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No. 6542

EL 1293

PIAROOKA

PROGRESS, PARTIAL SURRENDER AND FINAL REPORTS FOR THE PERIOD 30/7/85 TO 18/9/86

Submitted by
BHP Minerals Ltd
1986

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**PRIMARY INDUSTRIES
AND RESOURCES SA**

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TENEMENT HOLDER: BHP Minerals Ltd.

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EL 1292, 1293 and 1297

Data tapes (3) containing magnetic and radiometric data from the aerial geophysical survey conducted by Geoterrex in May, 1985 are held by Geophysics Section, SADME.

Transparencies of total magnetic intensity contours at 1:100 000 scale (EL 1292/plan A2-457, EL 1293/plan A1-882 and EL 1297/plan A3-285) together with flight path plans at 1:250 000 scale are held in transparency cylinder TC 6378/1.

All the above data will be unavailable until the termination of EL 1292, except by private negotiation with BHP Minerals Limited (08-429961).

exp. 22.2.88.

15 June, 1987

1.

#CNO=0001557 DOC-TYPE: Company rep

#DOE=20/08/86

TITLE

#TN=EL1293; Piarooka. Partial relinquishment report, April 1986. #Env=6542

COMPANY

BHP Minerals Ltd;

AUTHOR

Taylor, R J; Geoterrex Ltd; #DOP=1986

NOTES

2 fiche, 7 pages, 3 plans; 1 fig,

ABSTRACT

Exploration for Olympic Dam type mineralization west of Lake Eyre comprised an aeromagnetic survey and follow up optical gravity survey of magnetic anomalies and ground magnetic survey over Bullseye Anomaly. No significant gravity anomalies were encountered.

KEYWORDS

#SC=1345; #SC=1230; Base metal exploration; TMI maps; Bouguer gravity maps;

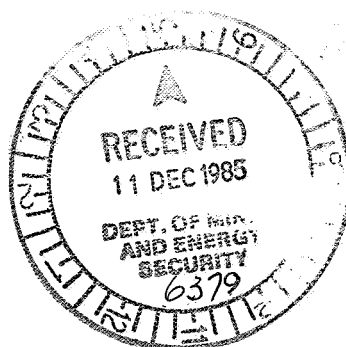
#TECT=(Adelaide Geosyncline);

LOCALITY

#AMAG=Piarooka; #250=SH5304 #MAP=(LAKE EYRE); #100=6241:2:3; #100=6240:1:4;

#250=SH5303 #MAP=WARRINA; #100=6141:2; #100=6140:1;

(CR 4819)

EXPLORATION LICENCE 1293PIAROOKA SOUTH AUSTRALIAQUARTERLY REPORT FOR THE PERIOD 29.7.85 to 28.10.85R.J. Taylor.
Adelaide.

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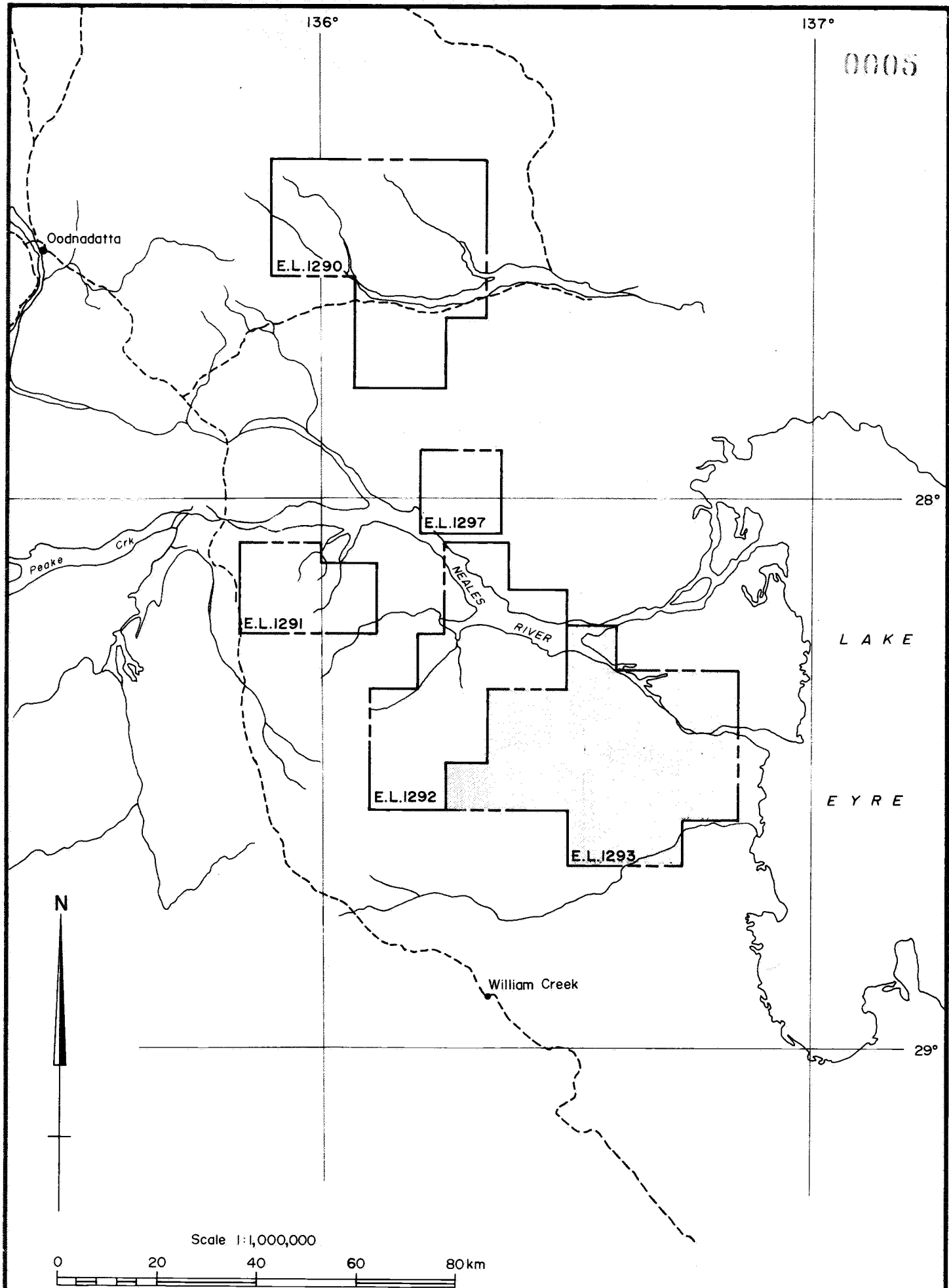


Fig. 1

Centre
ADELAIDE

THE BROKEN HILL PROPRIETARY CO. LTD.

Project No
6-K55-5

Date
26 - 9 - 85

E.L.'S 1290, 1291, 1292, 1293, 1297 WEST LAKE EYRE, S.A.

LOCATION MAP

Drawing No
A4-437A

136° 15'

136° 30'

136° 45'

28° 15'

28° 30'

LOCATION MAP

N

SCALE 1 : 100,000

0 2 4 6 8 10km

6542-1

Fig. 2

THE BROKEN HILL PROPRIETARY CO. LTD.
EXPLORATION DEPARTMENT

EL.1293 PIAROOKA, SA.

TOTAL MAGNETIC INTENSITY CONTOURS

Drawn:	Date: 6-12-85	Centre: ADELAIDE
Traced:	Project No:	Drawing No:
Checked:	6-KSI-1	A1-882

DETAILS OF SURVEY

FLOWN BY : GEOTERREX
DATE : MAY 1985
1:250,000 SHEET : SG53-15 SH53-3 SH53-4
TENEMENT : -
PROJECTION IS TRANSVERSE MERCATOR. AMG ZONE : 53

LINE SPACING : 500m
SURVEY HEIGHT : 80m
MAGNETOMETER : CAESIUM VAPOUR

COMPTON SCATTERING RATIO ALPHA : 0.29
COMPTON SCATTERING RATIO BETA : 0.37
COMPTON SCATTERING RATIO GAMMA : 0.72

DETAILS OF PROCESSING

PROCESSED BY BHP EXPLORATION : CAMBERWELL
DIURNAL CORRECTION WAS DONE. BASE 56558 nT
100% REMOVED
5000 nT ADDED TO DATA
DATA WAS GRIDDED AND CONTOURED USING GRID PROGRAM GPCORL
TIE LINES WERE NOT CONTOURED
CONTOUR INTERVAL 20nT
GRIDGING PARAMETERS :
MESH SIZE : 80m X 80m
SCAN DISTANCE : 900m
CORRELATION USED : MINIMUM ANOMALY AMPLITUDE 20nT
FILTER WAVE LENGTH 1500m
CORRELATION DISTANCE 1000m
PIECEWISE SPLINE TECHNIQUE USED
SMOOTHING USED : POLYNOMIAL SMOOTHING
SMOOTHING RADIUS 120m

2-Aug-85
3-Aug-85
3-Aug-85
4-Aug-85

EXPLORATION LICENCE 1293PIAROOKA - SOUTH AUSTRALIAQUARTERLY REPORT FOR THE PERIOD 29.7.85 to 28.10.851. GENERAL STATEMENT.

Exploration Licence 1293 was taken up to test the potential for basement mineralization in the area. It forms part of a regional exploration programme including nearby E.L.'s 1290, 1291, 1292 and 1297. An aeromagnetic survey was flown over the Licence area as part of the regional approach. The data obtained has been processed and ground geophysical follow-up has commenced.

2. TITLE.

Exploration Licence 1293 of 1764 square kilometres was granted to BHP Minerals Ltd. on the 30th July 1985 for six months. Its location is shown in Figure 1.

3. FIELD INVESTIGATIONS.3.1 Aeromagnetic Survey.

An aeromagnetic survey was flown over all the licence area by Geoterrex Ltd. The details of the survey were as follows:-

Line spacing	500m
Survey height	80m
Tie line spacing	7500m
Magnetometer	Caesium Vapour
Flight Line direction	East-West
Minimum crystal size of spectrometer	16 litres

All the processing and plotting of data was carried out by BHP Minerals Ltd. The Total Magnetic Intensity Contours are shown in Figure 2 at a scale of 1:100,000.

2.

Interpretation of the aeromagnetic data together with all available gravity information and other aeromagnetic surveys has resulted in a programme of ground follow-up exploration. This is planned to define any co-incident magnetic and gravity anomalies within the licence area.

4. FUTURE PROGRAMME.

The programme of ground geophysics commenced at the end of October 1985 and will be reported in the next quarterly report.

5. EXPENDITURE.

The expenditure debited to E.L. 1293 for the first quarter to the 31st October 1985 is:-

	\$
Wages and Salaries	875
Aeromagnetic Survey	31,738
Tenement Fees	3,263
Geophysics	938
Drafting	-
Sundries	-
Overhead and Administration	1,840
	\$38,654

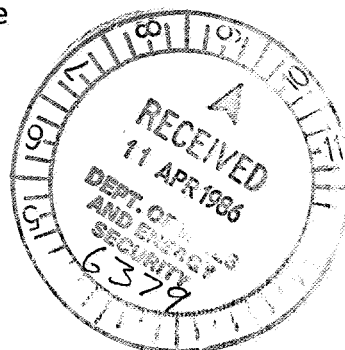
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(CR 4959)

EXPLORATION LICENCE 1293
PIAROOKA, SOUTH AUSTRALIA

REPORT FOR THE QUARTER ENDING
29th JANUARY, 1986

R.J. Taylor
Adelaide



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PIAROOKA, SOUTH AUSTRALIA

QUARTERLY REPORT FOR THE PERIOD 30.10.85 to 29.1.86

1. GENERAL STATEMENT

Exploration Licence 1293 was taken up to test the potential for basement mineralization in the area. It forms part of a regional exploration programme including nearby E.L.'s 1290, 1291, 1292 and 1297. An aeromagnetic survey was flown over the licence area as part of the regional approach. A programme of ground geophysics follow-up work has been completed and is currently being interpreted.

2. TITLE

Exploration Licence 1293 of 1764 square kilometres was granted to BHP Minerals Ltd. on the 30th July 1985 for six months. The licence was renewed on the 30th January 1986 for a further 12 months. Its location is shown in Figure 1.

3. FIELD INVESTIGATIONS

3.1 Aeromagnetic Survey

The exploration target of this exploration programme is to define co-incident magnetic and gravity anomalies which may have potential for Olympic Dam style mineralization. B.H.P. first explored the area in 1977-79 (E.L.369) for this style of target when a gravity grid, the Neales River Grid, was established in this licence area. (Figure 3) The 1985 aeromagnetic survey gave more accurate magnetic information of the underlying basements than was previously available. Interpretation of the magnetics resulted in defining several areas for ground followup of two kinds:-

- a) Detailed Gravity traverses
- b) Regional Gravity grids

The aim being to ascertain if there were any coincident gravity anomalies associated with the selected magnetic anomalies P1, P2 and P3, which are shown in Figure 2.

3.2 Ground Gravity Survey

Neales River Grid

Anomalies P1 and P2 are covered by the old Neales River Grid shown in Figure 3. Three east-west in-fill lines A, B and C produced close interval gravity to define P1. A north-south line, D, gave more gravity information for anomaly P2. The details of the work (is) as follows:-

Line A	1100N	0 to 4000E	400m stations
Line B	9000N	0 to 4800E	400m stations
Line C	7000N	0 to 4000E	400m stations
Line D	2000N - 2000S	4900E	400m stations

These stations were optically levelled and tied into the previous grid. The gravity data for Anomalies P1 and P2 are shown in Tables 1 and 2 respectively.

Bulls Eye Anomaly, P3

A ground traverse of 11km was carried out over the discrete magnetic anomaly P3. Magnetometer readings were taken every 10 metres using a Scintrex MP2. Gravity readings were recorded at 200 metre intervals for 2.5 km north and south of the main anomaly and at 400 metre intervals for a further 6 km to the south over a broader magnetic feature. This line was optically levelled. The results of these geophysical measurements are shown in Figure 4 and the data in Table 3.

Regional Gravity Measurements

Four areas A, B, C and D were defined as having some broad magnetic potential and in each area a series of gravity readings were taken at 2 km or 4 km spacings. These readings were

barometrically levelled. The gravity data is listed in Table 4.

All these gravity readings were tied to BM 1754 (68 B0 3654 594403E 6821500N) with barometers and using a helicopter. The helicopter was also used for the regional readings in areas A, B, C and D. All heights quoted are relative to A.H.D.

The regional data has been incorporated with the SADME gravity data and is contoured at 1:100,000 scale in Figure 3.

4. FUTURE PROGRAMME

The gravity data is currently being interpreted and the conclusions will be reported in the next quarterly report.

5. EXPENDITURE

The expenditure debited to E.L.1293 for the quarter to the 31st January, 1986 was:-

	\$
Wages and Salaries	6,004
Field Support	1,182
Vehicles	1,435
Equipment	186
Helicopter Charter	3,972
Tenement Fees	3,269
Office Expenses	169
Geophysics	1,157
Drafting	225
Overheads & Administration	880
	\$18,479

The total expenditure to date for E.L.1293 is \$57,133.

TABLE 1

GRAVITY DATA (E.L.1293)

0013

Anomaly P1Line A

<u>Easting</u>	<u>Northing</u>	<u>A.H.D.</u>	<u>Gravity</u>	<u>Bouguer (2.67)</u>	<u>Grid Location</u>
650630. 40	6861096. 00	18. 100	979206. 50	11. 64	00WL7000
651030. 40	6861096. 00	18. 940	979206. 90	12. 26	400WL7000
651430. 40	6861096. 00	18. 832	979208. 10	13. 43	800WL7000
651830. 40	6861096. 00	18. 776	979209. 10	14. 41	1200WL7000
652230. 40	6861096. 00	19. 218	979209. 70	15. 13	1600WL7000
652630. 40	6861096. 00	18. 848	979209. 90	15. 24	2000WL7000
653030. 40	6861096. 00	19. 666	979209. 40	14. 92	2400WL7000
653430. 40	6861096. 00	19. 735	979208. 50	13. 99	2800WL7000
653830. 40	6861096. 00	19. 699	979207. 70	13. 24	3200WL7000
654230. 40	6861096. 00	19. 781	979207. 20	12. 75	3600WL7000
654630. 40	6861096. 00	20. 617	979206. 50	12. 18	4000WL7000

Line B

655430. 40	6863096. 00	12. 503	979205. 50	10. 82	4800WL9000
655030. 40	6863096. 00	13. 970	979205. 60	11. 20	4400WL9000
654630. 40	6863096. 00	14. 059	979206. 40	12. 09	4000WL9000
654230. 40	6863096. 00	14. 230	979207. 30	13. 00	3600WL9000
653830. 40	6863096. 00	14. 916	979207. 90	13. 77	3200WL9000
653430. 40	6863096. 00	15. 189	979207. 60	13. 52	2800WL9000
653030. 40	6863096. 00	16. 011	979206. 90	12. 94	2400WL9000
652630. 40	6863096. 00	11. 369	979207. 40	12. 46	2000WL9000
652230. 40	6863096. 00	11. 701	979206. 90	12. 09	1600WL9000
651830. 40	6863096. 00	15. 410	979206. 10	12. 00	1200WL9000
651430. 40	6863096. 00	17. 722	979205. 70	12. 12	800WL9000
651030. 40	6863096. 00	17. 499	979205. 40	11. 82	400WL9000
650630. 40	6863096. 00	17. 670	979205. 00	11. 42	00WL9000

Line C

650630. 40	6865096. 00	17. 460	979204. 70	12. 50	00WL11000
651030. 40	6865096. 00	17. 388	979205. 40	13. 11	400WL11000
651430. 40	6865096. 00	15. 842	979205. 70	13. 09	800WL11000
651830. 40	6865096. 00	15. 198	979205. 40	12. 70	1200WL11000
652230. 40	6865096. 00	14. 972	979205. 10	12. 28	1600WL11000
652630. 40	6865096. 00	14. 070	979205. 20	12. 21	2000WL11000
653030. 40	6865096. 00	13. 092	979205. 50	12. 32	2400WL11000
653430. 40	6865096. 00	12. 546	979205. 60	12. 33	2800WL11000
653830. 40	6865096. 00	12. 526	979205. 20	11. 95	3200WL11000
654230. 40	6865096. 00	12. 148	979204. 90	11. 49	3600WL11000
654630. 40	6865096. 00	11. 209	979204. 50	10. 92	4000WL11000

TABLE 2

GRAVITY DATA (E.L.1293)Anomaly P2

<u>Easting</u>	<u>Northing</u>	<u>A.H.D.</u>	<u>Gravity</u>	<u>Bouguer (2.67)</u>	<u>Grid Location</u>
655530. 40	6854096. 00	38. 070	979205. 70	10. 29	4900WL00
655530. 40	6856096. 00	29. 114	979204. 40	8. 50	4900WL2000
655530. 40	6855696. 00	34. 651	979203. 50	8. 47	4900WL1600
655530. 40	6855296. 00	34. 850	979203. 90	8. 61	4900WL1200
655530. 40	6854896. 00	37. 200	979204. 10	9. 09	4900WL800
655530. 40	6854496. 00	39. 317	979204. 40	9. 58	4900WL400
655530. 40	6853696. 00	40. 278	979206. 00	10. 80	4900WL-400
655530. 40	6853296. 00	40. 356	979206. 10	10. 60	4900WL-800
655530. 40	6852096. 00	26. 063	979207. 60	8. 30	4900WL-2000
655530. 40	6852496. 00	27. 697	979207. 60	8. 92	4900WL-1600
655530. 40	6852896. 00	30. 513	979207. 70	9. 92	4900WL-1200

TABLE 3

GRAVITY DATA (E.L.1293)Bulls Eye Anomaly (P3)

<u>Easting</u>	<u>Northing</u>	<u>A.H.D.</u>	<u>Gravity</u>	<u>Bouguer (2.67)</u>	<u>Grid Location</u>
644950. 40	6854690. 00	32. 870	979200. 90	4. 84	10000UM10000
644950. 40	6852190. 00	32. 504	979200. 70	2. 86	10000UM7500
644950. 40	6852390. 00	32. 800	979200. 70	3. 00	10000UM7700
444950. 40	6852590. 00	32. 413	979200. 60	2. 99	10000UM7900
644950. 40	6852790. 00	32. 220	979200. 70	3. 15	10000UM8100
644950. 40	6852990. 00	32. 451	979200. 70	3. 40	10000UM8300
644950. 40	6853190. 00	32. 584	979200. 80	3. 63	10000UM8500
644950. 40	6853390. 00	32. 815	979200. 90	3. 94	10000UM8700
644950. 40	6853590. 00	32. 683	979201. 10	4. 17	10000UM8900
644950. 40	6853790. 00	33. 088	979201. 00	4. 33	10000UM9100
644950. 40	6853990. 00	32. 569	979201. 10	4. 48	10000UM9300
644950. 40	6854190. 00	32. 653	979201. 20	4. 70	10000UM9500
644950. 40	6854390. 00	32. 608	979201. 10	4. 77	10000UM9700
644950. 40	6854590. 00	32. 742	979100. 90	4. 74	10000UM9900
644950. 40	6854790. 00	32. 751	979200. 90	4. 88	10000UM10100
644950. 40	6854990. 00	32. 558	979200. 90	4. 92	10000UM10300
644950. 40	6855190. 00	32. 410	979200. 80	4. 96	10000UM10500
644950. 40	6855390. 00	32. 425	979200. 60	4. 91	10000UM10700
644950. 40	6855590. 00	32. 273	979200. 50	4. 89	10000UM10900
644950. 40	6855790. 00	32. 018	979200. 40	4. 85	10000UM11100
644950. 40	6855990. 00	30. 444	979200. 50	4. 78	10000UM11300
644950. 40	6856190. 00	32. 066	979200. 00	4. 76	10000UM11500
644950. 40	6856390. 00	32. 001	979199. 70	4. 63	10000UM11700
644950. 40	6856590. 00	32. 273	979199. 70	4. 76	10000UM11900
644950. 40	6856790. 00	31. 834	979199. 60	4. 68	10000UM12100
644950. 40	6856990. 00	31. 627	979199. 50	4. 71	10000UM12300
644950. 40	6857190. 00	31. 566	979199. 60	4. 90	10000UM12500
644950. 40	6847390. 00	47. 919	979202. 60	4. 73	10000UM1500
644950. 40	6846590. 00	48. 628	979202. 60	4. 27	10000UM1900
644950. 40	6846990. 00	47. 234	979203. 00	4. 69	10000UM2300
644950. 40	6847390. 00	49. 032	979202. 80	5. 16	10000UM2700
644950. 40	6847790. 00	49. 452	979202. 50	5. 21	10000UM3100
644950. 40	6848190. 00	48. 177	979202. 50	5. 21	10000UM3500
644950. 40	6848590. 00	48. 637	979202. 00	5. 08	10000UM3900
644950. 40	6848990. 00	47. 468	979202. 10	5. 17	10000UM4300
644950. 40	6849390. 00	44. 219	979202. 70	5. 44	10000UM4700
644950. 40	6849790. 00	43. 241	979202. 10	4. 82	10000UM5100
644950. 40	6850190. 00	42. 997	979201. 50	4. 48	10000UM5500
644950. 40	6850590. 00	40. 087	979201. 70	4. 32	10000UM5900
644950. 40	6850990. 00	42. 462	979200. 50	3. 91	10000UM6300
644950. 40	6851390. 00	36. 262	979201. 20	3. 62	10000UM6700
644950. 40	6851790. 00	33. 628	979201. 10	3. 20	10000UM7100

TABLE 4

GRAVITY DATA (E.L.1293)Regional Areas A, B, C and DArea A

<u>Easting</u>	<u>Northing</u>	<u>A.H.D.</u>	<u>Gravity</u>	<u>Bouguer (2.67)</u>	<u>Grid Location</u>
664768. 00	6855939. 00	15. 940	979211. 10	12. 28	4W 00001
666541. 90	6855959. 00	15. 750	979213. 60	14. 75	4W 00002
668321. 00	6856343. 00	3. 830	979213. 90	12. 79	4W 00003
670575. 10	6855679. 00	10. 660	979214. 20	14. 10	4W 00004
672740. 00	6855637. 00	10. 230	979214. 20	13. 92	4W 00005
674613. 10	6855731. 00	11. 060	979214. 70	14. 66	4W 00006
676581. 60	6855657. 00	7. 970	979214. 30	13. 58	4W 00007
678649. 40	6855659. 00	4. 440	979214. 40	12. 95	4W 00008
680483. 20	6859588. 00	6. 990	979194. 20	-4. 00	4W 00009
680362. 10	6857440. 00	5. 570	979206. 20	6. 22	4W 00010
680441. 20	6855566. 00	2. 680	979213. 10	11. 14	4W 00011
680521. 20	6853747. 00	1. 980	979215. 70	12. 43	4W 00012
680399. 60	6851565. 00	5. 430	979216. 40	12. 30	4W 00013

Area B

676541. 50	6843843. 00	13. 720	979221. 50	13. 90	1W 00001
678509. 10	6843835. 00	8. 840	979224. 60	15. 92	1W 00002
680447. 70	6841943. 00	8. 230	979226. 40	16. 37	1W 00003
678470. 80	6840034. 00	8. 140	979226. 60	15. 17	1W 00004
678257. 40	6838230. 00	7. 350	979226. 00	13. 20	1W 00005
676409. 30	6838314. 00	8. 410	979226. 00	13. 48	1W 00006
676572. 50	6842002. 00	13. 900	979224. 20	15. 43	1W 00007
674429. 20	6842023. 00	17. 260	979222. 00	14. 47	1W 00008

Area C

663091. 90	6841078. 00	36. 790	979217. 30	12. 73	2W 00001
661049. 30	6841272. 00	46. 670	979218. 10	15. 72	2W 00002
661228. 70	6839375. 00	55. 610	979216. 60	14. 88	2W 00003
659281. 40	6839368. 00	53. 930	979216. 60	14. 52	2W 00004
659218. 80	6841242. 00	43. 930	979217. 30	14. 36	2W 00005
657274. 10	6841446. 00	48. 950	979214. 40	12. 63	2W 00006
661223. 60	6843276. 00	37. 950	979214. 50	11. 67	2W 00007
659377. 90	6843589. 00	37. 490	979213. 00	10. 29	2W 00008

TABLE 4

Continued

Area D

<u>Easting</u>	<u>Northing</u>	<u>A.H.D.</u>	<u>Gravity</u>	<u>Bouguer (2.67)</u>	<u>Grid Location</u>
647099. 00	6829963. 00	77. 880	979223. 20	19. 80	3W 00001
651409. 20	6829875. 00	70. 430	979226. 90	21. 78	3W 00002
654745. 00	6830031. 00	59. 030	979230. 50	23. 09	3W 00003
657248. 00	6833677. 00	59. 360	979223. 60	18. 72	3W 00004
653053. 80	6833777. 00	64. 590	979220. 70	17. 02	3W 00005
651303. 90	6833822. 00	66. 900	979218. 60	15. 48	3W 00006
649260. 10	6833837. 00	63. 550	979220. 00	16. 16	3W 00007
647118. 80	6833864. 00	64. 150	979219. 30	15. 62	3W 00008
647282. 60	6838339. 00	65. 800	979210. 30	10. 03	3W 00009
651494. 00	6837931. 00	70. 870	979207. 40	7. 89	3W 00010
655220. 80	6837893. 00	55. 810	979211. 40	8. 66	3W 00011

136° 15'

136° 30'

136° 45'

28° 15'

28° 30'

EL 1293

P1

P3

P2

Area A

Area C

Area B

Area D

DETAILS OF SURVEY

FLOWN BY : GEOTERREX
DATE : MAY 1985
1:250,000 SHEET : SG53-15 SH53-3 SH53-4
TENEMENT : -
PROJECTION IS TRANSVERSE MERCATOR. AMG ZONE : 53

LINE SPACING : 500m
SURVEY HEIGHT : 80m
MAGNETOMETER : CAESIUM VAPOUR

COMPTON SCATTERING RATIO ALPHA : 0.29
COMPTON SCATTERING RATIO BETA : 0.37
COMPTON SCATTERING RATIO GAMMA : 0.72

DETAILS OF PROCESSING

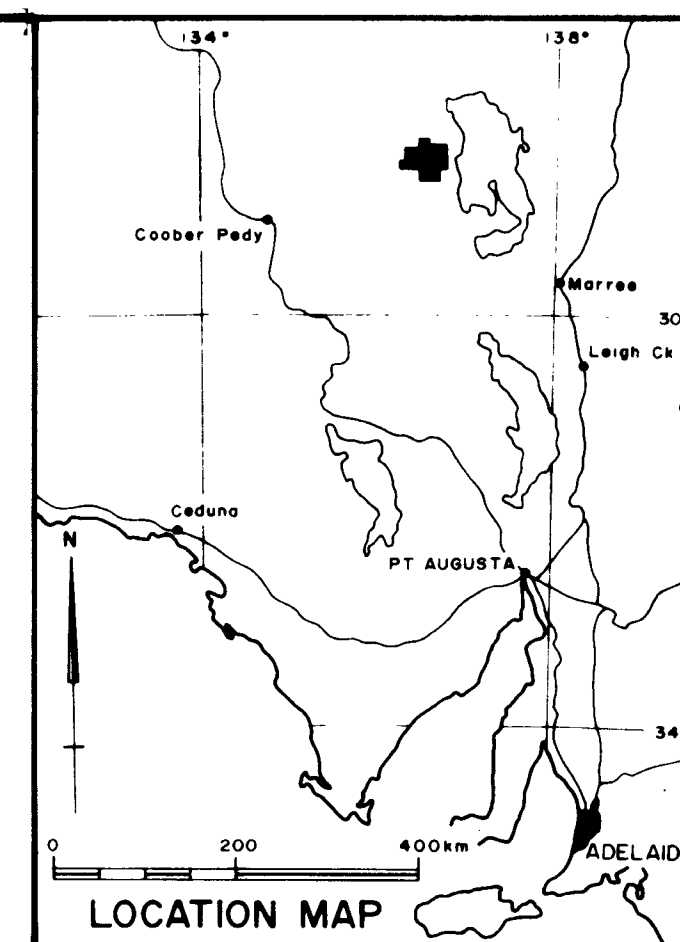
PROCESSED BY BHP EXPLORATION : CAMBERWELL
DIURNAL CORRECTION WAS DONE. BASE 56558 nT
IGRF REMOVED
5000 nT ADDED TO DATA
DATA WAS GRIDDED AND CONTOURED USING GRID PROGRAM GPCORL
TIE LINES WERE NOT CONTOURED
CONTOUR INTERVAL 20nT
GRIDGING PARAMETERS :
MESH SIZE : 80m X 80m
SCAN DISTANCE : 900m
CORRELATION USED : MINIMUM ANOMALY AMPLITUDE 20nT
FILTER WAVE LENGTH 1500m
CORRELATION DISTANCE 1000m
PIECEWISE SPLINE TECHNIQUE USED
SMOOTHING USED : POLYNOMIAL SMOOTHING
SMOOTHING RADIUS 120m

2-Aug-85

3-Aug-85

3-Aug-85

4-Aug-85



N

SCALE 1:100,000
0 2 4 6 8 10 km

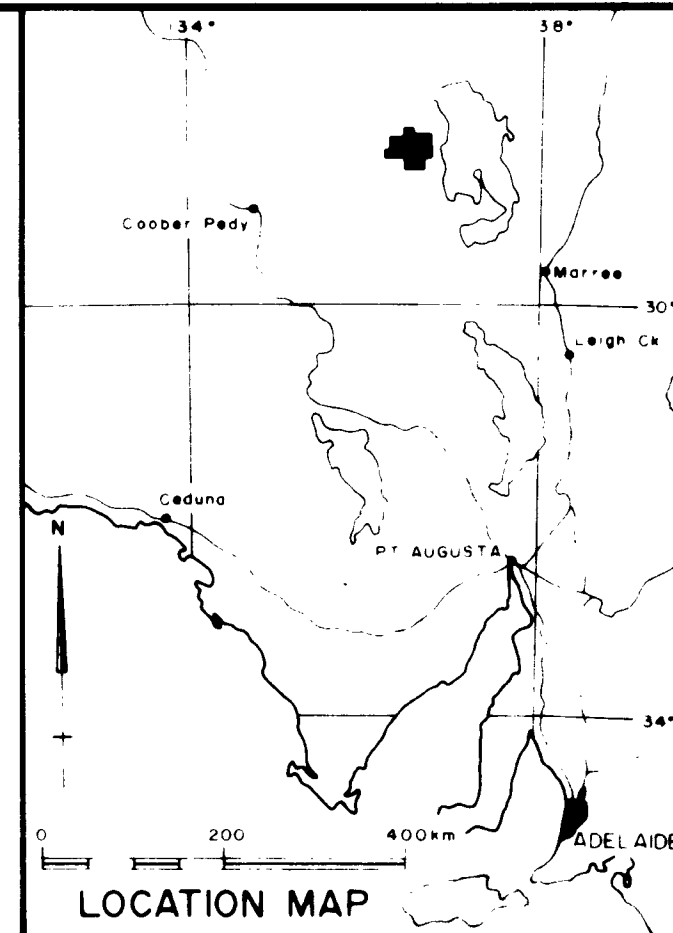
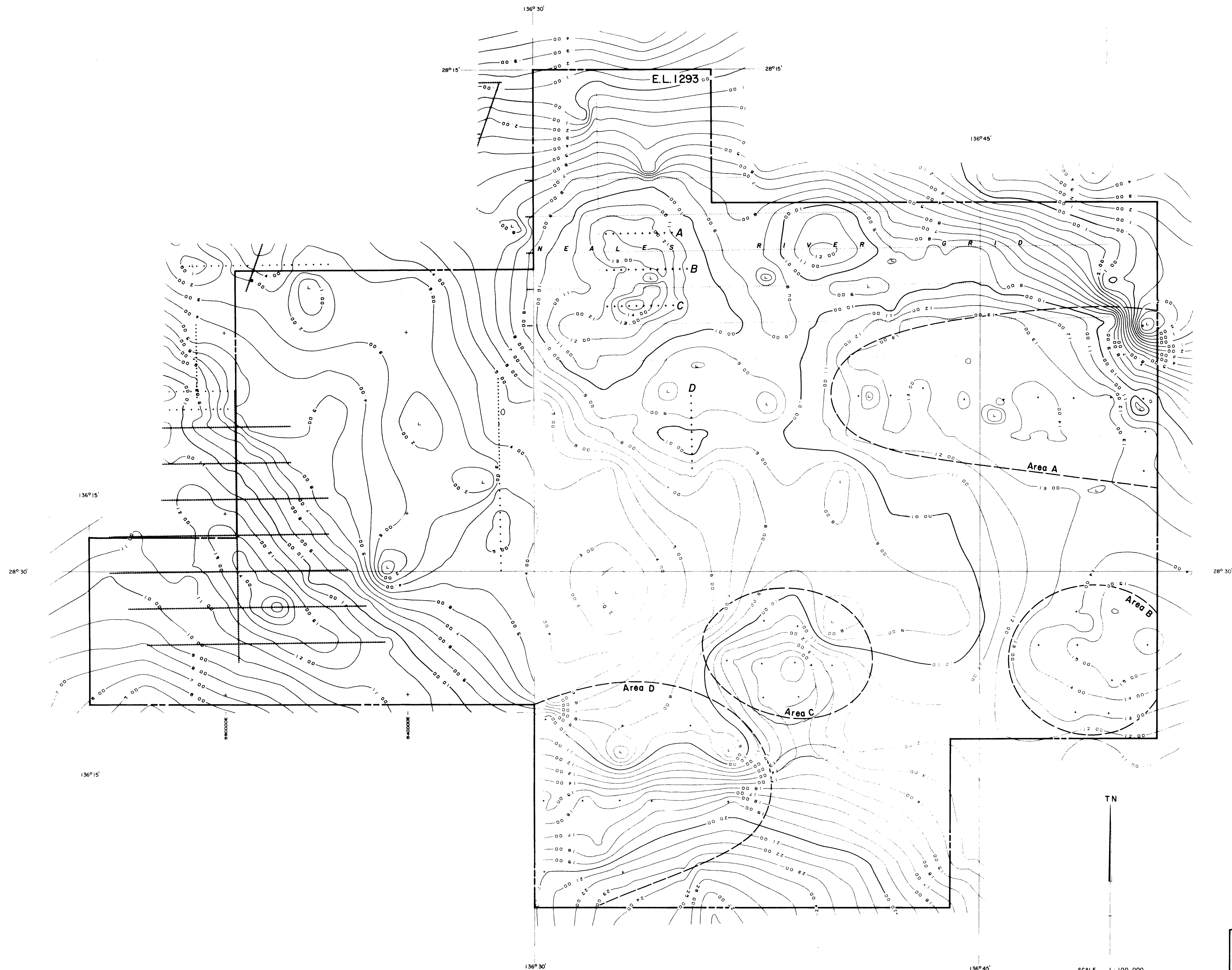
6542-2
Fig. 2

THE BROKEN HILL PROPRIETARY CO LTD
EXPLORATION DEPARTMENT

EL.1293 PIAROOKA, SA.

TOTAL MAGNETIC INTENSITY CONTOURS

Drawn	Date 6-12-85	Centre ADELAIDE
Traced	Project No	Drawing No
Checked	6-K61-1	A1-882A



DETAILS OF GRAVITY DATA

ORIGIN OF DATA : S.A.D.M.E. and B.H.P.(*)

DATE : OCTOBER / NOVEMBER 1985

1 : 250,000 SHEET : WARRINA and LAKE EYRE

A.M.G. ZONE : 53

BOUGUER DENSITY : 2.67 gm/cc

GRAVITY METER : SEVERAL

DETAILS OF PROCESSING

PROCESSED BY : B.H.P. EXPLORATION, CAMBERWELL

SCAN : 10,000 m

CONTOUR INTERVAL : 1 mgal

GRID : 400 m

6542-3

Fig. 3

THE BROKEN HILL PROPRIETARY CO LTD
EXPLORATION DEPARTMENT

E.L.1293 PIAROOKA, S.A.
BOUGUER GRAVITY CONTOURS

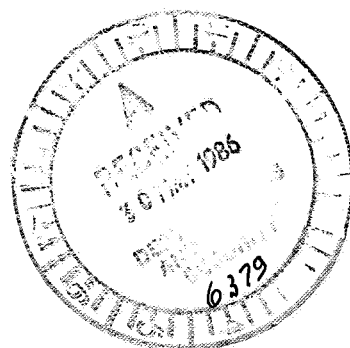
Prepared : R. Turner	Date : 25.3.86	Centre : ADELAIDE
Drawn : S. J. Jedrejczak	Project No :	Drawing No :
Checked :	6 - K61 - 2	A1-894 A

0019

CR5029

EXPLORATION LICENCE 1293
PIAROOKA, SOUTH AUSTRALIA
REPORT FOR THE QUARTER ENDED
28TH APRIL, 1986.

R.J. TAYLOR
ADELAIDE



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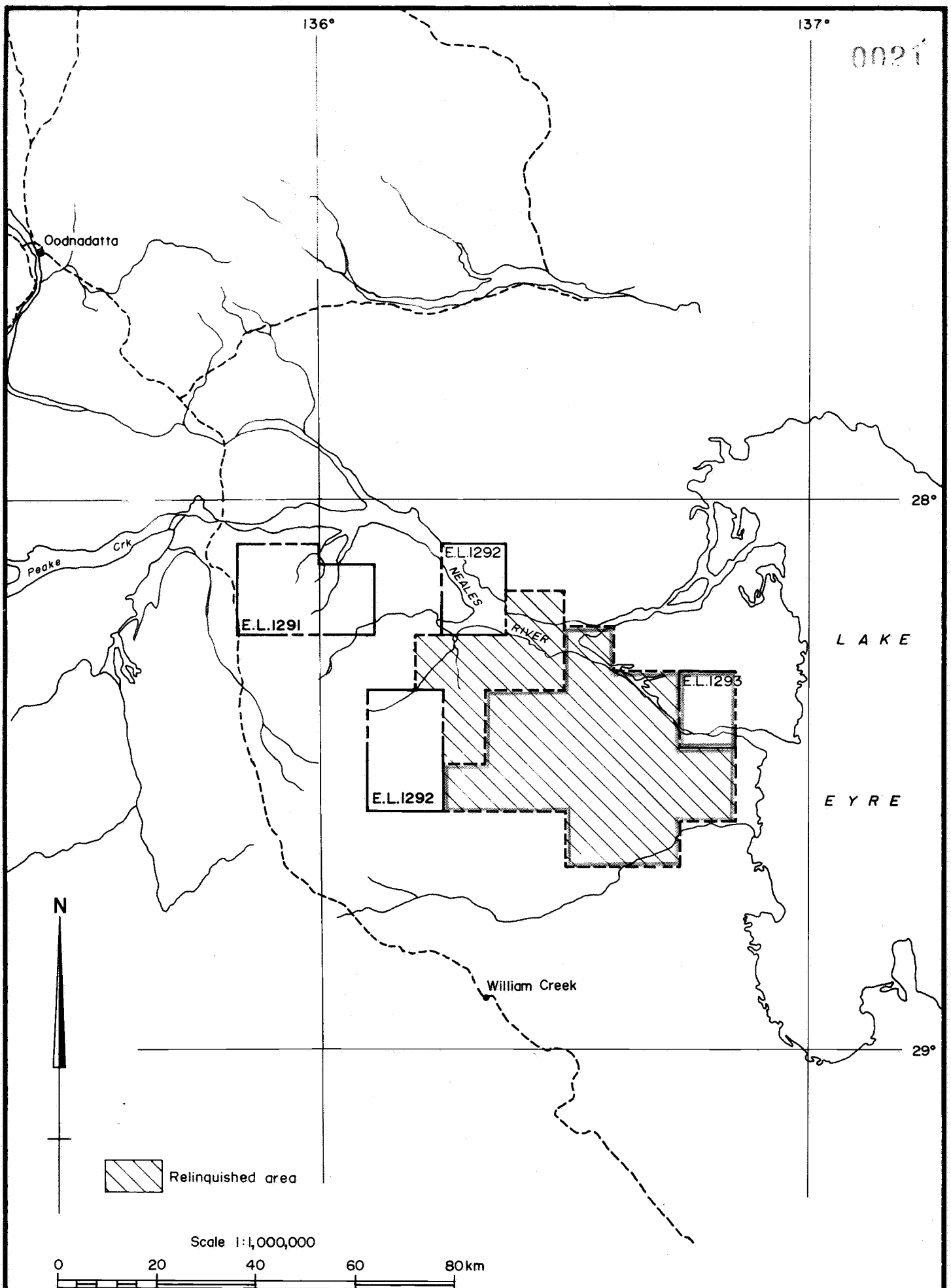


Fig. 1

Centre
ADELAIDE

Date
26 - 9 - 85

THE BROKEN HILL PROPRIETARY CO. LTD.
E.L.'S 1291, 1292, 1293 WEST LAKE EYRE, S.A.

LOCATION MAP

Project N^o
6-K55-5

Drawing N^o
A4-437_B

EXPLORATION LICENCE 1293PIAROOKA, SOUTH AUSTRALIAQUARTERLY REPORT FOR THE PERIOD 29.1.86 TO 28.4.861. GENERAL STATEMENT

Exploration Licence 1293 was taken up to test the potential for basement mineralization in the area. It forms part of a regional exploration programme including nearby ELs 1291 and 1292. An aeromagnetic survey was flown over the licence area as part of the regional approach. A programme of ground geophysics follow-up work has been completed and has been interpreted. No coincident gravity/magnetic anomalies have been found. Most of the licence area was relinquished in April, 1986.

2. TITLE

Exploration Licence 1293 of 1764 square kilometres was granted to BHP Minerals Limited on 30th July, 1985 for six months. The licence was renewed on 30th January, 1986 for a further 12 months. Most of the licence was relinquished in April, 1986 with a small area being retained as shown in Figure 1.

3. FIELD INVESTIGATIONS

No field work has been undertaken during this quarter. However, the interpretation of the geophysical data reported in the previous report has been completed.

The exploration target was a coincident gravity and magnetic anomaly of the Olympic Dam type but the detailed gravity data failed to produce any significant gravity anomalies associated with the selected magnetic anomalies.

The specific magnetic anomalies P1, P2 and P3 (Figure 2) show no particular gravity anomaly and the more general magnetic areas A, B C and D gave no encouragement for further more detailed work. In conclusion it was decided that no further exploration was warranted at these locations and most of the licence was relinquished in a letter dated 11th April, 1986.

4. FUTURE PROGRAMME

The remaining area in the north east of the original licence has been retained to investigate the gravity low on its eastern margin, Figure 3. Field work is scheduled to begin in June.

5. EXPENDITURE

The expenditure debited to EL1293 to the end of April, 1986 was:

Wages and Salaries	\$4,036
Field Support	264
Vehicles	258
Equipment	75
Maps	20
In-house geophysics processing	26,726
Drafting	539
Administration and Overheads	1,595
	\$33,513

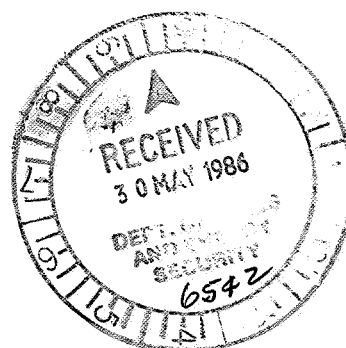
The total expenditure to date for EL1293 is \$90,646.

This report is submitted to the Department of Mines and Energy as required by Clause 2 of EL1293.

CR5041

EXPLORATION LICENCE 1293
PIAROOKA, SOUTH AUSTRALIA
PARTIAL RELINQUISHMENT
REPORT, APRIL 1986

R.J. TAYLOR
ADELAIDE





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0025

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1. Gravity Data - Anomaly P1 (EL1293)
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EXPLORATION LICENCE 1293

PIAROOKA, SOUTH AUSTRALIA

PARTIAL RELINQUISHMENT REPORT, APRIL 1986

0026

1. GENERAL STATEMENT

Exploration Licence 1293 was taken up to test the potential for basement mineralization in the area. It formed part of a regional exploration programme including nearby ELs 1290, 1291, 1292 and 1297. An aeromagnetic survey was flown over the licence area as part of the regional approach. A programme of ground geophysics follow-up work has been completed and interpreted. No significant anomalies have been found and most of the licence was relinquished in April 1986. This report describes the work carried out in the relinquished area.

2. TITLE

Exploration Licence 1293 of 1764 square kilometres was granted to BHP Minerals Limited on 30th July 1985 for six months. The licence was renewed on 30th January 1986 for a further 12 months. A large part of the licence was relinquished in a letter dated 11th April 1986 as shown in Figure 1.

3. FIELD INVESTIGATIONS

3.1 Aeromagnetic Survey

The exploration target of this exploration programme was to define co-incident magnetic and gravity anomalies which may have potential for Olympic Dam style mineralization. BHP first explored the area in 1977-79 (EL369) for this style of target when a gravity grid, the Neales River Grid, was established in this licence area. (Figure 3) The 1985 aeromagnetic survey gave more accurate magnetic information of the underlying basement than was previously available. Interpretation of the magnetics resulted in defining several areas for ground follow-up of two kinds:-

- a) Detailed Gravity traverses
- b) Regional Gravity grids

The aim being to ascertain if there were any coincident gravity anomalies associated with the selected magnetic anomalies P1, P2 and P3, which are shown in Figure 2.

The details of the aeromagnetic survey flown by Geoterrex Limited were as follow:

Line spacing	500 m
Survey height	80 m
Tie line spacing	7500 m
Magnetometer	Caesium Vapour
Flight Line direction	East-West
Minimum crystal size of spectrometer	16 litres

All the processing and plotting of data was carried out by BHP Minerals Limited. The Total Magnetic Intensity Contours are shown in Figure 2 at a scale of 1:100,000.

3.2 Ground Gravity Survey

Neales River Grid

Anomalies P1 and P2 were covered by the old Neales River Grid shown in Figure 3. Three east-west in-fill lines A, B and C produced close interval gravity to define P1. A north-south line, D, gave more gravity information for anomaly P2. The details of the work were as follows:

Line A	11000N	0 to 4000E	400m stations
Line B	9000N	0 to 4800E	400m stations
Line C	7000N	0 to 4000E	400m stations
Line D	2000N-2000S	4900E	400m stations

These stations were optically levelled and tied into the previous grid. The gravity data for Anomalies P1 and P2 are shown in Tables 1 and 2 respectively.

Bulls Eye Anomaly, P3

A ground traverse of 11km was carried out over the discrete magnetic anomaly P3. Magnetometer readings were taken every 10 metres using a Scintrex MP2. Gravity readings were recorded at 200 metre intervals for 2.5 km north and south of the main anomaly and at 400 metre intervals for a further 6 km to the south over a broader magnetic feature. This line was optically levelled. The results of these geophysical measurements are shown in Figure 4 and the data in Table 3.

Regional Gravity Measurements

Three areas B, C and D were defined as having some broad magnetic potential and in each area a series of gravity readings were taken at 2 km or 4 km spacings. These readings were barometrically levelled. The gravity data is listed in Table 4.

All these gravity readings were tied by BM 1754 (68 B0 3654 594403E 6821500N) with barometers and using a helicopter. The helicopter was also used for the regional readings in areas B, C and D. All heights quoted are relative to A.H.D.

The regional data has been incorporated with the SADME gravity data and is contoured at 1:100,000 scale in Figure 3.

4. CONCLUSIONS

Neales River Grid

No encouraging gravity anomalies of a suitable magnitude were found associated with anomalies P1 and P2 with the additional data measured. Therefore no further work is planned.

Bulls Eye Anomaly P3

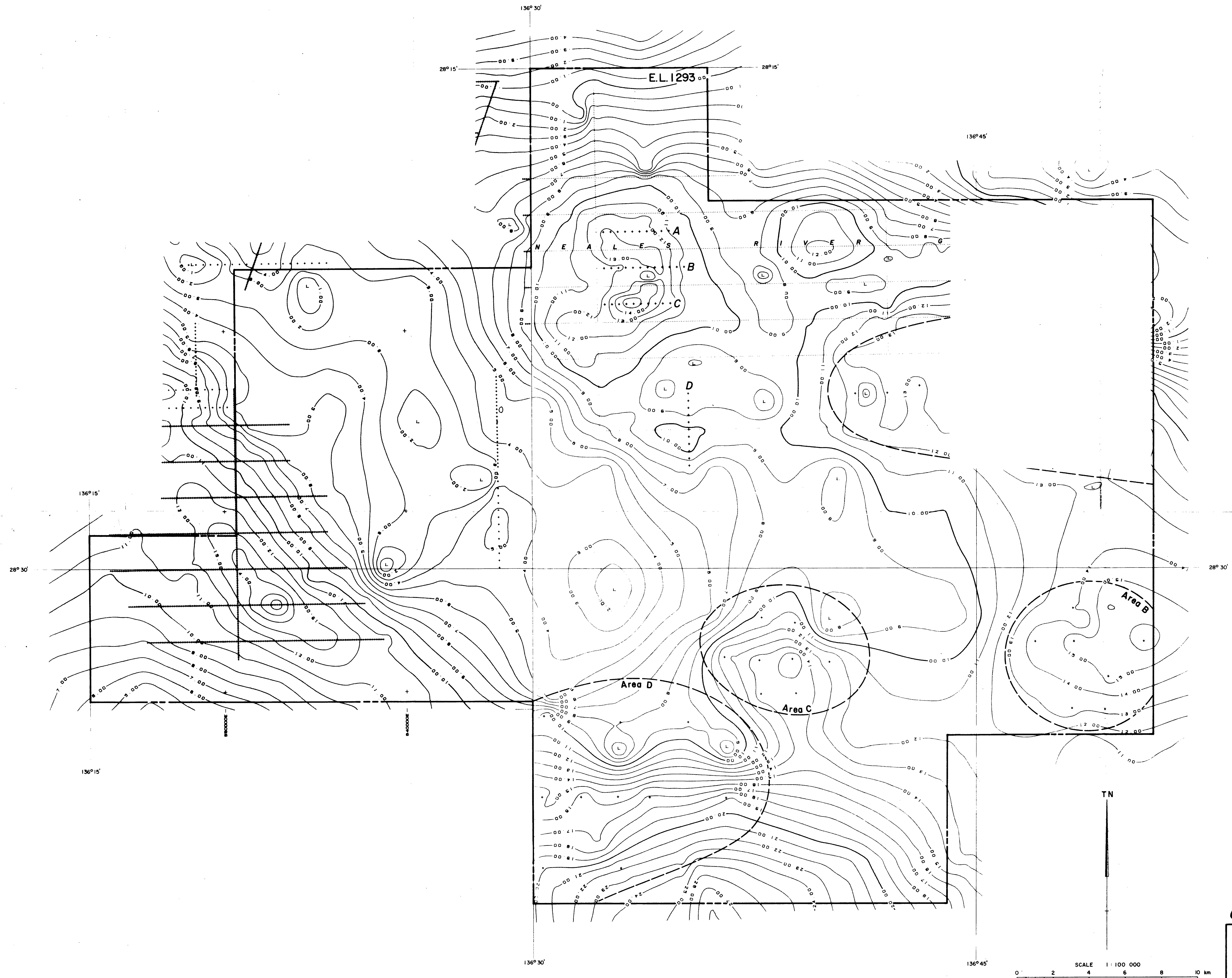
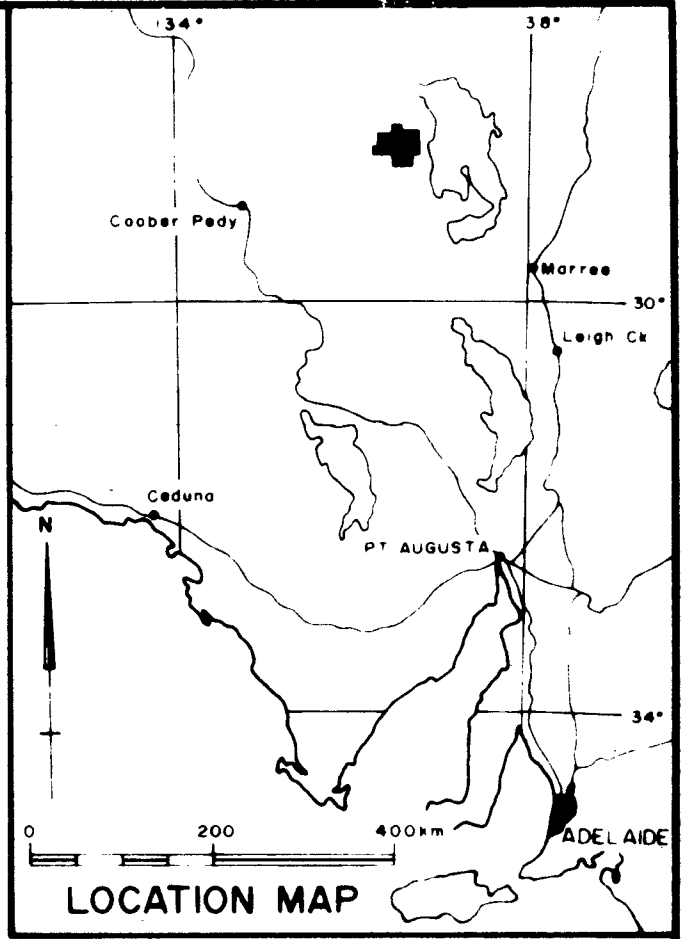
The 11 km gravity traverse showed no strong gravity associated with the P3 magnetic anomaly. In view of this no more exploration is warranted at this location.

Regional Gravity Measurements

The additional data collected has not revealed any significant gravity values associated with the magnetics in areas B, C or D. Therefore no further exploration is proposed for these areas.

As a result of this exploration programme which has been unsuccessful in locating any coincident magnetic/gravity anomalies considered to warrant further work most of the licence has been relinquished in a letter dated 11th April, 1986.

Some further ground geophysics is programmed for the area retained in the northeast of the Licence and will be undertaken in June 1986.



DETAILS OF GRAVITY DATA

ORIGIN OF DATA : S.A.D.M.E. and B.H.P.(+)

DATE : OCTOBER / NOVEMBER 1985

1 : 250,000 SHEET : WARRINA and LAKE EYRE

A.M.G. ZONE : 53

BOUGUER DENSITY : 2.67 gm/cc

GRAVITY METER : SEVERAL

DETAILS OF PROCESSING

PROCESSED BY : B.H.P. EXPLORATION, CAMBERWELL

SCAN : 10,000 m

CONTOUR INTERVAL : 1 mgal

GRID : 400 m

6542-4 Fig. 3

THE BROKEN HILL PROPRIETARY CO. LTD
EXPLORATION DEPARTMENT

E.L.1293 PIAROOKA, S.A.
BOUGUER GRAVITY CONTOURS

Prepared: R. Turner	Date: 25-3-86	Centre: ADELAIDE
Drawn: S. J. Jedrejczak	Project No:	Drawing No:
Checked:	6 - K61 - 2	A1-894 A

(CR 5171)

EXPLORATION LICENCE 1293
PIAROOKA, SOUTH AUSTRALIA
FINAL REPORT
20th AUGUST, 1986.



R.J. TAYLOR
ADELAIDE

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2. TITLE
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TABLES

1. Gravity Data - Anomaly H.

EXPLORATION LICENCE 1293PIAROOKA, SOUTH AUSTRALIAFINAL REPORT FOR THE PERIOD 29.4.86 TO 20.8.861. GENERAL STATEMENT

Exploration Licence 1293 was taken up to test the potential for basement mineralization in the area. It forms part of a regional exploration programme including nearby ELs 1291 and 1292. An aeromagnetic survey was flown over the licence area as part of the regional approach. A programme of ground geophysics follow-up work has been completed and has been interpreted. No coincident gravity/magnetic anomalies have been found. Most of the licence area was relinquished in April, 1986. The small area retained covered a gravity low which has now been investigated. No further work is warranted and the licence was relinquished in a letter dated 20th August 1986.

2. TITLE

Exploration Licence 1293 of 1764 square kilometres was granted to BHP Minerals Limited on 30th July, 1985 for six months. The licence was renewed on 30th January, 1986 for a further 12 months. Most of the licence was relinquished in April, 1986 with a small area being retained as shown in Figure 1. The licence was finally relinquished in a letter dated the 20th August 1986.

3. FIELD INVESTIGATIONSLow Gravity Anomaly, H

The low gravity anomaly reported earlier is located in the retained north-eastern part of this licence and was re-investigated during this quarter. 5.6 line kilometres of traverse were

surveyed and 15 gravity readings taken in the form of a north-south and east-west traverse centred over the anomaly. The results are given in Table 1. Originally anomaly H appeared to be a quite large low, but this detailed grid has shown that the anomaly disappeared in the regional gradient. (Fig.2)

4. CONCLUSIONS

The detailed follow-up work has shown that the significant low anomaly H has merged into the regional gradient. It is now thought to have been caused by an incorrect reading. The remaining minor gravity anomalies are considered to be of no further interest and no more work is warranted. Consequently the licence was relinquished in a letter dated 20th August, 1986. The main exploration work conducted in this licence has been reported in earlier quarterly reports and the partial relinquishment report dated April 1986.

5. EXPENDITURE

The expenditure debited to EL.1293 to the end of August 1986 was:-

	\$
Wages and Salaries	3,886
Field Support	738
Vehicles	2,163
Office Expenses	35
Equipment	121
Geophysics	2,400
Freight	36
Drafting	67
Administration & Overheads	473
	\$9,919

The total expenditure for the duration of EL.1293 was \$100,565.

This report is submitted to the
Department of Mines & Energy as
required by Clause 2 of EL.1293

TABLE 1GRAVITY DATA (EL.1293) ANOMALY H

Easting	Northing	A.H.D.	Gravity	Bouguer 2.67	Grid Location
680483.00	6861188.00	7.793	979202.40	5.39	H11600/10000
680483.00	6860788.00	9.308	979202.90	6.00	H11200/10000
680483.00	6860388.00	8.119	979204.00	6.54	H10800/10000
680483.00	6859988.00	7.053	979205.20	7.28	H10400/10000
680483.00	6859588.00	7.000	979205.20	7.00	H10000/10000
680483.00	6859188.00	6.329	979206.70	8.02	H09600/10000
680483.00	6858788.00	5.993	979207.40	8.42	H09200/10000
680483.00	6858388.00	5.675	979208.20	8.83	H08800/10000
682083.00	6859588.00	7.932	979204.90	6.82	H10000/11600
681683.00	6859588.00	8.170	979205.10	7.12	H10000/11200
681283.00	6859588.00	7.655	979205.60	7.45	H10000/10800
680883.00	6859588.00	7.553	979205.40	7.30	H10000/10400
680083.00	6859588.00	8.025	979205.70	7.72	H10000/09600
679683.00	6859588.00	6.800	979206.40	8.08	H10000/09200
679283.00	6859588.00	8.387	979206.20	8.29	H10000/08800



Anomaly "H", Gravity low, evident
from 1985 data.

DETAILS OF GRAVITY DATA

Origin of Data: SADME and BHP(+)
Date: Oct-Nov '85 and June-Aug '86
1:250,000 Sheet: Lake Eyre AMG Zone:53
Bouguer Density: 2.67 gm/cc
Gravity meter: several

DETAILS OF PROCESSING

Processed by: BHP Exploration, Camberwell
Scan: 10,000 m
Contour Interval: 1 mgal
Grid: 400m

SCALE 1:100 000

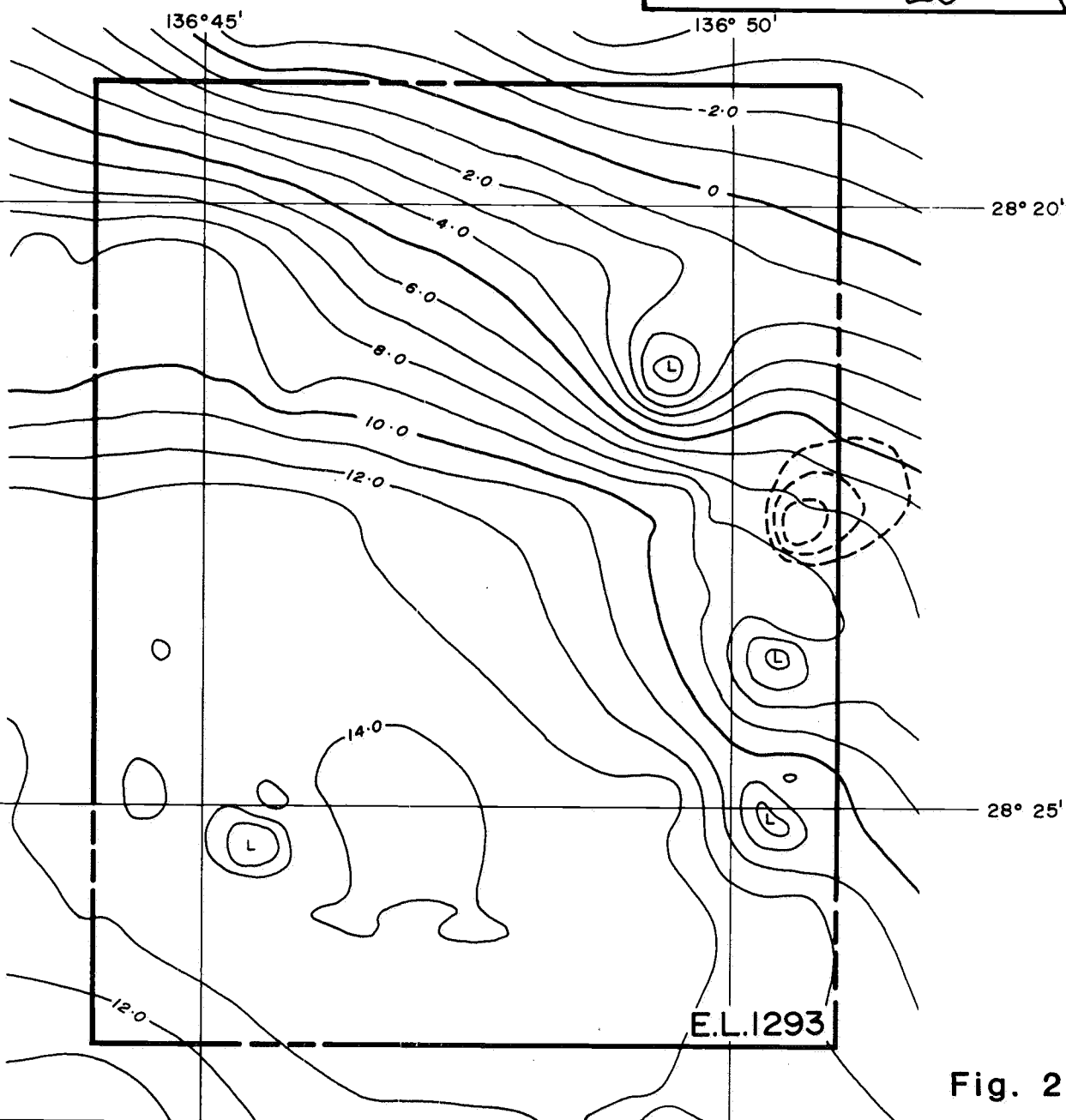
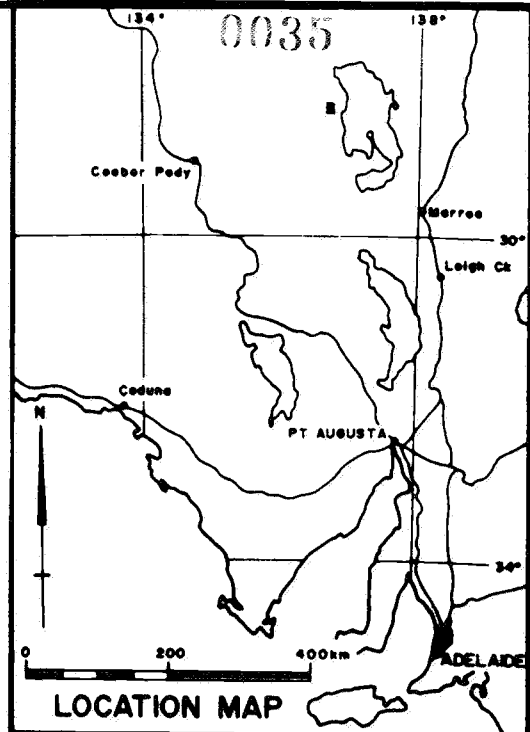
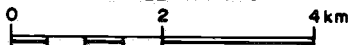


Fig. 2

Centre

Date

THE BROKEN HILL PROPRIETARY CO. LTD.

E.L.1293 PIAROOKA, S.A.

BOUGUER GRAVITY CONTOURS

Project No

Drawing No

A4-466

TABLE 1

GRAVITY DATA (E.L.1293)

Anomaly P1Line A

<u>Easting</u>	<u>Northing</u>	<u>A.H.D.</u>	<u>Gravity</u>	<u>Bouguer (2.67)</u>	<u>Grid Location</u>
650630. 40	6861096. 00	18. 100	979206. 50	11. 64	00WL7000
651030. 40	6861096. 00	18. 940	979206. 90	12. 26	400WL7000
651430. 40	6861096. 00	18. 832	979208. 10	13. 43	800WL7000
651830. 40	6861096. 00	18. 776	979209. 10	14. 41	1200WL7000
652230. 40	6861096. 00	19. 218	979209. 70	15. 13	1600WL7000
652630. 40	6861096. 00	18. 848	979209. 90	15. 24	2000WL7000
653030. 40	6861096. 00	19. 666	979209. 40	14. 92	2400WL7000
653430. 40	6861096. 00	19. 735	979208. 50	13. 99	2800WL7000
653830. 40	6861096. 00	19. 699	979207. 70	13. 24	3200WL7000
654230. 40	6861096. 00	19. 781	979207. 20	12. 75	3600WL7000
654630. 40	6861096. 00	20. 617	979206. 50	12. 18	4000WL7000

Line B

655430. 40	6863096. 00	12. 503	979205. 50	10. 82	4800WL9000
655030. 40	6863096. 00	13. 970	979205. 60	11. 20	4400WL9000
654630. 40	6863096. 00	14. 059	979206. 40	12. 09	4000WL9000
654230. 40	6863096. 00	14. 230	979207. 30	13. 00	3600WL9000
653830. 40	6863096. 00	14. 916	979207. 90	13. 77	3200WL9000
653430. 40	6863096. 00	15. 189	979207. 60	13. 52	2800WL9000
653030. 40	6863096. 00	16. 011	979206. 90	12. 94	2400WL9000
652630. 40	6863096. 00	11. 369	979207. 40	12. 46	2000WL9000
652230. 40	6863096. 00	11. 701	979206. 90	12. 09	1600WL9000
651830. 40	6863096. 00	15. 410	979206. 10	12. 00	1200WL9000
651430. 40	6863096. 00	17. 722	979205. 70	12. 12	800WL9000
651030. 40	6863096. 00	17. 499	979205. 40	11. 82	400WL9000
650630. 40	6863096. 00	17. 670	979205. 00	11. 42	00WL9000

Line C

650630. 40	6865096. 00	17. 460	979204. 70	12. 50	00WL11000
651030. 40	6865096. 00	17. 388	979205. 40	13. 11	400WL11000
651430. 40	6865096. 00	15. 842	979205. 70	13. 09	800WL11000
651830. 40	6865096. 00	15. 198	979205. 40	12. 70	1200WL11000
652230. 40	6865096. 00	14. 972	979205. 10	12. 28	1600WL11000
652630. 40	6865096. 00	14. 070	979205. 20	12. 21	2000WL11000
653030. 40	6865096. 00	13. 092	979205. 50	12. 32	2400WL11000
653430. 40	6865096. 00	12. 546	979205. 60	12. 33	2800WL11000
653830. 40	6865096. 00	12. 526	979205. 20	11. 95	3200WL11000
654230. 40	6865096. 00	12. 148	979204. 90	11. 49	3600WL11000
654630. 40	6865096. 00	11. 209	979204. 50	10. 92	4000WL11000

0037

TABLE 2GRAVITY DATA (E.L.1293)Anomaly P2

<u>Easting</u>	<u>Northing</u>	<u>A.H.D.</u>	<u>Gravity</u>	<u>Bouguer (2.67)</u>	<u>Grid Location</u>
655530. 40	6854096. 00	38. 070	979205. 70	10. 29	4900WL00
655530. 40	6856096. 00	29. 114	979204. 40	8. 50	4900WL2000
655530. 40	6855696. 00	34. 651	979203. 50	8. 47	4900WL1600
655530. 40	6855296. 00	34. 850	979203. 90	8. 61	4900WL1200
655530. 40	6854896. 00	37. 200	979204. 10	9. 09	4900WL800
655530. 40	6854496. 00	39. 317	979204. 40	9. 58	4900WL400
655530. 40	6853696. 00	40. 278	979206. 00	10. 80	4900WL-400
655530. 40	6853296. 00	40. 356	979206. 10	10. 60	4900WL-800
655530. 40	6852096. 00	26. 063	979207. 60	8. 30	4900WL-2000
655530. 40	6852496. 00	27. 697	979207. 60	8. 92	4900WL-1600
655530. 40	6852896. 00	30. 513	979207. 70	9. 92	4900WL-1200

TABLE 3

GRAVITY DATA (E.L.1293)

Bull. Eye Anomaly (P3)

<u>Easting</u>	<u>Northing</u>	<u>A.H.D.</u>	<u>Gravity</u>	<u>Bouguer (2.67)</u>	<u>Grid Location</u>
644950. 40	6854690. 00	32. 870	979200. 90	4. 84	10000UM10000
644950. 40	6852190. 00	32. 504	979200. 70	2. 86	10000UM7500
644950. 40	6852390. 00	32. 800	979200. 70	3. 00	10000UM7700
444950. 40	6852590. 00	32. 413	979200. 60	2. 99	10000UM7900
644950. 40	6852790. 00	32. 220	979200. 70	3. 15	10000UM8100
644950. 40	6852990. 00	32. 451	979200. 70	3. 40	10000UM8300
644950. 40	6853190. 00	32. 584	979200. 80	3. 63	10000UM8500
644950. 40	6853390. 00	32. 815	979200. 90	3. 94	10000UM8700
644950. 40	6853590. 00	32. 683	979201. 10	4. 17	10000UM8900
644950. 40	6853790. 00	33. 088	979201. 00	4. 33	10000UM9100
644950. 40	6853990. 00	32. 569	979201. 10	4. 48	10000UM9300
644950. 40	6854190. 00	32. 653	979201. 20	4. 70	10000UM9500
644950. 40	6854390. 00	32. 608	979201. 10	4. 77	10000UM9700
644950. 40	6854590. 00	32. 742	979100. 90	4. 74	10000UM9900
644950. 40	6854790. 00	32. 751	979200. 90	4. 88	10000UM10100
644950. 40	6854990. 00	32. 558	979200. 90	4. 92	10000UM10300
644950. 40	6855190. 00	32. 410	979200. 80	4. 96	10000UM10500
644950. 40	6855390. 00	32. 425	979200. 60	4. 91	10000UM10700
644950. 40	6855590. 00	32. 273	979200. 50	4. 89	10000UM10900
644950. 40	6855790. 00	32. 018	979200. 40	4. 85	10000UM11100
644950. 40	6855990. 00	30. 444	979200. 50	4. 78	10000UM11300
644950. 40	6856190. 00	32. 066	979200. 00	4. 76	10000UM11500
644950. 40	6856390. 00	32. 001	979199. 70	4. 63	10000UM11700
644950. 40	6856590. 00	32. 273	979199. 70	4. 76	10000UM11900
644950. 40	6856790. 00	31. 834	979199. 60	4. 68	10000UM12100
644950. 40	6856990. 00	31. 627	979199. 50	4. 71	10000UM12300
644950. 40	6857190. 00	31. 566	979199. 60	4. 90	10000UM12500
644950. 40	6847390. 00	47. 919	979202. 60	4. 73	10000UM1500
644950. 40	6846590. 00	48. 628	979202. 60	4. 27	10000UM1900
644950. 40	6846990. 00	47. 234	979203. 00	4. 69	10000UM2300
644950. 40	6847390. 00	49. 032	979202. 80	5. 16	10000UM2700
644950. 40	6847790. 00	49. 452	979202. 50	5. 21	10000UM3100
644950. 40	6848190. 00	48. 177	979202. 50	5. 21	10000UM3500
644950. 40	6848590. 00	48. 637	979202. 00	5. 08	10000UM3900
644950. 40	6848990. 00	47. 468	979202. 10	5. 17	10000UM4300
644950. 40	6849390. 00	44. 219	979202. 70	5. 44	10000UM4700
644950. 40	6849790. 00	43. 241	979202. 10	4. 82	10000UM5100
644950. 40	6850190. 00	42. 997	979201. 50	4. 48	10000UM5500
644950. 40	6850590. 00	40. 087	979201. 70	4. 32	10000UM5900
644950. 40	6850990. 00	42. 462	979200. 50	3. 91	10000UM6300
644950. 40	6851390. 00	36. 262	979201. 20	3. 62	10000UM6700
644950. 40	6851790. 00	33. 628	979201. 10	3. 20	10000UM7100

TABLE 4

GRAVITY DATA (E.L.1293)

Regional Areas B, C and DArea B

676541. 50	6843843. 00	13. 720	979221. 50	13. 90	1W 00001
678509. 10	6843835. 00	8. 840	979224. 60	15. 92	1W 00002
680447. 70	6841943. 00	8. 230	979226. 40	16. 37	1W 00003
678470. 80	6840034. 00	8. 140	979226. 60	15. 17	1W 00004
678257. 40	6838230. 00	7. 350	979226. 00	13. 20	1W 00005
676409. 30	6838314. 00	8. 410	979226. 00	13. 48	1W 00006
676572. 50	6842002. 00	13. 900	979224. 20	15. 43	1W 00007
674429. 20	6842023. 00	17. 260	979222. 00	14. 47	1W 00008

Area C

663091. 90	6841078. 00	36. 790	979217. 30	12. 73	2W 00001
661049. 30	6841272. 00	46. 670	979218. 10	15. 72	2W 00002
661228. 70	6839375. 00	55. 610	979216. 60	14. 88	2W 00003
659281. 40	6839368. 00	53. 930	979216. 60	14. 52	2W 00004
659218. 80	6841242. 00	43. 930	979217. 30	14. 36	2W 00005
657274. 10	6841446. 00	48. 950	979214. 40	12. 63	2W 00006
661223. 60	6843276. 00	37. 950	979214. 50	11. 67	2W 00007
659377. 90	6843589. 00	37. 490	979213. 00	10. 29	2W 00008

Area D

<u>Easting</u>	<u>Northing</u>	<u>A.H.D.</u>	<u>Gravity</u>	<u>Bouguer (2.67)</u>	<u>Grid Location</u>
647099. 00	6829963. 00	77. 880	979223. 20	19. 80	3W 00001
651409. 20	6829875. 00	70. 430	979226. 90	21. 78	3W 00002
654745. 00	6830031. 00	59. 030	979230. 50	23. 09	3W 00003
657248. 00	6833677. 00	59. 360	979223. 60	18. 72	3W 00004
653053. 80	6833777. 00	64. 590	979220. 70	17. 02	3W 00005
651303. 90	6833822. 00	66. 900	979218. 60	15. 48	3W 00006
649260. 10	6833837. 00	63. 550	979220. 00	16. 16	3W 00007
647118. 80	6833864. 00	64. 150	979219. 30	15. 62	3W 00008
647282. 60	6838339. 00	65. 800	979210. 30	10. 03	3W 00009
651494. 00	6837931. 00	70. 870	979207. 40	7. 89	3W 00010
655220. 80	6837893. 00	55. 810	979211. 40	8. 66	3W 00011

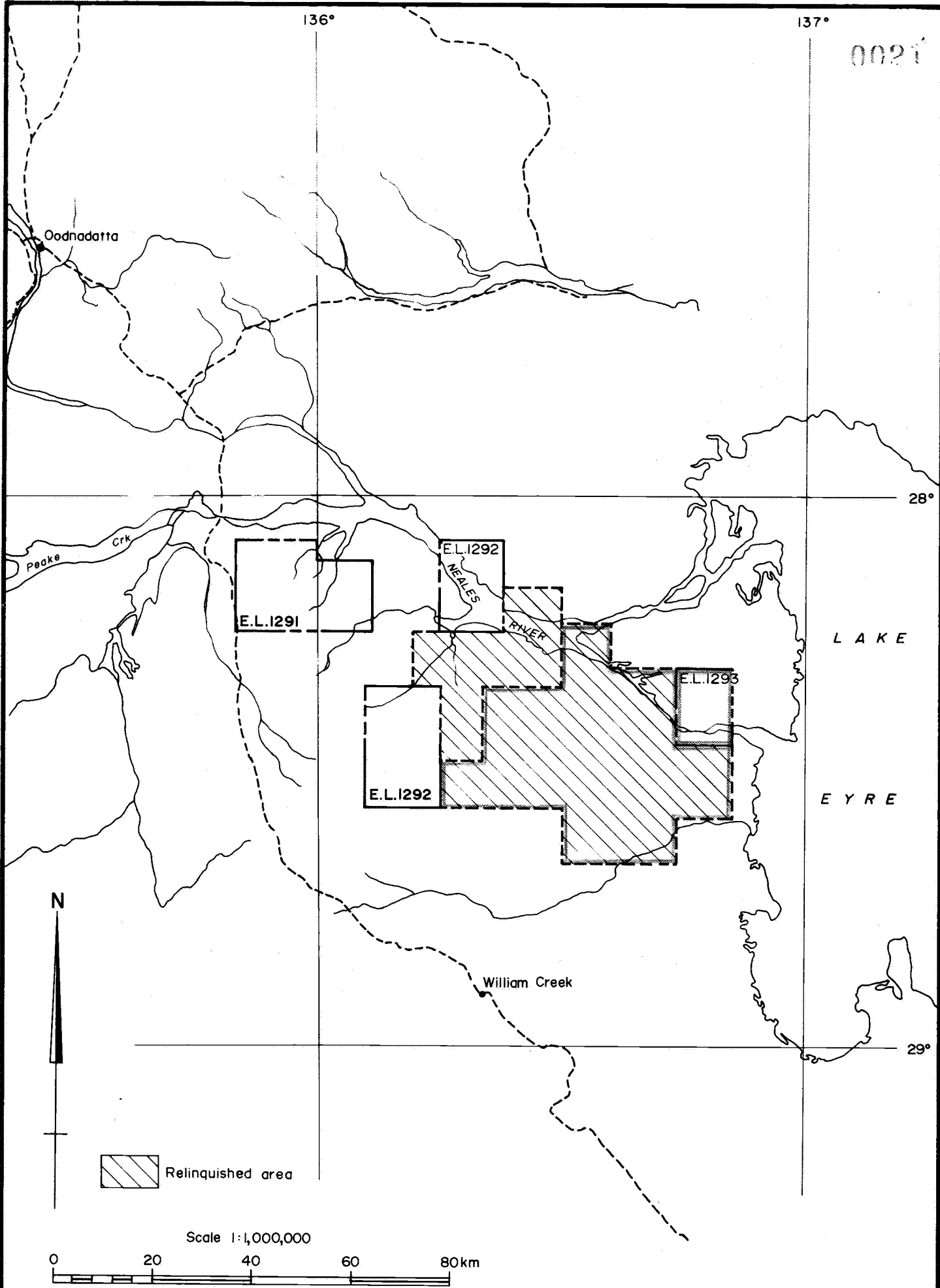


Fig. 1

Centre
ADELAIDE

Date
26 - 9 - 85

THE BROKEN HILL PROPRIETARY CO. LTD.

E.L.'S 1291, 1292, 1293 WEST LAKE EYRE, S.A.

LOCATION MAP

Project No
6-K55-5

Drawing No
A4-437B