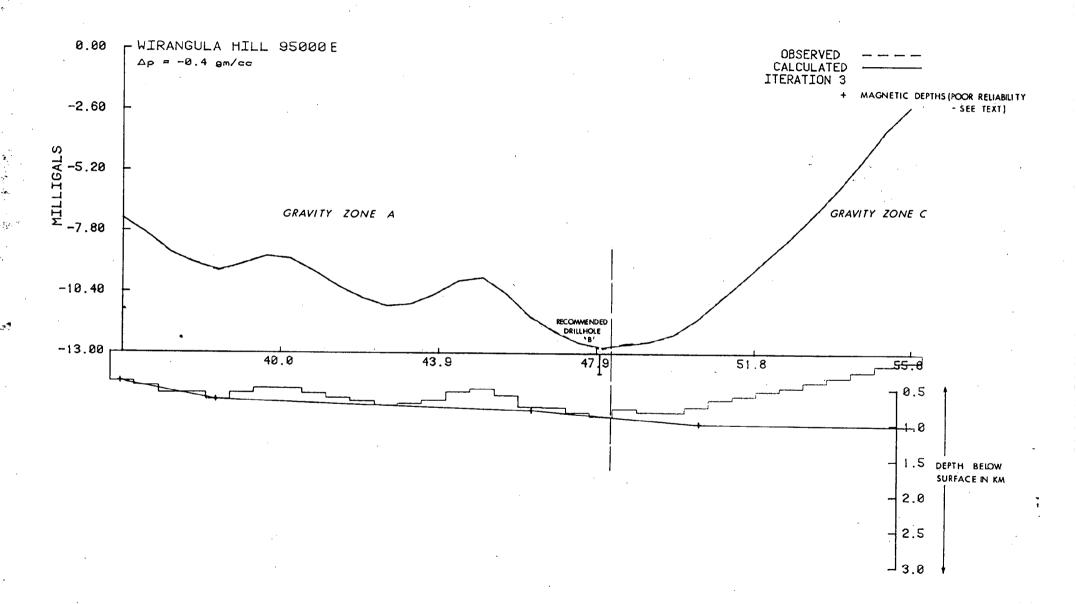
+ MAGNETIC DEPTHS (POOR RELIABILITY
- SEE TEXT)

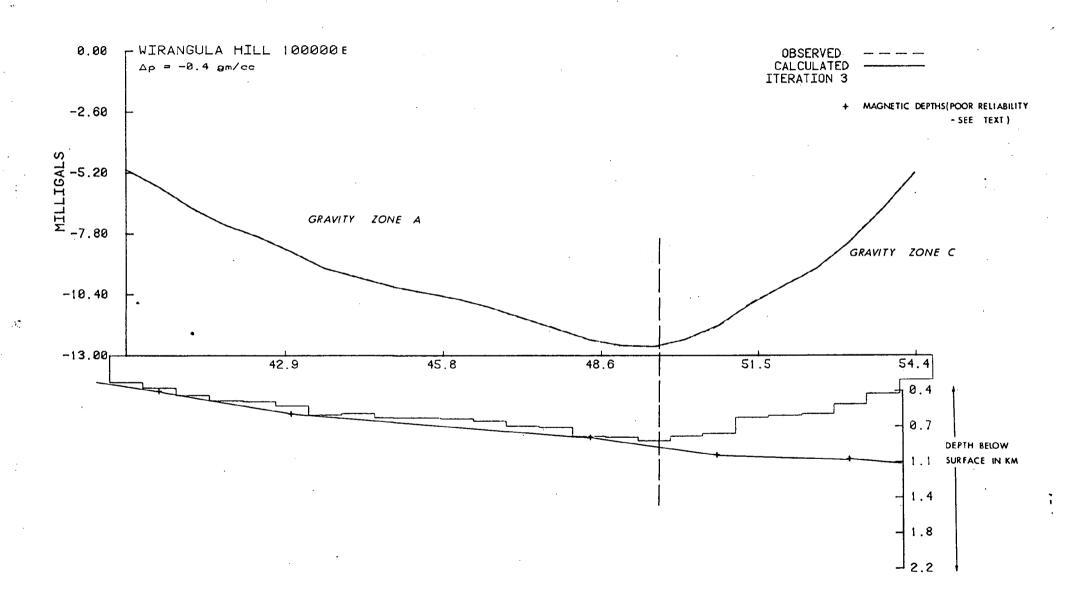












## APPENDIX III

PRINT OUTPUT OF INVERSION PROFILES

OBS. DATA : FILE 43

TITLE : NILPINNA 50000N

DEPTH TO TOP OF MODEL = 1.0E-3 KILOMETRES

NUMBER OF SIDE PRISMS = 5

DENSITY CONTRAST = -0.4

DATE : 22,1,82

### ITERATION NUMBER 3

ST.NO.	X(KM)	T(KM)	G(MEAS)	G(CALC)	DIFF
1 2 3 4 5 6 7	80.000 81.000 82.000 83.000 84.000 85.000	0.175 0.333 0.581 0.594 0.471 0.483 0.468	-3.680 -6.100 -8.530 -8.980 -8.250 -8.170 -8.220	-3.680 -6.102 -8.527 -8.979 -8.254 -8.167 -8.222	0.000 0.002 -0.003 -0.001 0.004 -0.003
8 9 10	87.000 88.000 89.000	0.521 0.545 0.575	-8.770 -9.290 -10.000	-8.770 -9.287 -10.010	0.002 0.000 -0.003 0.010
11	90.000	0.729	-11.140	-11.125	-0.015
12	91.000	0.701	-11.390	-11.396	0.006
13	92.000	0.686	-11.490	-11.495	0.005
14	93.000	0.734	-11.790	-11.782	-0.008
15	94.000	0.715	-11.850	-11.853	0.003
16	95.000	0.719	-11.990	-11.989	-0.001
17	96.000	0.747	-12.300	-12.304	0.004
18	97.000	0.799	-12.640	-12.635	-0.005
19	98.000	0.786	-12.610	-12.607	-0.003
20	99.000	0.734	-12.370	-12.375	0.005
21	100.000	0.749	-12.430	-12.428	-0.002
22	101.000	0.780	-12.640	-12.643	0.003
23	102.000	0.809	-12.760	-12.752	-0.008
24	103.000	0.764	-12.550	-12.553	0.003

OBS. DATA : FILE 35

TITLE : NILPINNA 8000E 100,166

DEPTH TO TOP OF MODEL = 1.0E-3 KILOMETRES

NUMBER OF SIDE PRISMS = 5

DENSITY CONTRAST = -0.4

DATE : 22,1,82

### ITERATION NUMBER 3

ST.NO.	X (KM)	T(KM)	G(MEAS)	G(CALC)	DIFF
1 2 3 4 5 6 7	45.000 45.600 46.200 46.800 47.400 48.000	0.545 0.514 0.428 0.401 0.341 0.302 0.286	-8.330 -7.910 -7.170 -6.550 -5.830 -5.230 -4.820	-8.332 -7.903 -7.178 -6.546 -5.832 -5.230 -4.820	0.002 -0.007 0.008 -0.004 0.002 0.000
8 9	49.200 49.800	0.255 0.215	-4.340 -3.810	-4.341 -3.811 -3.601	0.001 0.001 0.001
10 11 12	50.400 51.000 51.600	0.212 0.200 0.168	-3.600 -3.350 -2.910	-3.351 -2.911	0.001 0.001
13 14 15	52.200 52.800 53.400	0.150 0.116 0.070	-2.560 -2.030 -1.300	-2.562 -2.032 -1.304 -0.517	0.002 0.002 0.004 0.007
16 17 18 19	54.000 54.600 55.200 55.800	0.023 0.001 0.014 0.020	-0.510 0.060 0.390 0.550	-0.117 -0.305 -0.383	0.177 0.695 0.933

## * WIRANGULA HILL 80000 *

OBS. DATA : FILE 34

TITLE : NILPINNA 8000E 1,100

DEPTH TO TOP OF MODEL = 1.0E-3 KILOMETRES

NUMBER OF SIDE PRISMS = 5

DENSITY CONTRAST = -0.4

DATE : 22,1,82

## ITERATION NUMBER 3

ST.NO.	X (KM)	T (KM)	G(MEAS)	G(CALC)	DIFF
1 2	25.000 25.600	0.173 0.202	-3.100 -3.490	-3.100 -3.490	0.000
3	26.200	0.218	-3.800	-3.800	0.000
4	26.800	0.223	-4.110	-4.111	0.001
5	27.400	0.292	-4.860	-4.858	-0.002
. 6	28.000	0.267	-5.280	-5.281	0.001
7	28.600	0.403	-6.690	-6.687	-0.003
8	29.200	0.507	-7.910	-7.927	0.017
9	29.800	0.632	-8.770	-8.750	-0.020
10	30.400	0.614	-8.760	-8.753	-0.007
11	31.000	0.503	-8.060	-8.076	0.016
12	31.600	0.439	-7.250	-7.243	-0.007
13	32.200	0.355	-6.450	-6.455	0.005
14	32.800	0.384	-6.240	-6.234	-0.006
15	33.400	0.346	-51.870	-5.874	0.004
16	34.000	0.339	-5.570	-5.569	-0.001
17	34.600	0.304	-5.090	-5.090	0.000
18	35.200	0.256	-4.470	-4.470	0.000
19	35.800	0.221	-3.960	-3.960	0.000
20	36.400	0.220	-3.760	-3.760	0.000
21	37.000	0.183	-3.350	-3.350	0.000
22	37.600	0.196	-3.330	-3.330	0.000
23	38.200	0.150	-2.860	-2.860	0.000
24	38.800	0.167	-3.010	-3.010	0.000
25	39.400	0.176	-3.210	-3.210	0.000
26	40.000	0.206	-3.660	-3.660	0.000
27	40.600	0.236	-4.180	-4.180	0.000
28	41.200	0.292	-4.890	-4.891	0.001
29	41.800	0.342	-5.430	-5.429	-0.001
30	42.400	0.326	-5.470	-5.470	0.000
31	43.000	0.282	-5.420	-5.420	0.000
32	43.600	0.357	-6.290	-6.290	0.000
33	44.200	0.462	-7.410	-7.415	0.005
34	44.800	0.559	-8.260	-8.258	-0.002

TITLE: NILPINNA 8500E 105,213

DEPTH TO TOP OF MODEL = 1.0E-3 KILOMETRES

NUMBER OF SIDE PRISMS = 5

DENSITY CONTRAST = -0.4

DATE : 22,1,82

## ITERATION NUMBER 3

			•	'	
ST.NO.	X(KM) -	T(KM)	G(MEAS)	G(CALC)	DIFF
1	49.200	0.478	-7.890	-7.889	-0.001
2 3	49.800	0.487	-8.040	-8.045	0.005
3	50.400	0.518	-8.240	-8.233	-0.007
4	51.000	Ū.503	-8.270	-8.275	0.005
5	51.600	0.505	-8.320	-8.318	-0.002
6	52.200	0.507	-8.410	-8.413	0.003
7	52.800	0.529	-8.590	-8.585	-0.005
8	53.400	Ũ.534	-8.750	-8.762	0.012
9	54.000	0.585	-8.950	-8.932	-0.018
10	54.600	0.548	-8.820	-8.835	0.015
11	55.200	0.553	-8.640	-8.629	-0.011
12	55.800	0.501	-8.230	-8.237	0.007
13	56.400	0.482	-7.850	-7.847	-0.003
14	57.000	0.451	-7.410	-7.41Ū	0.000
15	57.600	0.412	-6.920	-6.920	0.000
16	58.200	0.376	-6.470	-6.471	0.001
17	58.800	0.366	-6.200	-6.199	-0.001
18	59.400	0.358	-6.020	-6.021	0.001
19	60.000	0.361	-5.880	-5.879	-0.001
20	60.600	0.339	-5.570	-5.571	0.001
21	61.200	0.309	-5.120	-5.120	0.000
22	61.800	0.265	-4.540	-4.540	0.000
23	62.400	0.232	-4.010	-4.010	0.000
24	63.000	0.200	-3.510	-3.510	0.000
25	63.600	0.173	-3.080	-3.080	0.000
26	64.200	0.166	-2.890	-2.890	0.000
27	64.800	0.157	-2.730	-2.730	0.000
28	65.400	0.155	-2.630	-2.630	0.000
29	66.000	0.137	-2.350	-2.350	0.000
30	66.600	0.112	-1.980	-1.980	0.000
31	67.200	0.099	-1.760	-1.760	0.000
32	67.800	0.098	-1.710	-1.710	0.000

STANDARD DEVIATION OF GRAVITY DIFFERENCE = 0.006

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## * WIRANGULA HILL 85000 *

OBS. DATA : FILE 36

TITLE : NILPINNA 8500E, 1,100

DEPTH TO TOP OF MODEL = 1.0E-3 KILOMETRES

NUMBER OF SIDE PRISMS = 5

DENSITY CONTRAST = -0.4

DATE : 22:1:82

### ITERATION NUMBER 3

ST.NO.	X (KM)	T (KM)	G(MEAS)	G(CALC)	DIFF
1	28.000	0.058	-1.110	-1.110	0.000
2	28.600	0.104	-1.770	-1.770	0.000
3	29.200	0.109	-1.960	-1.960	0.000
4	30.000	0.160	-2.640	-2.640	0.000
5	30.600	0.183	-2.950	-2.950	0.000
6	31.200	0.178	-2.850	-2.850	0.000
7	31.800	0.111	-2.030	-2.030	0.000
8	32.400	0.076	-1.470	-1.470	0.000
9	33.000	0.067	-1.300	-1.300	0.000
10	33.600	0.048	-1.040	-1.040	0.000
11	34.200	0.044	-1.050	-1.050	0.000
12	34.800	0.048	-1.390	-1.390	0.000
13	35.400	0.226	-3.690	-3.690	0.000
14	36.000	0.271	-4.330	-4.329	-0.001
15	36.600	0.227	-4.220	-4.220	0.000
16	37.200	0.250	-4.660	-4.661	0.001
17	37.800	0.331	-5.570	-5.568	-0.002
18	38.400	0.358	-6.240	-6.244	0.004
19	39.000	0.430	-7.010	-7.006	-0.004
20	39.600	0.454	-7.540	-7.542	0.002
21	40.200	0.473	-7.990	-7.990	0.000
22	40.800	0.498	-8.510	-8.505	-0.005
23	41.400	0.530	-9.190	-9.204	0.014
24	42.000	0.644	-10.120	-10.105	-0.015
25	42.600	0.691	-10.820	-10.833	0.013
26	43.200	0.756	-11.360	-11.340	-0.020
27	43.800	0.736	-11.570	-11.608	0.038
28	44.400	0.810	-11.750	-11.702	-0.048
29	45.000	0.729	-11.450	-11.478	0.028
30	45.600	0.715	-11.100	-11.096	-0.004
31	46.200	0.670	-10.570	-10.558	-0.012
32	46.800	0.586	-9.900	-9.920	0.020
33	47.400	0.587	-9.410	-9.401	-0.009
34	48.000	0.538	-8.760	-8.755	-0.005
35	48.600	0.445	-7.990	-7.993	0.003

STANDARD DEVIATION OF GRAVITY DIFFERENCE = 0.014

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OBS. DATA : FILE 39

TITLE : NILPINNA 90000E 101

DEPTH TO TOP OF MODEL = 1.0E-3 KILOMETRES

NUMBER OF SIDE PRISMS = 5

DENSITY CONTRAST = -0.4

DATE : 22,1,82

### ITERATION NUMBER 2

ST.NO.	X (KM)	T (KM)	G(MEAS)	G(CALC)	DIFF
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 25 26 27 27 27 27 27 27 27 27 27 27 27 27 27	52.000 52.600 53.200 53.800 54.400 55.000 56.200 56.800 57.400 58.600 57.400 58.600 57.400 61.600 61.600 62.200 62.800 64.600 64.600 65.200 65.800 66.400	0.639 0.620 0.591 0.593 0.523 0.514 0.463 0.418 0.362 0.358 0.358 0.358 0.273 0.255 0.255 0.238 0.225 0.211 0.200 0.175 0.134 0.116 0.114	-9.950 -9.770 -9.490 -9.240 -8.670 -8.670 -7.680 -7.100 -6.630 -6.220 -5.970 -5.630 -5.150 -4.720 -4.410 -4.290 -4.050 -3.820 -3.590 -3.370 -3.010 -2.680 -2.340 -2.060 -1.990	-9.943 -9.768 -9.768 -9.511 -9.200 -8.706 -8.252 -7.685 -7.106 -6.226 -5.967 -5.628 -5.153 -4.288 -4.051 -3.820 -3.591 -3.370 -3.011 -2.680 -2.060 -1.990	-0.007 -0.002 0.021 -0.040 0.036 -0.005 0.006 -0.003 -0.002 0.003 -0.002 0.001 -0.002 0.001 0.000 0.001 0.000 0.001

STANDARD DEVIATION OF GRAVITY DIFFERENCE = 0.013

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TITLE : NILPINNA 9000E 1,100

DEPTH TO TOP OF MODEL = 1.DE-3 KILOMETRES

NUMBER OF SIDE PRISMS = 5

DENSITY CONTRAST = -0.4

DATE : 22,1,82

## ITERATION NUMBER 3

ST.NO.	X(KM)	T(KM)	G(MEAS)	G(CALC)	DIFF
1	32,000	0.114	-2.080	-2.080	0.000
2	32.600	0.150	-2.560	-2.560	0.000
3	33.200	0.153	-2.700	-2.700	0.000
4	33.800	0.161	-2.930	-2.930	0.000
5	34.400	0.204	-3.530	-3.530	0.000
6	35.000	0.244	4.080	-4.080	0.000
7	35.600	0.261	-4.360	-4.360	0.000
8	36.200	0.242	-4.390	-4.390	0.000
9	36.800	0.257	-4.790	-4.789	-0.001
10	37.400	0.324	-5.740	-5.740	0.000
11	38.000	0.424	-6.880	-6.885	0.005
12	38.600	0.518	-7.770	-7.761	-0.007
13	39.200	0.524	-8.110	-8.11£	0.006
14	39.800	0.530	-8.170	-8.172	0.002
15	40.400	0.520	-7.940	-7.934	-0.006
16	41.000	0.449	-7.280	-7.283	0.003
17	41.600	0.368	-6.410	-6.411	0.001
18	42.200	0.311	-5.610	-5.609	-0.001
19	42.800	0.253	-4.990	-4.991	0.001
20	43.400	0.283	-5.090	-5.090	0.000
21	44.000	0.263	-5.150	-5.149	-0.001
22	44.600	0.302	-5.850	-5.852	0.002
23	45.200	0.429	-7.080	-7.081	0.001
24	45.800	0.491	-7.910	-7.898	-0.012
25	46.400	0.466	-8.400	-8.423	0.023
26	47.000	0.588	-9.300	-9.265	-0.035
27	47.600	0.583	-9.940	-9.976	0.036
28	48.200	0.710	-10.790	-10.779	-0.011
29	48.800	0.776	-41.320	-11.303	-0.017
30	49.400	0.754	-11.370	-11.380	0.010
31	50.000	0.724	-11.140	-11.140	0.000
32	50.600	0.669	-10.700	-10.695	-0.005
33	51.200	0.598	-10.220	-10.237	0.017
34	51.800	0.613	-10.030	-10.024	-0.006

TITLE : NILPINNA 95000 E 1

DEPTH TO TOP OF MODEL = 1.0E-3 KILOMETRES

NUMBER OF SIDE PRISMS = 5

DENSITY CONTRAST = -0.4

DATE : 22,1,82

## ITERATION NUMBER 3

ST.NO.	X(KM)	T(KM)	G(MEAS)	G(CALC)	DIFF
1	36.000	0.407	-7.270	-7.269	-0.001
2	36.600	0.463	-7.940	-7.949	0.009
3	37.200	0.564	-8.740	-8.720	-0.020
4	37.800	0.555	-9.140	-9.177	0.037
5	38.400	0.654	-9.520	-9.475	-0.044
6	39.000	0.555	-9.200	-9.216	Ū.016
7	39.600	0.492	-8.870	-8.873	0.003
8	40.200	Ū.497	-8.980	-5.780	0.000
9	40.800	0.563	-9.530	-9.528	-0.002
10	41.400	0.629	-10.160	-10.159	-0.001
11	42.000	0.572	-10.660	-10.673	0.013
12	42.600	0.729	-10.990	-10.974	-0.016
13	43.200	0.700	-10.890	-10.500	0.010
14	43.800	0.656	-10.500	-10.489	-0.011
15	44.400	0.541	-9.900	-9.905	0.005
16	45.000	0.498	-9.770	-9.774	0.004
17	45.600	0.589	-10.460	-10.473	Ü.013
18	46.200	0.745	-11.450	-11.411	-0.039
19	46.800	0.752	-12.030	-12.068	0.038
20	47.400	0.825	-12,540	-12.543	0.003
21	48.000	0.883	-12.800	-12.739	-0.061
22	48.600	0.769	-12.560	-12.622	0.062
23	49.200	0.817	-12.490	-12.481	-0.009
24	49.800	0.819	-12.200	-12.178	-0.022
25	50.400	0.745	-11.540	-11.538	-0.002
26	51.000	0.644	-10.650	-10.668	0.018
27	51.600	0.595	-9.790	-9.781	-0.009
28	52.200	0.521	-8.860	-8.865	0.005
29	52.800	0.475	-7.970	-7.966	-0.004
30	53.400	0.401	-6.960	-6.962	0.002
31	54.000	0.333	-5.890	-5.890	0.000
32	54.600	0.254	-4.700	-4.700	0.000
33	55.200	0.168	-3.410	-3.410	0.000
34	55.800	0.111	-2.420	-2.420	0.000

TITLE : NILPINNA 10000E 1

DEPTH TO TOP OF MODEL = 1.0E-3 KILOMETRES

NUMBER OF SIDE PRISMS = 5

DENSITY CONTRAST = -0.4

DATE : 22,1,82

## ITERATION NUMBER 3

ST.NO. X(KM) T(KM) G(MEAS) G(CALC)	OIFF
1 40.000 0.271 -5.060 -5.060	0.000
2 40.600 0.325 -5.810 -5.811	0.001
3 41.200 0.401 -6.720 -6.722	0.002
4 41.800 0.457 -7.450 -7.445	-0.005
5 42,400 0.464 -7.950 -7.953	0.003
6 43.000 0.507 -8.580 -8.590	0.010
7 43.600 0.600 -9.300 -9.277	-0.023
8 44.200 0.584 -9.660 -9.680	0.020
9 44.800 0.629 -10.050 -10.040	-0.010
10 45.400 0.630 -10.310 -10.312	0.002
11 46.000 0.637 -10.580 -10.581	0.001
12 46.600 0.659 -10.940 -10.945	0.005
13 47.200 0.710 -11.410 -11.397	~0.013 /
14 47.800 0.726 -11.830 -11.854	0.024/
15 48.400 0.814 -12.330 -12.308	-0.022'
16 49.000 0.824 -12.560 -12.578	0.018
17 49.600 0.860 -12.620 -12.602	-0.018
18 50.200 0.812 -12.290 -12.310	0./020
19 50.800 0.789 -11.730 -11.688	-0/042
20 51.400 0.627 -10.740 -10.776	Ø.036
21 52.000 0.606 -10.010 -10.009	$ \sqrt{0.001} $
22 52.600 0.591 -9.280 -9.264	/-0.016
23 53.200 0.492 -8.170 -8.177	/ 0.007
24 53.800 0.386 -6.780 -6.781	0.001
25 54.400 0.246 -5.190 -5.190	/ 0.000

~229

#### CRA EXPLORATION PTY. LIMITED

# WIRRANGULA HILL E.L. 924, SOUTH AUSTRALIA - REPORT ON THE RECONNAISSANCE DRILLING PROGRAMME, APRIL 1982.

The contents of this report remain the part of C.R.A. Exploration and may not be published in part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used in a part nor used

**AUTHOR:** 

D.R. MC BAIN

DATE:

8TH JUNE, 1982

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#### 1. SUMMARY

A reconnaissance drilling programme, comprising four rotary-mud boreholes, was completed.

Those three holes in the south of the tenement all intersected Permian Mount Toondina Formation coal measures at depths greater than 115 metres. The individual coal seams were relatively thin, with a maximum seam thickness of 2.1 metres. Seam splitting and thinning occurs in a southerly and westerly direction, towards the basin margins, as the Mount Toondina Formation shallows. The upper horizons of the coal measures are increasingly eroded off towards the basin margins.

In the north of the E.L. the one borehole drilled was abandoned prior to intersecting the Mount Toondina Formation, due to a strong artesian flow. By extrapolation it is concluded that the minimum depth to the top of the Mount Toondina Formation is greater than 140 metres.

The thin seams, low coal to inter-seam waste ratio and depth to the coal combine to limit the potential for an economically viable coal deposit. The prospects for coal at shallower depths than already intersected appear remote, due to the increasing erosion of the coal measures towards the basin margins. An analysis of the coal seams indicates that seams thicker than those intersected in this programme will only be encountered at increased depths.

It is recommended that E.L. 924 be surrendered due to the limited potential for an economic coal deposit to occur within it.

#### 2. CONCLUSIONS

20

- 1) The prospects for extensive coal deposits at depths less than 120 metres are limited.
- 2) The Permian Mount Toondina Formation coal measures are increasingly eroded off to the basin margins as the Mount Toondina becomes shallower.
- 3) The coal seams are relatively thin, with the thickest coal seam development in the deeper parts of the basin.
- 4) The coal seams have a tendency to split towards the basin margins; this in part accounts for the thicker coal seams in the deeper central parts of the basin.

- 5) Some of the coal seams are fairly localised, grading laterally into carbonaceous material.
- 6) The coal to inter-seam waste ratio is low, and appears unrelated to depth or coal zone thickness.
- 7) The coal zone thickness increases with depth. In 82AWH4 this increase is partly due to development of two additional coal seams at the base of the coal measures sequence.
- 8) Coal seam correlation is only moderate and to a degree speculative due to the thin and variable nature of the coal seams.
- 9) The prospect for an economically viable coal deposit is remote.
- 10) The basin configuration and structure interpreted from the geophysical gravity survey data was broadly confirmed from the drilling programme. Detailed evaluation of the interpreted configuration was not possible with the number of holes drilled.
- 11) While several of the multi-commodity analyses from the Mesozoic and Permian sediments were elevated, no further exploration is warranted. Gold values peaked at 0.125 g/t and oil yields ±20 litres/tonne. No further exploration is warranted by these results.

#### 3. RECOMMENDATIONS

1) Based on the evaluation of the reconnaissance drilling programme it is recommended that the E.L. is surrendered.

#### 4. INTRODUCTION

Exploration Licence 924 (Plan SAa 1331) was taken out as part of the coal exploration programme of CRA Exploration Pty. Limited within South Australia. The target horizon being Permian Mount Toondina Formation coal measures on the margins of the Arckaringa Basin. Previous boreholes in the vicinity had intersected Permian age coal.

The tenement was granted to CRA Exploration Pty. Limited on 16th November, 1981 for a period of twelve months.

The aim of the reconnaissance drilling programme was to test the Mount Toondina coal measures development on the margins of the Arckargina Basin. This report contains the results and an evaluation of the four hole reconnaissance drilling programme carried out in April 1982.

#### 5. GEOLOGY

While none of the boreholes were stratigraphic, the three holes in the south of the E.L. apparently intersected a full sequence as far as the Permian Stuart Range Formation. The Stuart Range was only recognised in 82AWH1 where geophysical logs were run from the bottom of the hole. In boreholes 82AWH2 and 4 no geophysical log was run in the bottom part of the hole due to impenetrable mud cake on the hole walls. With the lithological similarities between the Mount Toondina and Stuart Range Formations separation solely on the basis of the cuttings was not possible with any degree of certainty.

The sediments in the southern area have a macro uniformity, however, exhibit considerable variation within correlatable stratigraphic units (Plans SAa 1666, 1665, 1664). The Mount Toondina Formation sediments are particularly variable with considerable lateral variations.

The Stuart Range Formation, intersected at the bottom of the holes, consists of mudstones. In parts these mudstones are silty with occasional slightly carbonaceous or micaceous bands. The depositional environment appears to have been restricted marine, with the siltier bands reflecting slight eustatic fluctuations, or increased rates of weathering caused by climatic changes.

The Mount Toondina Formation is variously represented by sandstone, siltstone, mudstone and coal measures. Cenerally the sediments at the base of the Mount Toondina Formation are coarser than at the top of the Stuart Range. The depositional environment changed from restricted marine to lacustrine at the base of the Mount Toondina Formation. In borehole 82AWH1, the southern-most hole, (Plan SAa 1331) the lower Mount Toondina is present as sandstone alternating with mudstone and/or siltstone. These sediments would appear to reflect shallow lacustrine deposition with either eustatic fluctuations or more likely climatic variations represented by the mudstone/siltstone alternations. The shoreline would appear to be to the south of 82AWH1.

To the north of 82AWH1, in holes 82AWH2 and 4 (Plan SAa 1331) a mudstone/siltstone sequence with occasional sandstone bands was deposited in the lower section of the Mount Toondina Formation. Within this unit two coal horizons are developed in 82AWH4, and to a lesser extent in 82AWH2, finally pinching out to the south. These sediments indicate low energy

lacustrine conditions, with a few high energy interludes, possibly as a result of climatic variations with a period of increased erosion. The coal horizons represent the development of swamp conditions in the centre of the localised basin. Laterally the coal horizons grade into carbonaceous mudstone and then sandstone.

The upper section of the Mount Toondina Formation is characterised by cyclic coal sedimentation, with coal interbedded with mudstone, siltstone and sandstone. These sediments appear to indicate differential sedimentation in response to climatic variations and differential rates of subsidence in shallow lacustrine and swamp conditions. Correlation os the coal seams in the upper part of the Mount Toondina Formation is only moderate. The correlation is complicated by seam splitting, absence of seams, and the wide spacing of the boreholes.

As the Mount Toondina Formation shallows to the south and south-west, it appears that an increasing amount of the uppermost section has been eroded off prior to the deposition of the Algebuckina Sandstone.

The Algebuckina Sandstone was deposited under fluvial conditions, being represented by generally well sorted fine to granular sandstone. A few thin mudstone or siltstone bands are present in the sequence, often at the top of cycles.

The littoral marine environment of Cadna-owie Sandstone deposition is reflected in a higher proportion of fine grained material in the sequence, compared to the Algebuckina Sandstone. The sediments range from silty mudstone through to granular sandstone; the range of sediment reflecting eustatic fluctuations.

A distinct and rapid marine incursion occurred at the base of the Bulldog Shale. Mudstones predominantly were deposited, with a maximum of three minor sandstone bands. These sandstone bands represent short lived marine regressions.

#### 6. WORK CARRIED OUT

#### 6.1 Geophysics

#### 6.1.1 <u>Downhole</u>

All the boreholes, with the exception of 82AWH3, were logged by Century Geophysical Corporation of Australia. Long and Short Spaced Density, Natural Gamma, Neutron-Neutron, Spontaneous Potential and Resistivity Logs were run in all the holes logged.

In 82AWH2 and 4 the probes did not get to the bottom of the boreholes due to excessive mud cake on the hole walls, which blocked the probes passage.

Borehole 82AWH3 was not logged due to the unstable conditions prevailing in the hole.

#### 6.2 Drilling

#### 6.2.1 General

Four rotary-mud boreholes, for a total of 806 metres, were drilled using a Peter Nitschke Drilling/Century Geophysical combination (Plan SAa 1331).

The three boreholes in the south of the area all intersected the target horizon, the Mount Toondina coal measures. However borehole 82AWH3 was abandoned prior to intersecting the Mount Toondina coal measures as a strong artesian flow was encountered near the top of the Mesozoic Sandstone. As no special weighted drilling muds were available on site to stem the flow sufficiently to allow drilling to continue the hole was abandoned.

#### 6.2.2 Borehole Results

The three boreholes in the south of the area, 82AWH1, 2 and 4 (Plan SAa 1331), all intersected significant coal seams. A summary of the coal intersections and coal zones appear in Tables 1 and 2 respectively.

The drilling data tied in fairly well with the interpretation of the CRAE "Nilpinna" gravity survey. With the low density of drilling, and so few boreholes, it was not possible to adequately test the inferred intra-basinal features interpreted from the gravity data. On a broad scale the interpreted deepening of the basin to the north and north-east was confirmed by the drilling. The estimated depths to the base of the Upper Permian, from the interpretation of the gravity data, proved to be generous. In the main this was due to the lack of adequate density control for the various formations.

Summary borehole logs are presented in Appendix I.

Full geophysically corrected borehole geological logs are presented in Appendix II.

Computer drafted graphic geological and geophysical logs are presented in Appendix III.

### 6.2.3 Evaluation of Coal Intersections

Correlation of individual coal seams between the three boreholes in the south of the E.L., 82AWH1, 2 and 4, (Plan SAa 1666, 1665, 1664, 1710) is only moderate. Any correlation, with the available data, must be regarded as speculative given the degree of seam splitting, and the erosion of the upper portion of the coal zone in 82AWH1 and 2 (Plan SAa 1710).

From detailed seam correlation (Plan SAa 1666, 1665, 1664, 1710) it became apparent that:

- 1) Post-Permian erosion has stripped the upper horizons of the Mount Toondina Formation on the basin margins. The degree of erosion, prior to the deposition of the Algebuckina Sandstone, appears to be a function of position in the basin, with a greater thickness of Mount Toondina Formation being on the margins than towards the centre of the basin. By extrapolation it is concluded that two metres of coal measures in 82AWH2, and eight metres in 82AWH1 have been eroded compared to 82AWH4. The cross-sections and geophysical logs appear to indicate that some of the upper Mount Toondina Formation has been eroded in 82AWH4.
- 2) The coal seams are relatively thin, attaining a maximum thickness of 2.1 metres. Seam correlation between boreholes is complicated by:
- a] The number of relatively thin seams; these do not produce a "signature" on the geophysical logs.
- b] Rapid thinning of the coal seams and inter-seam sediments to the west and south.
- c] Several instances of seam splitting.
- d] Seams lensings out. The three lower seams in 82AWH4 lense out to the south. The top seam in 82AWH2 is laterally discontinuous, being absent in the boreholes 82AWH1 and 4; in 82AWH1 this is probably due to erosion.
- e] Lateral facies variation. Over relatively short distances the coal seams grade into carbonaceous mudstone.

These factors combine to make seam correlation between the boreholes speculative.

With increasing depth to the Mount Toondina Formation, to the north and north-east from 82AWH1, and east from 82AWH2, it was found that:

- The individual coal seams thicken.
- 2] Generally there is less seam splitting, with seams

coalescing. In part this accounts for the thicker seams.

- 3] The thicknesses of the inter-seam waste units increase.
- 4] The inter-seam sediments coarsen; the proportion of sandstone increases, while the proportion of mudstone decreases in the inter-seam units.
- 5] The thickness of the coal zone increases. In part this is due to less erosion of the Mount Toondina Formation in the deeper parts of the basin. The main reason for the much increased thickness is the greater thickness of interseam sediments, and in 82AWH4 the extra two lower seams.

The coal quality interpreted from the geophysical logs and sample return appear to indicate no quality change, in individual seams, with depth. Without core the interpreted coal quality is subjective and relates mainly to the ash content. The upper seam in 82AWH4, form the sample return, appeared to be more immature than the other coals intersected. Most of the coal seams appear to be of low bituminous rank, based on the limited data available.

While the drilling programme was fairly limited it is possible to draw several conclusions regarding the economic potential of the coal within the E.L.:

#### A. Northern Area

While no Mount Toondina Formation sediments were intersected in 82AWH3 it appears that the potential for an economic coal deposit is limited as:

- 1] The Bulldog Shale in 82AWH3 is 91.5 metres thick. By extrapolation from the southern area the minimum depth to the top of the Mount Toondina Formation would be 140 metres. A maximum overburden cut-off of 120 metres is at present considered the economic limit for this type of coal. With only one hole drilled in this northern area any conclusions on depths must be at best tentative. However the regional geophysics, tied in with the drill information, suggest that large areas of coal at less than 120 metres is unlikely.
- 2] The unconfined aquifer in the Mesozoic sands overlying the Mount Toondina coal measures would present problems in any open-cast mining operation. These problems while not insurmountable would be costly to overcome.

#### B. Southern Area

From the available data it is concluded that:

1] The thickest coal seams are at greatest depth. The shallower (<120 metre) coal seams are thin, generally too thin to be considered for mining. With the available data pointing to the coal seams thinning and splitting as it shallows there is little prospect for thick coal seam development at depths less than 120 metres.

Table 1: Summary of Coal Intersections

Borehole No.	Depth of Coal Seam [m]		Thickness of Coal	Description of Seam Quality			
NO.	From	То	Seam [m]				
82AWH1	102.98 108.87 109.38 110.57 111.38 114.16 114.92	103.17 109.07 109.56 110.80 111.54 114.34 115.58	0.19 0.20 0.18 0.23 0.16 0.18 0.66	Coal, mixed Coal, mixed Coal, mixed Coal, mixed, mainly dull Coal, mixed, mainly dull Coal, mixed Coal, mixed Coal, mixed; mainly dull to top & mainly bright to bot- tom [incl. 0.20 Mudstone			
82AWH2	118.60	119.96	1.36	<pre>coaly band in middle] Coal, dull; mixed to top [incl. 0.27 Mudstone to base]</pre>			
	132.96 136.92 143.08 153.36	127.94 133.36 137.39 143.44 153.83	0.22 0.40 0.47 0.36 0.47	Coal, mixed Coal, mixed Coal, mixed, mainly dull Coal, mixed, mainly dull Coal, mixed			
82AWH4	130.98 142.52 151.75 162.96 164.96 167.40	132.04 143.74 153.22 163.37 165.35 169.50	1.06 1.22 1.47 0.41 0.39 2.10	Coal, mixed; immature Coal, mixed; mainly dull to base Coal, mixed Coal, dull Coal, mixed Coal, mixed Coal, mixed; dull in middle			
	194.24 195.42	194.53 196.38	0.29 0.96	Coal, mixed; dull in middle Coal, mixed; mainly dull Coal, mixed, mainly dull; dull to base			

N.B. The depth, thickness and quality of coal seams interpeted from the geophysical logs.

Table 2: Summary of Coal Zones

Borehole No.	Coal Zone [m]		Coal Zone	Maximum Individual	Aggregate Coal	Maximum Coal Seam	Aggregate Coal Seam	Number of	% Coal in
	From	То	Thickness [m]	Coal Thickness ¹ [m]	Thickness ¹ [m]	Thickness ² [m]	Thickness ² [m]	Coal Seams	Coal Zone
82AWH1	102.98	115.18	12.20	0.31	1.60	0.66	1.80	7	13%
82AWH2	118.60	153.83	35.23	0.73	3.01	1.36	3.28	6	9%
82AWH4	130.98	196.38	65.40	2.10	7.90	2.10	7.90	8	11%

N.B. The depth, thickness and quality of coal seams interpreted from the geophysical logs.

- 1. Coal only, no waste included.
- 2. Includes non-coal material within seam unit, where non-coal material is less than approximately equal to extra coal gained. Maximum thickness of non-coal added 0.27m.

- 2] The proportion of coal within the coal zone varies between 9-13% and appears to be independent of depth control. With such a low coal to wast ratio within the coal zone open cast mining, even on a selective basis, would not be viable however shallow the coal.
- 3] The upper horizons of the Mount Toondina Formation coal measures are increasingly eroded off towards the basin margin, where the coal seams would be shallowest. It appears unlikely that coal will be preserved on the basin margins.

Given the above conclusions it is apparent that the potential for shallow (<120 metres) thick coal seam development is remote. Therefore it is concluded that the area has little potential for an economically viable open csst coal deposit.

Underground mining is not considered to be an economically viable alternative due to the relatively unconsolidated nature of the sediments and the additional cost compared to open-cast mining.

### 6.2.4 Multicommodity Analyses

Selected samples of the various stratigraphic units of the Mesozoic and Permian sediments from 82AWH1, 2 and 4 were analysed for oil yield, lead, zinc, copper and gold.

The gold values in 82AWH4 from the Mesozoic sands were all above detection peaking at 0.125 grams/tonne. Oil yields ranged from minimum detection to  $\pm 20 \text{ litres/tonne.}$  None of the base metal values were anomalous.

These results do not warrant further exploration.

The analytical data sheets are presented in Appendix IV.

D. 7. McBan

D.R. MCBAIN

DRM/pw

#### KEYWORDS

Warrina SH 53-3, Arckaringa Basin, Permian, Mesozoic, Bulldog Shale, Algebuckina Sandstone, Cadna-owie Sandstone, Mount Toondina Formation, Stuart Range Formation, Coal-black, Geophys-borehole, Geophys-grav, Drill-rotary, Drill-assay, Data Review.

#### LOCATION

Warrina SH 53-3

1:250 000

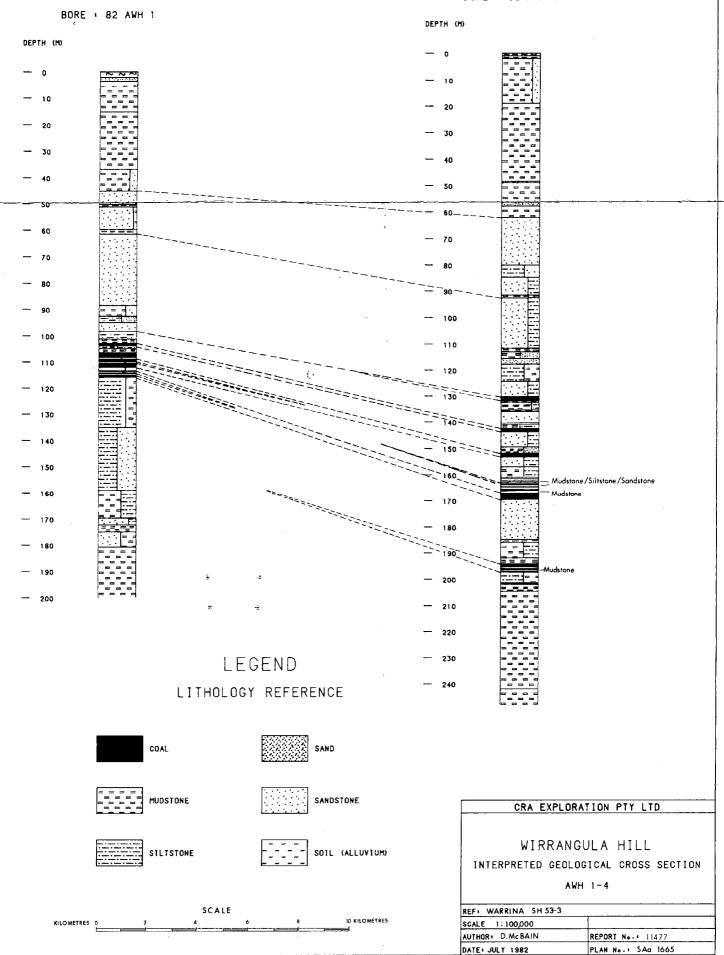
#### LIST OF PLANS

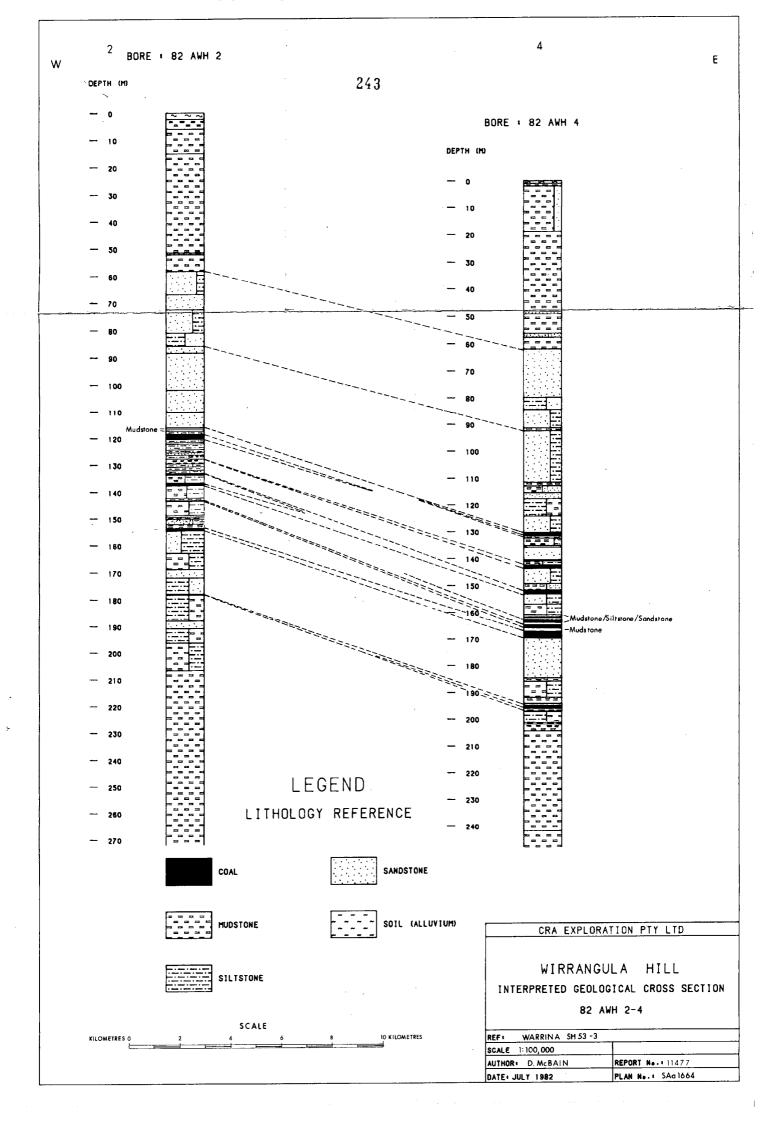
Plan No.	<u>Title</u>	Scal	<u>Le</u>
SAa 1331	Wirrangula Hill E.L. 924 - Drilling Programme - Borehole Location	1:100	000
SAa 1666	Wirrangula Hill E.L. 924 - Interpreted Geological Cross-Section	1:100	000
SAa 1665	82AWH3-2-1, Looking East Wirrangula Hill E.L. 924 - Interp- reted Geological Cross-Section	1: 50	000
SAa 1664	82AWH1-4, Looking North-West Wirrangula Hill E.L. 924 - Interp- reted Geological Cross-Section	1: 50	000
SAa 1710	82AWH2-4, Looking North Wirrangula Hill E.L. 924 - Schematic Cross-Section 82AWH1-2-4, Looking South-East	1:100	000

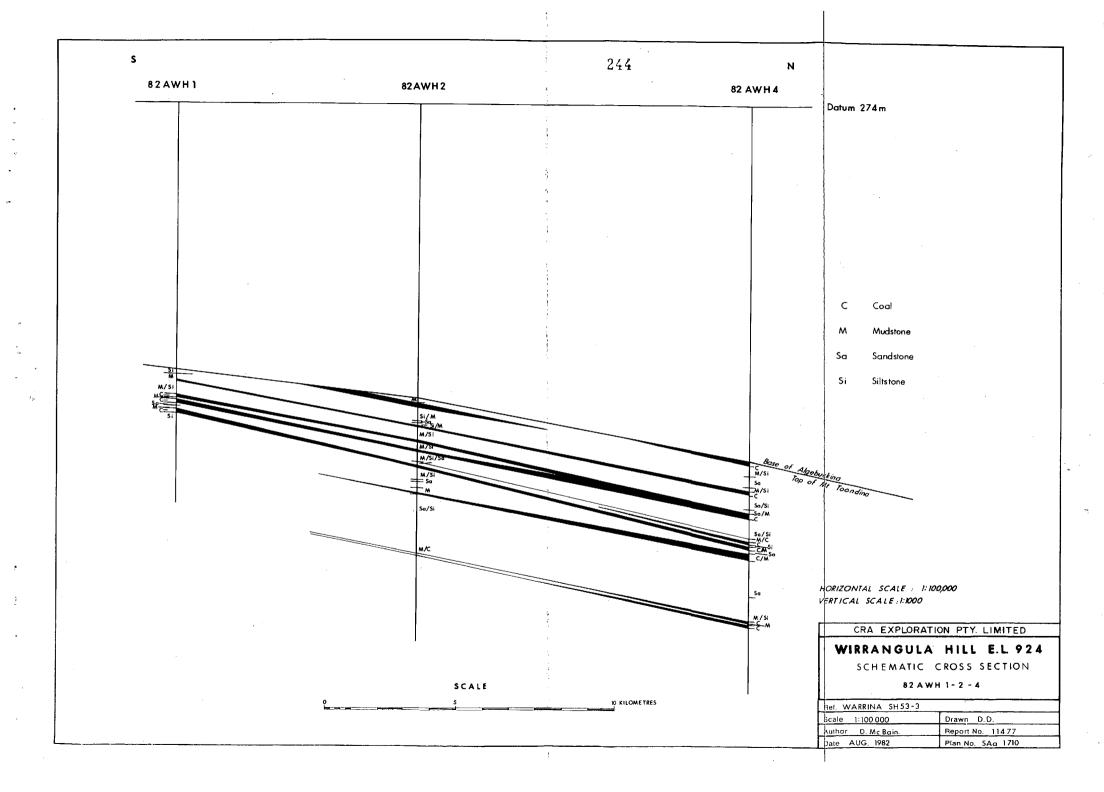
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Appendix 1	L	Summary Borenole Logs
Appendix I	II	Geophysically Corrected Borehole Geological
		Logs
Appendix I	III	Computer Drafted Graphic Geological and
		Geophysical Logs
Appendix I	ľV	Multicommodity Analytical Data Sheets

BORE : 82 AWH 4







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APPENDIX I

SUMMARY BOREHOLE LOGS

## Summary Borehole Logs

8	2	Z	١V	V	Η	1

82AWHI		
- 3.6m _ 45.2m	Soil and Sand Mudstone, grey to dark grey, weathered to top; occasional sandstone bands	Bulldog Shale
61.4m	Sandstone, light grey, very fine to coarse grained, few sub-angular to sub-rounded pebbles, well sorted, feldspathic-quartzose; two mudstone bands	Cadna-owie Sandstone
98.3m	Sandstone. light grey, fine to very coarse grained, few quartz pebbles to base, moderately sorted, quartzitic, finer generally in middle; mudstone and siltstone alternations in middle	Algebuckina Sandstone
115.6m	Coal Measure - coal seams with inter-seam mudstone, siltstone and minor sandstone	Mount
180.8m	Sandstone, light grey, very fine to medium grained, micaceous with lesser mudstone and siltstone alternations	Toondina Formation
200.0m	Mudstone, grey-brown, slightly carbonaceous } Final Depth 200.0 metres	Stuart Range Formation
	i indi beptii 200.0 metles	
82AWH2		-*
021111112		
2.3m	Soil	•
58.2m	<pre>Mudstone, dark grey to dark olive-grey, weathered to top; sandstone band to base</pre>	Bulldog Shale
85.8m	Sandstone, off-white to light grey, very	
	fine to granular grained, sub-angular	Cadna-owie
	quartz pebbles, well sorted micaceous, feld- spathic-quartzose; siltstone bands through- out	Sandstone
116.2m	Sandstone, off-white to light grey, fine to	
	occasionally granular grained, sub-rounded	Algebuckina
	<pre>quartz pebbles to top, well sorted, feld- spathic-quartzose</pre>	Sandstone
118.6m	Mudstone, dark grey, slightly carbonaceous	
1 5 2 . 0	in parts; siltstone alternations to base	
153.8m	Coal Measures-coal seams with inter-seam mudstone, siltstone and sandstone	Mount
177.9m	Sandstone, very fine to medium grained, mudstone, some carbonaceous, and siltstone	Toondina Formation
206.7m	alternations Mudstone, grey, carbonaceous bands, alter-	
200./III	nates with siltstone, light grey; sand-	
0.70	stone band in middle	
272.0m	<pre>Mudstone, grey, micaceous and silty bands }</pre>	Permian Undiff- erentiated
	Final Depth 272.0 metres	erencraced

#### 82AWH3

4.0m Soil Mudstone. dark grey to olive-grey, weathered to top; slightly silty bands to base Sandstone, light grey, fine to coarse grained, moderately sorted. Artesian aquifer with strong flow 91.5m 96.0m Hole abandoned at 96.0 metres

82AWH4		
1.0m	Soil	
62.1m	Mudstone, grey to dark grey; sandstone	
02 • IIII	bands throughout; weathered to top	Bulldog Shale
92.6m	Sandstone, light grey, fine to granular	
<i>3</i> <b>-</b> <i>1 9</i>	grained, well sorted, quartzitic; silt-	Cadna-owie
	stone bands in finer parts; mudstone	Sandstone
	band at base	
130.5m	Sandstone, off-white to light grey, very	
	fine to granular grained, well sorted,	Algebuckina
	quartzitic; siltstone and lesser mudstone	Sandstone
	alternations throughout	
131.0m	Mudstone, dark brown-grey, carbonaceous to	
	top	
169.5m	Coal Measures-coal seams with inter-seam	
	sandstone, siltstone and mudstone	
18 <b>4.</b> 8m	Sandstone, light grey, fine to coarse	
•	grained, micaceous .	Mount
194.2m	Mudstone, dark brown-grey, slightly carbon-	Toondina
	aceous to top, silty and slightly micaceous	Formation
	bands to base; siltstone alternations in	2 3 2 1113 2 2 3 1
104 5	middle	
194.5m	Coal	
195.4m		
196.4m	Coal	
204.6m	Mudstone, grey to dark brown, two carbon-	
	aceous bands; alternates with siltstone in	
242 0	middle	
242.0m	Mudstone, grey to brown-grey, increasingly	Permian Undiff-
248.0m	silty to base, slightly micaceous Mudstone, grey-brown	erentiated
240.UII		
	Final Depth 248.0 metres	

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# APPENDIX II

GEODOGICAL LOGS

#### 

```
HOLE NUMBER
               :82 AWH 1
                                        PARISH
HOLE TYPE
               :ROTARY
                                        HUNDRED
GRID TYPE
               : AMG
                                         SECTION
EASTING
               :520700
                                        LOG ORGN
                                                         :CRA
NORTHING
               :6825450
                                        LOGGED BY
                                                         : DRM
ACCURACY
               :APPROX.
                                        DRILL CHTRCTR
                                                         :P.NITSCHKE
DATUM
               :AHD
                                         DRILL TYPE
                                                         :BOURNE 2000
COLLAR RL
               :267.0
                                        TECHNIQUE
                                                         : MUT
SHEET REF
               :SH53-3
                                         CORE SIZE
TOTAL DEPTH
               :200.00
                                        GEOFHYS. CHTRCTR:CENTURY GEOFHYSICS.
COMMENCED
               :03/04/82
                                        WATER LEVEL
                                                         :14.6
COMPLETED
               :04/04/82
                                        DATE MEASURED
                                                         :04/04/82
INCLINATION
               :--90
                                        PLUG DEFTH
AZIMUTH
                                        CASED DEPTH
                                                         16.0
                                        UHLES
                                                         :METRES
```

OFEN HOLE 0.00 TO 200.00M B.O.H.

SAMPLES 393400 TO 893411 TAKEN OVER INTERVAL 66 TO 92M DRILL DEPTH,
CORRECTED DEPTH 61.40M TO TOP OF SAMPLE 093400.

SAMPLES 893412 TO 893413 TAKEN OVER INTERVAL 110 TO 118M DRILL DEPTH,
OBRECTED DEPTH 102.79M TO TOP OF SAMPLE 093412,
SAMPLES 893416 TO 893424 TAKEN OVER INTERVAL 182 TO DOOM DRILL DEPTH,
OURRECTED BEPTH 180.80M TO TOP OF SAMPLE 333418.
ALL SAMPLES DESPATCHED ON D.F.O. NO. BOYIL

******* REMARKS ********

VARIABLE REMARKS INDICATES COMMENTS/REMARKS

ARE PRESENT IN THE BINARY FILE.

********* NO TRANSFORMATIONS OR SELECTIONS LERE MADE DURING CRUNCH ********
PUNDER OF RECORDS WRITTEN 15: 56
PECORD LENGTH IS: 5

١.

•	*	, and a second		
ARCKAR	INGA BASIN	- WIRRANGULA HI	LL .	
	ESTIMATED THICKNESS	ROCK TYPE	GEOLOGICAL DESCRIPTION OF DATA	SAMPLE NO.
2.00	2.00	Soi1	Red - Brown Fine Grained Very loose sand Soll	
3.60	1.60	Sand	Light Grey Fine to Medium Grained Subrounded grains Moderately sorted Loose sand Completely weathered Secondary Gypsum Common	
			TOP OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE O	
			TOP OF Rulldos Shale, 3,60m	
15.20	11.60	Mudstone	: Mottled Lisht Grey Oranse - Brown Slightly Silty Weak rock Very weathered Flastic	
36.80	21.60	Mudstone	Grew Dark Grew Slightly Silty Bands West rock Flastic Thin Sandstone Band In Middle	
45.20	8.40	Mudstone Mudstone Sandstone	60% : Grey Dark Grey Weak rock Plastic 20% : Silty 20% : Very Fine to Medium Grained Moderately sorted Muddy	4
j		1907 MRN 3080 WING 5185 MA	BASH OF Bulldon Shale, 45.20m	·
	•		GEOLOGICAL THICKNESS 41.60m	
10.20	5.00	Sandstone	Light Grew Very Fine to Coarse Grained Subrounded to well rounded Well sorted Feldspathic-Quartzose Moderately weak rock. Two Upw.rd Fining Cycles; Muddy Matrix In Finer Parts;	. •
			Few Sub-angular To Sub-rounded Pebbles In Coarser Parts	•
31.20	1.00	Mudstone	Silty	
59.60	8.40	Sandstone	90% : Light Grey Very Fine to Medium Grained Moderately sorted Moderately weak took Coarsenand upward:	
		Mudstone	10% : Towards Rase of Unit Silts	
51.40	1.80	Mudstone	Silty	
		40 Me 61 - FR 401 40	BASE OF Cadno-cwie Sundstone - 61.40 m	, . ·
		/mi tem yeer was asso ten	CEOLOGICAL THICKNESS 15.20 m	
			www.co.co.co.co.co.co.co.co.co.co.co.co.co.	

		N - WIRRANGULA HIL		
	ESTIMATEI THICKNESS	D ROCK TYPE S	GEOLOGICAL DESCRIPTION OF DATA	SAMPLE NO.
88.50.	27,10	Sandstone	Light Grey Fine to Very Coarse Grained Subrounded to well rounded Moderately weak rock	
<b>9</b> 2.60	4.10	Mudstone Sandstone	70% : Gres - Brown Slightly Silty Bands Weak rock 30% : Medium to Coarse Grained Moderately sorted	
95.00	2.40	Siltstone Sandstone	60%: Gres Mudds Moderatels weak rock 40%: Lisht Gres Vers Fine to Medium Grained Subrounded grains Moderatels sort Weak rock	∍d
<b>9</b> 3+30	3.30	Sandstone	Light Grew Medium to Very Coarse Grained Subangular to subrounded Granular Moderately sorted Quartzitic Weak rock. Silty Mitrix; Few Angular Quartz Grains < 20mm.	
		and the open and the control of	BASE OF Algebuckina Sandstone , 98,30 m	
			GEOLOGICAL THICKNESS 36.90 m	
		, and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and , and	TOP OF Meent Toendina Formation , 98,30 m	TO THE THE THE THE SET OF THE THE THE THE THE THE THE THE THE
101.20	2,54	Siltotome	Light Grew Nark Grew Micaveous Sandy To Tor Moderately weak rock	
102 a TS	1,50	Mudetone	Gres Weak mock	
102 - 78	0.19	Mudstone	Dark Grew - Brown Slightly Carbonaceous Weak roc!	
<b>103</b> -17	0,19	Cocl	Black Mixed (40-60%) Moderately weak rock	
10 <b>3</b> 152	0.35	Mudstone		
i <b>o3</b> ₊ 68	0.15	Mudstone	Carbonaceous	
<b>0:4 -</b> 76	1.03	Mudetone Siltotome	50% : Slightle Silte 50% : -	·
06.34	1.00	Mudatone Mudatone	60% : Carbonaceou.	

SAMPLE NO.

ARCKARI	NGA BASI	N - WIRRANGULA HILL	
PERTH	ESTIMATE THICKNES	D ROCK TŶPE S	GEOLOGICAL DESCRIPTION OF DATA
106.93	0.59	Mudstone	
107.22	0.29	Mudstone	
107.62	0.40	Siltstone	
107,78	0.16	Mudstane	Carbonaceous
107.98	0,20	Mudstone	Silts
108.20	0.22	Mudstone	Carbonaceous
108.87	0.67	Mudstone Siltstone	50%: Towards top of Unit
109.07	0.20	Coal	Mixed (40-60%)
100.38	0.31	Mudstone	Stita
109.54	0.18	Coal	Mi ed (40-60%)
107.79	0.23	Mudstone	Co. 18
110.57	0.78	Siltstone Mudstone	70%: - 30%: -
110.80	0.23	Coal	Mixed Mainly Bull (25-40%)
110.98	0.13	Mudstone	-

111.20

Mudstone

Carbonaceous

1,

a.

**多种的现在分类** 

ARCKAR	INGA BASIN	- WIRRANGULA HILL					
	ESTIMATED THICKNESS	ROCK TYPE	GEOLOGICAL DESCRIPTION OF	T DATA			SAMPLE NO.
111.38	0.18	Siltstone	Mudde		·		
111.54	0.16	Coal	Mixed Mainle Dull (25-40)	0	824		
111.74	0.20	Mudstone				•	
111.99	0.25	Mudstone	Carbonaceous				
113.41	1.42	Sandstone Siltstone	70% : Vers Fine Grained 30% : Sands	Silty Matrix			
113.69	0.28	Siltstone	Sandy Carbonaceous			,	
114.16	0.47	Siltstone	Sandy			·	•
114.34	0.18	Coel	Mixed (40-60%)				
114.92	. 0.58	Siltstand	ಗಲರರತ				
115.07	0.15	Coal	Mixed Mainly Dull (25-40)	2)			-
115.27	0.20	Mudstone	Coaly				
113.58	0.31	0 o ≥ 1.	Mixed Mainls Brisht (60-)	75%)		·	
115.99	0.41	Mudstone Mudstone	50% : Towards top of Unit 50% : Slightly Carbonace	t ous	·		
ղ35.20	19.21	Siltstone Mudstane Sandstone		Weak rock Silts Moderatels weak rock m. Grained Moderatels sorted			

ARCKAR	INGA BĀSIN	- WTRRANGU	LA HILL	<b>3</b> %		,		, `			• " " " "
	ESTIMATED THICKNESS	ROCK TYPE	GEOL	OGICAL DESCRIPTI	ION OF DATA					SAM	PLE NO.
159.00	23.80	Siltstone Sandstone	50% 50%	: - : Towards middle	of Heat Ha	ry Fina 1	n Madius	Grained Mode	nataly conta		
San San San San San San San San San San					OILTO VE	is rane.	Pigled10M	'r	. DUELS SUITE	<b>.</b>	
169.60	10.60	Mudstone Siltstone		: Grey Silty Bar : Muddy	ids Weak' roc	k Seconda	ary Pyrit	e Sparse Node	les	(A. 16)	
172.20	2.60	Sandstone		: Light Grew Fir	ne to Medium	Grained	Subround	ed grains Wel	l sorted Mic	aceous	
•		Siltstone		k rock : Grew Weak rock	4				4.1		
174.90	2.70	Mudotone Mudotone		: Grey Silty Wea : Grey Weak rock			•				
180.80	5.90	Sandstone		: Light Gres Ver aceous Weak rook		edium Gra	sined Sub	rounded grain	s Well sorte	ರ	
		Mudstone	40%	: Grew Silty Wea	sk rock						
					. BASE OF Mo	unt Toons	dina Form	ation + 18 <b>0.</b> 8	Om		
			ment to the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the seco	**************************************	TOP OF S	tuari Ran	nde Forna	51on. +180.80 m			***************************************
200.00	19.20	Mudutone Mudstone		: Gres - Brown S							<b></b>

STANDARD TO BE THE STANDARD TO STANDARD TO STANDARD TO STANDARD AT 200.00m.

#### 258

CRA EXPLORATION

ARCKARINGA BASIN - WIRRANGULA HILL

LISTED 06-MAY-82

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HOLE NUMBER
              :82 AWH 2
                                        PARISH
HOLE TYPE
               *ROTARY
                                        HUNDRED
GRID TYPE
               : AMG
                                        SECTION
EASTING
               :520550
                                        LOG ORGN
                                                         : CRA
NORTHING
               :6834500
                                        LOGGED BY
                                                         : DRM
ACCHEACY
               :APPROX.
                                        DRILL CHIRCTE
                                                         :P. NITSCHEE
DATUM
               1040
                                        DRILL TYPE
                                                         :BOURNE 2000
COLLAR EL
              1274.0
                                        TECHNIQUE
                                                         : MUD
SHEET REE
               :SH53-3
                                        CORE SIZE
TOTAL DEPTH
              1272.00
                                        GEOFHYS. ENTROTR: CENTURY GEOFHYSICS.
COMMENCED
               105/04/80
                                        WATER LEVEL
                                                         :27.8
COMPLETED
              107/04/89
                                        DATE MEASURED
                                                         107/04/82
INCLINATION
              :--70
                                        FLUG DEFTH
STEMUTE
                                        CASED DEPTH
                                                         16.0
                                        PILINU
                                                         :METRES
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OPEN HOLD 0.00, TO 270, DON R.O.H.

PLOTHY: FLOY LOB UNLY TO 200, 'M AS HOLE BLOCKED.

PAMPLES 003 YOU TO SM3439 TAKEN OVER INTERVAL DE TO 118M BRILL DEFTHCORRECTED DEFAU 95,80M TO TOP OF SAMPLE 893420.

SAMPLE 97344 TO 393444 TAKEN OVER INTERVAL 132 TO 140M DRILL BEPTHCORRECTED DEVTH 127,21H TO TOP OF SAMPLE 893440.

ALL SAMPLES DESPAICHED OM E.R.O. NO. 80710.

法出口支票建筑未出来的基本主义的基本的基本的工程,可以自己的国际的工程的一位的自己的一位人,但是自然任何,并未是法法法的工程,是不是法法法法法法法法法法法法法法

ATTITUTE REMAINS WEREATH COMMENTS/REMARKS AND PRESSNI IN THE PINARY FILE.

THE TRANSFORMATIONS OR SELECTIONS WERE MADE DUPING CRUNCH *********

OF THE CORDS WRITTEN 15 : 45

THOSE LENGTH 15 : 5

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	ESTIMATED THICKNESS	ROOK TYPE	GEOLOGICAL DESCRIPTION OF DATA SAM	MPLE NO.
2,30	2.30	Seit	Red - Brown Fine Grained Silts Very loose sand Soil Secondary Gypsum Common	trick of the country and the part to
		-	උ.3ට TOP OF Pulldod Shale: 2:30 m	
6.00	\$ <b>,</b> 70	Mudstone	Light Grey Wook rock Very weathered Secondary Iron Oxide Common On bedding planes	
15,00	9.90	Modstane	Dark Olive - Grew Silty Bands Industed Bands hederately weak rock Slightly weathered Secondary Iron Olide Sparse On bedding planes	
(11,50)	3 / 11	Mudelbene Mudelbene	SOX : Park Aren Maderately week runt SOX : Tournds middle of Unit Dark Brow Silty Mederately week rock Fow Thin Banditone Pands	
100.00	7 A .	Sant Core	Find to m Jour Grained Moderately corted	•
1		integral (1995) Hilled (1996)	90% : Park Office - Gres Week tich Flastie 199% : Burt Office - Gres Silts Maden Felo west rach •	
			PAGE OF Publication 58/207	
			GEDLOGICAL THICKNEY 55. 90:	
			TOP OF Codm. Histories 5. Filtere - 58020m	
12,00	<b>अ</b> ्थर	Rismois ( 170)	80% : Off - White Fire to Veru Coard Trained Subarmular to subnounded Well sorted Poldmethuc-Guardmese Salte Mater Weak rock. Scanular Family With Sub-angular Outers Rebbies & Topp	
		Part U. Con		
12010 1	n no	Stanfold in	Differ What. Fire to Fearse Orathod Cubanniller to subtrained Well serbed west real Coercombs shward.	
	•			
\$1.50a	41.1.	Sindibes Fall'the	MAL : Light from Vord Fire to Medium Go leed Subrearded grains haderately conted . His impound Maderately weak roof . Ask I light wave gende Unit roof .	

And the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of t

ARCKAR	INGA BASIN	- WIRRANGULA HILI.		n my big am ma ma and ma yed an site this
IC BASE	THICKNESS		GEOLOGICAL DESCRIPTION OF DATA	SAMPLE NO
	4.80		50% : Light Grew Slightly Silty Weak rock 50% : Light Grey Fine to Very Coarse Grained Subandular to subrounded Well sorted Feldsrathic-Quartzose Silty Matrix Micaceous Moderately weak rock	
			PASE OF Cadra-owie Sandstone , 85.80 m	
		700 Mp 1 (y b) 1 2 1 (y 1 m m) 2	GEOLOGICAL THICKNESS 27.60m	
			TOP OF Algobuskina Sandstone , 85.80 %	der der spirt som tilpa tille kom kom kom som som som til
88.40	2.80	Conditions	Light Grow Medium to Very Coarse Grained Subangula: to subrounded Granular Well souted Foldarathic-Quartzoso Micaccous Moderately weak road.  Fou Salespurgued Guarts Grains - Tame.	
102/00	17.0	Sensit Fone	Aff - White light firet fine to Very Coarse Grained Subangular to subrounded Wall co. 4.4 Feldspathic-Quartzose Apolinatic Matri, Muderately weak rock	
H0.20	9.20	Scholline	Off - White Endit Grev Medium to Vest Correc Graine Subandules to subrounded Granulis Well sorted Foldsmathic-Granulis Weak each	
116 73	0417	Serve (* en.	From Cres Serv Fine to Medium Coope & Auderstele : Sted Moder Felo weak rock	
			FASE OF Aldebesisher Fundations - 116.16#	
		and and the make of persons and the	GEOLOGICAL TRICKNESS 30.36 H	
		=	TOP OF Mount Torriding Formation vits.16m	med adder menn tilser som pring ennen detps somde findet somp bor
116.78	# <b>41</b> gr	Modeltone	Seal Gram Signitiv C. chaneceas	
116.00	0.47	Model no	Most Green West park	
(17-50	0,70	Modatorio	Mark Gree Slightle Curbenzeeous Week rech	
F # 8 - 740	1 + C	Call Call Corp. Budat Law	30% : 5. ndel 30% : Bork From Wesk reek	

RCKARI	NGA BASI	N - WIRRANGULA HILL		
	ESTIMATEI THICKNES	ROCE TYPE	GEOLOGICAL DESCRIPTION OF BATA	SAMPLE NO.
118.90	0.30	Coul	Dark Brown - Black Mixed (40-60%) Moderately west rock	
119.11	0.21	Coel	Rark Brown - Black Pull (<25%) Moderately weak rock	
119.33	0,22	Coal	Park Brown - Block Mixed Mainly Dull (25-40%) Mederately weak rock	
119.50	0.27	Mudstone	Grey Silts Micaceous Wook reek	
119.96	0.36	Cecl	Park From - Black Bull (<25%) Wesk rock	
120 - 16	6.20	Mud: tone	Snav Na.1. nne⊧	
120.43	0.27	Mudstone	Carbangoonus	3
121,40	1.17	Eiltstone		
122,03%	$\alpha_{s} a_{s}$	Muchillona		
124 + JTD	0.10	Offications	endido	
124-17	9.25	Burintan	Casta	. •
125 - 76	15   53 77	Nurly torre Schlisters	Sot : Towards for of Unit 50% : -	
126: 02	0.07	Canditons	Fire to Cuarse Grained duderataly sorted	

ARCKARI	INGA BASIN	- WIRRANGULA HILL		
TO BASE	THICKNESS		GEOLOGICAL DESCRIPTION OF DATA	SAMPLE NO
		Siltstone	60% : 40% : Enew Moderately weak rock	
127.94	0+22	Coal	Mixed (40-60%)	
129.56	1.62	Mudstone	Gres Moderatols weak rock	
130.82	1.26	Siltstone Mudstone	70% : Sanda 30% : Slightly Silty	
172.00		Modistane Modistane	POX : Slightly Carbonaceous 50X : -	
132.96	0.78	Siltstone		
133 v Ta	0.46	Cool	Mined (40-50%) Pull Bands In Middle	
177.88.	0.02	Mudutone		
136, 18	2.60	Mudatone Salistone	50% : Park Bres Slimitle farboniceeous 50% : Gree	
136.01	0.13	Mudetons	Costs	
136.02	0.73	Mudatene	S:ltg	
137.39	0.47	Colei	Direc Mainle Dull (25-40%) Bull To Pase	

BEFTH ESTIMATED ROCK TYPE GEOLOGICAL DESCRIPTION OF DATA THE BASE THICKNESS  4.73 Mudstone 30%: - Sandstone 30%: - Sandstone 30%: Very Fine to Fine Grained Well sor  142.49 0.37 Mudstone Coaly  143.08 0.59 Mudstone Silty  143.44 0.36 Coal Mixed Moinly Dull (25-40%)  150.70 5.26 Mudstone 20%: Slightly Carbonaceous To Tor Siltstone 40%: Sandy  119.50 0.80 Sandstone Very Fine to Fine Grained Moderately sor  150.20 0.70 Mudstone -  152.10 1.90 Sandstone ToX: Very Fine to Medium Grained Moderately Sor  153.36 1.26 Modstone Silty Band.  153.38 0.47 Coal Mixe: (10-60%)	
142.12	SAMPLE NO.
143.08 0.59 Mudstone Silty  143.44 0.35 Coal Mixed Moinly Dull (25-40%)  140.70 5.26 Mudstone 20% : Slightly Carbonoceous To Tor 40% : Sandy  149.50 0.80 Sandytone Very Fine to Fine Grained Moderately son  150.30 0.70 Mudstone —  152.10 . 1.90 Sandytone 70% : Very Fine to Medium Grained Moderately 30% : —  163-36 1.26 Mudstone Silty Band.  153.83 0.47 Coal Mudst (10-60%)	
Mixed Mainly Dull (25-40%)  143.44 0.36 Coal Mixed Mainly Dull (25-40%)  140.70 5.26 Mudstone 20% : Slightly Carbonaceous To Ton 40% : Sandy  149.50 0.80 Sendstone Vory Fine to Fine Grained Moderately son  150.30 0.70 Mudstone —  152.10 . 1.90 Sandstone 70% : Very Fine to Medium Grained Moderately Son 30% : —  163.36 1.26 Mudstone Silty Band.  163.83 0.47 Coal Mixel (10-80%)	
140.70 S.26 Mudstane 20% : Slightly Carbonaceous To Tor 911stone 40% : Sandy  149.50 O.80 Sandstane Very Fine to Fine Grained Moderately sor 150.20 O.70 Mudstane —  [52.10 . 1.90 Sandstane 70% : Very Fine to Medium Grained Moderately 30% : —  163.36 1.26 Modstane Silty Band.  153.83 0.47 Cool Midel (10-60%)	
Siltstone 40% : Sands  149.50	
1.90   Sandstone   70% : Very Fine to Medium Grained Modera   30% : -	ed v
Saltstore	
153.83 0.47 Cool Mukei (10-66%)	)ly sorted
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<b>£54.1</b> 1 0.28   Mudatone Silty	•

194.45

0.33

Mudstone

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ARCKARI	INGA BASIN	/ - WIRRANGULA HILL	j	
	ESTIMATED THICKNESS	ROCK TYPE	GEOLOGICAL DESCRIPTION OF DATA	SAMPLE NO
162.90	8.46	Sandstone Siltstone Mudstone	40% : Towards tup of Unit Very Fine to Fine Grained Moderately sorted 30% : Towards Rase of Unit 30% : Silty	
148.80	5.90	Mudstane Siltstone	60% : - 40% : Muddy Bands, Hard Band At Buse	
172.00	3.20	Sandstone	Very Fine to Medium Grained Well ported	
177.92	5.92	Siltstone Sendstone	60% : Light Grey Sandy Moderately weak rock 40% : Very Fine to Medium Grained Moderately sorted	
178.24	0.32	Mudetone	Rambonaeseeu	•
147.98	9.71	Siltstone Madetine	40% : Light Gree Mederately weak week 40% : Silte	٠
1 <i>90</i> 90	2.82	Simistane	Varu Fine to Fine Greinad Hadaratelo parted	
196,36	5.50	Siltatora Mudotora	60% * Light Grey Moderately week rock 40% : Grey Gilty Moderately week rock	
<b>206</b> .70	10.40	Medstone Ciltstone	60% : Gree Weit west west rec!	-
		the matter state (state and the state and		
			TOP OF Formich Undifferentiated - 206.70m	and the state of a state of a state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
<b>272</b> . 90	65.30	Mudstone Mudstone	60% : Grew Week reck 40% : Grew Silte Michemous Moderately weak rock tess Eilty To Base	

or works where we are experienced to the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the prope

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ARCHAR	INGA BASIN	- UTRRANGULA HILL		
	THICKNESS	ROCK TYPE	GEOLOGICAL DESCRIPTION OF DATA	SAMPLE NO.
1,00	1.00	Soil	Red - Brown Clavey Soft clas Soil	
		*** #** #** 100 100 400 400 400 400 400 400	TOP OF Bulldos Shale, 1.00m	nui ann ann ann an a- an an an an an an an an an
2.00	1.00	Mudstone	Light Grey Weak rock Moderately weathered Speendary Iron Oxide Abundant	
19,00	17.00	dudstone	80%: Light Grew Olive - Grew Modorately weak rock Slightly weathered	
		Sandstone	Secondary Iron Oxide Abundant On bedding planes Secondary System Common 20%: Light Orange - Brown Very Fire to Fine Greined Weal reel Slightly weathered Secondary Iron Oxide Abundant	
48.40	29,10	ทับสัมโอกอ	Pack Grew Filts Fends Indusated E. ods Moderately week rock	
48,20	6.459	Sand Neme	Light Grew Fine Grained Week roof.	•
<b>56</b> : 30	7.40	Most Constitution	Tools Gres Silts Ramis Medica (olt op 1 spel	
<b>57</b> -/	$\frac{\mathbf{A}_{i}}{\mathbf{A}_{i}} = \frac{\mathbf{A}_{i}^{\mathrm{TR}}}{\mathbf{A}_{i}} = 0$	Remaistance	Frankt Grev Erre to Dozen (Grishmid Rubsansula) West Heet	
62.19	4, 3	White the same	Cross that I was not be to the or	
			TASE OF Early loss 62 10m	
		and the set along the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the		
			TOP UF Collections to the term of 62.10 m.	
<b>80</b> a W	\$₩.**	October 1. Sept.	tight Grow Fine to Mero Coerce Gearned Mainzon, a transferended Grandles Sand. Febbly Reil Farted Maintzific Probbly Fritz astro beef rock Howard Financ Cooler With Silt Line Cooler Uf Cycle	
<i>84</i> ··	a just		50% : Grow Moderntole weak rest   45% : 13355	

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. The district Green for the Verminister Gariner subsequences to cultivaries engagely.

While Well control Chertharts, Similativ Colts in this Work rock.

2 of the Special Chertharts and D

		- WIRRANGULA H.	11.L	
DEPTH TE BASE	THICKNESS		REOLOGICAL DESCRIPTION OF DATA	SAMPLE NO.
92.60	1.10		Grap Moderatelo weak rock	
			BASE OF Codna-owie Sandstone , 92.60m	<u></u>
			GEOLOGICAL THICKNESS 30.50m	
		The fire and one one	TOP OF Alsobuckina Sandstone , 92.60.m	
111.60	19.00	Sandstone	70% : Light Gree Very Fine to Coorse Grained Subangular to submounded Well conted Quantzitic Silts hatrin Weak rock	
		Siltstene	30% : Gres hadenatels week reek	
113.00	1.40	Mudstone Mudstone	60% : H 40% : 511th	
<b>11</b> 5.5≜	2.40	Muditone Ciltitone	4호텔 : 의원()) 4호텔 : -	
		Service Concession	DOT : Merry files to files Armoned Mederately repted	
£7.55	1.74	er Julyan	orn - Whate Ladd Gret Dake to More Journal Occased Tehandular to subrounded to such a fine the subrounded to such the Silte metric West rock Concentral unwards	
24 25	1. 4 C	State Comme	FMM 1	
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area of Record Tourisms Formation :130.49 m ......

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ARCHARINGA BASIN - WIRRANGULA HILI					
TO DASE	PETH ESTIMATED ROCK TYPE P BASE THICKNESS		GEOLUGICAL DESCRIPTION OF DATA	SAMPLE NO.	
	1.06		Dark Brown - Black Mixed (40-60%) Weak rock Dull In Middle; Immature, Sub-Bituminous Grade		
<b>13</b> 2.55	0.51	Mudstone	Park Brown - Grou Slightly Carbonaceou: Weak rock		
135.40	2.85	Mudstone Siltstone	80% : Slightly Silty 20% : -		
136.00	0.50	Mudstone	Bank Gray Weak rach		
140 - 60	\$ (r	Conditione	So b Fine to fearth Arbored Suluming, to submounded Moderately corted federately worked		
141.00	0.40	Mortstone	tron West reel	٠	
142.50	\$1,197	Minds from Night Colorae	GOV : Silve West stet NOT :NH		
143-1	11.22	6.1.19	Studio St. C. (40-89%) Moderately as for all	•	
143	w. Cr		First Hi ed Horsly Bell (25-40th Hebratoly gest, ouch		
149.40	5.30	Scholatene Sulto topo	70% t Meta Finer to Medium er lined dadata bels gisto? 30% t Brev Pladdly Biezopous Wesk appl	•	
(S) (1%)	7.75	Mudsten And Char	40% : Gran Stite Clashtle Micercae, West rock (Figshtle:Carbonaceous To B.se 10% : West Free to Fine Grains)		
153.20	1 - 17	Ce. J	мыd (140- к <u>9</u> 5)		
157.00	জ সহ	Family Lone Cattleton	ANT : Meri Fine to Hodrum Gruined dode, state gosted		

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		N - WIRRANGULA H	HILL	
TO BASE	THICKNES	S	GEOLOGICAL DESCRIPTION OF DATA	SAMPLE NO.
160.96		Mudstone Siltstone Sandstone	50% : Slightly Silty 30% : - 20% : Very Fine to Fine Grained	
161.30	0+34	Mudstone	Dark Brown Carbonaceous Weak rock	
141.75	0.45	Sandstone	Vers Fine Grained	
161.96	0.21	Mudstone	Coaly	
102,40	0.54	Builstone	Bart. Greu West, rock	
162.77	0.16	Sillstone		
1.63 - 3.1	0.11	Coul	Tull (< 25%	
163,73	6 45	Minist ne	Detributed test	
164	·) ↓ 7 (*	Nanda tons	Very large to Medium Grained Maderately sorted	
164,0%	0.50	mede home	Seal From a from Wool rock Stashtle Corbonsceous To Base	<b>*</b> -
165.39	0.20	2001	fined theath:	
165.0=	<b>⊕</b> 1, <	nu s. tene	Prof. From a Cres Vest rock	
167,90	1.79	Funds to no	Fine to Modius Grained Mederately sorted	
167.40	9. ¥ t	hus, tone	tert from tasten cover wesk rock	
148. :0	1.93	€e1	Plack Found (40) a0%? Deak rock	

ARCNAR	INGA BASIN	- WIRRANGULA HILL		
O BASE	THICKNESS	l .	GEOLOGICAL DESCRIPTION OF DATA	SAMPLE NO.
169.09	0.61	Coul	Black Dull (<25%) Weak rock	
169.50	0.41	Co31	Elack Mixed (40-60%) Weak rock	
184.80	15.30	Sandstone	Light Grew Fine to Coarse Grained Subangular to subrounded Well sorted Micaceous Weak rock. Thin Comented Hard Pands	
186.00	1.20	Mudstone	North Brewn - Black Slightly Carbonacecur Weak rock	
192.00	A.00	Mudstone Cylindione	60% : Dark Grew Wesk rock 40% : Dark Grew Indurated Bands Moderatily weak rock	
194.24	.1.3/4	Mudritorio Mudritorio	50% : Dark Brown - Grev Moderately week rock 50% : Dark Brown - Grev Silty Slightly Micaceous Moderately weak rock	
194 - 1.2	<b>0.2</b> 9	Cort	Respond Marinal (1901 - 25-40%)	
194.00	0.37	tradition to the second	•	
195 -112	0.90	m. Patienie	i antigration and the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second o	
19 <b>5</b> 4.1	A. <b>2</b> 0	Mu to to as	Strabtle Varbinsenes.	-
195.90	0.48	flee)	Bured Meraly Pell (20-90%)	
196.34	11. 15	Color	9011 ( 25%)	
197.02	e.,∠a	Music Ferre		
197-28	14.23	flucts times	Contactores un	

ARCKAR	INGA BASIN	- WIRRANGULA HILL		
	ESTIMATED THICKNESS		GEOLOGICAL DESCRIPTION OF DATA	SAMPLE NO.
<b>20</b> 1,40	4.12	Siltstone Mudstone	60% : 40% : Gres Moderatels weak rock:	
<b>29</b> 1.80	0.40	Mudstone	Dark Brown - Black Carbonaceous Moderately weak rock	
204.60	2.80	Mudetone	Grew Slightly Silty Rands Moderately weak rock	
		· A. A. A. A. A. A. A. A. A. A. A. A. A.	BASE OF Mount Tounding Formation ,204,60 m	
		N AND AND MAD IN THE THE SER	GEOLOGICAL THICKNESS 74.11m	
			TOP OF Permian Undifferentiated ,204,60 m	AND MADE AND THE THE SER THE SER THE SER SER
242.00	37.40	Mudatone	Gray Brown - Gray Slightly Silty Banda Slightly Micacoous Moderately weak rock Increasingly Silty To Base	•
248 .06	<b>6,0</b> 0	Mudetone	Grey - Brown Moderately weak rock	

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#### APPENDIX III

COMPUTER DRAFTED GRAPHIC GEOLOGICAL & GEOPHYSICAL LOGS

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APPENDIX IV

MULTICOMMODITY ANALYTICAL DATA SHEETS



lemington Street, Frewville, South Australia 5063 Phone Adelaide 79 1662 Telex AA 82520

> Please address all correspondence to P.O. Box 114 Eastwood SA 5063 In reply quote:

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3/1/6/0 - AC 5501/32

6 May 1932

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#### NATA CERTIFICATE

REPORT COMPLETE

82AWHI

Mr. D.R. McBain, CRA Exploration Pty.Ltd., P.O. Box 254, NORWOOD S.A. 5067

#### REPORT AC 5561/82

YOUR REFERENCE:

D.P.O. Number B 0711

IDENTIFICATION:

As listed

DATE RECEIVED:

19 April 1982

D.K. Rowley Manager Analytical Chemistry Division

ce The Monager,
CRA Exploration Pty.Ltd.,
P.O. Box 254,
NORWOOD S.A. 5007
(Invoice)

for Norton Jackson Managing Director

Sl. Doudetch

Head Office:
Flemington Street, Frewville
South Australia 5063,
Telephone (08) 79 1662
Telex: Amdel AA82520
Pilot Plant:
Osman Place
Thebarton, S.A.
Telephone (08) 43 8053
Branch Laboratories:
Melbourne, Vic.
Telephone (03) 645 3093
Perth, W.A.
Telephone (09) 325 7311
Townsville
Queensland 4814

Telephone (077) 75 1377



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ANALYSIS L/Tonne

SAMPLE MARK	OIL YIELD
893412	>15
13	5-15
14	5-15
15	5-15
16	1.5-5
17	1.5-5
18	1.5-5
19	1.5-5
20	1.5-5
21	1.5-5
22	1.5-5
23	1.5-5
893424	1.5-5
Method: R7	



5 Temington Street, Frewville, South Australia 5063 Phone Adelaide 79 1662 Telex AA 82520

> Please address all correspondence to P.O. Box 114 Eastwood SA 5063 In reply quote:



3/1/6/0 - AC 5561/82

4 May 1982

#### NATA CERTIFICATE

#### PART REPORT 1

Mr. D.R. McBain, CRA Exploration Pty. Limited, P.O. Box 254, NORWOOD S.A. 5067

#### REPORT AC 5561/82

YOUR REFERENCE:

D.P.O. B 0711

IDENTIFICATION:

As listed

DATE RECEIVED:

19 April 1982

D.K. Rowley Manager Analytical Chemistry Division

cc The Manager,
CRA Exploration P/L,
P.O. Box 254,
NORWOOD S.A. 5067
(invoice)

for Norton Jackson
Managing Director

Pilot Plant: Osman Place Thebarton S.A., Telephone 43 8053 Branch Laboraton 8

Branch Laboratories:
Perth W.A.
Telephone 325 7311
Melbourne Vic.
Telephone 645 3093

ij





Analysis code Cl Report AC 5561/82

Page 1

NATA Certificate Order B0711 Results in ppm

	Sample	Cu	Рb	Zn
	893400	6	30	36
	893401	2	5	14
	893402	8	15	38
	893403	4	10	26
	893404	2	5	12
	893405	2	10	5
	893406	2	10	8
	893407	4	15	100
	893408	5	20	280
	893409	2	1,01	28
	893410	4	10	30
	893411	2	15	55
	893412	28	35	95
	893413	28	40	130
1	893414	20	35	1.00
•	393415	18	30	70
	893415	1.8	25	7 Ø
	393417	22	40 .	95
9	893418	18	30	75
5	393419	22	35	35
9	393420	22	40	90
8	393421	22	40	85
8	393422	20	35	35
8	393423	20	40	95
5	393424	22	35	95
tn	limit	(2)	(5)	(2)



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# amde[

3/1/6/0 - AC 5878/85

26 May 1982

#### NATA CERTIFICATE

#### PART REPORT 1

Mr. D.R. McBain, CRA Exploration Pty.Ltd., P.O. Box 254, NORWOOD S.A. 5067

#### REPORT AC 5872/82

YOUR REFERENCE:

D.P.O. Number: B 0712

IDENTIFICATION:

As listed

DATE RECEIVED:

3 May 1982

ANALYSIS L/Tonne

	SAMPLE MARK	OIL YIELD
	893440	5-15
Wirrangula	111 41	. 5-15
WILKUNGACA	Hill .42	1.5-5
82 AWH 2	43	5-15
	Method: R7	

D.K. Rowley Manager Analytical Chemistry Division

S.G. Bowditch

for Norton Jackson

Managing Director

cc The Manager, CRA Exploration Pty.Ltd., P.O. Box 254, NORWOOD S.A. 5067

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Telex: Amdel AA82520

Head Office:

Pilot Plant:

le Th

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ANALYSIS
g/Tonne

SAMPLE MARK	GOLD Au
893425	0.055
26	0.065
27	0.070
28	0.070
29	0.080
30	0.060
31	0.105
32	0.055
33	0.070
34	0.060
35	0.070
36	0.075
37	0.060
38	0.070
893439	0.285
Method: K4/2	



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3/1/6/0 - AC 5872/82

1 June 1982

#### NATA CERTIFICATE

#### REPORT COMPLETE

Mr D R McBain CRA Exploration Pty Limited PO Box 254 NORWOOD SA 5067

#### REPORT AC 5872/82

YOUR REFERENCE:

DPO Number B 0712

IDENTIFICATION:

As listed

DATE RECEIVED:

3 May 1982

wangula Hill

D.K. Rowley Manager

Analytical Chemistry Division

4511

cc The Manager CRA Exploration Pty Ltd PO Box 254

NORWOOD SA 5067

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for Norton Jackson Managing Director

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Analysis code Cl

Report AC 5972/92 -

Paga 1

NATA Certificate Order B 0712

Results in ppm

Sample	Cu	Вþ	Zn
393425	ج	3.8	90
393425	5	15	44
393427	4	10	36
893428	2	5	16
893429	9	20	50
893430	Ģ	10	49
393431	< 2	13	18
893432	2	10	26
893433	2	1.5	26
893434	< 2	5	1.0
393435	< 2 ·	5	10
893436	< 2	5	8
893437	2	20	50
893438	2	15	20
393439	5	20	70
893440	12	35	100
893441	14	35	95
893442	9	.35	102
893443	15	35	110
etn limit	(2)	(5)	(2)



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NATA CERTIFICATE

3/1/6/0 - AC 5871/82

24 May 1982

82AWH4

#### PART REPORT 1

D R McBain CRA Exploration Pty Ltd PO Box 254 NORWOOD SA 5067

#### REPORT AC 5871/82

YOUR REFRENCE:

DPO Number B 0713

IDENTIFICATION:

As listed

DATE RECEIVED:

3 May 1982

D.K. Rowley
Manager
Analytical Chemist

Analytical Chemistry Division

cc The Admin. Officer CRA Exploration PO Box 254 NORWOOD SA 5067 (Invoice) for Norton Jackson Managing Director

S. Bouditch

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ANALYSI	S_g/tonne	ANALYSIS g	[S g/tonne	
SAMPLE , MARK	C. ' . GOLD Au	SAMPLE MARK	GOLD Au	
893445	0.070	893464	0.070	
46	0.090	. 65	0.130	
47	0.125	66	0.080	
48	0.110	67	0.055	
49	0.080	68	0.030	
50	0.100	69	0.070	
51	0.090	70	0.055	
52	0.120	71	0.080	
53	0.120	72	0.150	
54	0.070	73	0.080	
55	0.065	74	0.100	
56	0.075	75	0.090	
57	0.055	76	0.070	
58	0.110	77	0.055	
59	0.070	893478	0.070	
60	0.075		•	
61	0.055			
62	0.085			
63	0.090			

METHOD: K4/2

METHOD: K4/2

AC 5871/82

Page 3

#### ANALYSIS 1/tonne

-		
	SAMPLE MARK	OIL YIELD
	893479	>15
	893480	>15
	893481	5-15
	893482	1.5-5
	METHOD: R7	



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**NATA CERTIFICATE** 

3/1/6/0 - AC 5871/82

27 May 1982

#### REPORT COMPLETE

D R McBain CRA Exploration Pty Ltd PO Box 254 NORWOOD SA 5067

#### REPORT AC 5871/82

YOUR REFERENCE:

DPO Number B 0713

IDENTIFICATION:

As listed

DATE RECEIVED:

3 May 1982

Wirkangula. Hill 82 AWH 4 D.K. Rowley Manager Analytical Chemistry Division

cc The Admin. Officer CRA Exploration P/L PO Box 254 NORWOOD SA 5067 (INVOICE) for Norton Jackson Managing Director

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Queensland 4814 Telephone (077) 75 1377





Analysis code Cl

Report AC 5971/82

Page

NATA Cortificate

**೧**೮೮೧೮ B 0710

Results in ppm

Sample	Cu	Рb	Zn
8934445 8934446 8934449 8934449 8934450 8934451 8934452 8934455 8934455 8934455 8934456 8934456 8934456 8934456 8934456 8934456 8934464 8934464 8934464 8934471 8934471 8934474 8934474 8934474 8934477 8934477 8934477 8934477 8934477 8934477 8934477 8934477 8934477 8934477 8934477 8934477 8934477 8934477 8934477 8934477	Cu 2222462222268992222222222222222222222222	Pb 100 100 1155 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1555 100 1	Zn 30 22 14 26 23 30 34 38 12 36 37 57 57 57 57 57 57 57 57 57 5
8934479 8934480 8934481	14 12 24	3 <i>0</i> 25 35	170 163 95
8934482	18	3.5	98
eth limit	(2)	(5)	(2)

#### 290

#### CRA EXPLORATION PTY. LIMITED

# SECOND QUARTERLY REPORT FOR WIRRANGULA HILL E.L. 924, SOUTH AUSTRALIA, FOR THE PERIOD ENDING 15TH MAY, 1982.

The contents of this report remain the property of C.R.A. Exploration Pty. Limited and may not be published in whole or in part nor used in a company prospectus without the written consent of the Company.

AUTHOR:

D.R. McBAIN

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DATE:

10TH MAY, 1982.

SUBMITTED BY:

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#### 1. SUMMARY

A drilling programme comprising four open holes was undertaken.

Permian coal measures were intersected in three holes in the southern part of the area. The individual and aggregate coal seam thicknesses increase to the north and north-east and correlate with increases in depths to coal.

The hole in the north of the area was abandoned prior to the Permian due to an artesian flow in the Mesozoic sands.

#### 2. CONCLUSIONS

#### Southern Part

- 2.1 The thickness of the Permian coal zone increases to the north and north-east, and correlates with increases in depths to coal.
- 2.2 The individual and aggregate coal seam thicknesses also increase with depth to coal.
- 2.3 In the south of the area the proportion of coal in the coal zone remains fairly constant, between 9-13%, regardless of depth.

#### Northern Part

2.4 The prospects of shallow (<120m) Permian coal, are poor. This is inferred from the thickness of the overlying Mesozoic Bulldog Shale of at least 95m.

#### 3. INTRODUCTION

Exploration Licence 924 (Plan SAa 1331) was taken out as part of the coal exploration programme of CRA Exploration Pty. Limited within South Australia. The target horizon being the Permian Mt. Toondina Formation on the margins of the Arckaringa Basin. Previous boreholes in the vicinity had intersected Permian age coal.

The tenement was granted to CRA Exploration Pty. Limited on 16th November, 1981 for a period of twelve months. This report details all work carried out by CRA Exploration Pty. Limited within this E.L. in the quarter to 15th May, 1982.

#### 4. WORK CARRIED OUT

#### 4.1 Geophysics

#### 4.1.1 Gravity

The interpretation of the six line gravity survey on the southern part of the E.L. was completed. The report entitled "Wirrangula Hill E.L. 924, South Australia, Interpretation of Gravity Survey" by B. Finlayson (CRAE report no. 11132) is presented under a separate cover.

The interpretation recommended a six hole programme in the area covered by the gravity survey (Plan SAa 1331).

#### 4.1.2 Downhole

All the boreholes, except 82AWH3, were logged by Century Geophysical Corporation of Australia. Long and Short Spaced Density, Gamma, Caliper, Neutron-Neutron, Spontaneous Potential and Resistivity logs were run.

82AWH3 was not logged due to the unstable conditions prevailing in the hole.

#### 4.2 Drilling

#### 4.2.1 General

Four boreholes for a total of 816 metres were drilled (Plan SAa 1331) using a Peter Nitschke Drilling/Century Geophysical combination.

Borehole 82AWH3 was abandoned at 96 metres, prior to target depth due to a strong artesian flow, drilling could not be continued as no special weighted muds were available on site.

#### 4.2.2 Borehole Results

The three boreholes in the southern part of the E.L. all intersected coal; the summary appears in Table 1.

In the southern part of the E.L. the coal zone thickens with increasing depth to coal in the northerly and north-easterly direction. (Plan SAa 1331). With the thickening of the coal zone the individual and aggregate coal seam thicknesses increase.

In the northern part of the E.L., the borehole 82AWH3, was abandoned prior to target horizon (Mt. Toondina Formation). The thickness of overlying Bulldog shale would suggest that the prospect of shallow (<120m) Permian coal is poor.

A full evaluation of the E.L. will be undertaken in the next quarter.

English (i.e. written) geological and graphic logs will be presented in the next quarter.

is PMCBain

D.R. McBAIN

DRM/lmc

le.

BOREHOLE NO.	COAL ZO	NE (M)	AGGREGATE COAL THICKNESS (M)	MAX. INDIVIDUAL SEAM THICKNESS (M)	NO. OF SEAMS	% COAL IN COAL ZONE
82AWH1	102.98	115.58	1.60	0.31	7	13%
82AWH2	118.60	153.83	3.01	0.73	7	9%
82AWH4	130.98	196.38	6.94	2.10	8	11%

N.B. The coal seam (individual & aggregate) thicknesses are interpreted from the geophysical logs; and contain no waste material.

#### REFERENCES

Finlayson (1982) - "Wirrangula Hill E.L. 924, South Australia, Interpretation of Gravity Survey" - CRAE report no. 11132.

#### KEYWORDS

Warrina SH53-3, Arckaringa Basin, Permian, Mesozoic, Mt. Toondina Formation, Coal-black, Geophys-borehole, Geophys-grav, Drill-rotary.

#### LOCATION

Warrina SH53-3 1:250 000

#### LIST OF PLANS

Plan No.	Title	<u>Scale</u>
SAa 1331	Wirrangula Hill E.L. 924 - Drilling Programme - borehole	1:100 000

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#### CRA EXPLORATION PTY. LIMITED

#### FINAL REPORT ON WIRRANGULA HILL E.L. 924,

SOUTH AUSTRALIA, 15th JUNE, 1982.

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AUTHOR:

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15TH JUNE, 1982.

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#### 1. SUMMARY

During the tenure of the exploration licence an extensive data review, a six line gravity survey, and a four hole reconnaissance drilling programme were undertaken.

No previous data was available for the area covered by the tenement. Data review was thus carried out on regional geophysical and previous exploration data from adjoining areas.

To elucidate the basin configuration and structure in the southern portion of the E.L. a six line gravity survey was undertaken. With the enhanced basin configuration, from the interpretation of the gravity survey, a four hole reconnaissance rotary-mud programme was planned and drilled.

In the south of the E.L. where coal was intersected the seams were relatively thin. Seam splitting and thinning occurs in a southerly and westerly direction as the Mount Toondina Formation coal measures become shallower to the basin margins. The upper horizons of the Mount Toondina coal measures are increasingly eroded off towards the basin margins.

The thin seams, low coal to inter-seam waste ratio and the depth to the coal combine to limit the potential for an economically viable coal deposit. The prospect for thicker, shallower coal seams than already intersected appears remote.

It is recommended the E.L. 924 be surrendered.

#### CONCLUSIONS

- 1) The prospects for an extensive coal deposit at less than 120 metres are remote.
- 2) The coal seams are relatively thin, with maximum coal seam development in the deeper parts of the basin.
- 3) The coal seams tend to split to the basin margins.
- 4) The coal to inter-seam waste ratio is low.
- 5) Correlation of the coal seams is only moderate, due to the thin and variable nature of the seams.
- 6) The Mount Toondina Formation coal measures are increasingly eroded to the basin margins as they shallow.

- 7) The potential for an economically viable coal deposit is limited.
- 8) The drilling programme broadly confirmed the basin configuration interpreted from the CRAE gravity survey. However too few boreholes were drilled to extensively test the interpreted basin configuration and structure.
- 9) While several of the multicommodity analyses from the Mesozoic and Permian sediments were elevated, with gold values peaking at 0.125 g/tonne and oil yield at ±20 litres/tonne; no further exploration is warranted by these results.

#### 3. RECOMMENDATIONS

1) It is recommended that the exploration licence be surrendered in its entirety.

#### 4. INTRODUCTION

Exploration Licence 924 (Plan SAa 756) was taken out as part of the coal exploration programme of CRA Exploration Pty. Limited within South Australia. The target horizon was the Permian Mount Toondina Formation coal measures, on the margins of the Arckaringa Basin. Previous exploration boreholes in the vicinity had intersected Permian age coal.

The tenement was granted to CRA Exploration Pty. Limited on 16th November, 1981 for a period of twelve months. This report details all work carried out by CRA Exploration Pty. Limited within this E.L. prior to surrender.

#### 5. GEOLOGY

Using a combination of existing data, CRAE borehole cuttings and downhole geophysical logs a stratigraphy and geology of E.L. 924 was constructed.

The geological interpretation appeared in "Wirrangula Hill E.L. 924, South Australia - Report on the Reconnaissance Drilling Programme, April 1982" (CRAE report no. 11477).

#### WORK CARRIED OUT

#### 6.1 Data Acquisition

Data pertaining to the broad area was acquired. No specific data was available for the licence area.

#### 6.1.1 Regional Geophysics

The regional gravity and aeromagnetic data was insufficient to detail the basin and its detailed structure.

#### 6.1.2 Previous Exploration

Newmont-Dampier, Australian Selection and the S.A.D.M.E. all drilled in the vicinity of the licence area. Borehole logs were acquired for these holes.

#### 6.2 Data Evaluation

The available data was evaluated by contract geophysicist B. Finlayson in "Wirrangula Hill E.L.A. 324/81, South Australia, Evaluation of Coal Prospect" (CRAE report no. 10909), and appeared as Appendix I in the "First Quarterly Report for Wirrangula Hill E.L. 924, For The Period Ending 15th February, 1982."

#### 6.3 Geophysics

#### 6.3.1 Gravity

One of the recommendations of the evaluation of the existing data was that a detailed gravity survey be undertaken in the southern portion of the E.L. In November-December, 1981 a detailed six line, 787 station, gravity survey was carried out by Solo Geophysics. The "Nilpinna" survey grid data was presented in the "First Quarterly Report for Wirrangula Hill E.L. 924, For The Period Ending 15th February, 1982."

The interpretation of the "Nilpinna" survey grid data was presented in a report entitled "Wirrangula Hill E.L. 924, South Australia, Interpretation of Gravity Survey" by B. Finlayson (CRAE report 11132).

#### 6.3.2 Downhole

to the second

All the boreholes, with the exception of 82AWH3, were logged by Century Geophysical Corporation of Australia. Long and short spaced Density, Caliper, Natural Gamma, Neutron-Neutron, Spontaneous Potential and Resistivity logs were run.

Borehole 82AWH3 was not logged due to unstable borehole conditions.

#### 6.4 Drilling

#### 6.4.1 General

Four rotary-mud boreholes, for a total of 806 metres, were drilled using a Peter Nitschke Drilling/Century Geophysical combination. Addition general drilling information was presented in "Wirrangula Hill E.L. 924, South Australia, - Report on the Reconnaissance Drilling Programme, April, 1982".

#### 6.4.2 Borehole Results

The full borehole results, including two tables summarising the coal intersections were presented in "Wirrangula Hill E.L. 924, South Australia - Report on the Reconnaissance Drilling Programme, April, 1982".

#### 6.4.3 Evaluation of Coal Intersections

A detailed evaluation of the coal intersections and the potential of the area appeared in "Wirrangula Hill E.L. 924, South Australia - Report on the Reconnaissance Drilling Programme, April, 1982".

#### 6.4.4 Multi-Commodity Analyses

Selected samples from the Mesozoic & Permian sediments in 82AWH1,2,4 were analysed for oil yield, copper, lead, zinc, gold. While several of the samples returned elevated values with Gold peaking at 0.125 g/tonne and oil yield at  $\pm$  20 litres/tonne none are considered to warrant further exploration at this stage.

The analytical data sheets were presented as Appendix IV in the report entitled "Wirrangula Hill E.L. 924, South Australia - Report on the Reconnaissance Drilling Programme, April, 1982".

D.R. McBAIN

DRM/lmc

#### REFERENCES

Finalyson, B., 1982. Wirrangula Hill E.L.A. 324/81, South Australia, Evaluation of Coal prospects: CRAE report no. 10909.

McBain, D.R., 1982. First Quarterly Report for Wirrangula Hill E.L. 924, for the period ending 15th February, 1982: CRAE report no. 11101.

McBain, D.R., 1982. Second Quarterly Report for Wirrangula Hill E.L. 924, South Australia, for the period ending 15th May, 1982: CRAE report no. 11101.

McBain, D.R., 1982. Wirrangula Hill E.L. 924, South
Australia - Report on the Reconnaissance
Drilling Programme, April, 1982:
CRAE report no. 11477.

#### KEYWORDS

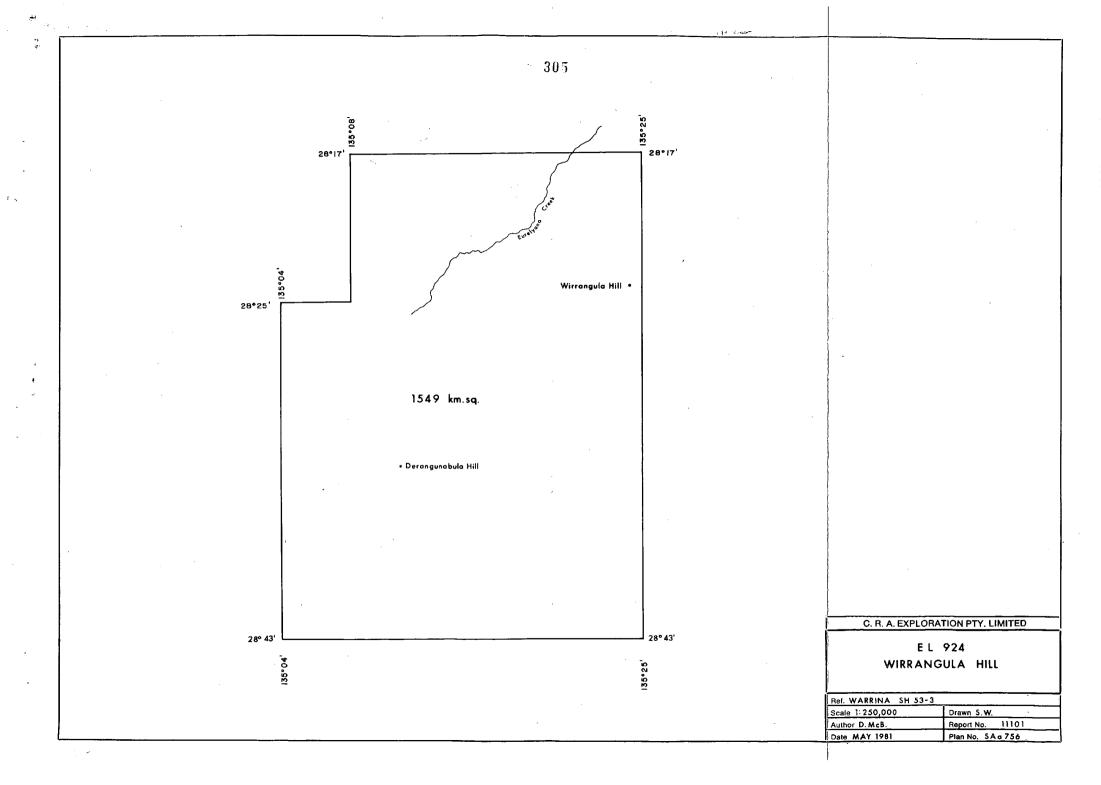
Warrina SH53-3, Arckaringa Basin, Permian, Mesozoic, Bulldog Shale, Algebuckina Sandstone, Cadna-owie Sandstone, Mount Toondina Formation, Stuart Range Formation, Coal-black, Geophys-aeromag, Geophys-borehole, Geophys-grav, Drill-rotary, Drill-assay, Data review.

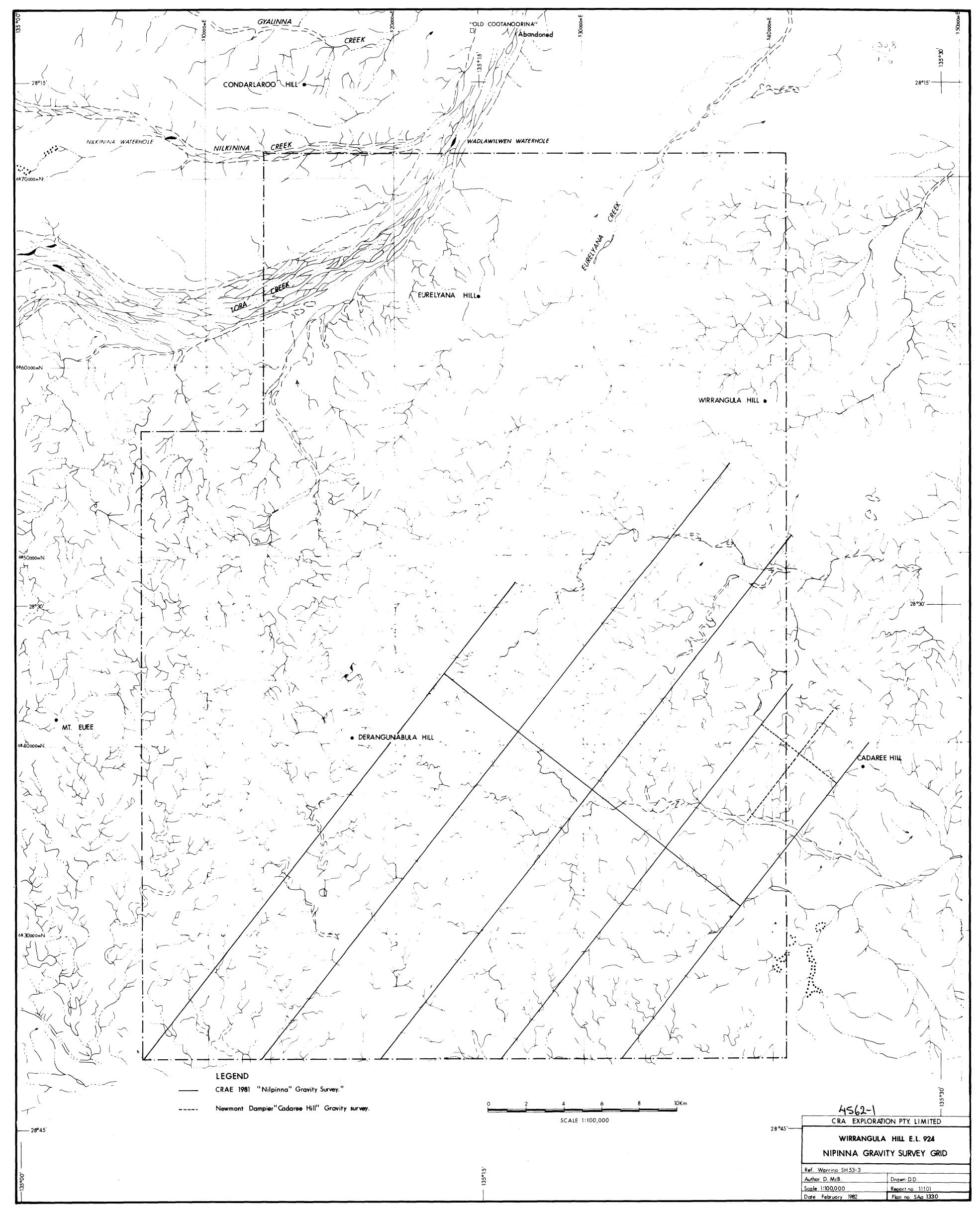
#### LOCATION

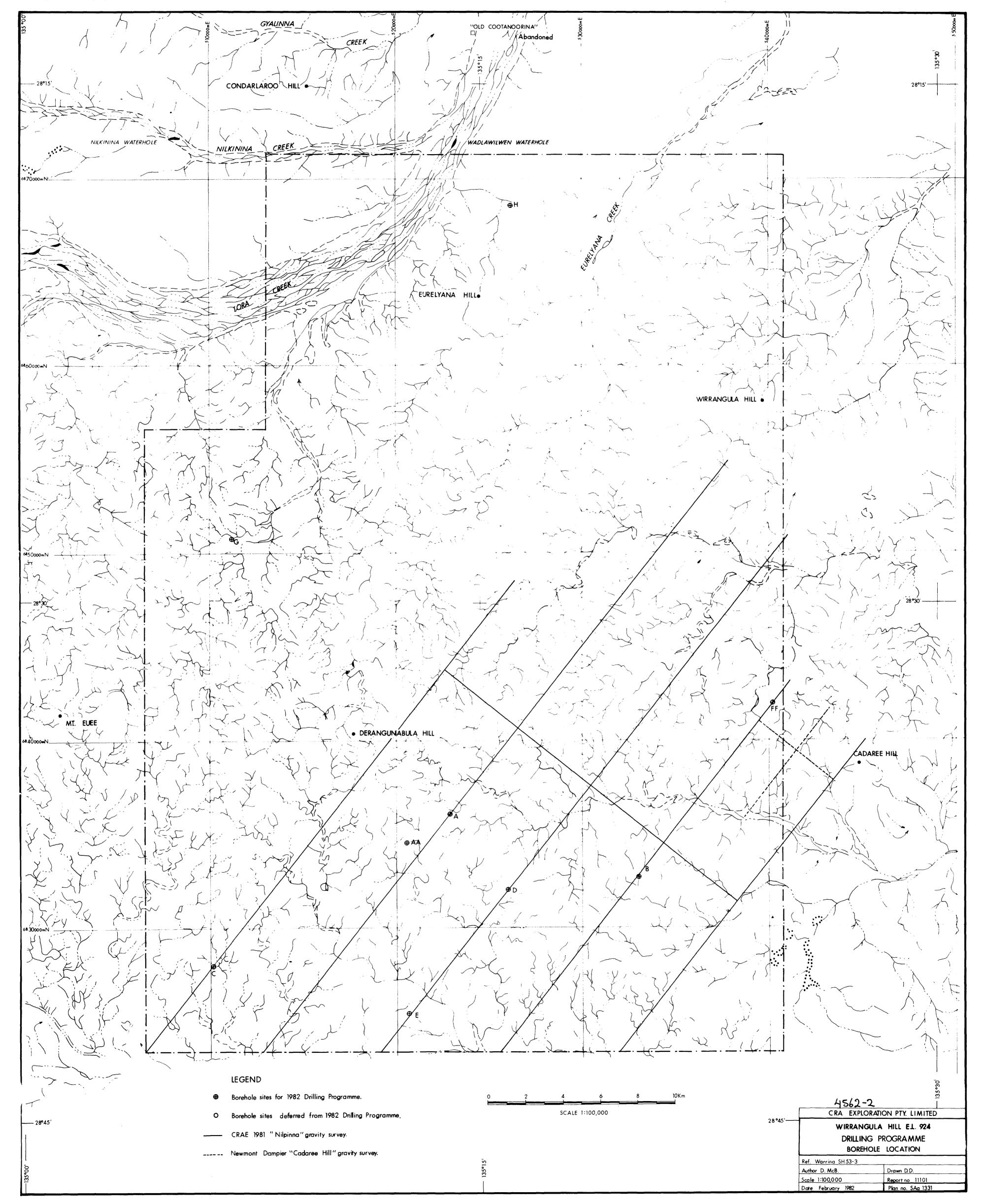
Warrina SH53-3 1:250 000

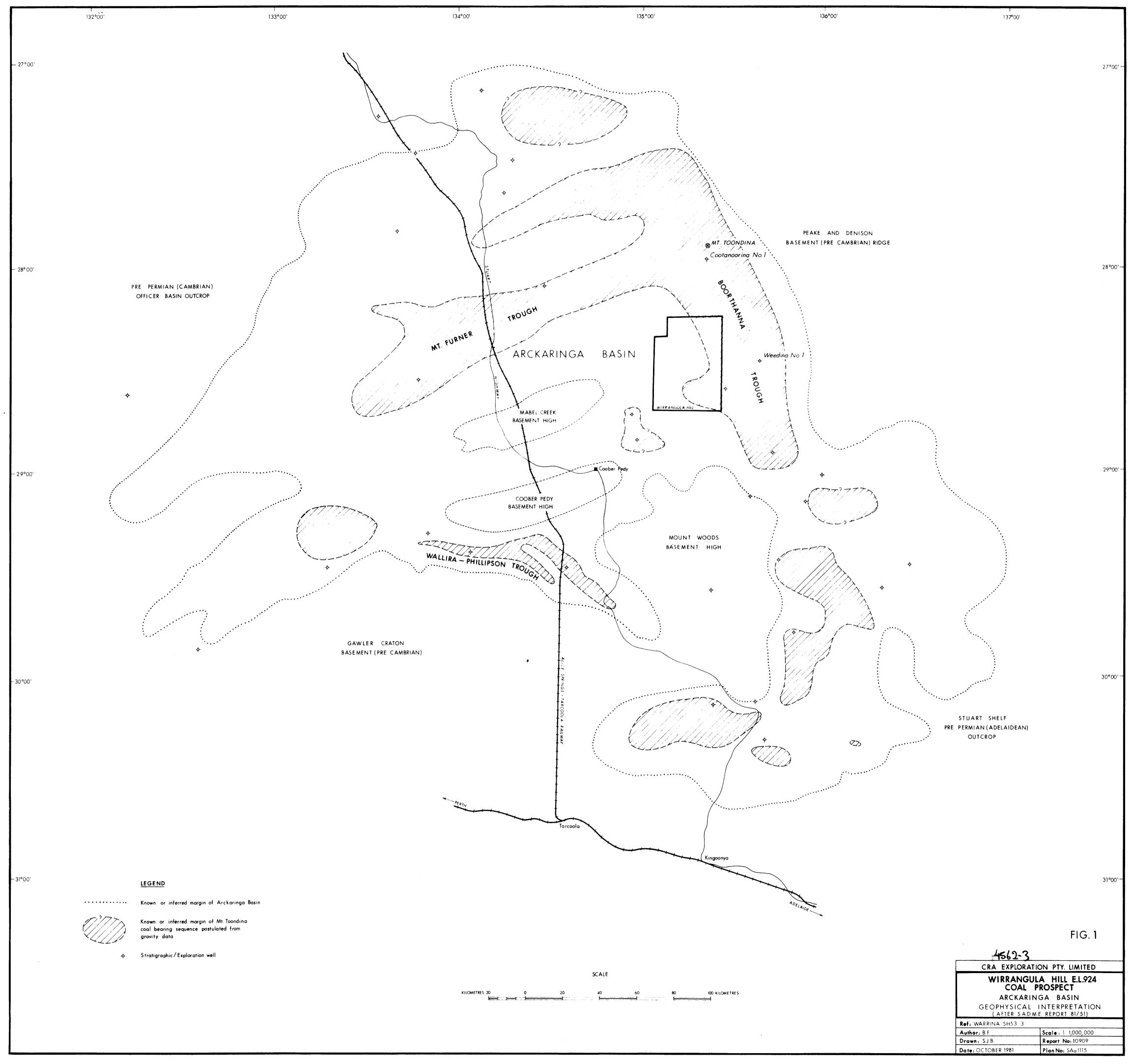
#### LIST OF PLANS

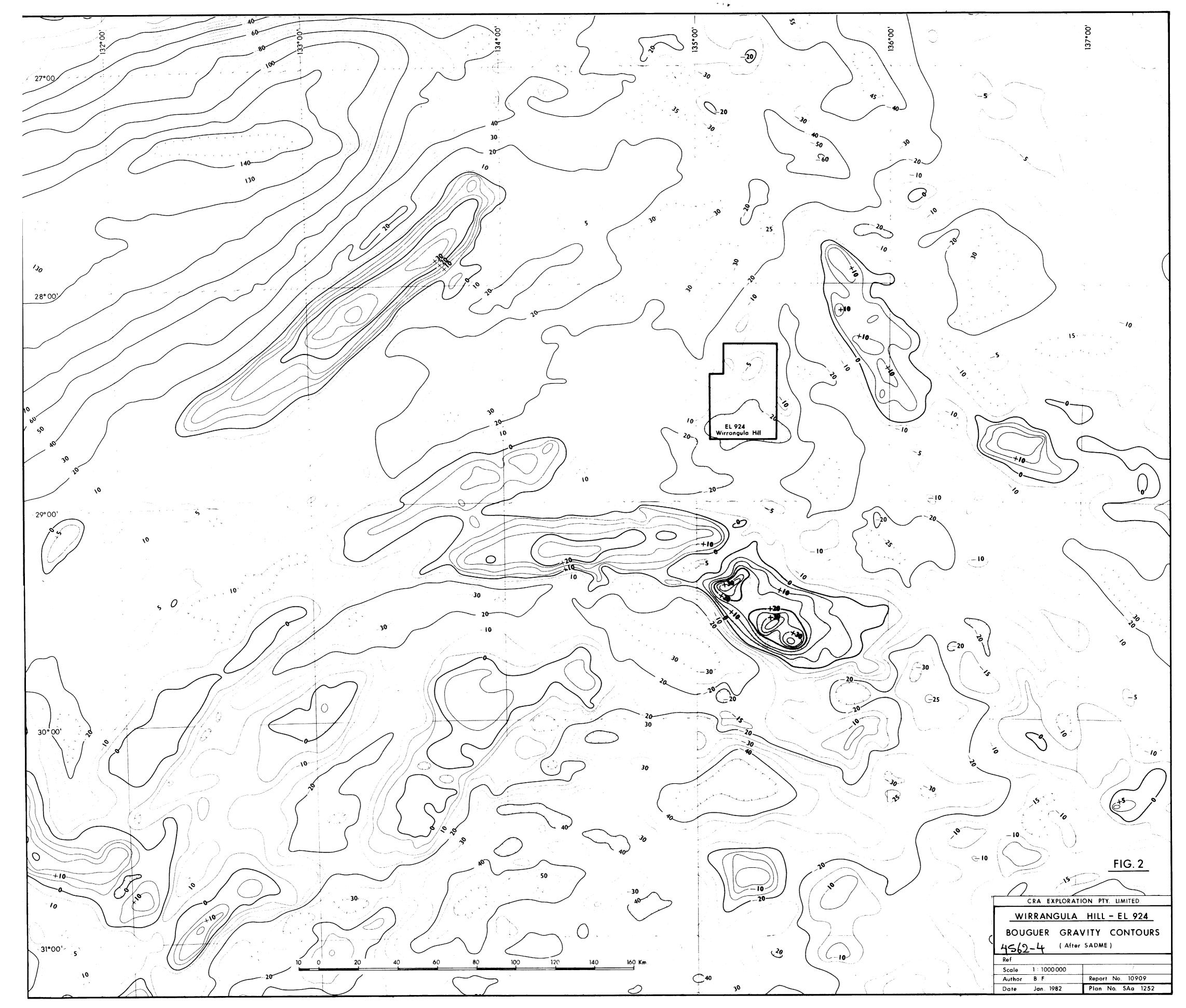
Plan No.	<u>Title</u>	Scale
SAa 756	E.L. 924 - Wirrangula Hill	1:250 000

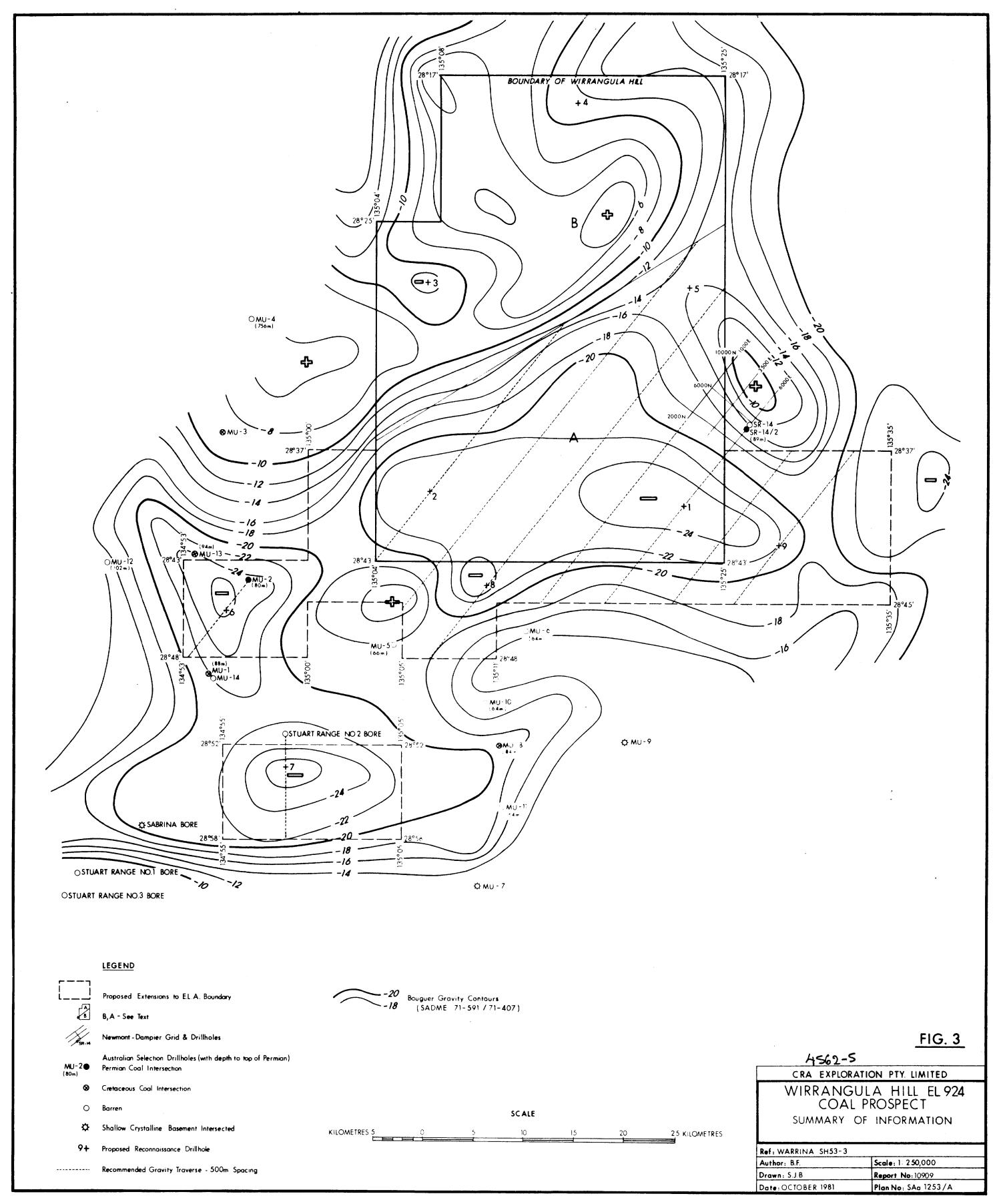


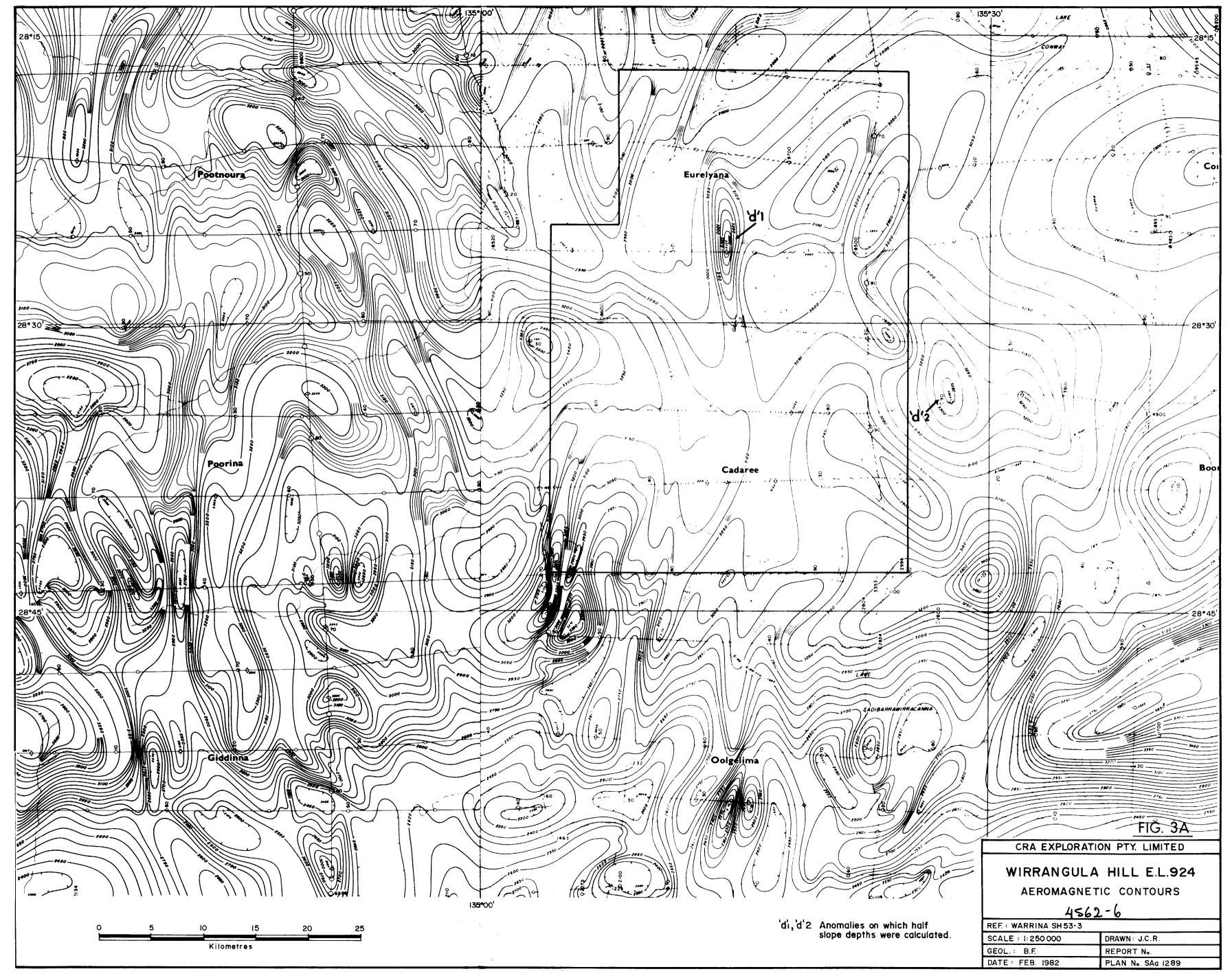


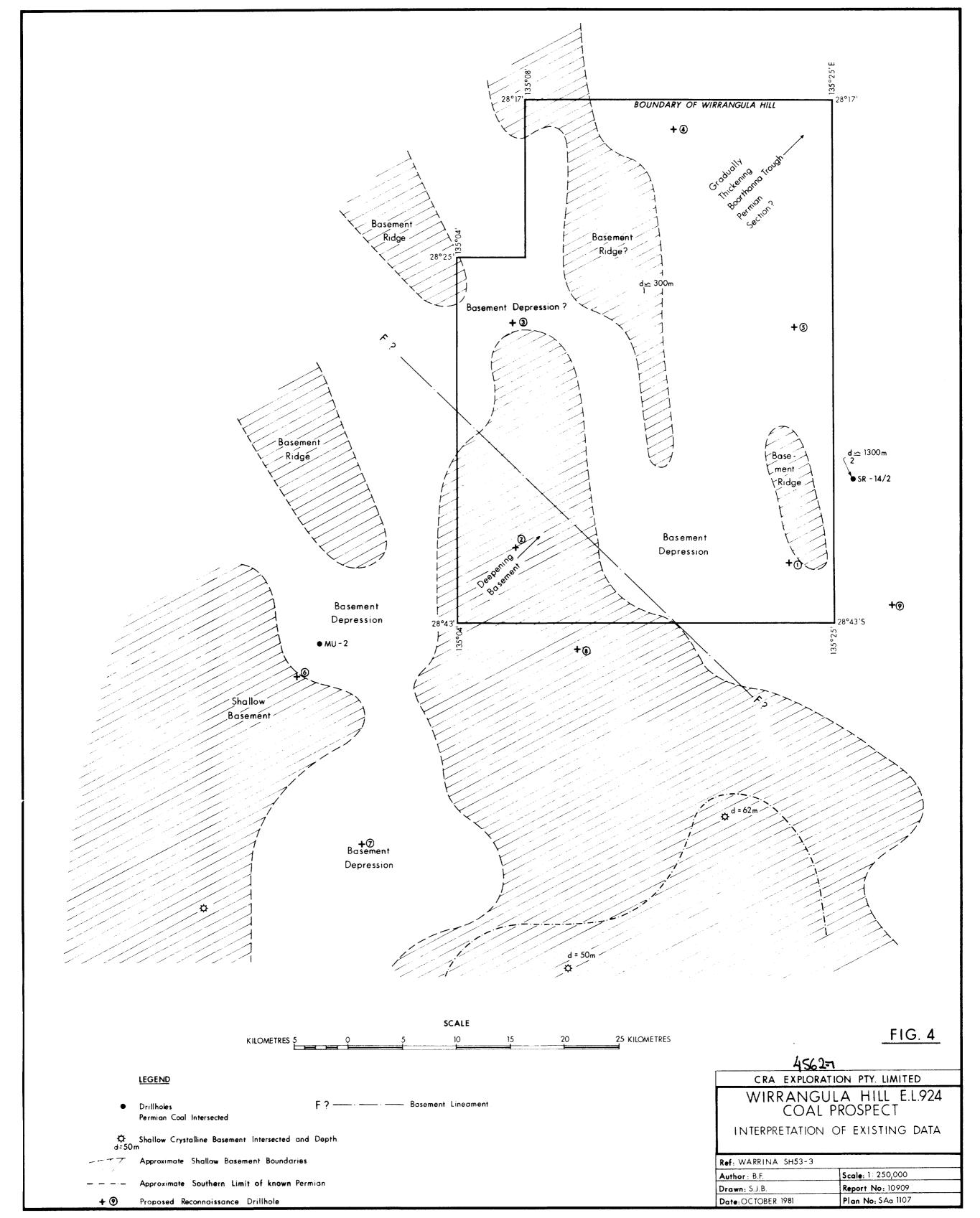


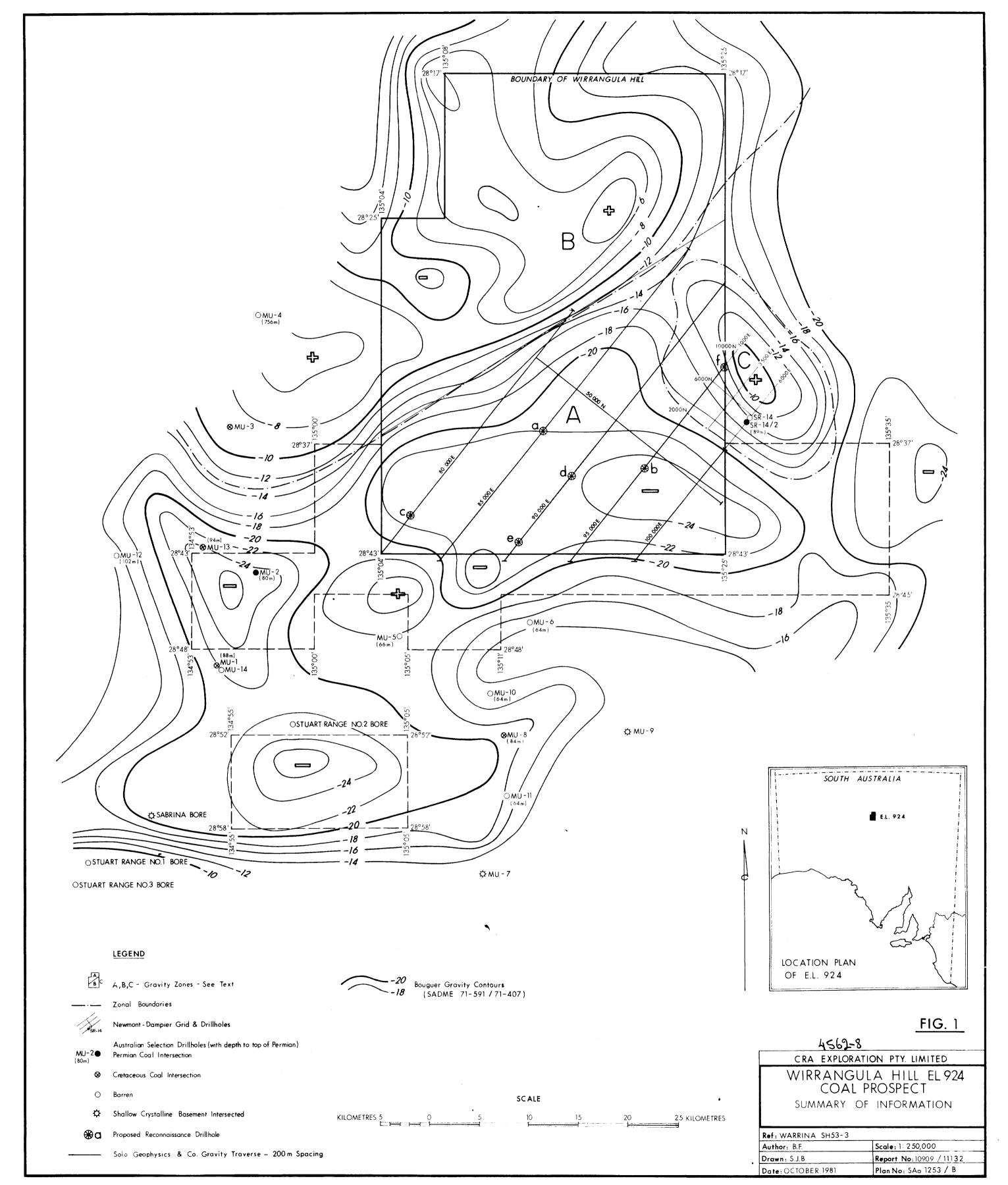


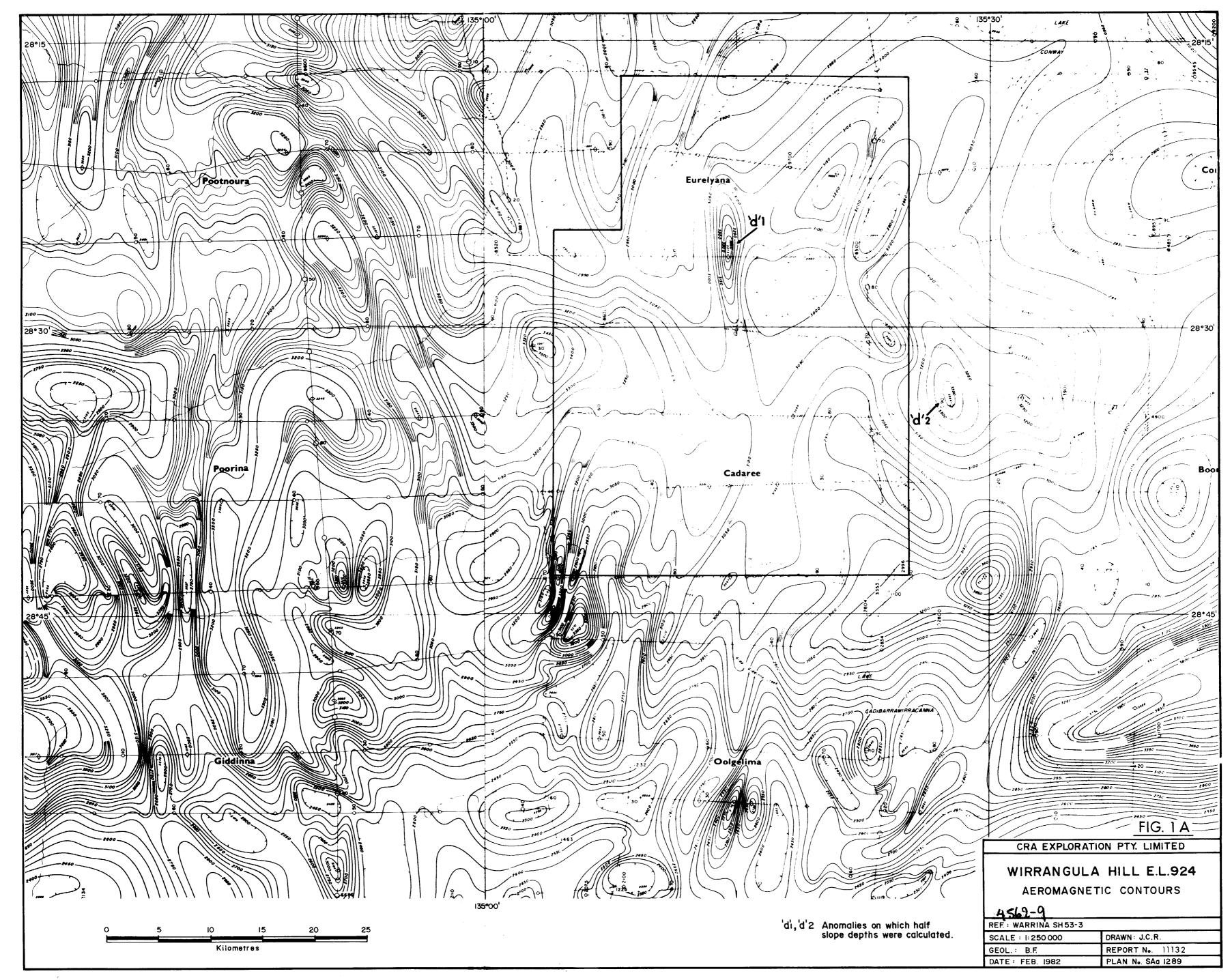


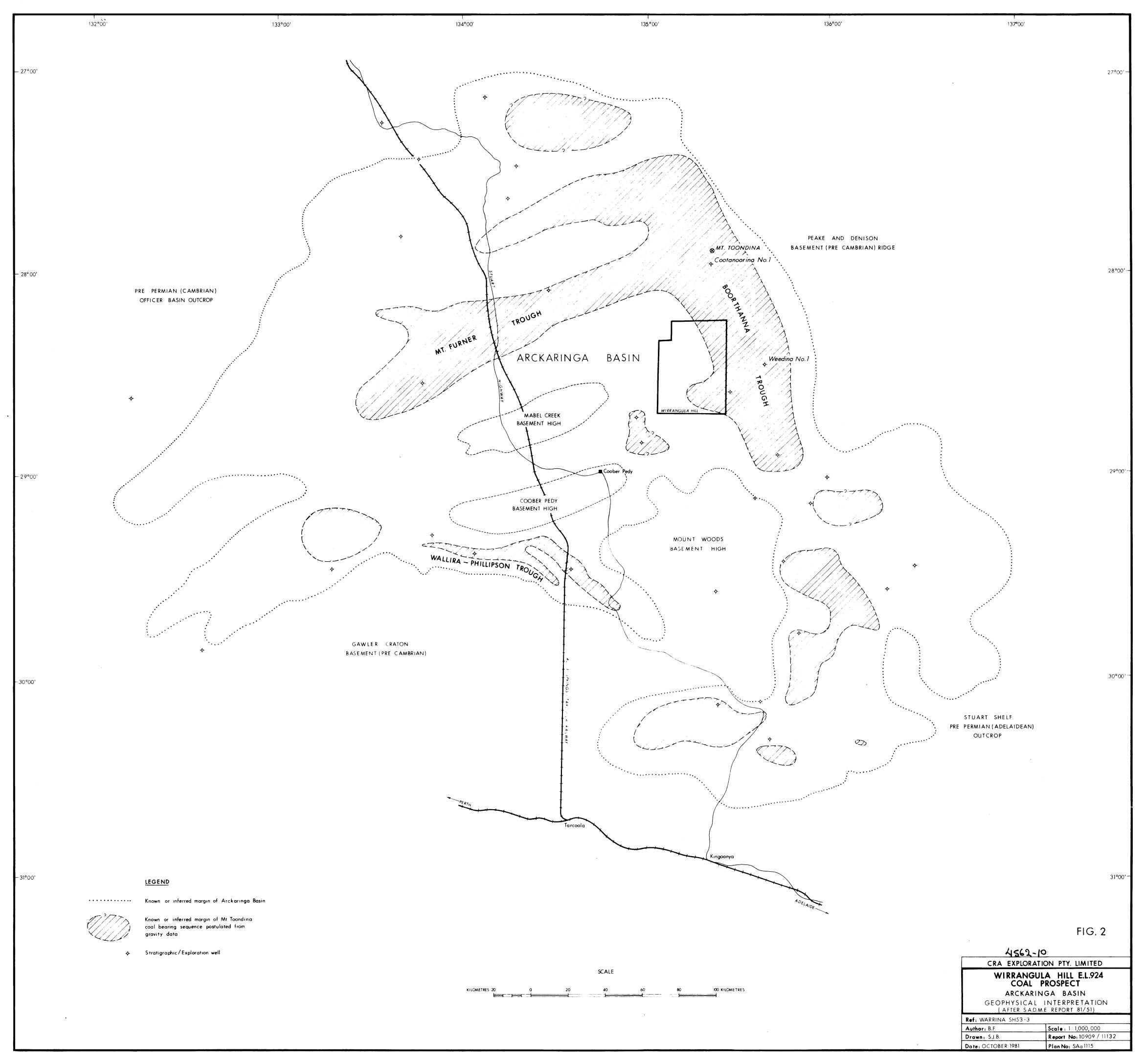












82500 E 85000 € 82500 E 90000 E 92500 E 95000 E. 97500 E 100000 E 102500 CADAREE MILL GRAVITY MICH C FDGE OF REGIONAL GRAVITY RIDGE B ❖ 0 25.7 28 9 0 82500 E 85000 E 102500 87500 E 90000 E 92500 E 95000 E 97500 E 100000 E Surveyed for : CRA EXPLORATION Pty Ltd PLOT SCALE 1: 100000 m GRID ROTATION : 39 deg. Location :NILPINNA grid Sth Australia TIME ZONE : 9.5 GMT PLOT DENSITY : 2.1 gms/cc SOLO GEOPHYSICS & CO NORTH LEGEND Observed Gravity at 2:1 gm/cm (arbitrary base level for whole survey) in milligals.

SCALE

Observed Gravity Contours
- 1 milligal contour

Bouguer Gravity Positive

Bouguer Gravity Negative

Suggested Drillhole Positions

SADME Barometric/Gravity Stations and Value

-- 5 milligal contour

( NILPINNA)

Ref: WARRINA 5H53-3

Author: B.F. Scale: 1:100,000

Drawn: S.J.B. Report No: 10909 / 11132

Date: FEBRUARY 1982 Plan No: SAa 1333

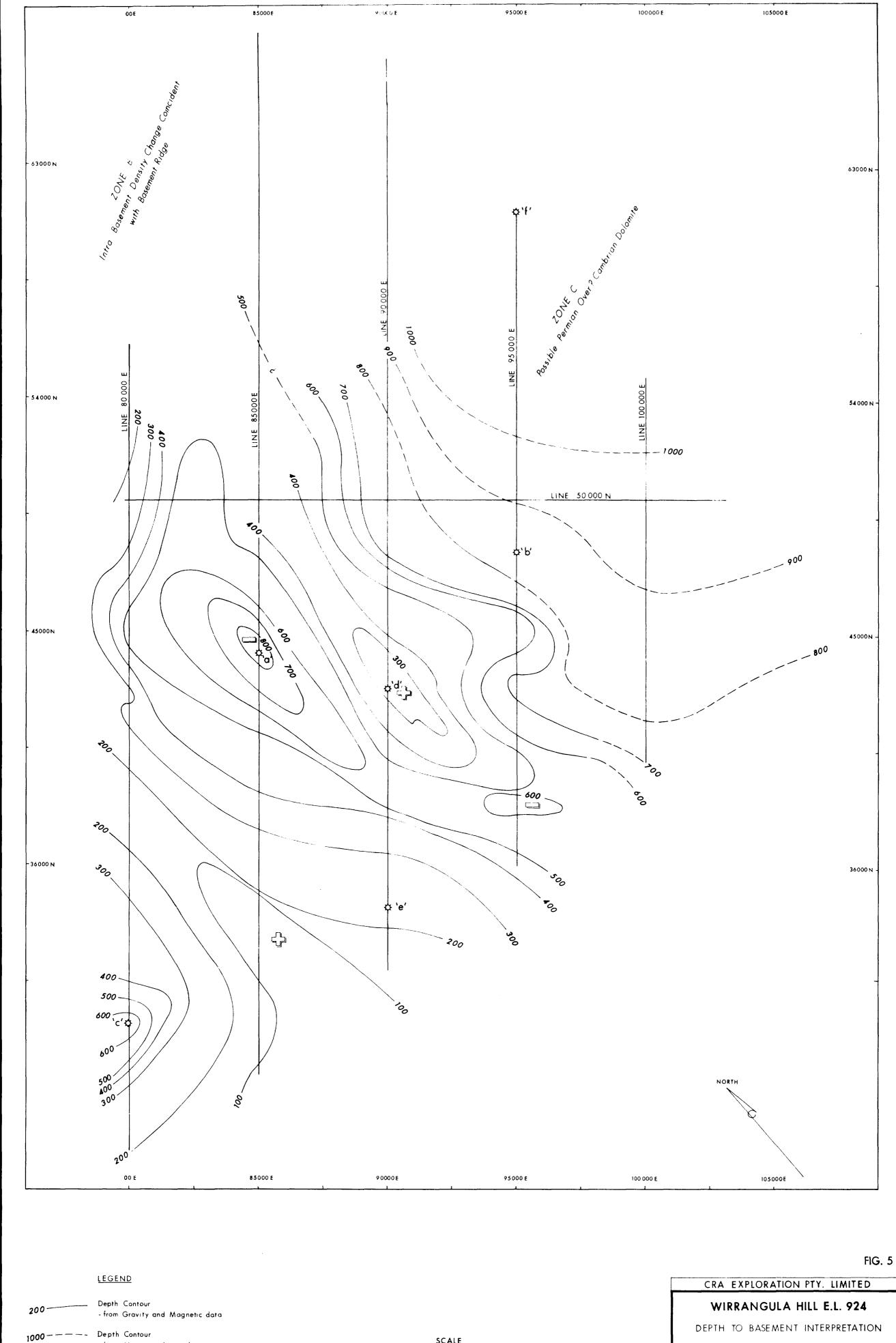
CRA EXPLORATION PTY. LIMITED

WIRRANGULA HILL E.L.924

GRAVITY SURVEY

FIG. 3





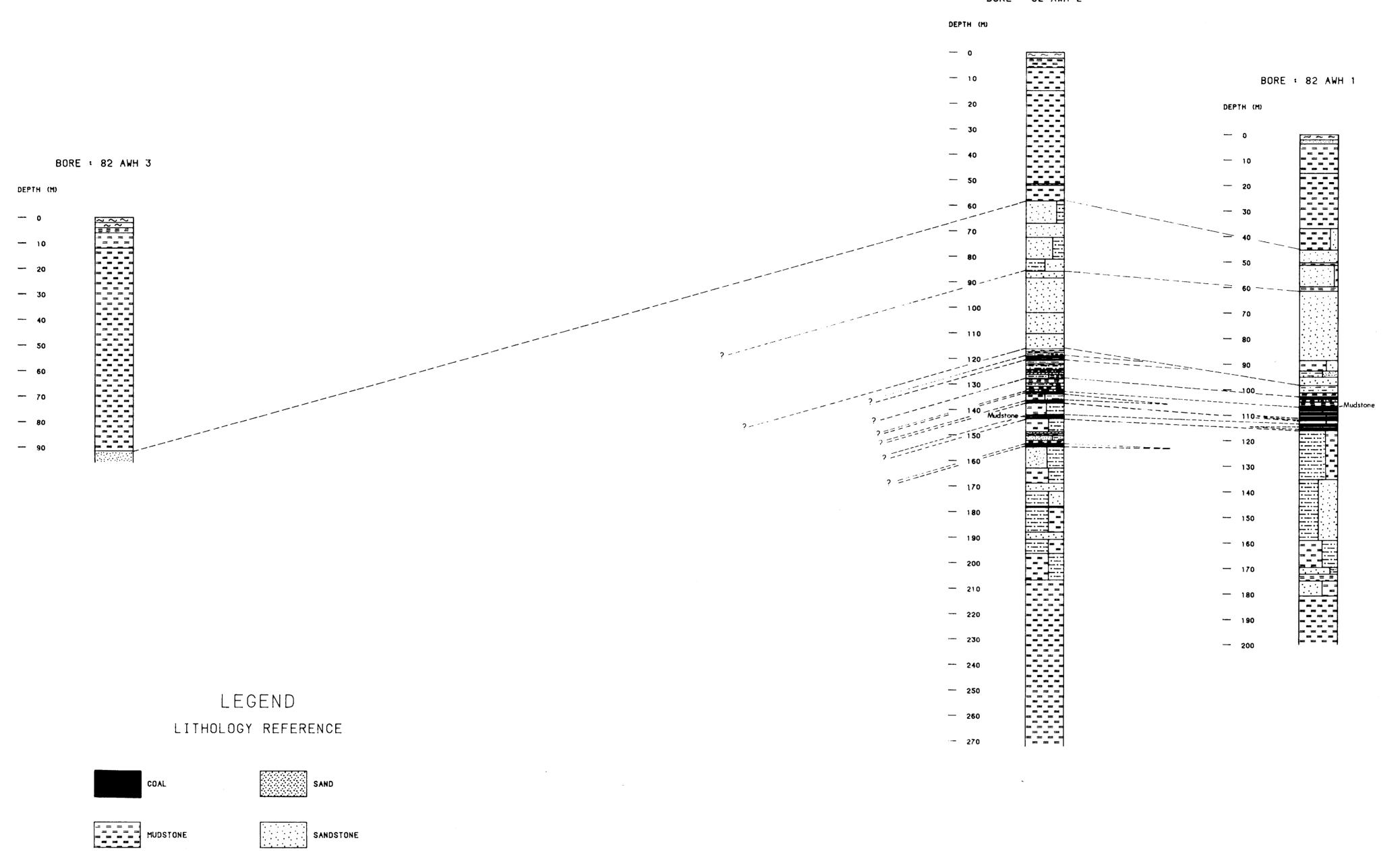
SCALE

- from Magnetic data only

'C' Suggested Drillhole Sites

DEPTH TO BASEMENT INTERPRETATION 4562713 Ref: WARRINA SH53-3 Scale: 1:100,000 Author: B.F Report No: 10909/11132 Drawn: 5.J.B. Date: FEBRUARY 1982 Plan No: SAa 1338

BORE : 82 AWH 2



SCALE

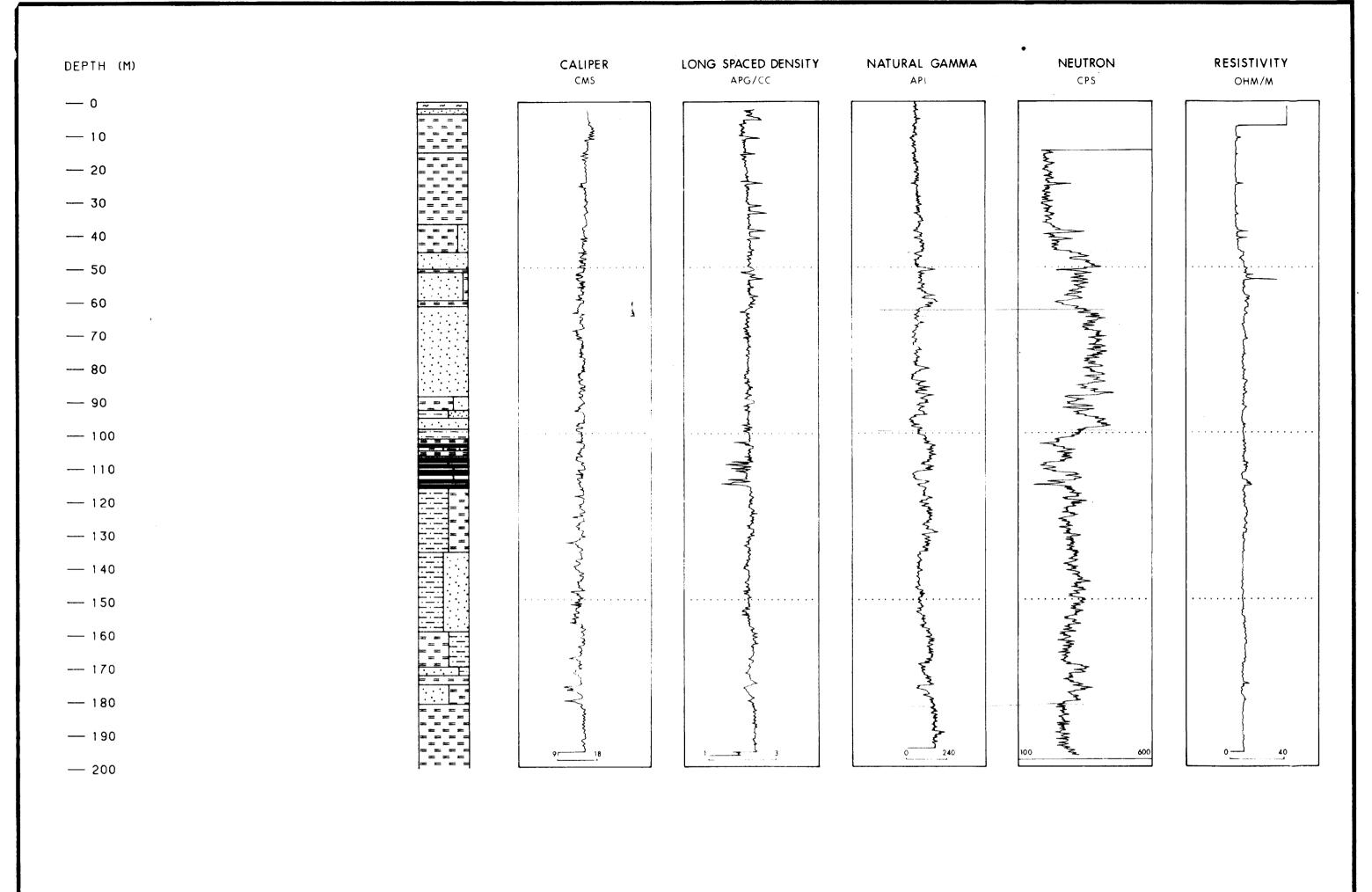
ILOMETRES 0 2 4 6 8 10 KILOMETRES

CRA EXPLORATION PTY LTD

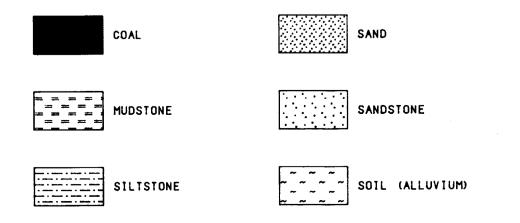
WIRRANGULA HILL
INTERPRETED GEOLOGICAL CROSS SECTION

82 AWH 3-2-1

REF ·	WARRINA	SH 53-3	
SCALE	1:100000		
AUTHOR D. McBAIN			REPORT No.: 11477
DATE: JULY 1982			PLAN No.: SAa 1666



## LEGEND LITHOLOGY REFERENCE



S C A L E

WIRRANGULA HILL E.L.924

COMPOSITE DRILL LOG

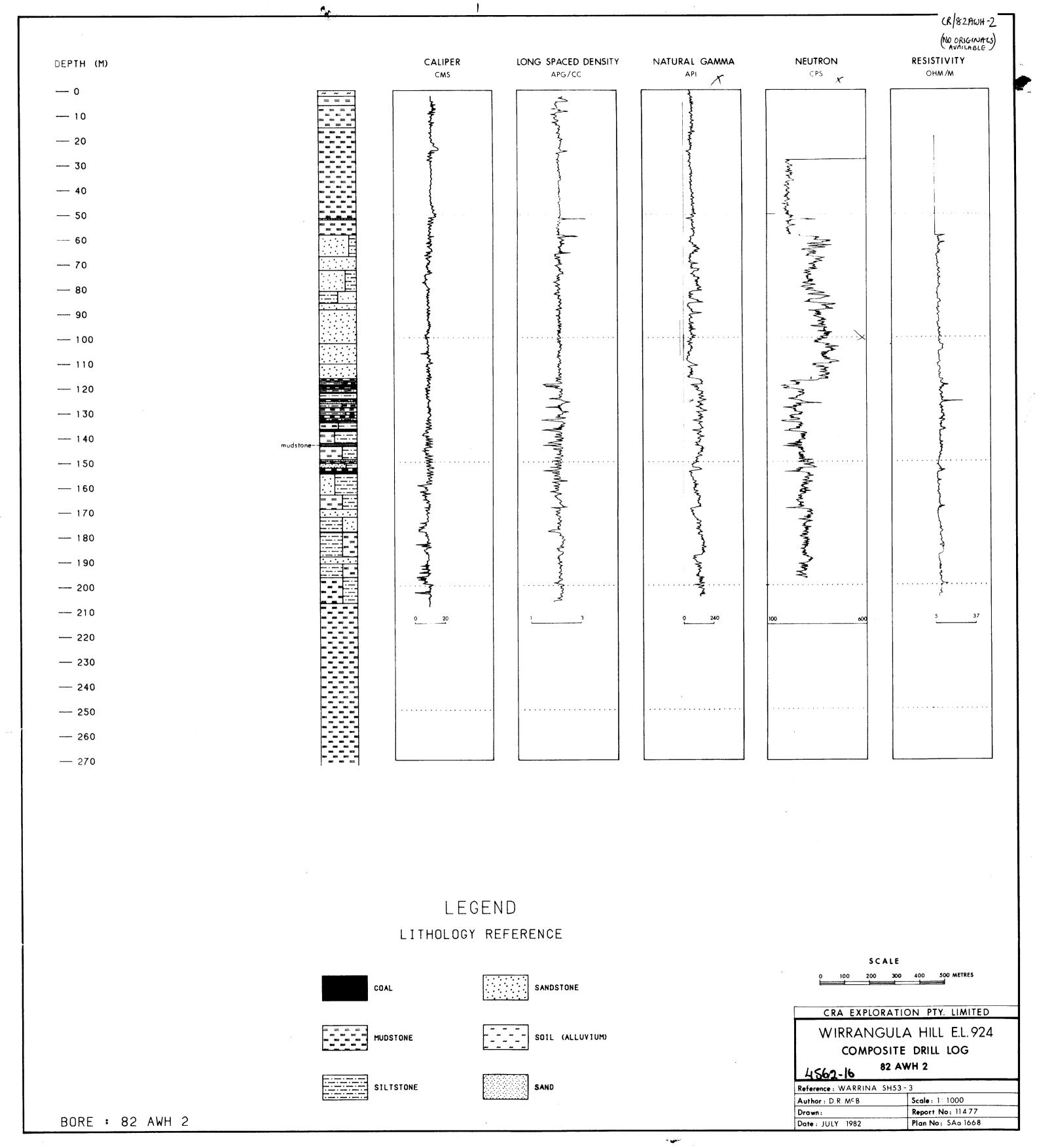
82 AWH 1

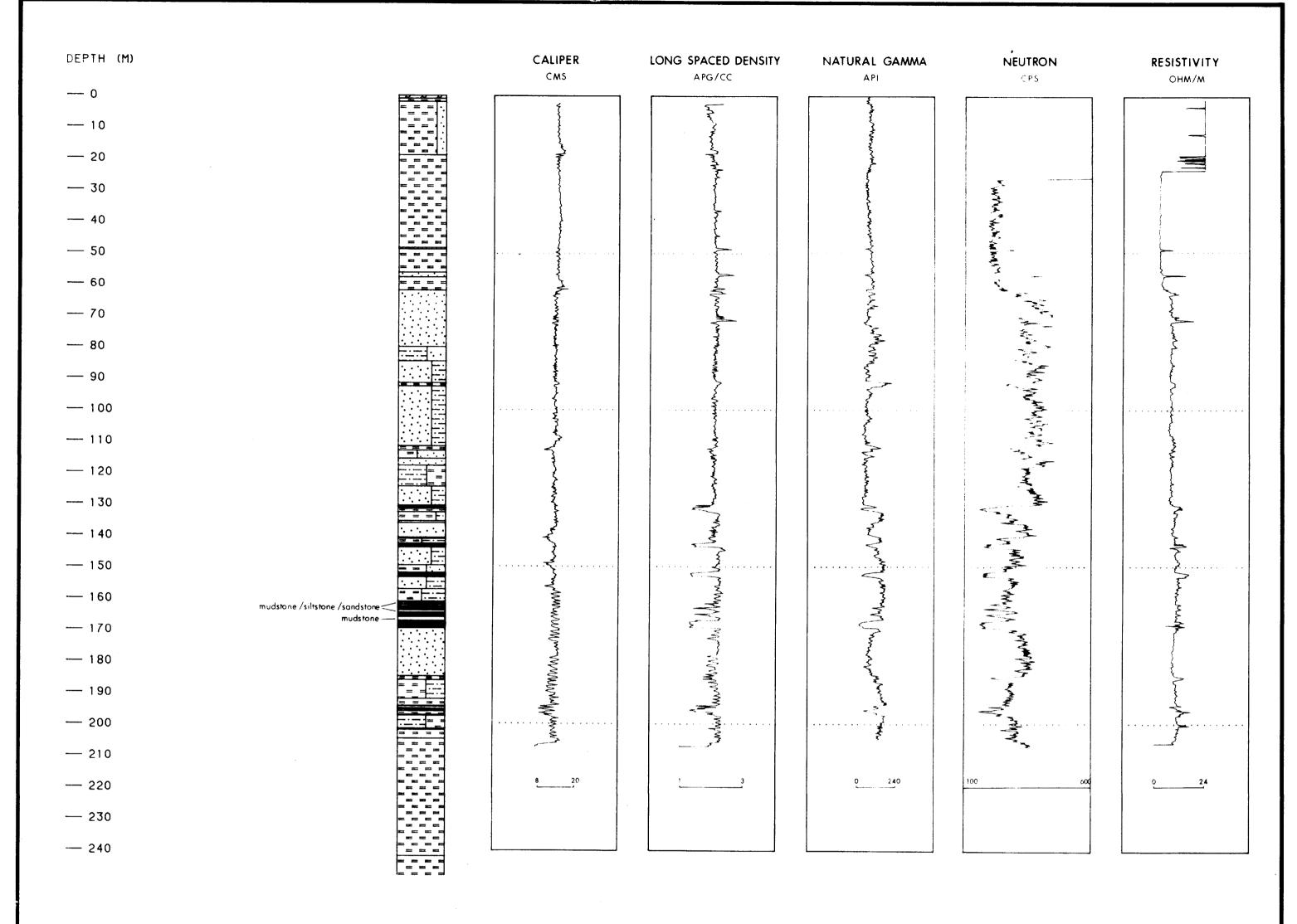
 Reference: WARRINA SH53-3

 Author: D.R.MCB.
 Scale: 1: 1000

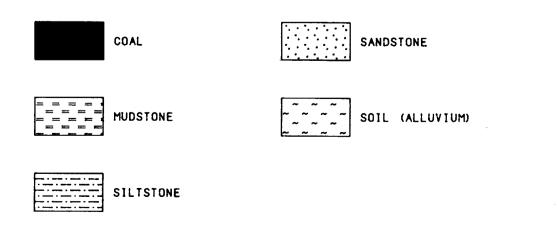
 Drawn:
 Report No: 11 4 77

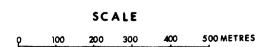
 Date: JULY 1982
 Plan No: SAa 1667





## LEGEND LITHOLOGY REFERENCE





WIRRANGULA HILL E.L.924
COMPOSITE DRILL LOG

4542-17 82 AWH 4

Reference: WARRINA SH53-3			
Author: D.R. McB.	Scale: 1:1000		
Ørdwn:	Report No: 11477		
Date: JULY 1982	Plan No: SAa 1669		

BORE : 82 AWH 4