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EL 369

WEST LAKE EYRE

PROGRESS REPORTS TO LICENCE EXPIRY/RENEWAL FOR THE PERIOD 31/10/1977 TO 30/10/1979

Submitted by
Dampier Mining Co. Ltd
1979

Enquiries: Customer Services Branch
Minerals and Energy Resources
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101 Grenfell Street, Adelaide 5000

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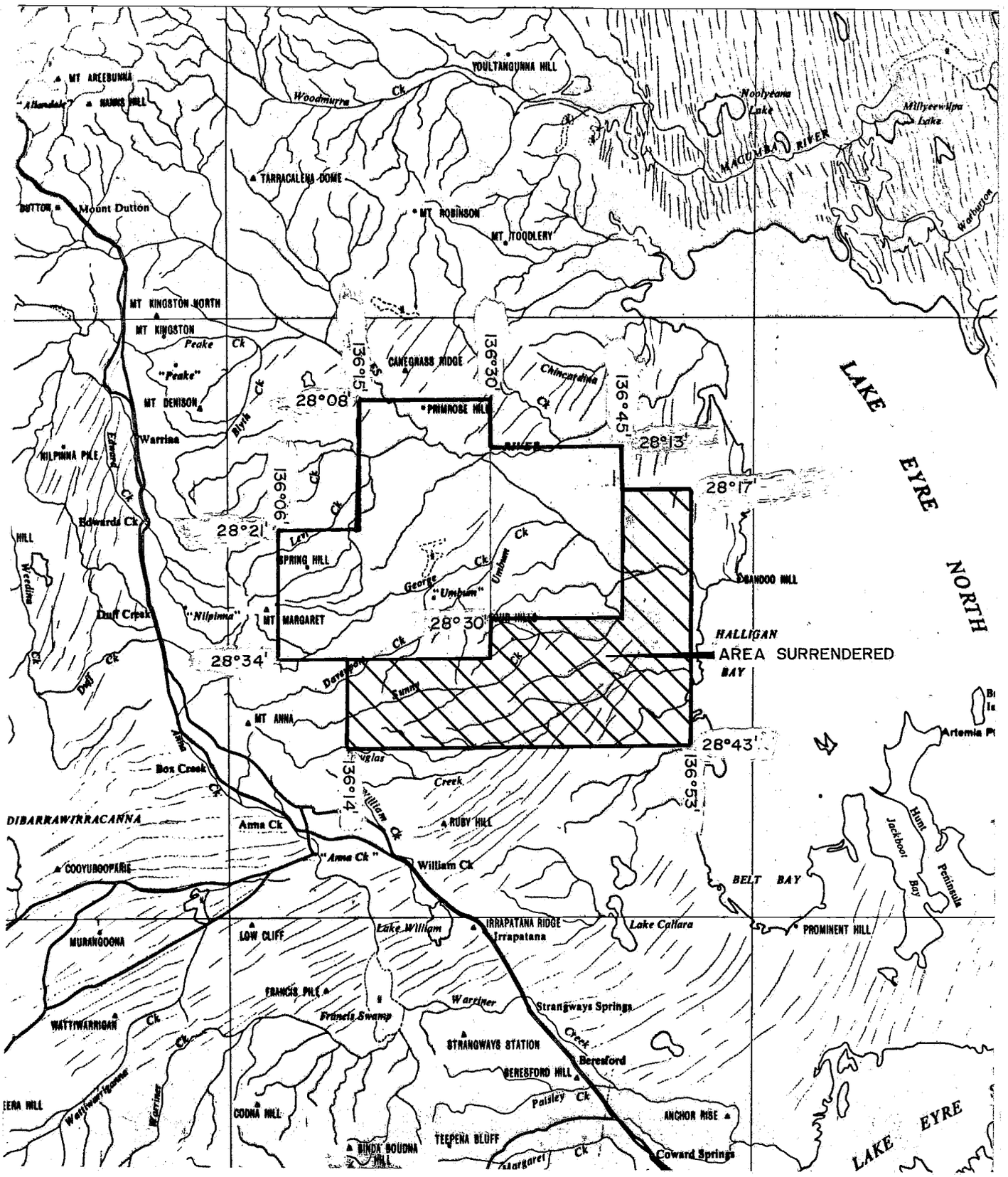
Government of South Australia
Primary Industries and Resources SA

SCHEDULE A



SCALE 1:1 000 000

ETRES 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 KILOMETRES

APPLICANT: DAMPIER MINING COMPANY LIMITED

D.M.: 318/77

AREA: ~~3947~~ 2300 Square kilometres

1:250 000 PLANS: WARRINA — LAKE EYRE

EXPIRED

LOCALITY: WEST LAKE EYRE AREA — APPROX. 140 km. S.E. OF OODNADATTA

EXPIRY DATE: 31·10·~~78~~79

E.L. No.: 369

CONTENTS ENVELOPE 3195

TENEMENT: E.L. 369
TENEMENT HOLDER: DAMPIER MINING CO. LTD.

REPORTS:

CONTENTS ENVELOPE 3195 (cont.)

EXPLORATION LICENCE 369

WEST LAKE EYRE, SOUTH AUSTRALIA

REPORT FOR THE QUARTER ENDED 31st JANUARY, 1978

1. General

Exploration Licence 369 was granted to Dampier Mining Company Limited on 1st November, 1977 for 12 months.

2. Work Done

A combined gravity with levelling and magnetic survey was carried out. A grid was surveyed and readings taken at 100 metre intervals over 210 line kilometres.

Details of the survey and results are given in the attached reports by Solo Geophysics.

3. Expenditure

Expenditure debited to E.L. 369 to 31st January, 1978 was:-

Wages and Salaries	$1,712
Surveinng/Aerial Photographs	172
	$1,884

Costs of the geophysical survey will be debited during the next quarter.

This report is submitted to the Mines Department as required by Condition 4 of Exploration Licence 369.

THIS IS PART I OF A COMBINED GRIDDING, GRAVITY WITH LEVELLING AND MAGNETICS SURVEY.

SEE PART II FOR GRAVITY INFORMATION

PART 1.

000006

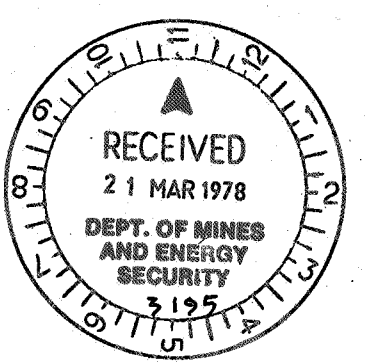
CLIENT: THE B.H.P. CO. LTD.

AREA: E.L. 369 LAKE EYRE WEST

GRID: NEALES RIVER

SURVEY: GROUND MAGNETICS

DATE: NOVEMBER and DECEMBER 1977



CONTENTS

LINE NUMBERS

00	00 to 19000N	BRG 353°/173°
00	00 to 28000E	BRG 83°/263°
4000N	3000W to 22000E	BRG 83°/263°
6000N	4000W to 28000E	BRG "
8000N	4000W to 22000E	BRG "
10000N	4000W to 28000E	BRG "
12000N	4000W to 16000E	BRG "
14000N	4000W to 8000E	BRG "
16000E	2000S to 12000N	BRG 353°/173°

Separate cover, original field sheets.

LAKE EYRE WEST E.L. 369 MAGNETICS SURVEY

FOR: THE BROKEN HILL PROPRIETARY COMPANY LIMITED
BHP HOUSE, 140 WILLIAM STREET,
MELBOURNE, VICTORIA

DATE: NOVEMBER and DECEMBER 1977

- - -

The above survey of 210 line kilometers was carried out simultaneously with gravity and levelling by two Solo Geophysics crews mobilizing from Adelaide. They used portable camping equipment for the six week survey to give them maximum mobility and access to the proposed grid area.

General Information About the Survey Area:

The area surveyed is located on the north-eastern boundary of Anna Creek Station, it is 1080 kilometers from Adelaide, approximately 80 kilometers north of William Creek and overlays part of the prominent Neales River drainage into Lake Eyre West. For an access description to grid area, see appendix.

Most of the area was very flat except for occasional deeply eroded creek channels and a major river drainage system. Vegetation is almost non-existant on the plains area except for sparse bushes. All large vegetation and trees are associated with creek drainage systems and caution should be exercised if camping in their protective shade. Dry sandy creek and river crossings are negotiable during the heat of the day, but powdery sand should then be avoided. A suitable campsite, central to the grid and established creek crossings from it past a waterhole are detailed in the appendix.

Two flowing hot artesian bores are on the grid area described in the appendix. Considerable surface water was left in the area after a big storm and much rain. This has evaporated to leave only creek waterholes, where the salinity is quite high. The only water we located not saline was the flowing northern arm of the Neales River that does not pass through the grid. There are some quite large waterholes in the lower Neales River, and all the dams have been filled to capacity. Sand hills are numerous on the western side of the grid only. Wild life exists as donkeys, rabbits and dingoes and water birds are extremely numerous since the four inches of rain experienced during the survey period. Three and one half inches fell one night in a wild storm, and all flat-lying country and clay-pans were under water. Creeks and rivers flooded and it was not possible to move for about a week. Daily temperature ranged from a cool +30°C to +45°C, averaging about 40°C.

2/...

The Survey:

Three four-wheel drive vehicles and a large trailer were used to mobilize food supplies and petrol from Adelaide to the area. Several brief camps were established at the beginning until the base line was completed and better access found. This period was interrupted by tropical storms that stopped all work for about a week.

A grid was established by using special calibrated odometers in the vehicles for distance measuring. Gridding at one kilometer intervals was done simultaneously with magnetics gravity and levelling. The base line was established in a true north-south direction using the Umbum Creek intersection with a proposed grid line as the origin. This point by scale distance was 8600N on base line 00.

This line was continued south to point 00/00 and northward from 8600N to 19000N. Steel pegs were placed at origins of each line and red painted pegs at intermediate kilometer intervals. The 00 line has a bearing of 353°/173° magnetic. Grid lines were then established east and west from this line at a bearing of 83°/263°.

The lines are

14000N	from	4000W	to	8000E
12000N	from	4000W	to	16000E **
10000N	from	4000W	to	28000E
8000N	from	4000W	to	22000E
6000N	from	4000W	to	28000E
4000N	from	3000W	to	22000E
00	from	00	to	28000E *
16000E	from	12000N	to	2000S

* Note line 00 was offset 600 metres south at 22000E to avoid deep water in Neales River.

** 12000N line offset 200 metres south at 10000N to 11000N to avoid swamp.

Magnetometer Survey:

Magnetometer reading stations were at 100 metres intervals along all survey lines. Several offsets as described were necessary to avoid flooded areas. All stations were marked with numbered flagging tape and where possible a mound of dirt. Permanent steel pegs were positioned at track crossings to help locate lines in the future. For these locations refer appendix and 1:20000 map.

A Scintrex MP-2 Proton magnetometer was used for most of the survey supported by an Austral unit. Both these units failed near the end of December, and the survey was completed with two GP-70 McPhar units. Repairs to magnetometers located a faulty plug connection in the MP-2 easily repaired, but an electronic component failure occurred in the Austral unit when the coil wires shorted. A level change of approximately 30 gammas appears on line 4N near the base line due to a change of

the instruments. This was adjusted out during profiling but remains part of the original data. Base station ties were done morning and evening, and the variation did not exceed 30 gammas Corrections were not applied to the data, as they were minimal compared with variations of observed readings. Field readings repeated within 2 gammas at each station using back pack mounting of sensor coil.

Field Data Sheets:

These are filed in the following order:

LINE	00	N/S	(Baseline)
	00	E/W	
	4000N	E/W	
	6000N	E/W	
	8000N	E/W	
	10000N	E/W	
	12000N	E/W	
	14000N	E/W	
	16000E	N/S	

Copies have been arranged so that each line is a complete set of results, even though the line may not have been surveyed in that order. As a result of this, some duplication of field sheets has occurred for your convenience of reference. Original field sheets have been returned under separate cover. Some duplication of field data occurs on line 4 where repeats are not precise. This resulted from measurements taken in oposite direction around contour deviations and a displacement error occurring.

Data Presentation:

Line profiles were completed from field data sheets of each line. The grid scale used was 1: 50000

For SOLO GEOPHYSICS AND CO.

B. A. Rau

BRIAN A. RAU

MANAGER

APPENDIX

C O M M U N I C A T I O N S:

1. A telephone is available at William Creek Hotel-Store.

2. Anna Creek homestead has a regular radio schedule at 7:45 a.m., 11:45 a.m. and 6:45 p.m. using Flying Doctor Radio frequency 2020, Dick Nunn the manager.

3. R.F.D.S. network at Port Augusta is available for operators of equipment on their frequencies 4010 and 6890.

P E T R O L & F O O D:

Petrol available from pump or bulk in 44 drums from William Creek. Fresh food supplies not carried at William Creek store, very limited stock.

W A T E R:

Three hot flowing artesian bores are in the area, and one is located on the grid. See access details for locations of bores. All surface water in the area can be assumed to be saline. The lower reaches of the Umbum Creek have some water holes, the largest remaining by our campsite as described. Larger water holes are found in the southern arm of the Neales River below the Umbum Creek junction. Even larger water holes may be found along the northern arm of The Neales that flows north of the baseline. This water could still be fresh as it was when flowing. Numerous dams are sited on the grid area, all are full and can be located from the large grid map.

S U G G E S T E D C A M P S I T E S:

(a) Near 3000W/Line 12N.

There are small trees that give some shade, here. A track leads off to this area from a steel picket marking gravity base No. 2 on roadside. See large map location.

Advantages are that it is close to hot water artesian bore located by cattle yard 2 Km north along station track and close to exit road to William Creek.

(b) Near 600W/Line 8N

This was our main base camp, ideally suited, being central to all grid access. Located under a large mulga tree. See location of access tracks from map. A large water hole was located below the camp in the Umbum Creek. From this camp access to grid east was across the Umbum Creek crossing we established after the floods, and via baseline 00, or line 8N until reaching our re-established station track to the southern lines. Access to the east across

2/...

the Neales River was via line 10N, but due to water, we could not cross at this point. It may now be negotiable. If not, go north and find a narrow sandy crossing between 11N to 12N. Re-established roads can give access to grid east.

P E R M A N E N T S T E E L G R I D P E G S:

On base line 00 steel pegs are located as follows:-

00/14N, 00/12N, 00/10N, 00/8.6N, 00/8N, 00/6N, 00/4N, 00/00.

Around grid at track crossings steel pegs are located as follows:-

L12/1.3W	near stockyard
L12/3.8W	near William Creek to grid access track
L14/1.7W	track north of stockyards
L8/3E	
L6/4.5E	
L4/6.5E	
L0/11.35E	
L10/19.2E	
L10/10E	gravity base
L8/18.9E	
L6/19.0E	
L4/18.6E	

All pegs have permanent aluminium identity discs attached.

TOTAL - 20 steel pegs.

S E M I - P E R M A N E N T P E G S:

Wooden pegs painted red are located at 1 kilometer intervals throughout the grid. They are numbered on the southern side with grid co-ordinates. These pegs were also located by stockyard turnoff to base-line access track we established through the sandhills.

T R A C K S:

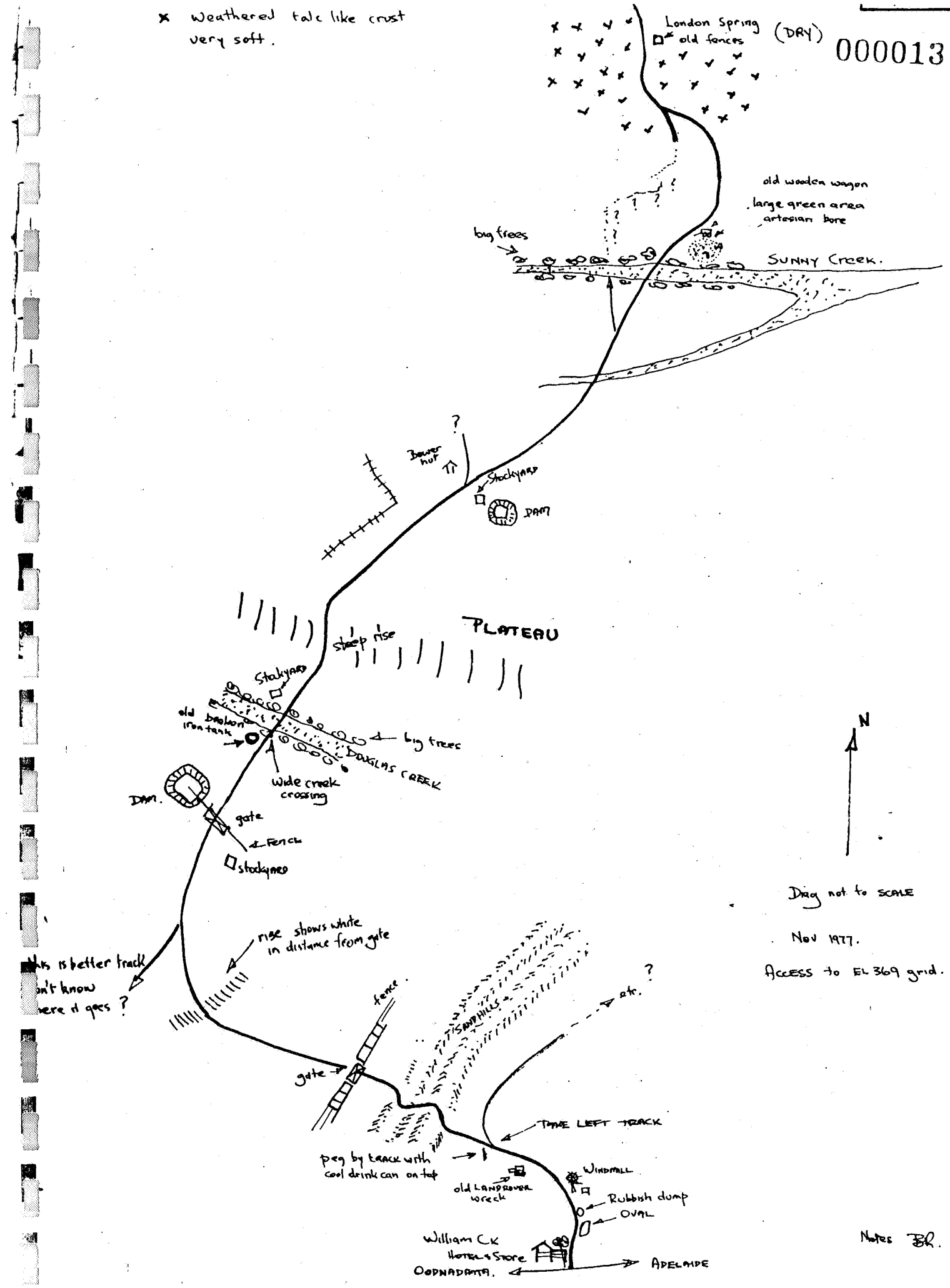
Generally, tracks in the area were non-existant as they are seldom used. We re-established tracks whenever possible. Most are deeply eroded at creek crossings and are not easily negotiable by large vehicles since the rains. Normal four-wheel drive vehicles have no difficulty gaining access to the area.

A C C E S S T O T H E G R I D F R O M W I L L I A M C R E E K:

See handwritten notes.

× Weathered talc like crust very soft.

000013



Diag not to SCALE

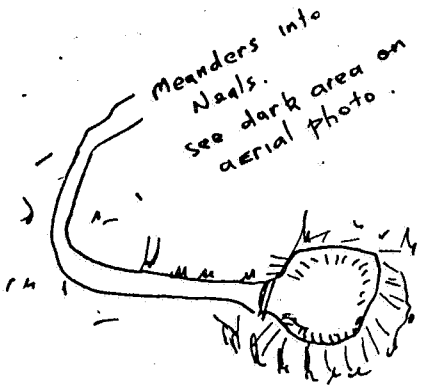
Nov 1977.

Access to EL 369 grid.

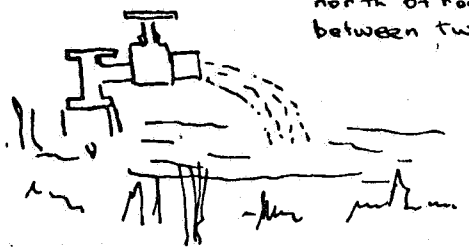
Notes BR.

SHEET #2

000014



open bore flowing out of collapsed bore casing, flows very fast, & almost boiling hot



Bore.

WASHED OUT TRACK
SEE LARGE 1:250000 MAP.

hot artesian bore.

NEALES RIVER

stockyards.

Gravity base #2.

green swamp

our second camp WASHED out by storm

our third camp on top of sand hill

stockyard

creek

CAMP 4

Umbum Creek

??? To PEAK STATION

warm artesian bore in green patch to north of road between two creeks.

Cairn of stones

- old chimney (GRAVITY BASE #1 see peg)

our first campsite

stockyard

GEORGE Ck

by trees

DAVEN PORT Ck.

Cairn of stones.

collar from bore? drillhole?

Stockyard

London Spring.

N.

Diagram not to scale.

Nov 1977

Access to EL 369 grid.

Notes BK

contd: from previous page

SHEET #3

000015

Distances from William Creek Hotel/Store to landmarks on track to grid @ EL 369 : Trip takes approx 2½ hours during dry weather

Location	Distance (Kilometers)
Hotel / Store	00.00
windmill	2.6
stockyard	2.9
road junction	5.0
Sandhills	
Gate (closed)	8.0
road junction (not obvious from this direction)	16.8
stockyard, dam	
Gate (maybe open)	17.8
old tank Douglas Creek	18.9
Stockyards across creek	20.0
steep rise	
corner fence of parrallel fence line	21.29
boxer hut, stockyard dam	25.0
small creek	32.5
road junction (take right fork)	34.4
Sunny Creek artesian bore, old cart.	35.0
Sidetrack (not obvious in this direction)	38.7
London Spring (Dry) old fence rails etc	40.0
road junction by prominent hill (take right hand right angle) turn	40.61
old bore, steel drill casing	45.5
cairn of stones at side track	47.1
side track	48.0
Bump	48.8
* Stockyards, & sidetrack to left.	53.3
old chimney & ruin.	54.0

Contd.

		reset dist.
(*)	take sidetrack to Davenport Ck	53.3 = 00
	artesian bore about 250m north of road, look for birds & cattle & green swamp to locate, easy to miss. see diag of bore.	0.9
	George Creek	1.85
	road junction, take right hand track,	
note:	track can become very indistinct from now on unless used regularly, follow carefully	2.35
	stockyard across creek to left of track & trees. dead cow, skeleton on right hand side of track.	10.7
	steel grid peg	
	base station steel peg	21.9
	stockyard	23.0
	Total.	76.3k

Contd:
Turn off to baseline see wooden peg markers just before stockyard on side of track.

across sand hills past artesian bore to old ruin stockyard. (This is our track, may become indistinct without use) see steel peg 100m S.E of old stock yard, follow 1:20000 diag.

*Nov 1977 JR.

APPENDIX

S U R V E Y O R S & E Q U I P M E N T:

Two crews operated in the grid area. Personnel were Brian Rau and Ted Hansen, Graham Rau and Phillip Rundle. Three four-wheel drive vehicles, a Nissan Patrol, Landrover and Suzuki were used. Magnetometers were Scintrex MP-2, Austral and McPhar GP-70 units. Tents, camping equipment, lighting generator, deep freezers, R.F.D.S. two-way radio, water, petrol and food were necessary to support the crew in this isolated area.

All rubbish was buried at the campsite before crew left the area.

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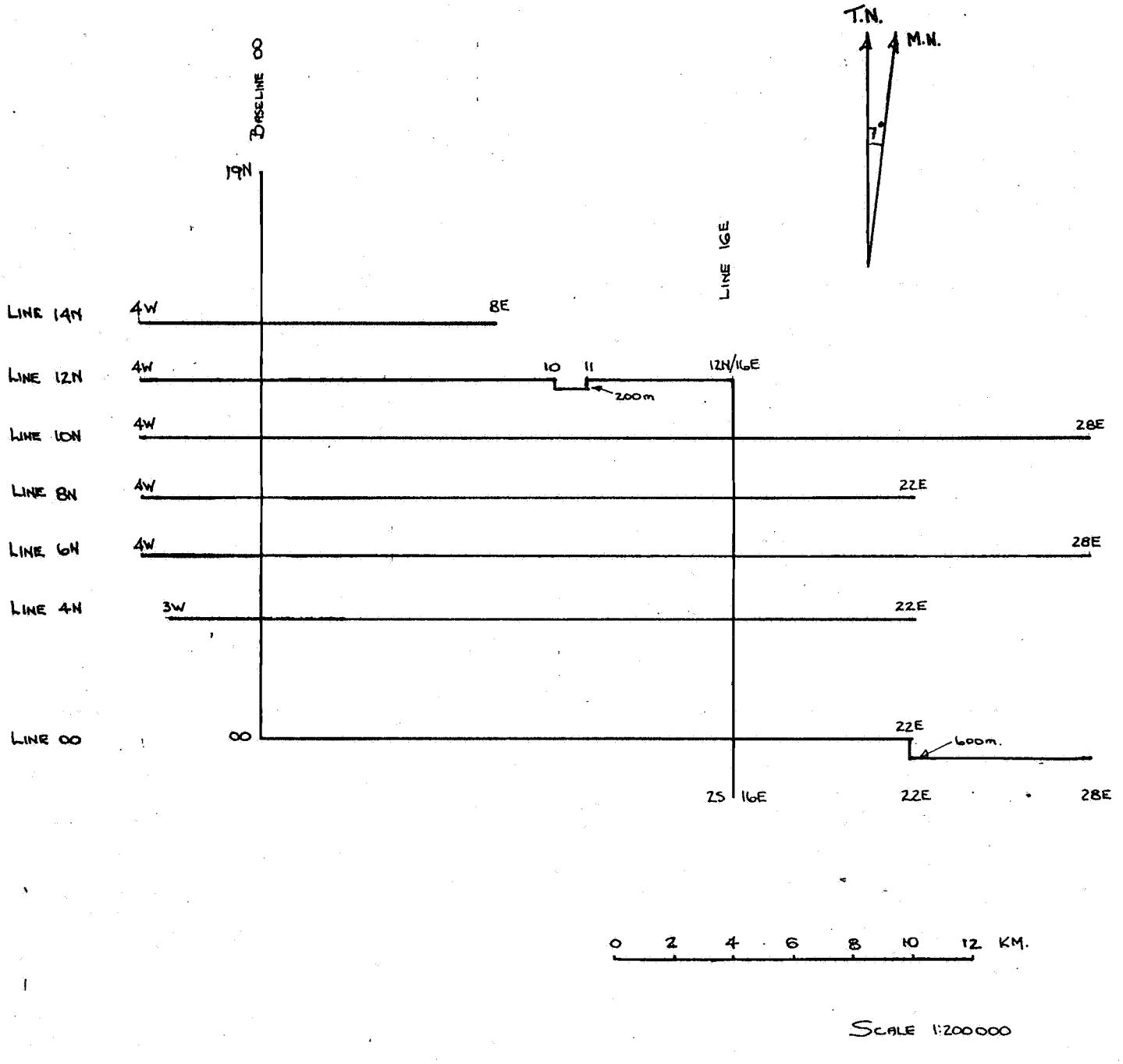
GRID PLAN E.L. 369

000017



0 2 4 6 8 10 12 KM.

SCALE 1:200000

DATE NOVEMBER/DECEMBER 1977.

JR

GRID MAP MAGNETICS
CONTOUR

CLIENT: B.H.P AREA: L. EYRE

LINE: 00 BASELINE (GOING SOUTH) DATE: 24/11

OPERATOR: T.H UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
B.1	57496	1 pm			BASE 1.
8600	57468				
8500	57520				
8400	57560				
8300	57597				
8200	57660				
8100	57708				
8000	57785				
7900	57828				
7800	57888				
7700	57951				
7600	58010				
7500	58063				
7400	58108				
7300	58139				
7200	58192				
7100	58236				
7000	58298				
6900	58364				
6800	5844				
6700	58531				

CLIENT: B.H.P AREA: L. Eyre

LINE: 00 BASELINE DATE: 24/11

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
6600	58631				
6500	58735				
6400	58835				
6300	58936				
6200	59012				
6100	59056				
6000	59092				
5900	59060				
5800	58894				
5700	58793				
5600	58657				
5500	58602				
5400	58619				
5300	58628				
5200	58592				
5100	58386				
5000	5892				
4900	5756				
4800	57447				
4700	57621				
4600	5766				

CLIENT: BHP AREA:

LINE: 00 BASELINE (GOING SOUTH) DATE: 24/11

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
4500	57697				
4400	57744				
4300	57789				
4200	57846				
4100	57909				
4000	57950				
3900	57961				
3800	57901				
BASE 1		5750 N. (1pm)			
	Contd.				

LINE 00 BASELINE

0000019

CLIENT: BHP AREA: L EYRE

LINE: 00 BASELINE '9/51 DATE: 25/11

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
BASE	1 57495				
3700	57829				
3600	57743				
3500	57724				
3400	57676				
3300	57665				
3200	57657				
3100	57600				
3000	57623				
2900	57572				
2800	57513				
2700	57420				
2600	57337				
2500	57266				
2400	57226				
2300	57[illegible]				
2200	57209				
2100	57184				
2000	57136				
1900	57389				
1800	57431				

CLIENT: BHP AREA: L EYRE

LINE: BASELINE (GOING SOUTH) DATE: 25/11

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
1700	57458				
1600	57505				
1500	57498				
1400	57499				
1300	57497				
1200	57498				
1100	57484				
1000	57452				
900	57362				
800	57241				
700	57123				
600	57036				
500	56928				
400	56863				
300	56804				
200	56768				
100	56748				
00N	56727				

CLIENT: AREA:

LINE: 00N/00E DATE: 25.

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
100E	56747				
200E	56732				
300E	56726				
400E	56711				
500E	56706				
600E	56723				
700E	56707				
800E	56715				
900E	56705				
999E	56734				
BASE	1 57479		(ym)		

contd.

LINE 00 BASELINE

000020

CLIENT: BHP AREA: L EYRE

LINE: 00 BASELINE (G NORTH) DATE: 27/11

OPERATOR: TN UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
BASE 2	57668				
8700N	57406				
8800N	57371				
8900	57346				
9000	57276				
9100	57236				
9200	57198				
9300	57174				
9400	57173				
9500	57213				
9600	57305				
9700	57385				
9800	57412				
9900	58032				
10000	58316				
10100	58542				
10200	58703				
10300	58873				
10400	58972				
10500	59061				
10600	59173				

CLIENT: BHP AREA:

LINE: BASELINE (G NORTH) DATE: 27/11

OPERATOR: TN UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
10700	59198				
10800	59185				
10900	59192				
11000	59212				
11100	59264				
11200	59310				
11350	59351				
11400	59380				
11500	59391				
11600	59367				
11700	59331				
11800	59283				
11900	59232				
12000	59225				
12100	59259				
12200	59275				
12300	59321				
12400	59314				
12500	59289				
12600	59254				
12700	59222				

CLIENT: AREA:

LINE: BASELINE (G NORTH) DATE: 27/11

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
12800	59184				
12900	59150				
13000	59113				
13100	59071				
13200	59015				
13300	58969				
13400	58916				
13500	58886				
13600	58820				
13700	58767				
13800	58707				
13900	58625				
14000	58540				
BASE 1	57641				

Cont.

LINE 00 BASELINE

000021

CLIENT: BHP AREA: L EYRE

LINE: 00 BASELINE (G NORTH) DATE: 27/11

OPERATOR: TH UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
BASE 2	57568				
8700N	57406				
8800N	57371				
8900	57324				
9000	57276				
9100	57236				
9200	57193				
9300	57154				
9400	57123				
9500	57213				
9600	57305				
9700	57380				
9800	57372				
9900	58030				
10000	58316				
10100	58351				
10200	58408				
10300	58473				
10400	58512				
10500	58561				
10600	58573				

CLIENT: BHP AREA:

LINE: BASELINE (G NORTH) DATE: 27/11

OPERATOR: TH UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
10700	59198				
10800	59185				
10900	59192				
11000	59212				
11100	59264				
11200	59310				
11350	59351				
11450	59380				
11550	59391				
11650	59367				
11750	59331				
11850	59283				
11950	59232				
12000	59225				
12100	59259				
12200	59275				
12300	59321				
12400	59314				
12500	59289				
12600	59254				
12700	59222				

CLIENT: AREA:

LINE: BASELINE (G NORTH) DATE: 27/11

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
12800	59184				
12900	59150				
13000	59113				
13100	59071				
13200	59015				
13300	58969				
13400	58916				
13500	58886				
13600	58820				
13700	58767				
13800	58707				
13900	58625				
14000	58540				
BASE 1	57671				

Cont'd.

LINE 00 BASELINE

000022

CLIENT: AREA:

LINE: 00 BASELINE (G.NORTH) DATE: 9/12

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
BASE 2	57682				
14100	58455				
14200	58414				
14300	58305				
14400	58377				
14500	58340				
14600	58336				
14700	58327				
14800	58378				
14900	58338				
15000	58344				
15100	58314				
15200	58322				
15300	58355				
15400	58332				
15500	58321				
15600	58306				
15700	58268				
15800	58220				
15900	58276				
16000	58219				

CLIENT: AREA:

LINE: BASELINE (GN) DATE: 9/12

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
16100	58248				
16200	58250				
16300	58228				
16400	58237				
16500	58245				
16600	58241				
16700	58235				
16800	58221				
16900	58195				
17000	58190				
17100	58176				
17200	58152				
17300	58191				
17400	58190				
17500	58189				
17600	58145				
17700	58108				
17800	58151				
17900	58111				
18000	58111				
18100	58112				

CLIENT: AREA:

LINE: BASELINE (GN) DATE: 9/12

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
18200	58090				
18300	58082				
18400	58017				
18500	58023				
18600	57941				
18700	57931				
18800	57931				
18900	57[illegible]				
19000	57870				
BASE 2	57065				
end of line					

000023

LINE 00 BASELINE

CLIENT: BHP AREA: L. Egypt

LINE: 00N (BASE) DATE: 21/12

OPERATOR: TH UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
B4	57792				
7100	57857				
7200	57841				
7300	57820				
7400	57818				
7500	57799				
7600	57792				
7700	57764				
7800	57752				
7900	57752				
8000	57704				
8100	57709				
8200	57651				
8300	57630				
8400	57664				
8500	57624				
8600	57634				
8700	57627				
8800	57626				
8900	57608				
9000	57619				

CLIENT: AREA:

LINE: 00N (9/EAST) DATE: 21/12

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
9100	57619				
9200	57631				
9300	57615				
9400	57634				
9500	57621				
9600	57618				
9700	57613				
9800	57614				
9900	57593				
10000	57600				
10100	57594				
10200	57593				
10300	57588				
10400	57557				
10500	57583				
10600	57570				
10700	57564				
10800	57563				
10900	57602				
11000	57516				

CLIENT: AREA:

LINE: 00N (9/EAST) DATE: 21/12

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
11100	57580				
11200	57557				
11300	57552		TRACK 9%		11350
11400					
11500					
11600					
11700	PM B4	57788	(00N 4N		21/2 Sheet)
11800					
11900					
12000					
2100					
2200					
2300					

LINE 00 EAST

000024

CLIENT: BHP AREA: [illegible]

LINE: 00N (E/EAST) DATE: 22/12

OPERATOR: JH UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
B4	57787				
11400	57534				
11500	57523				
11600	57493				
11700	57506				
11800	57479				
11900	57460				
2000	57447				
12100	57450				
12200	57[illegible]				
12300	57452				
12400	57[illegible]9				
2500	57480				
12600	57511				
12700	57533				
2800	57577				
12900	57[illegible]				
3000	57630				
13100	57667				
13200	57700				
3300	57734				

CLIENT: AREA:

LINE: 00N (E/EAST) DATE: 22/12

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
13400	57780				
13500	57807				
13600	57850				
13700	57871				
13800	57900				
13900	57916				
14000	57917				
14100	57995				
14200	57866				
14300	57905				
14400	57807				
14500	57760				
14600	57709				
14700	57681				
14800	57646				
14900	57606				
15000	57584				
	57298				

CLIENT: AREA:

LINE: DATE:

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS

LINE 00 EAST

520000

000025

CLIENT: BHP AREA: LEASE

LINE: 00N (S/EAST) DATE: 23/12

OPERATOR: JH UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
B4	57790				
15100E	57575				
15200	57550				
15300	57526				
15400	57506				
15500	57500				
15600	57496				
15700	57485				
15800	57486				
15900	57486				
16000	57490				
16100	57492				
16200	57487				
16300	57486				
16400	57472				
16500	57460				
16600	57439				
16700	57413				
16800	57369				
16900	57341				
17000	57306				
17100	57275				
17200	57241				
17300	57220				
17400	57201				

LINE:

CLIENT: AREA:

LINE: 00N (EAST) DATE: 23/12

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
17500	57179				
17600	57163				
17700	57148				
17800	57136				
17900	57135				
18000	57127				
18100	57123				
18200	57112				
18300	57103				
18400	57112				
18500	57110				
18600	57131				
18700	57124				
18800	57132				
18900	57147				
19000	57158				
19100	57178				
19200	57190				
19300	57200				
19400	57220				
19500	57253				
19600	57230				
19700	57226				
19800	57313				

LINE 00

CLIENT: AREA:

LINE: DATE:

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
19900	57388				
20000	57377				
34	57795				

000026

Base 57811 #2

CLIENT: THE BHP Co Ltd AREA:
LINE: 00N DATE: 31-12-77
OPERATOR: PCR / GRAU UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
Base	57800	735			
20000E	57375				Peg
201	57400				
202	57435				
203	57484				
204	57505				
205	57550				
206	57570				
207	57610				
208	57633				Gully
209	57645				Gully.
21000	57670				Peg
211	57680				
212	57690				
213	57717				
214	57740				Neales'
215	57740				Flood plain + creek.
216	57720				
217	57743				
218	57756				

CLIENT: AREA:
LINE: 00 + 600S DATE:
OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
219	57738				Neales' Peg
22000	57751				
221	57687				offset to 600S line to avoid large water holes
222	57693				
223	57693				
224	57697			57697	
225	57721			57721	
226	57721	—		57727	
227	57727				
228	57743			57743	
229	57753			57753	
23000	57748				
231	57755				
232	57760				
233	57790				
234	57810	12100			
235	57797				
236	57815				
237	57807				
238	57825				
239	57817				

CLIENT: AREA:
LINE: DATE:
OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
24000	57823				
241	57823				
242	57835				
243	57840				
244	57840				
245	57850				
246	57846				CREEK
247	57850				
248	57880				
249	57850				
25000	57855				
251	57870				
252	57870				
253	57880				
254	57880				
255	57890				
256	57888				
257	57907				
258	57895				
259	57903				
26000	57915				

LINE 00.

000027

CLIENT: The BHP Co Ltd AREA:

LINE: (600S) LINE 00 DATE: 31/12/77

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
26100E	57 890				
262	57 906				
263	57 891				
264	57 897				
265	57 875				
266	57 878				
267	57 874				
268	57 868				
269	57 849				
27000E	57 873				
271	57 869				
272	57 839				
273	57 824				
274	57 815				
275	57 816				
276	57 811				
277	57 808				
278	57 796				
279	57 798				
28000	57 791				
BASE 4	57 816				

CLIENT: AREA:

LINE: DATE:

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS

CLIENT: AREA:

LINE: DATE:

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS

LINE 00

000028

CLIENT: BHP AREA: L Eyre

LINE: 00 BASELINE (9/5) DATE: 25/11

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
BASE	1 57495				
3700	57529				
3600	57543				
3500	57524				
3400	57676				
3300	57665				
3200	57657				
3100	57649				
3000	57633				
2900	57512				
2800	57513				
2700	57420				
2600	57327				
2500	57266				
2400	57226				
2300	57216				
2200	57249				
2100	57284				
2000	57236				
1900	57229				
1800	57431				

CLIENT: BHP AREA: L EYRE

LINE: BASELINE (GONS SOUTH) DATE: 25/11

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
1700	57458				
1600	57505				
1500	57499				
1400	57499				
1300	57497				
1200	57498				
1100	57484				
1000	57452				
900	57362				
800	5791				
700	57123				
600	57036				
500	56928				
400	56863				
300	56804				
200	56768				
100	56748				
000	56717				

CLIENT: AREA:

LINE: 00N/00E DATE: 25

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
100E	56747				
200E	56732				
300E	56726				
400E	56711				
500E	56706				
600E	56723				
700E	56707				
800E	56715				
900E	56705				
1000E	56734				
BASE	1 57479	1pm			
contd.					

LINE 00 BASELINE

000029

CLIENT: B.H.P. AREA: L. Eyre

LINE: 4000N (Going West) DATE: 12/12

OPERATOR: JA UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
BASE 4	57771				
100W	58053				
200W	58136				
300W	58244				
400W	58350				
500W	58402				
600W	58592				
700W	58670				
800W	58751				
900W	58825				
1000W	58900				
1100W	58973				
1200W	59082				
1300W	59221				
1400W	59355				
1500W	59556				
1600W	59705				
1700W	59803				
1800W	59909				
1900W	57779				
2000W	57678				
2100W	57641				

CLIENT: 6000N (G. west) AREA:

LINE: 4000N (G. West) DATE: 12/12

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
2100	57601				
2200	57570				
2300	57556				
2400	57560				
2500	57554				
2600	5754				
2700	57514				
2800	57508				
2900	57402				
3000	57483W	—	SWAMP.		
	LINE		6000N (G. West)		
00	59082				
100W	58902				
200W	58644				
300W	58554				
400W	58402				
500W	58423				
600W	58311				
700W	58254				
800W	58610				

CLIENT: AREA:

LINE: 6000N (Going West) DATE: 12/12

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
1000W	58709				
1100W	58754				
1200W	58779				
1300W	58754				
1400W	58747				
1500W	58709				
1600W	58692				
1700W	58648				
1800W	58568				
1900W	58512				
2000W	58453				
BL	57710				
			Contd		

LINE 4000N

030000

CLIENT: The B.H.P Co Ltd AREA: L. Eyre

LINE: 4000N DATE: 29/12/77

OPERATOR: PCR UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
Δ4	57803	0645			
200N	58177	508			
100N	58100				
	57997				
00	57778				
100	57859				
2	57735				
3	57627				
4	57515				
5	57415				
6	57341				
7	57303				
8	57304				
9	57344				
1200E	57406				
11	57476				
12	57532				
13	57587				
14	57614				
15	57632	530			
16	57624				

00 ditched

CLIENT: AREA:

LINE: DATE:

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
1700E	57611				
18	57599				
19	57582				
2000E	57590				
21	57596				
22	57602				
23	57611				
24	57622				
25	57619				
26	57608				
27	57608				
28	57585				
29	57573				
3000	57568				
31	57554				
32	57538				
33	57531				
34	57527				
35	57508				
36	57484				
37	57464				

CLIENT: AREA:

LINE: DATE:

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
3800E	57440				
39	57409				
4000E	57389				
41	57351				not same poon
42	57328				as repeat rdg
4300E	57305				
BOOSE	57802	625			

LINE 4000N

0000031

CLIENT: BHP AREA: L. Eyre

LINE: 4000N (G. West). DATE: 2/1/2

OPERATOR: TH UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
6400	5699.				
5390	57012				
5380	57020				
5370	52031				
5400	57045				
5360	57076				
5350	57095				
5340	57[illegible]				
5330	57[illegible]				
5320	[illegible]				
5310	57156				
5300	57145				
5290	57[illegible]				
5280	57[illegible]				
5270	57[illegible]				
5260	57[illegible]				
5250	57[illegible]				
5240	57[illegible]				
5230	57[illegible]				
5220	57[illegible]				
5210	57[illegible]				
5200	57[illegible]				
5190	57218				
5180	57[illegible]				
5170	57[illegible]				
5160	57252				
5150	57[illegible]				

CLIENT: AREA:

LINE: DATE:

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
4150	5734				
4100	5735				
4050					
4000					
Abandon	5[illegible]98				

CLIENT: AREA:

LINE: DATE:

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS

LINE 4000N

000032

CLIENT: BHP AREA: [illegible]

LINE: 4W66/CA:7 DATE: 2/10

OPERATOR: TH UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
6500E	57000				
6600	57004				
6700	57004				
6800	57003				
6900	57010				
7000	57014				
7100	57007				
7200	57022				
7300	57026				
7400	57033				
7500	57044				
7600	57050				
7700	57060				
7800	57083				
7900	57091				
8000	57111				
8100	57113				
8200	57134				
8300	57160				
8400	57176				
8500	57214				

CLIENT: AREA:

LINE: DATE:

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
8632	57247				
8700	57268				
8800	57306				
8900	57357				
9000	57375				
9100	57422				
9200	57431				
9300	57494				
9400	57493				
9500	57537				
9600	57564				
9700	57596				
9800	57613				
9900	57636				
10000	57672				
10100	57724				
10200	57771				
10300	57819				
10400	57869				
10500	57921				
10600	57991				

CLIENT: AREA:

LINE: DATE: 2/10

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
10700	58053				
10800	58106				
10900	58176				
11000	58237				
11100	58278				
11200	58334				
11300	58363				
11400	58387				
11500	58409				
11600	58460				
11700	58408				
11800	58404				
11900	58416				
12000	58441				
12100	58451				
12200	58474				
12300	58530				
12400	58588				
12500	58658				
12600	58752				
12700	58867				

LINE 4000N

000033

CLIENT: BHP AREA: L. Eyre

LINE: 4N (EAST) DATE: 21/2

OPERATOR: TH UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
12800	58994				
12900	59119				
13000	59225				
13100	59336				
13200	59391				
13300	59411				
13400	59395				
13500	59333				
13600	59233				
13700	59150				
13800	59025				
13900	58931				
14000	58894				
14100	58815				
14200	58751				
14300	58619				
14400	58623				
14500	58621				
14600	58605				
14700	58596				
14800	58600				

CLIENT: AREA:

LINE: 4N (EAST) DATE: 21/2

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
14900	58607				
15000	58638				
15100	58666				
15200	58704				
15300	58745				
15400	58790				
15500	58822				
15600	58880				
15700	58905				
15800	58933				
15900	58966				
16000	58990				
16100	59080				
16200	59009				
16300	58980	— West Side of Peaks OK			

CLIENT: AREA:

LINE: DATE:

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS

LINE 4000N

000034

CLIENT: BHP AREA: L. Eyre

LINE: 40000 N DATE:

OPERATOR: G RAU UNIT NO: CP20 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
10000W/10000E	57963	9115			
N6300E	58990	9.40			NEALS
16400	995	9.45			RIVER
16500	980	9.50			
16600	949	9.53			
16700	930	9.58			
16800	880	1000			
16900	840	10.03			
17000	792	10:05			
17100	724	10.08			
17200	656	10.10			
17300	573	10.12			
17400	500	10.14			
17500	402	10.16			
17600	334	10.18			
17700	225	10.19			
17800	154	10.20			
17900	070	10.21			
18000E	004	10.22			
18100	57924	10.23			
18200	57876	10.24			

CLIENT: AREA:

LINE: DATE:

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
18300E	57840	10.25			
18400	810	10.26			
18500	776	10.28			18550 TRACK
18600	754	10.29			
18700	730	10.30			
18800	712	10.31			
18900	697	10.32			
19000E	700	10.33			
19100	685	10.35			
19200	680	10.36			
19300	664	10.38			
19400	662	10.39			
19500	666	10.41			
19600	620	10.42			
19700	635	10.43			
19800	646	10.44			
19900	610	10.45			
20000	636	10.46			
20100	645	10.47			
20200	650	10.49			
20300	628	10.51			

CLIENT: AREA:

LINE: DATE:

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
20400E	57637	10.53			
20500	637	10.54			
20600	607	10.56			
20700	630	10.57			
20800	605	10.58			
20900	610	10.59			
21000	617	11.00			
21100	600	11.01			
21200	620	11.03			
21300	614	11.04			
21400	620	11.05			
21500	623	11.07			
21600	622	11.08			
21700	624	11.09			
21800	633	11.11			
21900	649	11.13			
22000E	634	N.15			END OF LINE

LINE 40000N

000035

CLIENT: B.A.P. AREA: Eyre

LINE: 4000N (Going West) DATE: 12/12

OPERATOR: TR UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
BASE 4	57791				
100W	58053				
200W	58136				
300W	58244				
400W	58350				
500W	58492				
600W	58592				
700W	58679				
800W	58751				
900W	58825				
1000W	58930				
1100W	58919				
1200	58871				
1300	58795				
1400	58855				
1500	58305				
1600	58093				
1700	57919				
1800	57779				
1900	57678				
2000	57641				

CLIENT: BAP AREA: Eyre

LINE: 4000N (Going West) DATE: 12/12

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
2100	57601				
2200	57570				
2300	57556				
2400	57560				
2500	57554				
2600	5754.				
2700	57514				
2800	57508				
2900	57497				
3000	57483W	—	SWAMP.		
	LINE	6000N (G	West)		
00	59082				
100W	58810				
200W	58644				
300W	58555				
400W	58499				
500W	58450				
600W	58483				
700W	58475				
800W	58554				
900W	58610				

CLIENT: AREA:

LINE: 6000N (Going West) DATE: 12/12

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
1000W	58709				
1100W	58754				
1200W	58777				
1300W	58754				
1400W	58747				
1500W	58709				
1600W	58692				
1700W	58648				
1800W	58568				
1900W	58512				
2000W	58453				
BL	57710				
			Contd		

LINE 4000N

000036

PART 2

CLIENT: West AREA:

LINE: 6000N (5/[illegible]) DATE: 12/12

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
B4	57793				
2100W	58409				
2200W	58324				
2300W	58253				
2400W	58109				
2500W	58099				
2600W	58087				
2700	58022				
2800	57906				
2900	5780				
3000	57692				
3100	5762				
3200	57548				
3300	57514				
3400	57507				
3500	57500				
3600	57504				
3700	57487				
3800	57515				
3900	57483				
4000	57420				

B4 - 57785

CLIENT: AREA:

LINE: DATE:

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS

CLIENT: AREA:

LINE: DATE:

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS

LINE 6000N

000037

CLIENT: B.H.P. AREA: L. Eyre NEALES RIVER

LINE: 6000 N DATE: 12.12.77

OPERATOR: PCR UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
4 BASE	57770	18.05			
0100E	59454				
200	59740				
300	59860				
400	59825				
500	59656				
600	59[illegible]3				
700	59[illegible]0				
800	59304				
900	59[illegible]3				
1000E	58[illegible]81				
1100	58741				
1200	58118				
1300	57837				
1400	57717				
1500	57633				
1600	57594				
1700	57558				
1800	57591				
1900E	57534	1935			
A4 BASE	57781	2055			

CLIENT: B.H.P. AREA: L. Eyre NEALES RIVER

LINE: 6000 North DATE: 12.12.77

OPERATOR: P.C.R. UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
A4	57768	0500			
3400E	57401				
3300	57423				
3200	57425				
3100	57429				
3000E	57419				
2900	57447				
2800	57448				
2700	57436				
2600	57427				
2500	57485				
2400	57427				
2300	57512				
2200	57440				
2100	57408				
2000E	57495				
A4	57767				

CLIENT: AREA:

LINE: DATE:

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS

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LINE 6000N

0000333

CLIENT: BHP AREA: L. Eyre

LINE: 6000N DATE: 13.12.77

OPERATOR: PCR UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
A4 Base	57790				
3500E	57389	0930			
36	57372				
37	57367				
38	57355				
39	57349				
4000E	57353				
41	57343				
42	57351				
43	57365				
44	57362				
45	57397				
46	57397				
47	57434				
48	58281				
49	57499				
5000E	57593				
51	57595				
52	57615				
53	57667				
54	57739				

CLIENT: AREA:

LINE: DATE:

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
5500E	57814				
56	57930				
57	57987				
58	58049				
59	58128				
6000E	58195				
61	58260				
62	58322				
63	58335				
64	58367				
65	58408				
66	58445				
67	58557				
68	58574				
69	58548				
7000E	58570				
71	58560				
72	58551				
73	58495				
74	58436				
75	58390				

CLIENT: AREA:

LINE: DATE:

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
7600E	58330	—			
77	58280				
78	58140				
79	58091				
8000E	57919	1515			
A4 Base	57791	16.10			

LINE 6000N

000039

CLIENT: BHP AREA: L. Eyre

LINE: 6000N DATE: 14.12.77

OPERATOR: PCR UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
Δ4 BASE	57781	6.45			
8100E	57944				
82	57889				
83	57834				
84	57777				
85	57726				
86	57678				
87	57639				
88	57580				
89	57548				
9000E	57508				
91	57487				
92	57468				
93	57460				
94	57443				
95	57443				
96	57434				
97	57443				
98	57449				
99	57462				
10000E	57482				

CLIENT: AREA:

LINE: DATE:

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
10100E	57487				
102	57248				
103	58048				
104	57550				
105	57560				
106	57573				
107	57591				
108	57577				EDGE OF CREEK
10900E	57635	1210			
11000	—				
Δ4 BASE	57790	1500			
		Cont'd			

CLIENT: AREA:

LINE: DATE:

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS

LINE 6000N

000040

GP.70

CLIENT: The BHP Co Ltd. AREA: L. Eyre
LINE: 6000N DATE: 31-12-77
OPERATOR: P.R. UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
Base 4	57812	825			-
11100E	57668	1045			CK.
112	57681				
113	57689				-
114	57693				
115	57695				
116	57704				
117	57712				
118	57730				
119	57735				
12000E	57744				peg.
121	57765				
122	57778				
123	57777				
124	57803				
125	57802				
126	57830				
127	57848				
128	57856				
129	57886				

CLIENT: AREA:
LINE: DATE:
OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
13000E	57912				peg.
131	57935				
132	57948				
133	57972				
134	57997				
135	58031				
136	58034				
137	58074				
138	58096				
139	58119				
14000E	58142				peg.
141	58165				
142	58187				
143	58212				
144	58240				
145	58252				CK on flag
146	58280				"
147	58288				"
148	58293				"
149	58343				"
15000E	58382				peg "

CLIENT: AREA:
LINE: DATE:
OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
15100	58422				"
152	58512				CK
153	58519				top of bank.
154	58643				
155	58730				
156	58819				
157	58908				
158	58986				Crosses 16000E line
159	59059				
16000	59101				
161	59126				
162	59124				
163	59120				
164	59103				
165	59085				
166	59068				
167	59045				
168	59033				
169	59022				
17000E	59015				

LINE 6000N

0000041

CLIENT: The B.H.P Co Ltd AREA: L. Eyre

LINE: 6000N DATE: 30-12-77

OPERATOR: P C R UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
17100	59013				
172	59024				
173	59026				
174	59037				
175	59052				
176	59056				
177	59062				
178	59062				
179	59055				
18000	59034				Peg
181	58985				
182	58934				
183	58857				
184	58763				
185	58670	12[18]			
186	58583	1245			
187	58472				
188	58373				
189	58289				
19000	58216				
191	58144				

CLIENT: AREA:

LINE: DATE:

OPERATOR: B RAU UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
192	58074				
193	58026				
194	57970				
195	57930				
196	57892				
197	57871				
198	57837				
199	57808				
20000	57781				
201	57755				
202	57738				
203	57727				
204	57708				
205	57702				
206	57681				
207	57662				
208	57656				
209	57647				
21000	57641				
211	57631				
212	57634				

CLIENT: AREA:

LINE: DATE:

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
21300	57628				
214	57627				
215	57623				
216	57626				
217	57624				
218	57618				
219	57619				
22000	57627				
221	57629				
222	57625				
223	57626				
224	57627				
225	57625				
226	57627				
227	57634				
228	57646				
229	57633				
23000	57640				Peg
231	57628				
232	57641				
23300E	57639				

LINE 6000N

000042

CLIENT: THE BHP Co Ltd. AREA: L. Eyre.
LINE: 6000N DATE: 30-12-77
OPERATOR: B. Rau UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
23400E	57643				
235	57644				
236	57661				
237	57665				
238	57662				
239	57659				
24000E	57653				Peg
241	57662				
242	57665				
243	57674				
244	57684				
245	57691				
246	57705				
247	57735				
248	57727				
249	57731				
25000E	57733				Peg
251	57729				
252	57729				
253	57731				
254	57738				

CLIENT: AREA:
LINE: DATE:
OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
25500E	57742				
256	57743				
257	57750				
258	57756				
259	57751				
26000E	57744				Peg
261	57742				
262	57735				
263	57731				
264	57732				
265	57720				
266	57718				
267	57726				
268	57732				
269	57725				
27000E	57721				Peg
271	57713				
272	57705				
273	57707				
274	57698				
275	57702				

CLIENT: AREA:
LINE: DATE:
OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
276	57691				
277	57692				
278	57688				
279	57679				
28000E	57694				
4 8N/00E	57800	1635			
BPBEA					

LINE 6000N

000043

CLIENT: BHP Co Ltd AREA: [illegible]

LINE: 8000 N 7S/W87) DATE: 6/12

OPERATOR: T.M. UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
BASE 2	57685				
100W	57732				
200W	57662				
300W	57597				
400W	57574				
500W	57533				
600W	57508				
700W	57501				
800W	57503				
900W	57504				
1000W	57504				
1100	57509				
1200	57498				
1300	57480				
1400	57470				
1500	57462				
1600	57431				
1700	57431				
1800	57480				
1900	57514				
2000W	57512				

CLIENT: AREA:

LINE: 8000N/S (West) DATE: 6/12

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
2100W	57591				
2200	57647				
2300	57729				
2400	57845				
2500	57979				
2600	58190				
2700	58281				
2800	58331				
2900	58361				
3000	58340				
3100	58224				
3200	58240				
3300	58184				
3400	58120				
3500	58015				
3600	58023				
3700	57970				
3800	57924				
3900	57921				
4000W	57839				
BASE 2	57658				

CLIENT: AREA:

LINE: DATE:

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
	Contd.				

LINE 8000N

000044

CLIENT: BHP Gold AREA: Eagle

LINE: 8000 N DATE: 9-12-77

OPERATOR: P. C. R. UNIT NO: DATE:

STATION	READ'G 2	TIME	CORR'N	READ'G 3	REMARKS
5000E	58103	13·00			
4900E	58163				
4800E	58206				
4700E	58291				
4600E	58262				
4500E	58295				
4400E	58295				
4300E	58316				
4200E	58340				
4100E	58396				
4000E	58440				
3900E	58485				
3800E	58521				
3700E	58555				
3600E	58594				
3500E	58631				
3400E	58681				
3300E	55727				
3200E	58809				

CLIENT: AREA:

LINE: DATE:

OPERATOR: UNIT NO: DATE:

STATION	READ'G 2	TIME	CORR'N	READ'G 3	REMARKS
3100E	58908				
3000E	59012				
2900E	59135				
2800E	59242				
2700E	59355	14·00			
2600E	59425				
2500E	59483				
2400E	59518				
2300E	59522				
2200E	59517				
2100E	59519				
2000E	59534				
1900E	59547				
1800E	59556				
1700E	59557				
1600E	59535				
1500E	59497				
1400E	59424				
1300E	59318				
1200E	59210				
1100E	59087				

CLIENT: AREA:

LINE: DATE:

OPERATOR: UNIT NO: DATE:

STATION	READ'G 2	TIME	CORR'N	READ'G 3	REMARKS
1000E	58945				
900E	58824				
800E	58725				
700E	58610				
600E	58505				
500E	58411				
400E	58302				
300E	58171				
200E	58048				
100E	57940				
00	57710				

LINE 8000N

000045

CLIENT: BHP AREA: L. Eyre

LINE: 00N (Going EAST) DATE: 20/12

OPERATOR: TH UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
84	57296				
100E	56761				
200E	56770				
300E	56787				
400E	56768				
500E	56756				
600E	56729				
700E	56685				
800E	56707				
900E	56685				
1000E	56669				
1100	56664				
1200	56666				
1300	56668				
1400	56666				
1500	56680				
1600	56670				
1700	56703				
1800	56807				
1900	56921				
2000	57011				

CLIENT: AREA:

LINE: 00N (Going EAST) DATE: 20/12

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
3100	57276				
3200	57460				
3300	57673				
3400	57877				
3500	58054				
3600	58314				
3700	58485				
3800	58643				
3900	58857				
4000	59007				
4100	59140				
4200	59233				
4300	59355				
4400	59532				
4500	59516				
4600	59701				
4700	59850				
4800	59903				
4900	59138				
5000	59058				
5100	58973				

CLIENT: AREA:

LINE: 00N (Going East) DATE: 20/12

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
5200	58866				
5300	58774				
5400	58693				
5500	58617				
5600	58551				
5700	58486				
5800	58430				
5900	58392				
6000	58336				
6100	58289				
6200	58229				
6300	58157				
6400	58120				
6500	58067				
6600	58017				
6700	57978				
6800	57943				
6900	57911				
7000	57881				
	/				
B4		57888			

LINE 00EAST

000046

CLIENT: ? BHP AREA: L. Eyre

LINE: 8000N DATE: 10/12/??

OPERATOR: P C R UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
14 00 BASE	57815				
10000 E	57461	1400			
9900	57481				
9800	57494				
9700	57491				
9600	57516				
9500	57511				
9400	57536				
9300	57540				
9200	57550				
9100	57554				
9000	57553				
8900	57556				
8800	57555				
8700	57560				
8600	57558				
8500	57569				
8400	57561				
8300	57578				
8200	57590				
8100	57597				
8000	57622				

CLIENT: AREA:

LINE: DATE:

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
7900	57643				
7800	57667				
7700	57713				
7600	57740				
7500	57784	1500			
7400	57816				
7300	57866				
7200	57900				
7100	57930				
7000	57940				
6900	57972				
6800	57995				
6700	58011				
6600	58035				
6500	58062				
6400	58081				
6300	58097				
6200	58127				
6100	58104				
6000	58072				
5900	58041				

CLIENT: AREA:

LINE: DATE:

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
5800	58054	=			
5700	58038				
5600	58021				
5500	58001				
5400	58016				
5300	58023				
5200	58038	1600			
5100	58051				
5000	58063	1608			
14 BASE	57795				

LINE 8000N

000047

CLIENT: BHP AREA:
LINE: 8000N DATE:
OPERATOR: G Ram. UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
Δ4 BASE	57780	1650			
10000E	57470				
101	475				
102	468				
103	450				
104	459				
105	453				
106	470				
107	493				
108	524				
109	520				
11000E	57548				
111	555				
112	550				
113	570				
114	585				
115	572				
116	580				
117	585				
118	600				
119	612				

CLIENT: AREA:
LINE: DATE:
OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
12000E	57604				
121	57608				
122	57605				
123	57590				
12480E	57566				
Δ4 BASE	57802	1925			

CLIENT: AREA:
LINE: DATE:
OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS

000048

LINE 8000N

CLIENT: [illegible] AREA: Lease

LINE: 8000N DATE: 30/12/77

OPERATOR: UNIT NO: LAT:

STATION	READING 1	TIME	CORR'N	READING 2	REMARKS
15600E	57815	13:20			
.1	780	13:22			
.2	780	13:23			
.3	760	13:24			
.4	746	13:26			
.5	720	13:27			
.6	710	13:28			
15000E	57703	13:29			
.9	674	13:30			
.8	654	13:32			
.7	644	13:33			
.6	604	13:34			
.5	596	13:35			
.4	578	13:37			
.3	558	13:38			
.2	526	13:39			
.1	509	13:40			
14000E	57475	13:41			
.9	432	13:42			
.8	452	13:43			
.7	415	13:45			

CLIENT: AREA:

LINE: 8000N DATE:

OPERATOR: UNIT NO: LAT:

STATION	READING 1	TIME	CORR'N	READING 2	REMARKS
13600E	57420	13:47			
.5	416	13:49			
.4	411	13:50			
.3	423	13:51			
.2	414	13:53			
.1	423	13:54			
13000E	57442	13:55			
.9	441	13:56			
.8	466	13:58			
12-7	488	13:59			
12-6	515	14:01			
12.5	57536	14:02			
Δ 10N/10E	57954	14:20			
Δ 4.8N/0E	57804	15:00			

CLIENT: AREA:

LINE: 8000N DATE:

OPERATOR: UNIT NO: LAT:

STATION	READING 1	TIME	CORR'N	READING 2	REMARKS

LINE 8000N

C000049

CLIENT: B.H.P. AREA: L. Eyre.

LINE: 8000N DATE: 30.12.77.

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
22000E	57554	11.50			
.9	564	11.51			
.8	574	11.52			
.7	610	11.53			
.6	620	11.54			
.5	633	11.55			
.4	634	11.56			
.3	637	11.57			
.2	628	11.59			
.1	633	12.01			
21000E	665	12.03			
.9	684	12.05			
.8	707	12.06			
.7	720	12.07			
.6	733	12.09			
.5	770	12.11			
.4	770	12.12			
.3	701	12.13			
.2	810	12.15			
.1	860	12.16			
20000E	890	12.17			

CLIENT: AREA:

LINE: 8000N DATE:

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
19900E	57915	12.18			
.8	878	12.20			
.7	947	12.22			
.6	988	12.24			
.5	58058	12.25			
.4	085	12.27			
.3	115	12.29			
.2	135	12.31			
.1	168	1232			TRUCK.
19000E	192	12.33			
.9	220	12.35			
.8	260	12.37			
.7	300	12.39			
.6	330	1240			
.5	369	12.41			
.4	408	12.43			
.3	430	12.44			
.2	473	12.45			
.1	512	1246			
18000E	534	1247			
.9	570	1248			

CLIENT: AREA:

LINE: 8000N DATE:

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
17800E	58582	12.49			
.7	596	12.50			
.6	596	12.51			
.5	585	12.52			
.4	572	12.54			
.3	532	12.56			
.2	487	12.58			
.1	430	12.59			
17000E	372	13.00			
.9	299	13.04			
.8	254	13.05			
.7	196	13.07			
.6	145	13.08			
.5	081	13.10			
.4	046	13.11			
.3	58000	13.12			
.2	57952	13.13			
.1	919	13.14			
16000E	874	13.16			
15.9	849	13.17			
15.8	57830	13.19			

000050

LINE 8000N

CLIENT: B.H.P. AREA: Mt. [illegible]

LINE: 12000N (Grid 2 West) DATE: 3/12

OPERATOR: T.H. UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
BASE 2	57640				
1800E	5[illegible]				
1700E	58824				
1200E	58724				
1300E	58671				
1400E	58648				
1500E	58667				Too Boggy
	LINE 10000N				
100W	58068				
200W	57784				
300W	57601				
400W	57491				
500W	57452				
600W	57430				
700W	57399				
800W	57366				
900W	57326				
1000W	57261				
1100W	57201				
1200W	57157				
1300W	57116				

CLIENT: AREA:

LINE: 10000N (Grid 2 East) DATE: 3/12

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
1400W	57098				
1500W	57097				
1600W	57088				
1700W	57102				
1800W	57114				
1900W	57126				
2000W	57150				
2100W	57182				
2200W	57237				
2300W	57287				
2400W	57349				
2500W	57426				
2600W	57523				
2700W	57627				
2800W	57721				
2900W	57806				
3000W	57875				
3100W	57904				
3200W	57932				
3300W	57940				
3400W	57926				

CLIENT: B.H.P. AREA:

LINE: 10000N (Grid 2 West) DATE: 3/12

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
3500W	57923				
3600W	57908				
3700W	57871				
3800W	57848				
3900W	57823				
4000W	57803				
BASE 2	57658				

000051

LINE 10000N

CLIENT: B.H.P. AREA: W. EYRE

LINE: 10000N (G. EAST) DATE: 4/12

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
BASE 2	57670				
100E	58476				
200E	58761				
300E	58739				
400E	59081				
500E	59190				
600E	59240				
700E	59227				
800E	59330				
900E	59371				
1000E	59279				
1100E	59171				
1200E	59076				
1300E	58900				
1400E	58830				
1500E	58820				
1600E	58883				
1700E	58836				
1800E	58842				
1900E	58889				
2000E	58976				

CLIENT: AREA:

LINE: 10000N (Going E) DATE: 4/12

OPERATOR: TH UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
2100E	58978				
2200E	58966				
2300E	58840				
2400E	58653				
2500E	58500				
2600E	58340				
2700E	58371				
2800	58412				
2900	58429				
3000	58320				
3100	58705				
3200	58700				
3300	58779				
3400	59733				
3500	59538				
3600	59546				
3700	58459				
3800	58334				
3900	58320				
4000	58253				
4100	58274				

CLIENT: AREA:

LINE: 10000N (Going E) DATE: 4/12

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
4200	58279				
4300	58320				
4400	58358				
4500	58442				
4600	58526				
4700	58563				
4800	58635				
4900	58647				
5000	58607				
BASE 2	57660				
					cond:

LINE 10000N

CLIENT: B.H.P. AREA: L Eyre

LINE: 10000N (GOING E) DATE: 5/12

OPERATOR: TH UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
BASE 2	57670				
5150E	58581				
5200E	58521				
5350	58457				
5450	58369				
5500	58282				
5650	58217				
5750	58140				
5800	58071				
5900	58022				
6050	57950				
6150	57903				
6200	57838				
6350	57795				
6450	5774				
6550	57706				
6650	57631				
6700	5764				
6850	576 8				
6950	57553				
7000	57569				

CLIENT: AREA:

LINE: 10000N (G. EAST) DATE: 5/12

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
7100	57593				
7200	57589				
7300	57589				
7400	57598				
7500	57593				
7600	57592				
7700	57593				
7800	57591				
7900	57607				
8000	57604				
8100	57595				
8200	57625				
8300	57628				
8400	57644				
8500	57638				
8600	57632				
8700	57666				
8800	57693				
8900	57675				
9000	57732				
9100	57722				

CLIENT: B.H.P AREA: L Eyre

LINE: 10000N (G/E) DATE: 5/12

OPERATOR: TH UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
9200	57777	—			
9300	57795				
9400	57816				
9500	57840				
9600	57859				
9700	N BANK of Nealie				River
9800					
Base 2		57638			
	cont'd				

LINE 10000N

000053

CLIENT: BHP AREA: Lake Eyre

LINE: 10000N (6 East) DATE: 14/12

OPERATOR: TH UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
B'3960	5797				
9760E	57906				
9560E	57[illegible]3				
[illegible]40E	52038				
10960E	57949				
[illegible]160	57[illegible]55				
[illegible]360	57[illegible]50				
[illegible]560	57[illegible]47				
[illegible]760	57[illegible]53				
[illegible]960	57[illegible]53				
[illegible]	57[illegible]55				
[illegible]	57950				
[illegible]	57764				
[illegible]	57[illegible]52				
[illegible]	58008	←			
[illegible]	[illegible]038				
[illegible]	[illegible]094				
[illegible]	58164				
[illegible]	55249				
[illegible]	58338				
[illegible]	58443				
[illegible]	58517				
[illegible]	[illegible]648				

CLIENT: AREA:

LINE: 10000E DATE: 14/12

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
11900E	58750				
12000E	58786				
12100	58851				
12200	58867				
12300	58858				
12400	58851				
12500	58814				
12600	58774				
12700	58741				
12800	58703				
12900	58661				
13000	58620				
13100	58612				
13200	58[illegible]				
13300	58578				
13400	58566				
13500	58564				
13600	58553				
13700	58553				
13800	58537				
13900	58529				
14000	58516				

CLIENT: AREA:

LINE: 10000N (6 East) DATE: 14/12

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
14100E	58505				
14200	58491				
14300	58477				
14400	58464				
14500	58426				
14600	58438				
14700	58429				
14800	58408				
14900	58396				
15000	58398				
15100	58384				
15200	58366				
15300	58350				
15400	58340				
15500	58321				
15600	58319				
15700	58311				
15800	58302				
15900	58291				
6600E	58259				
16700	57900				

LINE 10000N

000054

CLIENT: B.H.P. AREA: Eyre

LINE: 10800N (Going East) DATE: 15/12

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
BL 10000	57948				
10100E	58251				
10200	58259				
10300	58244				
10400	58225				
10500	58211				
10600	58205				
10700	58200				
10800	58198				
10900	58205				
11000	58203				
11100	58201				
11200	58194				
11300	58192				
11400	58182				
11500	58				
11600	58154				
11700	58130				
11800	58149				
11900	58153				
12000	5817				

CLIENT: AREA:

LINE: 18000N (G. East) DATE: 15/12

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
18100E	58130				
18200	58153				
18300	58149				
18400	58144				
18500	58144				
18600	58119				
18700	58128				
18800	58110				
18900	58100				
19000	58107				
19100	58101				
19200	58090				
19300	58091				
19400	58088				
19500	58060				
19600	58095				
19700	58098				
19800	58097				
19900	58092				

CLIENT: AREA:

LINE: 10000N (G. East) DATE: 15/12

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
20100E	58070				
20200	58055				
20300	58053				
20400	58044				
20500	58027				
20600	58007				
20700	58026				
20800	57996				
20900	57992				
21000	57995				
21100	57975				
21200	57987				
21300	57970				
21400	57971				
21500	57	57053			
B/10000	57950				
BASE					
		cond			

LINE 10000N

000055

CLIENT: BHP. AREA: L. Eyre.

LINE: 10000N (S/E 45pt) DATE: 16/12

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
BS	57947				
21600	57951				
21700	57940				
21800	57931				
21900	57914				
22000	57891				
22100	57872				
22200	57855				
22300	57840				
22400	57815				
22500	57801				
22600	57785				
22700	57757				
22800	57738				
22900	57716				
23000	57676				
23100	57667				
23200	57650				
23300	57664				
23400	57643				
23500	57631				
23600	57626				
23700	57626				

CLIENT: AREA:

LINE: 10000N (S/E) DATE: 16/12

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
23800	57601				
23900	57605				
24000	57603				
24100	57595				
24200	57573				
24300	57575				
24400	57574				
24500	57572				
24600	57571				
24700	57563				
24800	57563				
24900	57540				
25000	57540				
25100	57543				
25200	57525				
25300	57512				
25400	57505				
25500	57512				
25600	57509				
25700	57502				
25800	57504				

CLIENT: AREA:

LINE: 10000N (S/E) DATE: 16/12

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
26000	57501				
26100	57499				
26200	57486				
26300	57482				
26400	57482				
26500	57476				
26600	57476				
26700	57475				
26800	57475				
26900	57465				
27000	57463				
27100	57463				
27200	57460				
27300	57455				
27400	57450				
27500	57447				
27600	57440				
27700	57440				
27800	57439				
27900	57377				end of line
35	57450				

LINE 10000N

0000056

CLIENT: BHP. AREA: 2 E W/B

LINE: 12000N G. E/W DATE: 2/12

OPERATOR: TH UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
BASE 2	57685	c			
100 E	59224				
200E	59196				
300E	59152				
400E	59114				
500E	59118				
600E	59161				
700E	59202				
800E	59181				
900E	59096				
1000E	58985				
~~	~ ~ ~ ~				
100W	59154				
200W	59159				
300W	59205				
400W	59017				
500W	58996				
600W	58903				
700W	58714				
800W	58450				
900W	58476				

CLIENT: AREA:

LINE: 12000N (Going West) DATE: 2/12

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
1000W	57954				
1100W	57810				
1200W	57655				
1300W	57537				
1400W	57454				
1500W	57414				
1600W	57376				
1700W	57398				
1800W	57433				
1900W	57498				
2000W	57564				
2100W	57594				
2200W	57632				
2300W	57643				
2400W	57641				
2500W	57639				
2600W	57633				
2700W	57631				
2800W	57621				
2900W	57601				
3000W	57584				

CLIENT: AREA:

LINE: 12000N (Going West) DATE: 2/12

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
3100W	57574				
3200W	57556				
3300W	57553				
3400W	57561				
3500W	57570				
3600W	57568				
3700W	57563				
3800W	57549		(PEG)	BASE 3	
3900W	57541				
4000W	57546				
BASE 2	57660	(pm)			
		combd			

LINE 12000N

C00057

CLIENT: B.H.P. AREA: LEYRE

LINE: 12000N (Going E) DATE: 3/12

OPERATOR: T.H. UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
BASE 2	57640				
1000E	5—				
1100E	58824				
1200E	58724				
1300E	58671				
1400E	58648				
1500E	58667			Too	Boggy
	LINE 10000N				
100W	58008				
200W	57894				
300W	57601				
400W	57491				
500W	57452				
600W	57430				
700W	57399				
800W	57366				
900W	57326				
1000W	5726[illegible]				
1100W	57201				
1200W	57157				
1300W	57110				

CLIENT: AREA:

LINE: 10000 (GOING WEST) DATE: 3/12

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
1400W	57098				
1500W	57097				
1600W	57088				
1700W	57102				
1800W	57114				
1900W	57126				
2000W	57150				
2100W	57182				
2200W	57237				
2300W	57287				
2400W	57349				
2500W	57426				
2600W	57523				
2700W	57627				
2800W	57721				
2900W	57826				
3000W	57925				
3100W	57934				
3200W	57940				
3300W	57926				

CLIENT: B.H.P. AREA:

LINE: 10000N (G 'West) DATE: 3/12

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
3500W	57923				
3600W	57908				
3700W	57871				
3800W	57843				
3900W	57823				
4000W	57803				
BASE 2	57658				

LINE 12000N

000058

CLIENT: B.H.P. AREA: [illegible]

LINE: 12000N (50m East) DATE: 8/12

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
BASE 2	57673				
1400E	58720				
1600E	58726				
1800E	58768				
1900	58810				
2000	58822				
2100	58830				
2200	58834				
2300	58810				
2400	58830				
2500	58901				
2600	58[illegible]5				
2700	58906				
2800	58922				
2900	5892				
3000	58[illegible]4				
3100	58861				
3200	58829				
3300	58801				
3400	58[illegible]1				
3500	58[illegible]6				

CLIENT: AREA:

LINE: 12000N (GRIDY) DATE: 8/12

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
3600E	58478				
3750	58437				
3850	58421				
3950	58396				
4000	58348				
4150	58327				
4200	58289				
4350	58244				
4450	58190				
4500	58[illegible]0				
4650	58[illegible]9				
4750	58180				
4850	58083				
4950	58060				
5050	58056				
5150	58063				
5250	58065				
5350	58046				
5450	58041				
5550	58042				
5650	58033				

CLIENT: AREA:

LINE: 12000N DATE:

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
5700E	58066				
5800	57995				
5960	57970				
6000	57949				
BASE 2	57670	1 p.m.			
		cont'd:			

LINE 12000N.

000059

CLIENT: B.H.P. AREA: L. EYRE

LINE: 12000N (GOING EAST) DATE: 11/12

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
Base 2	57691				
~~6000~~	5				
6100 E	57930				
6200	57938				
6300	57919				
6400	57873				
6500	57855				
6600	57852				
6700	57840				
6800	57836				
6900	57831				
7000	57837				
7100	57844				
7200	57901				
7300	57880				
7400	57902				
7500	57920				
7600	57913				
7700	57918				
7800	58003				
7900	58037				

CLIENT: B.H.P. AREA: L. EYRE

LINE: 12000N (GOING EAST) DATE: 11/12

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
8000 E	58049				
8100	58060				
8200	58081				
8300	58082				
8400	58103				
8500	58132				
8600	58152				
8700	58155				
8800	58174				
8900	58182				
9000	58200				
9100	58205				
9200	58217				
9300	58223				
9400	58226				
9500	58232				
9600	58243				
9700	58275				
9800	58311				
9900	58330				
10000	58371				

CLIENT: O/set 200m South AREA:

LINE: 11800N ← DATE: 11/12

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
1000 E	58379				offset 200m to south to avoid swamp
10200	58455				
10300	58503				
10400	58533				
10500	58566				
10600	58579				
10700	58587				
10800	58587				
10900	58593				
11000	58507	← 12000N			
B2	57670				
		Contd			

LINE 12000N

CLIENT: BHP AREA: Leyac

LINE: 12000N (Comp Eastn) DATE: 13/12

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
B.B.	57458				
11190 E	58473				
11200	58483				
11300	58482				
11400	58477				
11500	58468				
11600	58460				
11700	58453				
11800	58446				
11900	58432				
12000	58424				
12100	58421				
12200	58408				
12300	58397				
12400	58392				
12500	58380				
12600	58376				
12700	58366				
12800	58356				
12900	58350				
13000	58342				

CLIENT: AREA:

LINE: 12000N (S/East) DATE: 13/12

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
13100 E	58344				
13200	58324				
13300	58320				
13400	58308				
13500	58307				
13600	58295				
13700	58288				
13800	58283				
13900	58274				
14000	58278				
14100	58278				
14200	58281				
14300	58265				
14400	58266				
14500	58259				
14600	58255				
14700	58249				
14800	58246				
14900	58232				
15000	58226				
15100	58218				

CLIENT: AREA:

LINE: 12000N (S/East) DATE: 13/12

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
15200 E	58216				
15300	58209				
15400	58207				
15500	58192				
15600	58180				
15700	58167				
15800	58154				
15900	58140				
16000	58126				end of line

LINE 12000N

T90000

CLIENT: [illegible] AREA: [illegible]

LINE: 14000N / 6/82 DATE: [illegible]/82

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
BASE 2	57680				
100W	58596				
200W	58611				
300W	58653				
400W	58633				
500W	58686				
600	58715				
700	58722				
800	58756				
900	58730				
1000	58730				
1100	58658				
1200	58589				
1300	58516				
1400	58443				
1500	58341				
1600	58257				
1700W	58147				
1800W	58014				
1900W	57904				
2000W	57804				

CLIENT: AREA:

LINE: 14000N / 6/82 DATE: [illegible]/82

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
2100W	57758				
2200	57729				
2300	57740				
2400	57744				
2500	57788				
2600	57831				
2700	57865				
2800	57918				
2900	57945				
3000	57970				
3100	57971				
3200	57982				
3300	57980				
3400	57978				
3500	57976				
3600	57962				
3700	57957				
3800	57942				
3900	57925				
4000W	57910				
[illegible]	[illegible]				

CLIENT: AREA:

LINE: 14000N / 6 CAST DATE: [illegible]/82

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
100E	58557				
200E	58523				OK for EB
300E	58532				
400	58544				
500	58562				
600	58578				
700	58579				
800	58589				
900	58592				
1000	58613				
1100	58613				
1200	58607				
1300	58603				
1400	58593				
1500	58581				
1600	58572				
1700	58583				
1800	58593				
1900	586[illegible]				
2000E	58640				
[illegible]	[illegible]				

BASE 2 57626 pm

cont'd

LINE 14000N

000062

CLIENT: [illegible] AREA: [illegible]

LINE: 14000N DATE: 10/12

OPERATOR: T.H. UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
BASE 2	57888				
2100E	58654				
2200	58687				
2300	58699				
2400	58713				
2500	58722				
2600	58727				
2700	58741				
2800	58748				
2900	58760				
3000	58765				
3100	58787				
3200	58802				
3300	58818				
3400	58829				
3500	58931				
3600	58853				
3700	58897				
3800	58911				
3900	58989				
4000	59021				

CLIENT: AREA:

LINE: 14000N (Grid Line) DATE: 10/12

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
4100E	59034				
4200	59059				
4300	59055				
4400	59026				
4500	58984				
4600	58940				
4700	58901				
4800	58884				
4900	58828				
5000	58765				
5100	58710				
5200	58641				
5300	58557				
5400	58494				
5500	58444				
5600	58400				
5700	58358				
5800	58325				
5900	58301				
6000	58288				
6100	58266				

CLIENT: AREA:

LINE: 14000N (1ST EAST) DATE: 10/12

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
6200E	58258				
6300	58278				
6400	58221				
6500	58209				
6600	58181				
6700	58179				
6800	58152				
6900	58129				
7000	58115				
7100	58093				
7200	58078				
7300	58053				
7400	58039				
7500	58025				
7600	58010				
7700	58010				
7800	58006				
7900	58002				
8000	58005			End of LINE	
B2	57647				

LINE 14000N

000063

CLIENT: TL + BHP Co Ltd AREA: Lake Fryer

LINE: 16000E (N/S) DATE: 8/12

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
B.S.	57950				
11900N	58169				
11800	58164				
11700	58227				
11600	58241				
11500	58296				
11400	58308				
11350	58310				
11250	58325				
11150	58316				
11000	58337				
10900	58348				
10800	58344				
10700	58362				
10600	58341				
10500	58329				
10400	58324				
10300	58307				
10200	58302				
10100	58290				
10050	58270	c/f LINE 10000N/5800E			

CLIENT: AREA:

LINE: 16000E (N/S) DATE: 17/12

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
9700	58259				
9600	58214				
9500	58247				
9400	58243				
9300	58246				
9200	58221				
9100	58222				
9000	58214				
8900	58194				
8800	58190				
8700	58194				
8600	58170				
8500	58158				
8400	58120				
8300	58070				
8200	58044				
8100	58003				
8000	57958				
7900	57904				
7800	57870				
7700	57841				

CLIENT: AREA:

LINE: 16000E (N/S) DATE: 8/12

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
7800	57798				
7700	57809				
7600	57795				
7500	57840				} LIGNUM SWAMP - Grand Jn 52?
7400	57854				
7300	57864				
7200	57885				
7100	57903				
7000	57999				
6900	58051				
6800	58119				
6700	58213				
6600	58314				
6500	58411				
6400	58541				
6300	58660				
6200	58776				
6100	58880				
6000	58941				
B5	57950				

LINE 16000E

000064

CLIENT: AREA:

LINE: 16000E 6x/57 DATE: 8/2

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
B5	57963				
5900	58768				
5800	58952				
5700	58869				
5600	58817				
5500	58761				
5400	58777				
5300	58661				
5200	58473				
5100	58540	N. Edge of Neales O/C			
5000	58619	Remi Kit			
4900	58601				
4800	58611				
4700	58617				
4600	58605				
4500	58610				
4400	58619				
4300	58632	S. Edge of Neales			
4200	58661				
4100	58724				
4000	58775				
B5	57968				

→ difficult across Neales River
slow boggy going in mid.

CLIENT: AREA:

LINE: DATE:

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS

contd.

CLIENT: AREA:

LINE: DATE:

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS

LINE 16000E

CLIENT: TL BHP Co. AREA: Lake Eyre

LINE: 16000E (N/S) DATE: 19/2

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
54	57810				
3900	5884				
3800	58902				
3700	58910				
3600	59032				
3500	59061				
3400	59[illegible]				
3300	59·63				
3200	59·88				
3100	59·02				
3000	50·83				
2900	59·7				
2800	59080				
2700	59004				
2600	58925				
2500	58[illegible]24				
2400	58230				
2300	586·0				
2200	58537				
2100	58378				
2000	58329				
1900	58225				
1800	58·18				

CLIENT: AREA:

LINE: 16000E (N/S) DATE: 19/2

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
1700	57938				
1600	57918				
1500	57906				
1400	57849				
1300	57785				
1200	57752				
1100	57719				
1000	57676				
900	57629				
800	57675				
700	57655				
600	57644				
500	57636				
400	57608				
300	57580				
200	57563				
100	57499				
0	57470				
100S	57401				
200S	57380				
300S	57379				
400S	57289				
~~500S~~					

CLIENT: AREA:

LINE: 16000E (N/S) DATE: 19/2

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
500S	57230				
600S	57212				
700S	57186				
800S	57171				
900S	57148				
1000S	57124				
1100	57100				
1200	57094				
1300	57076				
1400	57070				
1500	57029				
1600	57026				
1700	56996				
1800	57004				
1900	56959				
2000S	56941			end of line	
54	57784				

LINE 16000E

000096

THIS IS PART II OF A COMBINED
GRIDDING, GRAVITY WITH LEVELLING
AND MAGNETICS SURVEY

SEE PART I FOR MAGNETICS INFORMATION

Part II.

000068

CLIENT: THE B.H.P. CO. LTD.

AREA: E.L. 369 LAKE EYRE WEST

GRID: NEALES RIVER

SURVEY: GRAVITY WITH LEVELLING

DATE: NOVEMBER AND DECEMBER, 1977

C O N T E N T S

000069

LAKE EYRE WEST E.L. 369 GRAVITY WITH LEVELLING SURVEY

FOR: THE BROKEN HILL PROPRIETARY COMPANY LIMITED
BHP HOUSE, 140 WILLIAM STREET,
MELBOURNE, VICTORIA.

DATE: NOVEMBER and DECEMBER 1977.

- - -

The above survey of 210 line kilometres was carried out simultaneously with a magnetics survey by two Solo Geophysics crews, mobilizing from Adelaide. They used portable camping equipment for the six week survey to give them maximum mobility and access to the proposed grid area.

General Information About the Survey Area:

The area surveyed is located on the north-eastern boundary of Anna Creek Station, it is 1080 kilometres from Adelaide, approximately 80 kilometres north of William Creek and overlays part of the prominent Neales River drainage into Lake Eyre West. For an access description to grid area see appendix.

Most of the area was very flat except for occasional deeply eroded creek channels and a major river drainage system. Vegetation is almost non-existant on the plains area except for sparse bushes. All large vegetation and trees are associated with creek drainage systems and caution should be exercised if camping in their protective shade. Dry sandy creek and river crossings are negotiable during the heat of the day, but powdery sand should then be avoided. A suitable campsite, central to the grid and established creek crossings from it past a waterhole, are detailed in the appendix.

Two flowing hot artesian bores are on the grid area described in the appendix. Considerable surface water was left in the area after a big storm and much rain. This has evaporated to leave only creek waterholes, where the salinity is quite high. The only water we located not saline was the flowing northern arm of the Neales River that does not pass through the grid. There are some quite large waterholes in the lower Neales River, and all the dams have been filled to capacity. Sand hills are numerous on the western side of the grid only. Wild life exists as donkeys, rabbits and dingoes and water birds are extremely numerous since the four inches of rain experienced during the survey period. Three and one half inches fell one night in a wild storm, and all flat-lying country and claypans were under water. Creeks and rivers flooded and it was not possible to move for about a week. Daily temperature ranged from a cool +30^{o}C to +45^{0}C, averaging about 40^{o}C.

2/...

The Survey:

Three four-wheel drive vehicles and a large trailer were used to mobilize food supplies and petrol from Adelaide to the area. Several brief camps were established at the beginning until the base line was completed and better access found. This period was interrupted by tropical storms that stopped all work for about a week.

A grid was established by using special calibrated odometers in the vehicles for distance measuring. Gridding at one kilometer intervals was done simultaneously with magnetics gravity and levelling. The base line was established in a true north-south direction using the Umbum Creek intersection with a proposed grid line as the origin. This point by scale distance was 8600N on base line 00. This line was continued south to point 00/00 and northward from 8600N to 19000N. Steel pegs were placed at origins of each line and red painted pegs at intermediate kilometer intervals. The 00 line has a bearing of 353°/173° magnetic. Grid lines were then established east and west from this line at a bearing of 83°/263°.

The lines are	14000N	from	4000W	to	8000E
	12000N	from	4000W	to	16000E **
	10000N	from	4000W	to	28000E
	8000N	from	4000W	to	22000E
	6000N	from	4000W	to	28000E
	4000N	from	3000W	to	22000E
	00	from	00	to	28000E *
	16000E	from	12000N	to	2000S

* Note line 00 was offset 600 metres south at 22000E to avoid deep water in Neales River.

** 12000N line offset 200 metres south at 10000N to 11000N to avoid swamp.

Gravity Survey:

The levelled gravity observation points were at 100 metre intervals along all survey lines. Several offsets as described were necessary to avoid flooded areas. All stations were marked with numbered flagging tape and where possible a mound of dirt. Due to the size of the grid and difficulty of access after the rain, five gravity base stations were established and tied together as per extract sheets from survey data. They have steel pickets and permanent identity discs to preserve their location.

3/...

They were as follows:-

Base No. 1 no level relative to the grid.
No. 2 no level relative to the grid.
*No. 3 @ 00/8600N, north bank of Umbum Creek
No. 4 @ 00/8000N, south side of Umbum Creek
No. 5 @ 10000N/10000E, east side of Neales River
William Creek to grid base tie

Base No. 3 was established as the main gravity base and was also origin of grid establishment. However, all levels are relative to 00/00 being given arbitrary value of 100 metres. You may easily establish 00/8600N as main datum by removing 51.41 metres from all reduced levels, or any other origin may be established. The gravity meters used were temperature compensated La Coste units, and reflected tidal variations only. All measurement times were CST daylight saving hours. Drift magnitudes were quite various due to elapsed period of about eight hours between base ties and tidal fluctuations. Calibration charts for No. 35 and No. 37 meters and conversion of meter readings to milligals is enclosed in the appendix. All base stations were tied in the shortest period of time to minimize tidal drift errors in data.

Data Presentation:

Field survey observations were recorded on a combined field sheet for gravity and reduced levels. Data was not reduced to Bouguer densities due to client's preference to establish density controls.

Summary:

The combined survey of 210 line kilometres took a period of six weeks to complete. Rain interrupted the survey for five days until it started to dry out again. The survey progressed smoothly for the remaining period, considering the temperatures experienced in the area at this time of the year.

for SOLO GEOPHYSICS AND CO.

B. A. Rau

BRIAN RAU
MANAGER

APPENDIX

C O M M U N I C A T I O N S:

1. A telephone is available at William Creek Hotel-Store.

2. Anna Creek homestead has a regular radio schedule at 7:45 a.m., 11:45 a.m. and 6:45 p.m. using Flying Doctor Radio frequency 2020, Dick Nunn the manager.

3. R.F.D.S. network at Port Augusta is available for operators of equipment on their frequencies 4010 and 6890.

P E T R O L & F O O D:

Petrol available from pump or bulk in 44 drums from William Creek. Fresh food supplies not carried at William Creek store, very limited stock.

W A T E R:

Three hot flowing artesian bores are in the area, and one is located on the grid. See access details for locations of bores. All surface water in the area can be assumed to be saline. The lower reaches of the Umbum Creek have some water holes, the largest remaining by our campsite as described. Larger water holes are found in the southern arm of the Neales River below the Umbum Creek junction. Even larger water holes may be found along the northern arm of The Neales that flows north of the baseline. This water could still be fresh as it was when flowing. Numerous dams are sited on the grid area, all are full and can be located from the large grid map.

S U G G E S T E D C A M P S I T E S:

(a) Near 3000W/Line 12N.

There are small trees that give some shade, here. A track leads off to this area from a steel picket marking gravity base No. 2 on roadside. See large map location.

Advantages are that it is close to hot water artesian bore located by cattle yard 2 Km north along station track and close to exit road to William Creek.

(b) Near 600W/Line 8N

This was our main base camp, ideally suited, being central to all grid access. Located under a large mulga tree. See location of access tracks from map. A large water hole was located below the camp in the Umbum Creek. From this camp access to grid east was across the Umbum Creek crossing we established after the floods, and via baseline 00, or line 8N until reaching our re-established station track to the southern lines. Access to the east across

2/...

the Neales River was via line 10N, but due to water, we could not cross at this point. It may now be negotiable. If not, go north and find a narrow sandy crossing between 11N to 12N. Re-established roads can give access to grid east.

P E R M A N E N T S T E E L G R I D P E G S:

On base line 00 steel pegs are located as follows:-

00/14N, 00/12N, 00/10N, 00/8.6N, 00/8N, 00/6N, 00/4N, 00/00.

Around grid at track crossings steel pegs are located as follows:-

L12/1.3W	near stockyard
L12/3.8W	near William Creek to grid access track
L14/1.7W	track north of stockyards
L8/3E	
L6/4.5E	
L4/6.5E	
L0/11.35E	
L10/19.2E	
L10/10E	gravity base
L8/18.9E	
L6/19.0E	
L4/18.6E	

All pegs have permanent aluminium identity discs attached.

TOTAL - 20 steel pegs.

S E M I - P E R M A N E N T P E G S:

Wooden pegs painted red are located at 1 kilometer intervals throughout the grid. They are numbered on the southern side with grid co-ordinates. These pegs were also located by stockyard turnoff to base-line access track we established through the sandhills.

T R A C K S:

Generally, tracks in the area were non-existant as they are seldom used. We re-established tracks whenever possible. Most are deeply eroded at creek crossings and are not easily negotiable by large vehicles since the rains. Normal four-wheel drive vehicles have no difficulty gaining access to the area.

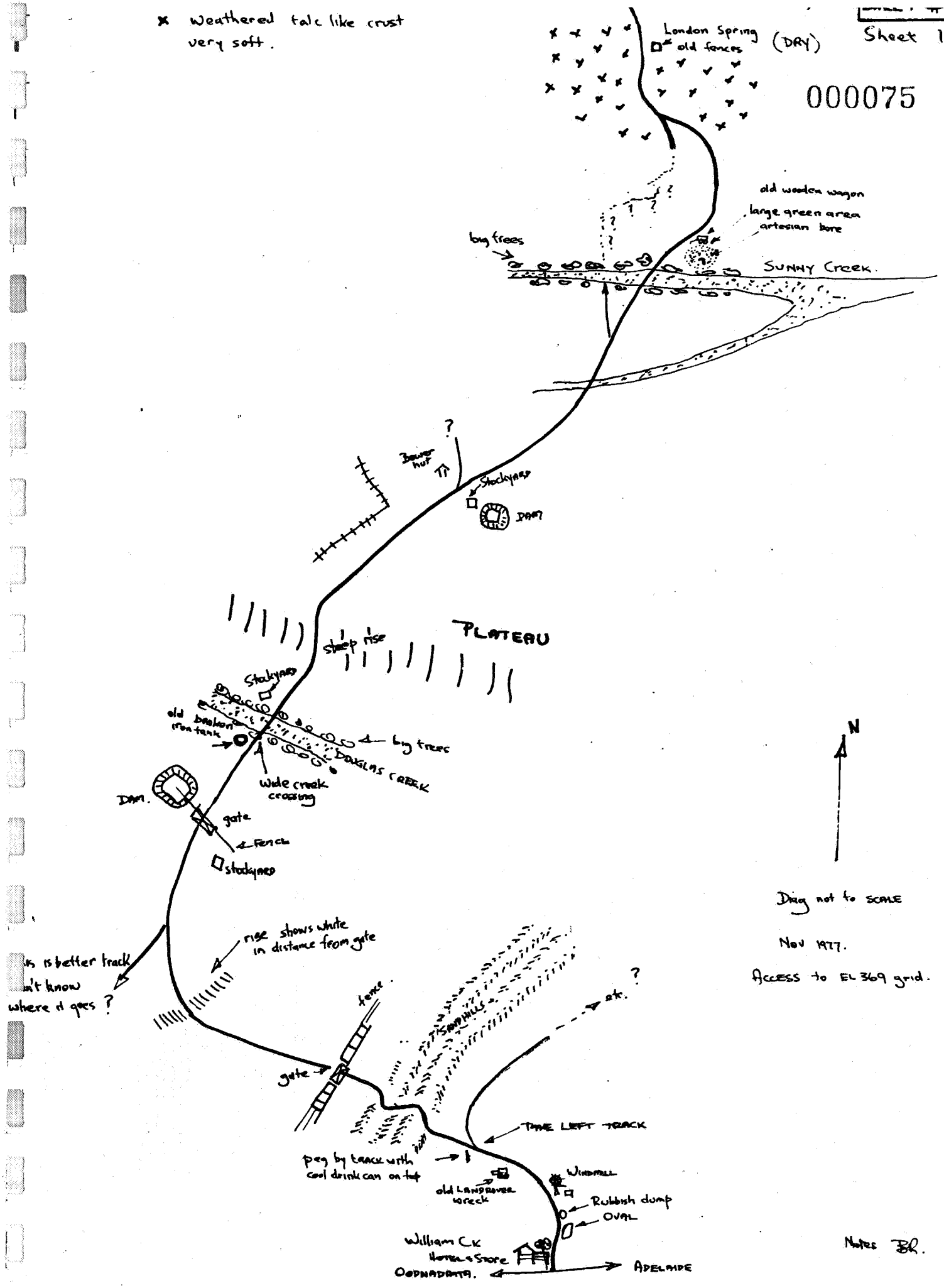
A C C E S S T O T H E G R I D F R O M W I L L I A M C R E E K:

See handwritten notes.

× Weathered talc like crust very soft.

Sheet 1

000075



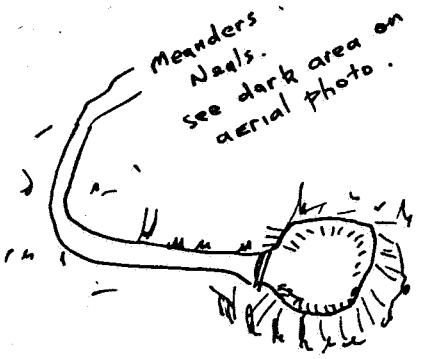
Diag not to SCALE

Nov 1977.

Access to EL 369 grid.

Notes BR.

SEE LARGE 1:250000 MAP.



open bore flowing out of collapsed bore casing, flows very fast, & almost boiling hot

hot artesian bore.

NEALES RIVER

stockyards.

Gravity base #2.

green swamp

our second camp WASHED out by storm

our third camp on top of sand hill

stockyard

creek

CAMP 4

Umbum Creek

? ? ? To TEAK STATION

warm artesian bore in green patch to north of road between two creeks.

Cairn of stones

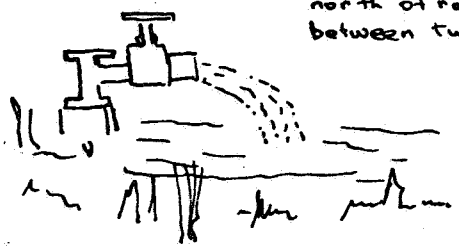
- old chimney (GRAVITY BASE #1 see peg)

our first campsite

stockyard

GEORGE CK

by trees



BORE.

DAVEN PORT CK.

?

Cairn of stones.

collar from bore? drillhole?

Stockyard

?

LONDON Spring.

N.

Diagram not to scale.

Nov 1977

Access to EL 369 grid.

Notes BR.

contd: from previous page

SHEET #3

000077

Distances from William Creek Hotel/Store to landmarks on track to grid @ EL 369 : Trip takes approx 2½ hours during dry weather

Location	Distance (Kilometers)
Hotel / Store	00.00
windmill	2.6
stockyard	2.9
road junction	5.0
Sandhills	
Gate (closed)	8.0
road junction (not obvious from this direction)	16.8
stockyard, dam	
Gate (maybe open)	17.8
old tank	
Douglas Creek	18.9
Stockyards across creek	20.0
steep rise	
corner fence of parrallel fence line	21.29
booser hut, stockyard dam	25.0
small creek	32.5
road junction (take right fork)	34.4
Sunny Creek	35.0
artesian bore, old cart.	
Sidetrack (not obvious in this direction)	38.7
London Spring (Dry) old fence rails etc	40.0
road junction by prominent hill (take right hand right angle) turn	40.61
old bore, steel drill casing	45.5
cairn of stones rt side track	47.1
side track	48.0
Bump	48.8
Stockyards., + sidetrack to left.	53.3
old chimney + ruin.	54.0

		reset dist.
	Contd.	
(*)	take sidetrack to Davenport Ck	53.3 = 00
	artesian bore about 250m north of road, look for birds + cattle + green swamp to locate, easy to miss. see diag of bore.	0.9
	George Creek	1.85
	road junction, take right hand track,	
note:	track can become very indistinct from now on unless used regularly, follow carefully	2.35
	stockyard across creek to left of track + trees. dead cow, skeleton on right hand side of track.	10.7
	steel grid peg	
	base station steel peg	21.9
	stockyard	23.0
	Contd.	Total. 76.31

Turn off to baseline see wooden peg markers just before stockyard on side of track.

across sand hills past artesian bore to old ruin stockyard. (This is our track, may become indistinct without use) see steel peg 100m S.E of old stock yard, follow 1:20000 diag.

Nov 1977 JR.

APPENDIX

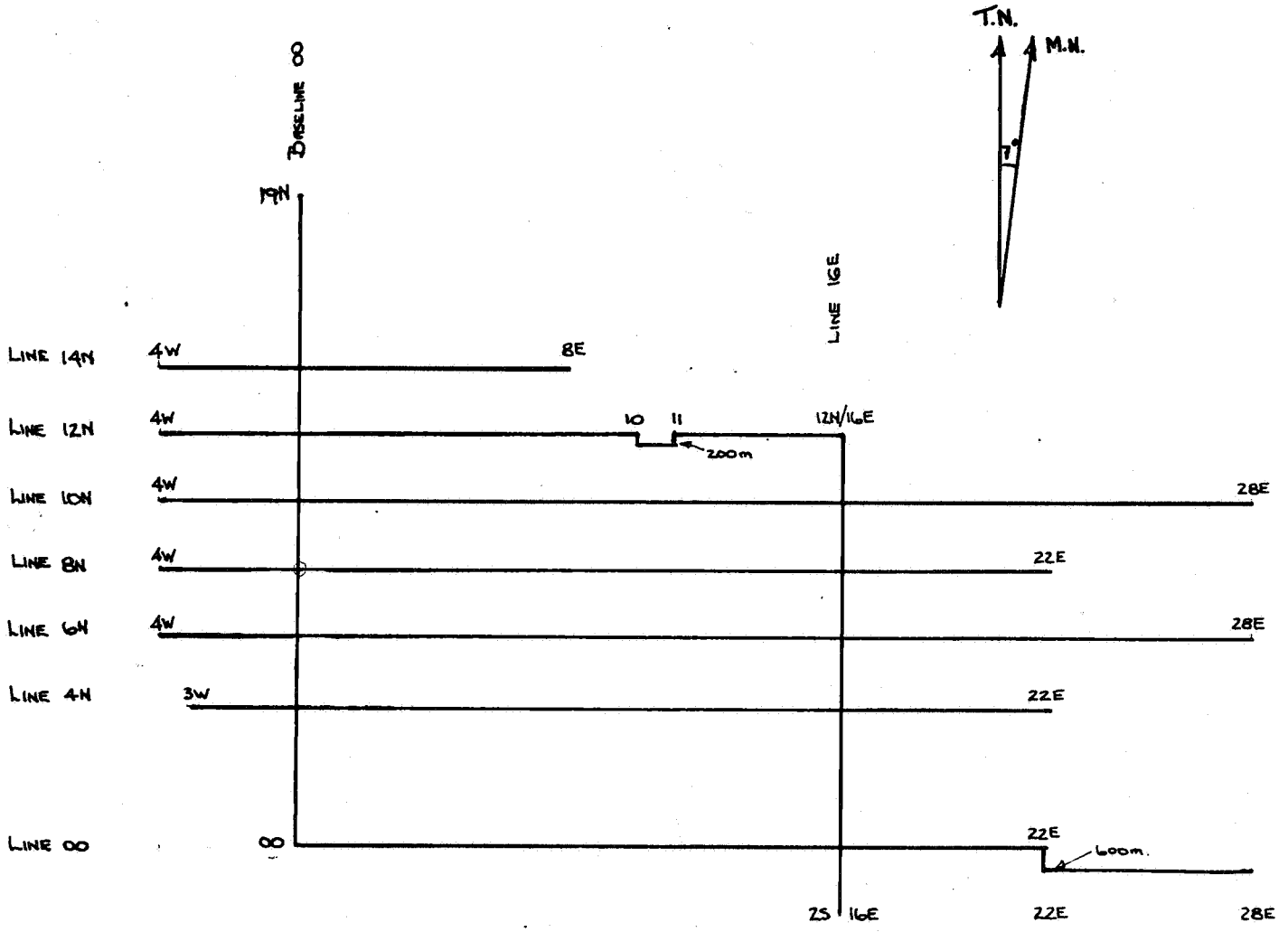
S U R V E Y O R S & E Q U I P M E N T:

Two crews operated in the grid area. Personnel were Brian Rau and Ted Hansen, Graham Rau and Phillip Rundle. Three four-wheel drive vehicles, a Nissan Patrol, Landrover and Suzuki were used. Tents, camping equipment, lighting generator, deep freezers, R.F.D.S. two-way radio, water and food were necessary to support the crew in this isolated area. Two La Coste and Romberg temperature compensated gravity meters, No. G-35 and No. G-37, were used. Two precision automatic engineers levels and staffs were used for optically levelling gravity stations. They were a Sokkisha B-1 and Pentax.

- - - - - -

GRID PLAN E.L. 369

000079



0 2 4 6 8 10 12 KM.

SCALE 1:200000

DATE NOVEMBER/DECEMBER 1977.

38

Milligal Values for LaCoste & Romberg Model G Gravity Meter #37

Counter Reading*	Value in Milligals	Factor for Interval	Counter Reading *	Value in Milligals	Factor for Interval
000	000	1.04790			
100	104.79	1.04780	3600	3770.61	1.04840
200	209.57	1.04770	3700	3875.45	1.04855
300	314.34	1.04775	3800	3980.30	1.04865
400	419.11	1.04765	3900	4085.17	1.04875
500	523.88	1.04735	4000	4190.04	1.04885
600	628.61	1.04730	4100	4294.93	1.04895
700	733.34	1.04720	4200	4399.82	1.04900
800	838.06	1.04720	4300	4504.72	1.04910
900	942.78	1.04720	4400	4609.63	1.04915
1000	1047.50	1.04710	4500	4714.55	1.04920
1100	1152.21	1.04700	4600	4819.47	1.04920
1200	1256.91	1.04695	4700	4924.39	1.04915
1300	1361.61	1.04690	4800	5029.30	1.04905
1400	1466.30	1.04685	4900	5134.21	1.04910
1500	1570.98	1.04690	5000	5239.12	1.04910
1600	1675.67	1.04690	5100	5344.03	1.04900
1700	1780.36	1.04680	5200	5448.93	1.04885
1800	1885.04	1.04700	5300	5553.81	1.04875
1900	1989.74	1.04705	5400	5658.69	1.04870
2000	2094.45	1.04720	5500	5763.56	1.04860
2100	2199.17	1.04720	5600	5868.42	1.04845
2200	2303.89	1.04725	5700	5973.27	1.04830
2300	2408.61	1.04725	5800	6078.10	1.04810
2400	2513.34	1.04730	5900	6182.91	1.04790
2500	2618.07	1.04730	6000	6287.70	1.04770
2600	2722.80	1.04740	6100	6392.47	1.04745
2700	2827.54	1.04745	6200	6497.22	1.04725
2800	2932.28	1.04750	6300	6601.94	1.04700
2900	3037.03	1.04755	6400	6706.64	1.04675
3000	3141.78	1.04765	6500	6811.32	1.04650
3100	3246.55	1.04780	6600	6915.97	1.04625
3200	3351.33	1.04810	6700	7020.60	1.04595
3300	3456.14	1.04815	6800	7125.19	1.04560
3400	3560.96	1.04825	6900	7229.75	1.04520
3500	3665.78	1.04830	7000	7334.27	

NOTE: Right hand wheel on counter equals approximately .1 Milligal
AWS 1-25-63

TABLE I

000081

Milligal Values for LaCoste & Romberg Model G Gravity Meter #35

Counter Reading*	Value in Milligals	Factor for Interval	Counter Reading*	Value in Milligals	Factor for Interval
000	000	1.04565			
100	104.56	1.04550	3600	3763.40	1.04640
200	209.11	1.04535	3700	3868.04	1.04650
300	313.65	1.04525	3800	3972.69	1.04660
400	418.18	1.04520	3900	4077.35	1.04665
500	522.70	1.04515	4000	4182.01	1.04675
600	627.21	1.04510	4100	4286.69	1.04680
700	731.72	1.04510	4200	4391.37	1.04685
800	836.23	1.04505	4300	4496.06	1.04690
900	940.73	1.04505	4400	4600.75	1.04695
1000	1045.24	1.04505	4500	4705.44	1.04700
1100	1149.74	1.04505	4600	4810.14	1.04700
1200	1254.25	1.04505	4700	4914.84	1.04700
1300	1358.75	1.04505	4800	5019.54	1.04700
1400	1463.26	1.04505	4900	5124.24	1.04705
1500	1567.76	1.04505	5000	5228.95	1.04710
1600	1672.27	1.04505	5100	5333.65	1.04710
1700	1776.78	1.04510	5200	5438.36	1.04705
1800	1881.28	1.04510	5300	5543.07	1.04695
1900	1985.79	1.04510	5400	5647.76	1.04685
2000	2090.31	1.04515	5500	5752.45	1.04670
2100	2194.82	1.04515	5600	5857.12	1.04655
2200	2299.34	1.04520	5700	5961.77	1.04640
2300	2403.85	1.04520	5800	6066.41	1.04620
2400	2508.38	1.04525	5900	6171.03	1.04600
2500	2612.90	1.04535	6000	6275.63	1.04580
2600	2717.43	1.04545	6100	6380.21	1.04555
2700	2821.98	1.04555	6200	6484.77	1.04525
2800	2926.53	1.04570	6300	6589.29	1.04495
2900	3031.10	1.04580	6400	6693.79	1.04460
3000	3135.68	1.04595	6500	6798.25	1.04430
3100	3240.28	1.04605	6600	6902.68	1.04395
3200	3344.89	1.04615	6700	7007.07	1.04360
3300	3449.50	1.04625	6800	7111.43	1.04325
3400	3554.13	1.04635	6900	7215.76	1.04285
3500	3658.76	1.04635	7000	7320.04	

*NOTE: Right hand wheel on counter equals approximately .1 Milligal
AWS 1-24-63

Conversion of Counter Reading to Milligals

To obtain gravity values in milligals from the reading of the counter and dial refer to, Table 1. In Table 1, the value of gravity in milligals is given for each 100 units of the counter (the last digit on the counter indicates tenths). By using this table, and the corresponding factor, the value of gravity for any reading of the counter may be obtained in the following manner:

1. Read the counter (Example: 2654.3).

2. Read the dial (Example: .36) The reading is then 2654.36.

3. From Table I's "Counter Reading" column use the counter reading nearest the example reading (2654.36) but less than it. For this example the counter reading would be 2600. Observe the "Value in Milligals" for a counter reading of 2600 is 2731.10 Mgls.

4. Obtain the difference in the original Counter-dial reading and the counter reading chosen from Table 1 in Step 3.

   2654.36 - 2600 = 54.36

5. Multiply this difference (54.36) by the interval factor given in the table for a counter reading of 2600.

   54.36 X 1.05239 = 57.21

6. Add the product obtained in Step 5 to the Milligal value observed in Step 3. The sum thus obtained is the milligal value for the gravity station.

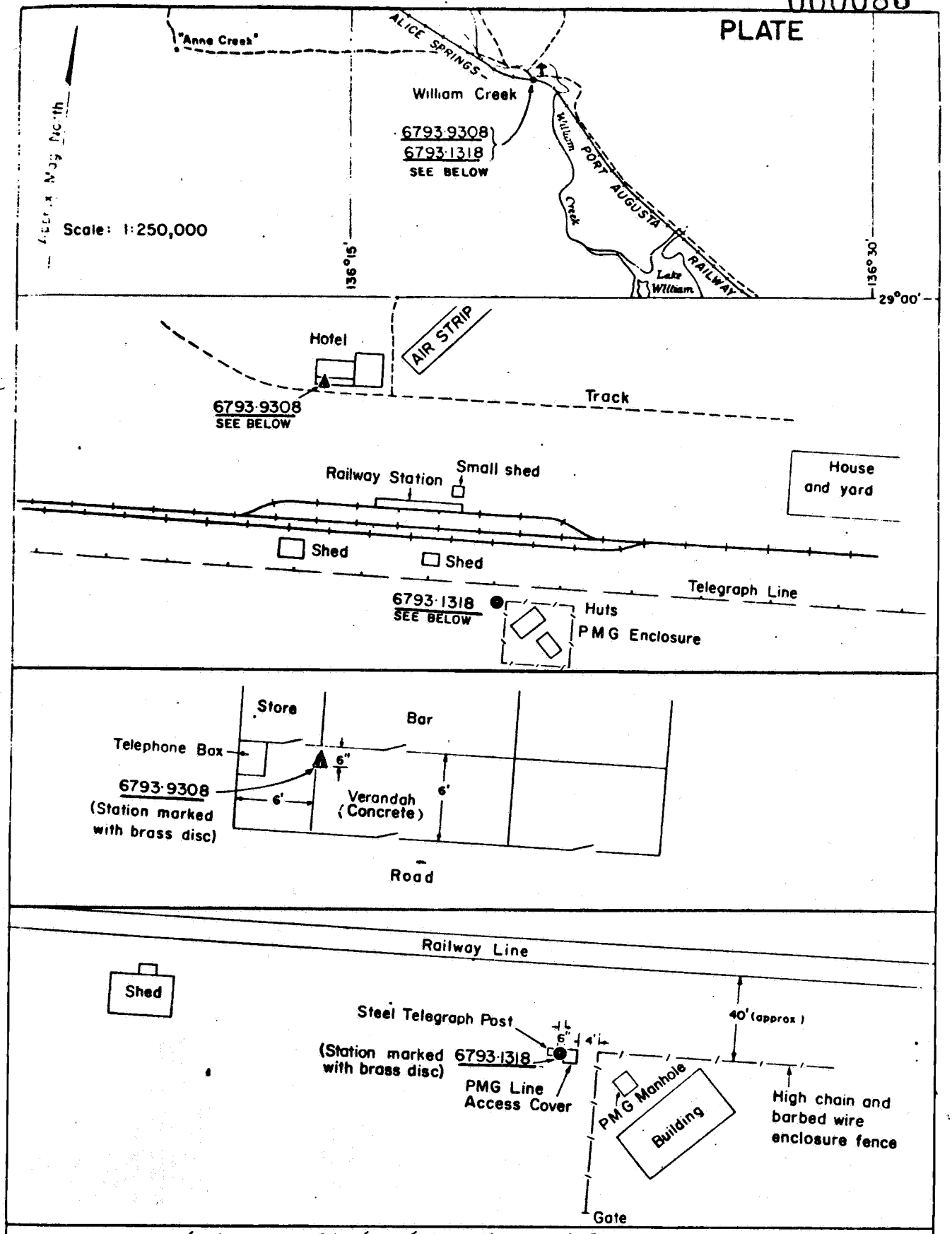
   2731.10 + 57.21 = 2788.31

Example Table I

COUNTER READING	VALUE IN MILLIGALS	FACTOR FOR INTERVAL
2500	2625.88	1.05216
2600	2731.10	1.05239
2700	2836.34	1.05262

000083

PLATE



▲ Primary base 6793·9308 979 226 61

▲ Secondary base 6793·1308 979 226 38

● Excentre

WILLIAM CREEK SA

Sheet 1 of 1 H53/B2-22

GRAVITY STATIONS
AUSTRALIAN NATIONAL GRAVITY NETWORK

Geophysical Branch, Bureau of Mineral Resources, Geology and Geophysics

FIELD DATA SHEETS FOR GRAVITY SURVEY USING LACOSTE & ROMBERG

METER NO. G - 37

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: The BHPG LTD
METER: LaCoste # 37
AREA: EL369
METER CALIBRATION: 000085
GRID: The Needles
BOUGUER DENSITY:
LINE: Base Ties
DRIFT CORRECTION:
LINE MAGNETIC BRG:
AREA MAGNETIC VARIATION:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: B Ram
BASE LATITUDE:
DATE:

Station	Obs. Grav. s./divs.	Time	Elevn.	ρ_1 ρ_2 ρ_3 BOUGUER GRAV.		
				ρ_1	ρ_2	ρ_3
BASE 3	2723.91	1540	51.41			
BASE 4	2722.97	1600	53.64			
BASE 3	2723.91	1641	51.41			

Base ties sheet
as ref.
18/12/77

Notes:

BASE TIE EXTRACT (1)

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

000086

CLIENT: The BHP Co Ltd
METER: LaCoste #37
AREA: EL 369
METER CALIBRATION:
GRID: The Neales
BOUGUER DENSITY:
LINE: Base Ties.
DRIFT CORRECTION:
LINE MAGNETIC BRG:
AREA MAGNETIC VARIATION:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: B Ram
BASE LATITUDE:
DATE:

Station	Obs. Grav. s./divs.	Time	Elevn.	ρ_1 ρ_2 ρ_3 BOUGUER GRAV. ρ_1	ρ_2	ρ_3	
BASE 3	2725.40	7^{00}	51.41				
BASE 5	2724.25	8^{56}	46.45				= 1066CN / 0666E
BASE 3	2724.86	15^{22}	51.41				refer sheet 36 14/12/77
BASE 3	2725.03	8^{08}	51.41				
BASE 5	2723.96	8^{44}	46.45				
BASE 3	2724.93	15^{56}	51.41				refer to sheet 39 15/12/77
BASE 3	2724.91	8^{44}	51.41				
BASE 5	2723.79	9^{18}	46.45				
BASE 3	2724.74	18^{00}	51.41				refer to sheet 42 16.12.77
BASE 3	2724.92	9^{21}	51.41				
BASE 5	2723.74	10^{00}	46.45				refer to sheet 45 17/12/77
BASE 3	2723.77	17^{16}	51.41				

Notes: above give average values, second tie interval drift curves show greater variation.

BASE TIE EXTRACT (2)

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

000087

CLIENT: The BHP Co LTD
METER: LaCoste # 31
AREA: EL 369
METER CALIBRATION:
GRID: The Neales
BOUGUER DENSITY:
LINE: Base ties
DRIFT CORRECTION:
LINE MAGNETIC BRG:
AREA MAGNETIC VARIATION:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: B Lau
BASE LATITUDE:
DATE:

Station	Obs. Grav. s./divs.	Time	Elevn.	ρ_1 ρ_2 ρ_3 BOUGUER GRAV. ρ_1	ρ_2	ρ_3
BASE 1	2722.00	8^{27}	—			
BASE 3	2725.29	9^{44}	51.41			
BASE 1	2721.87	16^{38}	—			
BASE 2	2718.67	7^{51}	—			
			—			
BASE 3	2725.20	8^{15}	51.41			
BASE 2	2718.70	13^{45}	—			

cc/EGGEN 24/11/77 refer sheet (1)

cc/EGGEN 5/12/77 refer sheet 17

Notes:

BASE TIE EXTRACT (3)

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

000088

CLIENT: The BHP Co Ltd
METER: LaCoste # 37
AREA: EL 369
METER CALIBRATION:
GRID: Neales River
BOUGUER DENSITY:
LINE: Base ties
DRIFT CORRECTION:
LINE MAGNETIC BRG:
AREA MAGNETIC VARIATION:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: BRace
BASE LATITUDE:
DATE: 8/12/77

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3
BASE 2	2718.69	12^{05}	—			
BASE 1	2721.93	14^{28}	—			
WILLIAM	2746.65	16^{20}				
CK						
BASE 2	2719.0	20^{14}	—			

Refer sheet 22

} Base No. 6793.930E

Notes: Refer to sheet (22) for this extract.

BASE TIES EXTRACT (4)

all levels relative to 00/00 on grid. = given 100 metres

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

(1)

CLIENT: BHP
AREA: EL 369 LAKE EYRE WEST
GRID: NEALES RIVER
LINE: 00 Baseline
LINE MAGNETIC BRG: 173°
BASE STATION: BASE 1
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:

METER: LACOSTE #37
METER CALIBRATION: See sheet 000089
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION: 7°E
OPERATOR: BRan
DATE: 24-11-77

Station	Obs. Grav. s./divs.	Time	Elevn.	ρ_1 ρ_2 ρ_3 BOUGUER GRAV. ρ_1	ρ_2	ρ_3	
BASE 1	2722.00	827	——				
00/800N	25.29	944	51.41				N BANK of CK.
85	26.11		47.83				CREEK BED
84	25.77	10[11]	49.70				S BANK CK.
83	25.41	10[21]	51.29				
82	25.37	10[28]	52.16				
81	25.20	10[35]	53.38				
800	25.22	10[41]	53.64				Steel dropper
79	25.24	10[49]	53.70				
78	25.34	10[55]	53.54				
77	25.42	11[01]	53.60				
76	25.55	11[08]	53.67				
75	25.70	11[15]	53.59				
74	25.85	11[20]	53.60				
73	25.85	11[26]	54.11				
72	26.06	11[32]	53.71				
71	26.09	11[38]	53.90				
700N	26.25	1147	54.05				wood peg.
69	26.24	11[57]	54.41				
68	26.34	12[03]	54.65				
67	26.48	12[09]	54.56				
66	26.48	12[15]	54.76				
65	26.50	12[21]	55.05				
64	26.55	12[27]	55.59				
63	26.59	12[34]	55.85				
62	26.75	12[40]	55.92				
61	26.79	12[43]	56.22				

Notes: VERY HOT

000090

(2)

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: The BHP Co Ltd
AREA: EL369
GRID: The Neales River
LINE: 00
LINE MAGNETIC BRG: 173°
BASE STATION: BASE 1
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:

METER: Lacoste #37
METER CALIBRATION: see sheets
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION: 1°E
OPERATOR: BRan
DATE: 24-11-77

Station	Obs. Grav. s./divs.	Time	Elevn.	ρ_1 ρ_2 ρ_3 BOUGUER GRAV. ρ_1	ρ_2	ρ_3	
6000 N	27 26.79	1258	56.44				Steel picket
59	26.86	1304	56.61				
58	26.85	1311	56.86				
57	26.91	1319	56.96				
56	26.92	1326	57.29				
55	26.91	1332	57.46				
54	26.83	1337	57.71				
53	26.82	1344	58.14				
52	26.78	1350	58.74				
51	26.65	1358	59.23				by tree & w'hole "dug
5000N	26.58	1405	59.37				@wood peg SURVEY PEG
49	26.48	1415	59.76				
48	26.31	1425	60.05				
47	26.06	1431	60.64				
46	25.86	1437	61.40				
45	25.67	1445	62.23				
44	25.47	1450	62.83				
43	25.56	1455	62.24				
42	25.61	1502	62.02				
41	25.50	1508	62.39				
4000N	25.67	1515	61.79				CK
39	25.61	1520	62.07				
38	26.04	1526	61.09				by CK ✓
BASE 1	27 21.87	1638	—				

Notes:

VERY HOT

000091

(3)

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: The BHP Co Ltd
METER: Lacoste #37
AREA: EL 369
METER CALIBRATION: see sheets
GRID: Neales River
BOUGUER DENSITY:
LINE: 00
DRIFT CORRECTION:
LINE MAGNETIC BRG: 178°
AREA MAGNETIC VARIATION: 7°E
BASE STATION: BASE 1
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: BRan.
BASE LATITUDE:
DATE: 25-11-77

Station	Obs. Grav. s./divs.	Time	Elevn.	ρ_1 ρ_2 ρ_3 BOUGUER GRAV. ρ_1	ρ_2	ρ_3	
BASE 1	27 21·90	7⁰⁹	—				
00 3700N	26·25	8²⁶	60.66				
36	26·23		61.03				
35	26·16	8⁴⁰	61.44				middle
34	26·20	8⁴⁸	61.45				across CK.
33	26.00	8⁵³	62.11				
32	25·83	9⁰⁰	62.87				
31	25·59	9⁰⁵	64.24				
3000N	25·47	9¹³	64.55				survey peg
29	25·43	9¹⁹	64.76				
28	25·26	9²⁴	65.64				
27	25·08	9³⁰	66.15				
26	24·91	9³⁶	66.74				
25	24·73	9⁴³	67.57				
24	24·49	9⁵¹	68.52				
23	24·24	9⁵⁷	69.61				
22	23·97	10⁰³	70.55				
21	24·01	10¹⁰	70·49				
2000N	23·85	10¹⁸	71 28				wood survey peg.
19	23·60	10²⁵	72·70				
18	23 72	10³²	72·33				
17	23·65	10³⁸	73 18				
16	23·40	10⁴⁵	74.24				
15	23·20	10⁵²	75·49				
14	23·25	10⁵⁸	75.35				
13	23·14	11⁰⁴	7593				
12	23·17	1110	76·02				
1100N	22·85	1115	77·53				

Notes:

(4)

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: The BHP Co Ltd, METER: Lacoste # 37 000092

AREA: EL 369 METER CALIBRATION: see sheet.

GRID: Neale River BOUGUER DENSITY:

LINE: 00 + 00 DRIFT CORRECTION:

LINE MAGNETIC BRG: AREA MAGNETIC VARIATION:

BASE STATION: Base 1

BASE NOMINAL GRAV:

BASE NOMINAL ELEVN: OPERATOR: BRam

BASE LATITUDE: DATE: 25-11-77

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3	
N/S 00|1000 N	27 22.58	1123	78.98				wood survey peg.
E/W 00 900	22.58	1129	80.26				
173° 8	21.66	1136	82.87				
7	21.16	1141	84.64				
6	20.64	1148	86.47				
500	20.09	1154	88.44				
4	19.58	1200	90.05				
3	19.45	1207	90.51				
2	18.69	1213	93.58				
100	17.27	1223	99.70				* near top hill, flagging + wood bush.
00|00	17.10	1231	100.00				
N/S 00|100 E/W 83° E	18.09	1252	95.77				
2	18.76	1258	93.38				
3	19.18	1304	91.75				
4	19.41	1310	91.20				
500	19.68	1315	90.21				
6	19.86	1322	89.79				
7	19.67	1329	90.97				
8	19.99	1335	90.21				
9	20.15	1340	89.74				
00|600 E	20.41	1347	88.62				wood survey peg.
BASE 1	27 21.75	1505	—				

Notes:

(5)

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: The BHP Co LTD
METER: Lacoste "37
AREA: EL 369
METER CALIBRATION: see sheet
GRID: The Neales River
BOUGUER DENSITY:
LINE: B LINE
DRIFT CORRECTION:
LINE MAGNETIC BRG: 353°
AREA MAGNETIC VARIATION:
BASE STATION: BASE 2
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: BRan
BASE LATITUDE:
DATE: 27/11/77

Station	Obs. Grav. s./divs.	Time	Elevn.	ρ_1 ρ_2 ρ_3 BOUGUER GRAV. ρ_1	ρ_2	ρ_3
BASE 2	27 18.71	10^{20}	—			
00/B700N	24.93	11^{03}	52.77			
88	2490	11^{09}	52.81			
89	24.86	11^{15}	52.93			
9800N	24.69	11^{24}	53.62			
91	24.70	11^{30}	53.13			
92	24.74	11^{34}	53.02			
93	24.84	11^{39}	53.01			
94	24.83	11^{44}	52.94			
95	24.75	11^{50}	53.47			
96	24.90	11^{57}	53.17			
97	25.02	12^{03}	52.77			
98	25.12	12^{10}	52.79			
99	25.11	12^{15}	53.13			
10000N	25.17	12^{25}	52.81			
101	25.06	12^{34}	53.09			
102	25.12	12^{39}	52.72			
103	25.18	12^{45}	52.35			
104	25.11	12^{50}	52.76			
105	25.02	12^{56}	53.19			
106	25.06	13^{03}	52.81			
107	24.74	13^{09}	53.99			
108	24.74	13^{15}	53.72			
109	24.71	13^{21}	53.61			
11000N	24.63	13^{28}	53.41			
111	24.60	13^{35}	53.25			
112	24.55	13^{40}	53.23			
113	2724.45	13^{46}	53.09			

Also ~~steel picket~~. w coal peg.

Steel picket + disc

Edge large flat.

Notes:

Rain again today.

(6)

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

000094

CLIENT: The BHP Co Ltd
METER: Lacoste 37
AREA: EL 369
METER CALIBRATION: see sheets
GRID: Neales River
BOUGUER DENSITY:
LINE: Baseline
DRIFT CORRECTION:
LINE MAGNETIC BRG: 353°
AREA MAGNETIC VARIATION:
BASE STATION: Base 2
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: Brian
BASE LATITUDE:
DATE: 27/11/77

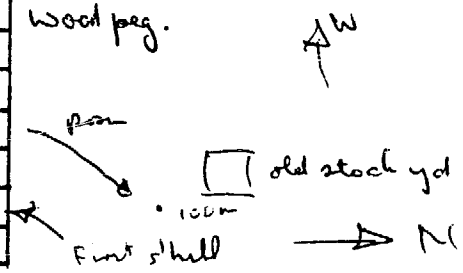
Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3	
11400N	2724.22	1355	52.98				by track to s'yard
115	24.07	1400	52.68				
116	23.85	1406	52.37				
117	23.72	1411	52.27				
118	23.45	1419	52.50				
119	23.23	1425	52.34				
12000N	23.17	1434	52.11				steel pickets.
121	22.98	1441	51.79				
122	22.90	1447	51.40				
123	22.82	1452	50.61				
124	22.62	1457	50.62				
125	22.40	1502	50.10				sand hill "clumps"
126	22.15	1508	50.32				CK
127	21.87	1513	50.41				op green tree
128	21.61	1517	50.91				
129	21.32	1522	50.52				
13000N	21.15	1529	50.19				
131	20.98	1535	50.[illegible]				
132	20.80	1540	50.17				11 water course
133	20.58	1550	50.[illegible]				xa cross water from base
134	20.42	1556	49.89				
135	20.23	1602	49.90				
136	20.04	1607	49.67				
137	19.68	1612	50.33				
138	19.70	1617	49.[illegible]				CK
139	19.43	1623	49.[illegible]				
14000N	18.98	1632	49.93				new large tree
BASE 2	2718.73	1656	-				

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: The BHP Co Ltd
METER: Lacoste [illegible]
AREA: EL 369
METER CALIBRATION: see sheet
GRID: Neales River
BOUGUER DENSITY:
LINE: 12000N
DRIFT CORRECTION:
LINE MAGNETIC BRG: 83|263°
AREA MAGNETIC VARIATION: -1°E
BASE STATION: BASE 2
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: BRan
BASE LATITUDE:
DATE: 2-12-77

Station	Obs. Grav. s./divs.	Time	Elevn.	ρ_1 ρ_2 ρ_3 BOUGUER GRAV. ρ_1	ρ_2	ρ_3	
BASE 2	27 18·71	827					
12N 100E	23·35	942	51.99				
2	23.45	949	51.81				
3	23·49	953	51.57				near small clr
4	23.42	1001	52.06				
5	23.57	1010	51.39				
6	23.62	1015	51.20				
7	23·70	1020	51.13				
8	23·77	1025	51.07				
9	23·78	1030	50.87				
1000E	23·73	1036	50.92				wood peg.
12N 100W	23·15	1059	52 15				
2	23·01	1105	52.58				
3	22·87	1110	52·81				
4	22·68	1115	53·39				
5	22·66	1120	53·06				
6	22·73	1125	52 56				
7	22·50	1130	52·48				
8	22·33	1135	52·08				
9	22·07	1141	52·31				
1000W	21·89	1149	52·40				wood peg.
11	21·70	1153	52.49				
12	21.58	1200	52 67				
13	21.34	1205	53·26				
14	21.10	1212	53.67				
15	20.24	1219	57 15				
1600W	20.23	1226	56 99				



Notes: after rain ??? finished???

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: The BHP Co Ltd
METER: Lacoste # 37
AREA: EL 369
METER CALIBRATION: (see blocks)
GRID: Neales River
BOUGUER DENSITY:
LINE: 12000N
DRIFT CORRECTION:
LINE MAGNETIC BRG: 83|263°
AREA MAGNETIC VARIATION: 7°E
BASE STATION: BASE 2
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: BRan
BASE LATITUDE:
DATE: 2-12-77

	Station	Obs. Grav. s./divs.	Time	Elevn.	ρ_1 ρ_2 ρ_3 BOUGUER GRAV. ρ_1	ρ_2	ρ_3	
12 N	17000W	2720.06	1233	57.46				
	18	20.41	1239	55.97				opp lake (claypan?)
	19	20.83	1245	53.99				ck
	20000W	20.56	1254	54.95				used peg.
	21	20.69	1300	54.26				ck.
	22	20.52	1312	54.56				ck
	23	20.48	1319	54.81				
	24	20.30	1334	55.00				ck
	25	19.71	1342	57.21				
	26	19.93	1350	55.92				
	27	19.99	1357	55.40				
	28	19.54	1411	56.78				
	29	19.71	1417	55.62				
	30000W	19.48	1424	56.28				peg. creek edge amp B.
	31	19.33	1437	56.36				
	32	19.24	1442	56.27				
*	33	19.13	1451	55.97				
*	34	19.04	1455	56.22				
*	35	18.96	1505	56.19				
*	36	18.88	1512	56.52				
	37	18.56	1520	57.44				
	38	18.55	1525	57.12				peg "small" by road.
	39	18.64	1533	56.78				moved 50m ⊥ to S as too much water in way
	40000W	18.47	1540	56.75				
	BASE 2	18.65	1553	—				

Notes: * seismic disturbance

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: The BHP Co Ltd
AREA: EL 369
GRID: Nanbo River
LINE: 12000 N
LINE MAGNETIC BRG: 83°
BASE STATION: BASE 2
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:

METER: Lacoste #137
METER CALIBRATION: see charts
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION:

OPERATOR: BKan
DATE: 3-11-77

Station	Obs. Grav. s./divs.	Time	Elevn.	ρ_1 ρ_2 ρ_3 BOUGUER GRAV. ρ_1	ρ_2	ρ_3
BASE 2	27 18.77	8^{11}				
12N/1100E	23.67	8^{44}	50.64			
12	23.69	8^{49}	50.45			
13	23.66	8^{55}	50.49			
14	23.75	9^{00}	50.32			
15	23.73	9^{22}	50.32			
16						
17						
19						
2000E						

too boggy to go on — Nanbu Creek also flowing strong. new line

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: The BHP Co Ltd
METER: Lacoste #11 37
AREA: EL 369
METER CALIBRATION: see sheets
GRID: Neale River
BOUGUER DENSITY:
LINE: 10000N
DRIFT CORRECTION:
LINE MAGNETIC BRG: 83°
AREA MAGNETIC VARIATION:
BASE STATION: BASE 2
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: BRan
BASE LATITUDE:
DATE: 3-12-77

Station	Obs. Grav. s./divs.	Time	Elevn.	ρ_1 ρ_2 ρ_3 BOUGUER GRAV. ρ_1	ρ_2	ρ_3
10N/100W	2725.08	1116	52.97			
2	24.93	1120	53.13			
3	24.61	1125	53.41			
4	24.56	1131	53.02			
5	24.38	1138	53.13			
6	24.16	1143	53.70			
7	23.90	1148	54.15			
8	23.86	1156	53.85			
9	23.82	1203	53.70			
10W	23.67	1212	53.80			
11	23.51	1220	54.13			
12	23.26	1230	54.86			
13	23.29	1236	54.66			
14	23.31	1242	54.69			
15	23.26	1247	55.23			
16	23.37	1253	54.84			
17	23.31	1300	54.64			
18	23.17	1308	54.81			
19	23.11	1313	54.81			
20W	22.89	1320	55.20			
21	22.67	1325	55.46			
22	22.52	1330	55.52			
23	22.55	1335	55.36			
24	22.57	1340	55.16			
25	22.30	1345	55.84			
26	22.0	1352	57.10			
27	22.24	1357	55.78			
28W	22.14	1405	56.00			

400m south Base

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

000099 11

CLIENT: The BHP Co Ltd
METER: Lacoste #37
AREA: E.L 369
METER CALIBRATION: see check.
GRID: Neales River
BOUGUER DENSITY:
LINE: 10000N
DRIFT CORRECTION:
LINE MAGNETIC BRG: 263
AREA MAGNETIC VARIATION:
BASE STATION: BASE 2
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: BRan
BASE LATITUDE:
DATE: 3/12/77

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3: BOUGUER GRAV. P_1	P_2	P_3	
29000N	2722.15	1410	55 67				
30000N	21.71	1416	57.57				wood peg 1st sand dune
31	21.37	1424	59.0				
32	21.25	1431	59.11				west side s'hill
33	21.30	1437	58.62				
34	21.22	1446	58.18				steel peg. old fence 174° mag.
35	21.25	1451	57.45				
36	21.18	1456	57.29				
37	21.16	1500	56.85				
38	21.10	1505	56.85				
39	20.93	1510	57.10				
40000N	20.71	1515	57.48				peg. end of line
BASE 2	18.70	~~1550~~					

Notes:

(12)

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: The BAP Co Ltd
METER: Lacoste # 31
AREA: EL 369
METER CALIBRATION: see sheet.
GRID: Neales River
BOUGUER DENSITY:
LINE: 10000N
DRIFT CORRECTION:
LINE MAGNETIC BRG: 83°
AREA MAGNETIC VARIATION: 7°E
BASE STATION: BASE 2
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: B Ram
BASE LATITUDE:
DATE: 3-12-77

Station	Obs. Grav. s./divs.	Time	Elevn.	ρ_1 ρ_2 ρ_3 BOUGUER GRAV. ρ_1	ρ_2	ρ_3	
BASE 2	2718·66	755					
10N/100E	25.53	829	52.69				
2	25.48	835	53.67				
3	25.73	842	52.57				beacon stopped 280E & turned north
4	25.81	854	53.82				
5	26.12	905	52.98				
6	26.28	910	52.54				
7	26.41	918	52.12				
8	26.41	926	52.24				
9	26.56	934	51.67				
100E	26.53	940	51.89				road peg.
11	26.59	947	51.45				
12	26.50	954	51.31				
13	26.35	1000	51.43				
14	26.25	1006	51.40				
15	26.23	1012	51.31				
16	26.23	1017	51.05				
17	26.17	1022	51.01				
18	26.33	1028	50.56				
19	26.42	1036	50.37				
200E	26.41	1044	50.32				peg
21	26.49	1050	50.24				
22	26.45	1055	50.18				
23	26.33	1102	50.41				
24	26.19	1110	50.57				
25	26.17	1116	50.58				
26	26.16	1121	50.65				

Notes:

Cold windy day.

000101

(13)

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: The BHP Co Ltd
METER: Lacoste #37
AREA: EL 369
METER CALIBRATION: per sheet.
GRID: Neale River
BOUGUER DENSITY:
LINE: 10000N
DRIFT CORRECTION:
LINE MAGNETIC BRG: 83°
AREA MAGNETIC VARIATION:
BASE STATION: BASE 2
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: 3-12 → BRa
BASE LATITUDE:
DATE: 3-12-77

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3	
2700E	27 26.19	1129	50.55				
28	26.26	1134	50.46				
29	26.37	1139	50.26				
3000E	26.49	1144	50.23				320 m to Urban Ck
31	26.55	1152	49.88				
32	26.59	1158	49.43				
33	26.61	1204	49.26				
34	26.59	1209	49.06				
35	26.44	1214	48.99				
36	26.23	1220	48.94				
37	26.13	1226	48.88				
38	25.90	1231	48.88				
39	25.72	1237	49.01				
4000E	25.55	1249	49.02				Wood peg.
41	25.45	1254	49.00				
42	25.28	1303	48.95				
43	25.11	1308	48.97				
44	25.05	1314	48.71				
45	25.02	1320	48.28				
46	24.90	1330	48.27				
47	24.76	1335	48.44				
48	24.65	1340	48.38				
49	24.53	1347	48.24				
5000E	24.37	1354	48.19				peg.
BASE 2	18.79	1457					

Notes:

(14)

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: The B.H.P Co Ltd. METER: Lacoste #37

AREA: EL 369 METER CALIBRATION: see sheets

GRID: Neales River BOUGUER DENSITY:

LINE: 10000N DRIFT CORRECTION:

LINE MAGNETIC BRG: 83° AREA MAGNETIC VARIATION: 7°E

BASE STATION: ~~Base~~ 2

BASE NOMINAL GRAV:

BASE NOMINAL ELEVN: OPERATOR: BPan

BASE LATITUDE: DATE: 5-12-77

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3	
Base 2	18.70	7⁵⁰	—				
10N/5100E	27 ~~24.24~~ ~~18.70~~	~~8⁴⁴~~ ~~7⁵⁰~~	48.10				
52	24.17	8⁵⁰	48.22				
53	24.03	8⁵⁷	48.10				
54	23.99	9⁰¹	48.05				
55	23.87	9⁰⁷	48.06				
56	23.90	9¹³	48.09				
57	23.84	9¹⁹	48.19				
58	23.74	9²⁴	48.34				Rabbit warren.
59	23.58	9²⁹	48.85				
6000E	23.48	9³⁵	48.71				wood peg.
61	23.36	9⁴¹	48.80				
62	23.21	9⁴⁸	48.92				
63	23.15	9⁵⁵	48.84				
64	22.92	10⁰¹	49.14				
65	22.95	10⁰⁷	49.01				
66	22.96	10¹⁴	48.45				and bushes.
67	22.95	10²⁰	48.01				
68	22.82	10²⁵	48.02				
69	22.72	10³¹	47.91				
7000E	22.61	10³⁷	47.67				wood peg.
71	22.40	10⁴⁴	47.95				
72	22.46	10⁴⁹	47.66				
73	22.39	10⁵⁵	47.45				
74	22.30	11⁰⁰	47.42				
75	22.36	11⁰⁵	47.0				
76	22.47	11¹²	46.59				
* 77	22.59	11¹⁸	46.08				CK work to Unbum.
78	22.47	11²⁴	46.46				

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

(15)

CLIENT: The BHP Co Ltd
AREA: EL 369
GRID: Neales River
LINE: 100000N
LINE MAGNETIC BRG: 83°
BASE STATION: BASE 2
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:

METER: LaCoste 1137
METER CALIBRATION: see sheets.
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION: 7°E
OPERATOR: ~~4-12~~ BRain
DATE: 4-12-77

Station	Obs. Grav. s./divs.	Time	Elevn.	ρ_1 ρ_2 ρ_3 BOUGUER GRAV. ρ_1	ρ_2	ρ_3	
7950E	2722.54	1132	46.14				
8000E	22.43	1139	46.55				wood peg
81	22.39	1145	46.88				
82	22.43	1151	46.72				
83	22.73	1156	45.68				deep cutting into ck
84	22.64	1202	46.23				
85	22.66	1212	46.60				
86	22.77	1217	46.42				
87	23.07	1223	45.36				
88	23.39	1227	44.49				
89	23.63	1233	43.75				
9000E	23.73	1239	43.85				wood peg.
91	23.81	1245	43.99				
92	24.07	1250	42.92				
93	24.49	1255	41.11				
94	24.76	1211	40.75				Boggy walking Neales ck flood plain.
95	24.96	1230	40.13				
96	25.19	1237	39.60				edge Neales River channel.
97			41.26				
BASE 2	2718.76	1520					

Notes:

000104

(16)

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: The BHP Co Ltd
METER: LaCoste #37
AREA: EL 369
METER CALIBRATION: pre & last
GRID: Neales River
BOUGUER DENSITY:
LINE: 8000N
DRIFT CORRECTION:
LINE MAGNETIC BRG: 263°
AREA MAGNETIC VARIATION: 7E
BASE STATION: Base 2
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: BRan
BASE LATITUDE:
DATE: 5-12-77

Station	Obs. Grav. s./divs.	Time	Elevn.	ρ_1 ρ_2 ρ_3 BOUGUER GRAV. ρ_1	ρ_2	ρ_3	
Base 2	2718.67	7[51]	—				
Base 3 00 8600N	25.20	8[15]	51.41				
00 8000N	25.27	8[53]	53.64				
100W	25.09	9[03]	53.73				
2	25.04	9[10]	53.76				
3	25.03	9[15]	53.56				
4	25.12	9[21]	52.75				
5	25.96	9[30]	48.69				centre Umbum Ck.
6	25.59	9[39]	49.89				W side Ck.
7	25.31	9[50]	51.17				
8	25.30	9[56]	51.15				
9	24.92	10[02]	52.82				
1000W	24.59	10[08]	54.44				wood peg.
11	24.57	10[15]	54.48				
12	24.52	10[20]	54.99				
13	24.61	10[26]	54.79				
14	24.58	10[32]	54.96				
15	24.61	10[37]	54.90				
16	24.59	10[42]	54.89				
17	24.63	10[48]	54.83				
18	24.42	10[53]	55.53				
19	24.38	10[59]	55.39				
2000W	24.38	11[04]	55.40				
21	24.39	11[10]	55.41				
22	24.40	11[16]	55.10				
23	24.45	11[22]	55.24				
24	24.33	11[27]	55.36				
25 00W	24.25	11[33]	55.80				

Notes:

(17)

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: The BHP Co LTD
METER: LaCoste #1-37
AREA: EL 369
METER CALIBRATION: see sheets.
GRID: Neales River
BOUGUER DENSITY:
LINE: 8000N
DRIFT CORRECTION:
LINE MAGNETIC BRG: 263°
AREA MAGNETIC VARIATION:
BASE STATION: BASE 2
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: BRan
BASE LATITUDE:
DATE: 5-12-77

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV.		
				P_1	P_2	P_3
2600W	2724.28	1142	55.40			
27	24.15	1149	55.88			
28	24.15	1155	55.73			
29	24.10	1201	55.57			
3000W	23.80	1206	56.83			
31	23.81	1213	56.06			
32	23.59	1218	56.55			
33	23.43	1224	56.56			
34	23.11	1228	57.05			
35	22.88	1233	57.39			
36	22.74	1238	57.41			
37	22.62	1244	57.62			
38	22.37	1250	58.16			
39	22.18	1255	57.98			
4000W	22.09	1300	58.02			
BASE 2	2718.70	1345	—			

Notes:

000106

(18)

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: The BHP Co Ltd
METER: LaCoste #37
AREA: EL 369
METER CALIBRATION: see sheet.
GRID: Neales River
BOUGUER DENSITY:
LINE: 14000N
DRIFT CORRECTION:
LINE MAGNETIC BRG: 263
AREA MAGNETIC VARIATION:
BASE STATION: BASE 2
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: B Rau
BASE LATITUDE:
DATE: 6-12-97

Station	Obs. Grav. s./divs.	Time	Elevn.	ρ_1 ρ_2 ρ_3 BOUGUER GRAV. ρ_1	ρ_2	ρ_3	
BASE 2	2118.13	733					
17000N	18.43	745	50.79				wedge of track.
18	18.33	755	50.94				
19	17.93	800	51.56				
20000N	17.61	809	52.48				wood peg
21	17.13	815	53.83				
22	16.74	821	54.44				
23	16.67	826	54.37				
24	16.46	832	54.86				track
25	16.52	839	54.52				
26	16.67	844	53.65				CK.
27	16.33	850	54.67				
28	16.22	855	54.92				
29	16.88	900	55.66				
30000N	15.90	906	56.09				wood peg
31	15.83	912	56.29				
32	15.81	918	56.33				
33	15.72	924	56.46				
34	15.62	929	56.71				
35	15.49	934	57.00				
36	15.47	939	56.92				
37	15.58	944	56.56				
38	15.48	948	56.64				
39	15.30	954	57.02				
40000N	15.48	1001	56.24				wood peg

Notes:

(19)

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: The BHP Co Ltd
METER: Lacoste [illegible]
AREA: EL 369
METER CALIBRATION: [illegible]
GRID: Neales River
BOUGUER DENSITY:
LINE: 14000N
DRIFT CORRECTION:
LINE MAGNETIC BRG: 83°
AREA MAGNETIC VARIATION: 1°E
BASE STATION: Base 2
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: BRan
BASE LATITUDE:
DATE: 6.12.81

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3	
1600W	2718.54	10^{26}	50.73				
15	18.73	10^{31}	50.33				parallel 10m to old line out
14	18.72	10^{36}	50.51				
13	18.80	10^{41}	50.41				
12	18.86	10^{45}	50.39				
11	18.88	10^{50}	50.32				
1000W	18.98	10^{55}	50.14				wood peg.
9	18.92	10^{59}	50.03				
8	18.98	11^{04}	49.93				
7	18.61	11^{09}	51.48				
6	18.92	11^{14}	50.31				
5	18.93	11^{20}	49.88				
4	18.95	11^{25}	49.93				
3	19.02	11^{30}	49.32				
2	19.0	1135	49.56				
1000W	19.0	1140	49.75				
00	—						steel peg.
1000E	19.01	1150	50.14				
2	19.36	11^{55}	48.92				ex. creek.
3	19.48	12^{04}	49.03				
4	19.43	12^{09}	49.08				
5	19.67	12^{14}	48.38				
6	19.53	12^{19}	49.25				
7	19.76	12^{21}	48.50				
8	19.96	12^{32}	48.06				
9	20.12	12^{37}	47.69				
2000E	20.11	12^{43}	47.75				

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: THE BHP CO. LTD
METER: LACOSTE #137
AREA: EL 369 LAKE EYRE WEST
METER CALIBRATION: RICHARDS
GRID: NEALES RIVER
BOUGUER DENSITY:
LINE: 14000 N
DRIFT CORRECTION:
LINE MAGNETIC BRG: E30°
AREA MAGNETIC VARIATION: -10°
BASE STATION: BASE 2.
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: R. RAO.
BASE LATITUDE:
DATE: 6-12-77

Station	Obs. Grav. s./divs.	Time	Elevn.	ρ_1 ρ_2 ρ_3 BOUGUER GRAV.		
				ρ_1	ρ_2	ρ_3
1100E	2719.98	1256	48.29			
12	20.30	1259	47.52			
13	19.93	1304	48.57			
14	20.05	1308	48.75			
15	20.07	1313	48.81			
16	20.27	1317	48.12			
17	20.35	1321	48.13			
18	20.43	1325	47.81			
19	20.24	1330	48.78			
2000E	20.16	1335	49.08			
BASE 2	2718.65	1405				

Notes:

(21)

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: The BHP Co Ltd
METER: LaCoste #1 37
AREA: EL 369
METER CALIBRATION: Dec. check.
GRID: Neale Rwol
BOUGUER DENSITY:
LINE: 12000N
DRIFT CORRECTION:
LINE MAGNETIC BRG: 83°
AREA MAGNETIC VARIATION: 7°E
BASE STATION: Base 2
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: [illegible]
BASE LATITUDE:
DATE:

Station	Obs. Grav. s./divs.	Time	Elevn.	ρ_1 ρ_2 ρ_3 BOUGUER GRAV. ρ_1	ρ_2	ρ_3
Base	718.69	716				
1600E	23.72	755	50.22			
17	23.62	802	50.11			
18	23.60	807	50.11			
19	23.65	812	49.90			
2000E	23.64	818	49.84			
21	23.68	829	49.73			
22	23.74	829	49.59			
23	23.80	834	49.64			
24	23.81	838	49.54			
25	23.98	845	49.51			
26	24.05	850	49.11			
27	24.11	854	48.93			
28	24.11	859	48.77			
29	24.02	903	48.77			
3000E	23.89	909	48.66			
31	23.88	914	48.64			
32	23.82	918	48.42			
33	23.66	923	48.48			
34	23.56	927	48.52			
35	23.44	932	48.61			
36	23.42	936	48.53			
37	23.42	941	48.24			
38	23.25	946	48.20			
39	23.18	950	48.18			
4000E	23.03		48.39			

wood pg.

Notes:

(27)

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: THE BHP CO LTD
AREA: EL 369 LAKE EYRE WEST
GRID: NEALES RIVER.
LINE: 12000N
LINE MAGNETIC BRG: 83°
BASE STATION: BASE 2,
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:

METER: LACOSTE -11-37
METER CALIBRATION: PEAK CHART
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION: 7°E
OPERATOR: [illegible]
DATE: 8/12/71

Station	Obs. Grav. s./divs.	Time	Elevn.	ρ_1 ρ_2 ρ_3 BOUGUER GRAV. ρ_1	ρ_2	ρ_3
4100	2722.95	10^{01}	47.98			
42	22.88	10^{08}	47.74			
43	22.79	10^{14}	47.75			
44	22.63	10^{17}	48.09			
45	22.43	10^{21}	48.48			
46	22.94	10^{26}	45.86			
47	22.90	10^{31}	45.83			
48	22.70	10^{35}	46.69			
49	22.61	10^{40}	46.92			
5000E	22.59	10^{45}	46.97			
51	22.73	10^{49}	46.59			
52	22.54	10^{55}	47.25			
53	22.52	11^{59}	46.91			
54	22.39	11^{04}	46.70			
55	22.09	11^{08}	47.50			
56	21.86	11^{13}	47.95			
57	21.71	11^{18}	48.07			
58	21.59	11^{23}	47.98			
59	21.62	11^{26}	47.52			
6000E	21.49	11^{31}	47.38			
BASE 2	2718.69	12^{07}				
BASE 1	2721.93	11^{12}				
WICK	2746.65	16^{20}				
BASE 2	2719.0	20^{14}				

Wood [illegible].

BASE 2793.9308

Notes: See mines dept. sheet for William Ck base loc...

000111

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: THE BHP CO LTD
AREA: EL-369 LAKE EYRE WEST
GRID: NEALES RIVER
LINE: Base LINE 00
LINE MAGNETIC BRG: 353°
BASE STATION: BASE No. 2
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:

METER: LACOSTE # G-57
METER CALIBRATION: TEMP. CHART
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION: 7°E
OPERATOR: BRan
DATE:

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3
BASE 2	2718.79	8[36]				
14100	18.86	9[10]	49.59			
142	18.94	9[15]	48.72			
143	18.47	9[19]	49.85			
144	18.43	9[24]	48.94			
145	18.29	9[33]	48.75			
146	18.09	9[37]	48.73			
147	17.95	9[42]	48.65			
148	17.71	9[47]	48.54			
149	17.59	9[52]	48.33			
15000N	17.37	9[58]	48.18			
151	17.21	10[03]	48.12			
152	17.0	10[09]	48.05			
153	16.72	10[14]	48.17			
154	16.55	10[19]	47.50			
155	16.38	10[25]	47.87			
156	16.41	10[30]	46.57			
157	16.07	10[36]	47.13			
158	15.69	10[42]	47.06			
159	15.54	10[48]	47.06			
16000N	15.4	10[53]	46.77			
161	15.23	10[58]	46.57			
162	14.97	11[03]	46.87			
163	14.68	11[09]	46.83			
164	14.45	11[15]	46.75			
165	14.38	11[20]	46.32			
166	14.08	11[24]	46.55			

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: The BHP Co LTD
METER: LaCoste
AREA: EL 369
METER CALIBRATION:
GRID: Neales River
BOUGUER DENSITY:
LINE: Baseline
DRIFT CORRECTION:
LINE MAGNETIC BRG: 355°
AREA MAGNETIC VARIATION:
BASE STATION: Base 2
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR:
BASE LATITUDE:
DATE:

Station	Obs. Grav. s./divs.	Time	Elevn.	ρ_1 ρ_2 ρ_3 BOUGUER GRAV.			
				ρ_1	ρ_2	ρ_3	
16700N	2713.44	1129	48.24				
168	13.30	1139	48.39				
169	13.14	1140	48.14				
17000N	12.94	1145	47.66				wood pegs
171	12.80	1155	47.61				
172	12.23	1200	49.11				
173	11.40	1206	51.63				
174	11.04	1211	52.31				
175	11.08	1216	51.72				
176	11.79	1223	47.52				
177	11.62	1229	47.51				
178	11.23	1234	47.92				
179	11.04	1240	47.74				
18000N	10.94	1245	47.42				wood pegs
181	10.79	1250	47.66				
182	10.48	1254	47.98				
183	09.42	1300	51.56				
184	08.94	1305	53.55				
185	08.75	1310	53.11				
186	08.59	1314	53.08				
187	08.19	1317	53.71				
188	08.01	1322	54.25				
189	07.76	1326	54.47				
19000N	07.55	1333	54.45				wood pegs
BASE 2	18.73	1345					

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: THE B+H.P Co Ltd
METER:
AREA: EK 369
METER CALIBRATION:
GRID: Needles River
BOUGUER DENSITY:
LINE: 14000N
DRIFT CORRECTION:
LINE MAGNETIC BRG: S30°
AREA MAGNETIC VARIATION:
BASE STATION: BASE 2
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: Blan
BASE LATITUDE:
DATE: 10-12-77

Station	Obs. Grav. s./divs.	Time	Elevn.	ρ_1 ρ_2 ρ_3 BOUGUER GRAV. ρ_1	ρ_2	ρ_3	
BASE 2	2718.84	740					
21000E	20.21	810	49.42				
22	20.24	816	49.47				
23	20.38	821	49.05				
24	20.51	826	48.53				
25	20.71	832	47.57				
26	20.50	836	48.60				
27	20.49	840	48.68				
28	20.44	846	48.77				
29	20.46	850	48.74				
30000E	20.46	858	48.39				wood peg.
31	20.58	903	48.10				
32	20.65	908	48.06				
33	20.35	912	48.90				
34	20.60	919	47.66				
35	20.72	924	46.92				
36	20.78	929	46.51				
37	20.82	933	45.94				
38	20.98	938	45.17				
39	20.92	944	45.64				
40000E	20.84	949	45.76				wood peg
41	20.86	955	45.32				
42	20.89	1000	44.96				near green L HS. Line + River Needles River
43	20.94	1005	44.66				—"—
44	20.88	1010	44.51				—"—
45	20.84	1015	44.35				—"—
46	20.85	1020	43.57				

Notes:

(24)

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: THE BHP Co. Ltd
AREA: EL 369
GRID: NEW ESTABLISHED
LINE: 14000N
LINE MAGNETIC BRG: 83°
BASE STATION: BASE 2
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:

METER:
METER CALIBRATION:
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION:
OPERATOR: BHan
DATE: 10-12-77

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV.		
				P_1	P_2	P_3
4700	2720.88	1025	43·30			
48	20.74	1032	42.74			
49	20.64	1041	42.76			
5000E	20.28	1049	43·87			
51	19.92	1054	44·85			
52	19.68	1059	45·52			
53	19.53	1105	45·71			
54	19.71	1111	44·45			
55	19.72	1115	44·54			
56	19.24	1120	46·24			
57	18.90	1125	47·51			
58	18.88	1130	47·56			
59	18.86	1136	47·56			
6000E	19.11	1141	46·60			
61	19.04	1145	46·47			
62	19.05	1151	46·45			
63	19.08	1156	46·37			
64	18.96	1201	46·62			
65	18.98	1205	46·35			
66	19.07	1209	46·09			
67	18.97	1214	46·09			
68	19.00	1217	46·18			
69	18.95	1222	46·32			
7000E	18.88	1228	46·41			
7100	18.92	1235	46·25			
72	19.03	1248	45·90			
73	19.02	1252	45·76			
74	19.04	1257	45·56			

Riverbed Nardoo Rise
—11—
slimy bottom.
wood peg E edge Rise

wood peg

Notes:

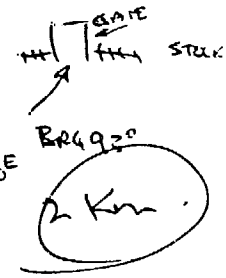
000115

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: THE BHPC LTD
METER:
AREA: EL. 369.
METER CALIBRATION:
GRID: NEPLES RIVER
BOUGUER DENSITY:
LINE: 14000N
DRIFT CORRECTION:
LINE MAGNETIC BRG: 83°
AREA MAGNETIC VARIATION:
BASE STATION: BASE 2
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: BRam
BASE LATITUDE:
DATE:

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3
7800E	2719.0	1302	45.74			
76	19.02	1306	45.62			
77	18.99	1309	45.59			
78	18.97	1314	45.66			
79	19.05	1318	45.47			
8000E	19.00	1322	45.89			
BASE 2	18.62	1431				

wood peg near ~~track~~ highway



Notes:

(28)

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: The B.H.P Co Ltd
METER: LaCoste #37
AREA: E.L. 369
METER CALIBRATION: see sheet
GRID: Neales River
BOUGUER DENSITY:
LINE: 12000 N
DRIFT CORRECTION:
LINE MAGNETIC BRG: 83°
AREA MAGNETIC VARIATION: 7°E
BASE STATION: ~~BASE~~ 2
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: BRan
BASE LATITUDE:
DATE: 11-12-77

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3
~~BASE~~ 2	27 18.92	8⁰⁵				
6100 E	21.90	8⁴¹	46.00			
62	21.92	8⁴⁷	45.28			
63	22.02	8⁵²	44.63			
64	22.23	8⁵⁹	43.28			
65	22.29	9⁰⁵	42.20			
66	22.08	9¹⁰	43.43			
67	22.21	9¹⁶	42.30			
68	22.30	9²⁶	41.49			
69	22.01	9²²	42.51			
7000 E	21.72	9³⁹	43.70			
71	21.48	9⁴⁴	44.24			
72	21.33	9⁴⁹	44.43			
73	21.32	9⁵⁴	44.31			
74	21.34	10⁰¹	44.23			
75	21.39	10⁰⁶	43.47			
76	21.43	10¹⁰	43.24			
77	21.45	10¹⁵	43.08			
78	21.57	10²⁰	42.96			
79	21.46	10²⁵	43.40			
8000 E	21.34	10³¹	44.05			
81	21.17	10³⁷	44.72			
82	21.11	10⁴³	45.20			
83	21.08	10⁵⁰	45.22			
84	21.04	10⁵⁵	45.52			
85	21.08	11⁰⁰	45.33			
86	21.04	11⁰⁶	45.92			

Neales River
—"—
—"—
wood peg.

wood peg.

Notes:

(24)

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: THE BHP Co LTD
METER: LA COSTE # 37
AREA: EL. 369.
METER CALIBRATION: PER CHART
GRID: NEALES RIVER
BOUGUER DENSITY:
LINE: 12000N
DRIFT CORRECTION:
LINE MAGNETIC BRG: 83°
AREA MAGNETIC VARIATION: 7.5°E
BASE STATION: BASE 2.
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: BRan
BASE LATITUDE:
DATE: 11-12-77

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3	
8700E	2721.08	1110	46.04				
88	21.09	1115	46.25				
89	21.15	1120	46.16				
9000E	21.28	1127	46.14				wood peg
91	21.32	1132	46.14				
92	21.42	1136	46.17				
93	21.47	1141	46.15				
94	21.66	1146	45.98				
95	21.72	1151	45.97				
96	21.85	1156	45.95				
97	22.00	1201	45.74				
98	22.11	1207	45.87				
99	22.20	1211	45.75				
10000E	22.26	1221	45.84				in line swamp offset line 200 mS
101	22.47	1242	46.00				
102	22.58	1247	46.19				
103	22.73	1251	46.03				
104	22.74	1256	46.03				
105	22.82	1301	46.04				
106	22.89	1305	45.92				
107	22.98	1309	46.00				
108	23.17	1311	45.94				
109	23.29	1316	45.69				
11000E	23.03	1327	46.34				on line
BASE 2	18.53	1522					

Notes:

000118

(30)

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: THE BHP Co LTD. METER: [illegible] #32

AREA: EL. 369. METER CALIBRATION: [illegible]

GRID: NEALES RIVER. BOUGUER DENSITY:

LINE: 4000N DRIFT CORRECTION:

LINE MAGNETIC BRG: 263° AREA MAGNETIC VARIATION: [illegible]

BASE STATION: BASE 4

BASE NOMINAL GRAV:

BASE NOMINAL ELEVN: OPERATOR: B. Rau

BASE LATITUDE: DATE: 12-12-77

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3	
BASE 4	2725.36	8^18					
100W	26.22	8^51	60.45				
2	26.54	8^55	59.56				
3	26.51	9^03	60.01				
4	26.18	9^09	62.04				
5	25.92	9^15	63.40				
6	25.80	9^20	64.41				
7	25.80	9^25	64.75				
8	25.71	9^30	64.75				
9	25.88	9^36	63.78				
1000W	26.08	9^42	62.97				weed peg.
11	25.96	9^49	63.03				
12	25.83	9^54	63.40				
13	25.67	10^00	63.[illegible]				
14	25.21	10^10	65.40				
15	25.05	10^16	65.[illegible]				~~weed peg.~~
16	25.30	10^22	63.24				
17	25.39	10^27	63.25				
18	25.29	10^32	63.[illegible]				
19	25.22	10^41	6[illegible]				
2000W	25.28	10^47	60.94				weed peg.
21	25.17	10^52	60.79				
22	25.12	10^57	60.60				
23	24.97	11^01	60.64				
24	24.94	11^07	60.62				
25	24.90	11^12	60.40				
2600W	24.85	11^17	60.08				

Notes:

000119 (31)

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: THE BHP CO. LTD. METER: LACOSTE & ROMBERG

AREA: EL. 369. METER CALIBRATION:

GRID: NEALES RIVER BOUGUER DENSITY:

LINE: 4000N → 6000N DRIFT CORRECTION:

LINE MAGNETIC BRG: 263° AREA MAGNETIC VARIATION: 5°E

BASE STATION: BASE 4

BASE NOMINAL GRAV:

BASE NOMINAL ELEVN: OPERATOR: BRam

BASE LATITUDE: DATE: 12/12/77

Station	Obs. Grav. s./divs.	Time	Elevn.	ρ_1 ρ_2 ρ_3 BOUGUER GRAV. ρ_1	ρ_2	ρ_3	
2700W	24.81	11^{21}	60.14				deep ck.
28	24.82	11^{26}	59.55				
29	24.53	11^{31}	60.16				
3000W	24.16	11^{37}	61.37				wood peg. top breakaway
31	23.65	11^{47}	62.23				
32							
33							
34							
35							
36							
37							
38							
39							
4000W							
LINE 6N							
100W	26.80	12^{20}	56.15				
2	26.80	12^{25}	56.10				
3	26.70	12^{29}	56.26				
4	26.50	12^{35}	56.58				
5	26.45	12^{41}	57.05				
6	26.53	12^{47}	56.90				
7	26.54	12^{52}	57.53				
8	26.69	12^{56}	57.52				Top breakaway. down — peg, wood, deep ck.
9	27.68	13^{03}	53.43				
1000W	27.59	13^{12}	53.84				
11	27.00	13^{19}	56.65				
12	26.91	13^{27}	57.19				
13	26.96	13^{34}	57.31				

Notes:

000120

(32)

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: THE BHP CO LTD.
METER: LA COSTE # 32
AREA: EL 369.
METER CALIBRATION: [illegible]
GRID: NEALES RIVER.
BOUGUER DENSITY:
LINE: 6000N
DRIFT CORRECTION:
LINE MAGNETIC BRG: 263°
AREA MAGNETIC VARIATION: 2°E
BASE STATION: BASE 4.
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: BRam
BASE LATITUDE:
DATE: 12-12-77

Station	Obs. Grav. s./divs.	Time	Elevn.	ρ_1 ρ_2 ρ_3 BOUGUER GRAV.		
				ρ_1	ρ_2	ρ_3
14000N	27.04	1337	57.19			
15	27.13	1347	56.83			
16	27.13	1347	56.92			
17	27.14	1352	57.18			
18	27.21	1356	57.25			
19	27.06	1401	57.43			
20000N	27.68	1407	54.09			
BASE 4	25.20	1435				

Notes:

(23)

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: THE BHP CO LTD
METER: LA COSTE # 32
AREA: EL · 369
METER CALIBRATION:
GRID: MEALES RIVER
BOUGUER DENSITY:
LINE: 6000N
DRIFT CORRECTION:
LINE MAGNETIC BRG: 263°
AREA MAGNETIC VARIATION: 7°E
BASE STATION: BASE 4
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: BRan
BASE LATITUDE:
DATE:

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3	
BASE 4	27 25.28	1753					
2180W	27.66	1816	53.26				
22	27.65	1821	53.20				
23	27.63	1830	52.92				
24	27.41	1857	53.01				
25	27.27	1843	53.43				
26	26.42	1900	56.33				edg Umbum CK + wks weat edge Umbum
27	26.15	1907	56.79				
28	25.86	1912	57.14				
29	25.68	1916	57.00				
3000W	25.48	1921	57.05				wood pcy.
31	25.21	1926	57.55				
32	25.06	1931	57.25				
33	24.81	1937	57.27				
34	24.68	1942	57.37				
35	24.60	1947	57.13				
36	24.23	1952	58.09				
37	24.08	1956	58.15				
38	23.76	2002	59.33				
39	23.32	2008	60.49				
4000W	23.70	2013	58.02				
BASE 4	25.43	2031					

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: THE BHP Co ...A.
METER: LaCoste #37
AREA: EL 369
METER CALIBRATION: PER CHART
GRID: NEALES RIVER.
BOUGUER DENSITY:
LINE: 12000N
DRIFT CORRECTION:
LINE MAGNETIC BRG: 83°
AREA MAGNETIC VARIATION: 20E
BASE STATION: BASE 3
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: B Ram
BASE LATITUDE:
DATE: 13-12-77

Station	Obs. Grav. s./divs.	Time	Elevn.	ρ_1 ρ_2 ρ_3 BOUGUER GRAV. ρ_1	ρ_2	ρ_3
001 BASE 3	2725.38	8[42]				
11000E	23.14	9[21]	46.34			
111	23.30	9[41]	46.42			
112	23.28	9[47]	46.43			
113	23.38	9[52]	46.24			
114	23.56	9[57]	46.07			
115	23.51	10[03]	46.02			
116	23.62	10[08]	46.01			
117	23.66	10[12]	46.00			
118	23.64	10[16]	46.04			
119	23.72	10[21]	46.01			
12000E	23.68	10[29]	46.32			
121	23.69	10[34]	46.3			
122	23.76	10[38]	46.02			
123	23.92	10[43]	45.85			
124	23.88	10[49]	45.80			
12500	23.92	10[54]	45.62			
126	23.84	10[59]	45.78			
127	23.83	10[03]	45.87			
128	23.81	10[08]	45.89			
129	23.80	10[17]	45.96			
13000E	23.73	10[19]	45.82			
131	23.72	10[25]	45.80			
132	23.63	10[30]	45.53			
133	23.50	10[35]	45.55			
134	23.36	10[41]	45.73			
135	23.35	10[46]	45.53			

weed peg.

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: THE BHP. Co LTD.
METER: LA COSTE # 37.
AREA: EL 369.
METER CALIBRATION:
GRID: NEALES RIVER.
BOUGUER DENSITY:
LINE: 12000 N
DRIFT CORRECTION:
LINE MAGNETIC BRG: 830
AREA MAGNETIC VARIATION: 20E
BASE STATION: BASE 3.
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: B Ran
BASE LATITUDE:
DATE: 13-12-77

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3	
13000E	2723.19	1159	45.45				
137	23.18	1200	45.32				
138	22.10	1206	45.33				
139	23.06	1211	45.33				
14000E	23.04	1218	45.01				wood peg
141	22.91	1222	45.07				
142	22.88	1229	44.84				
143	22.67	1234	44.86				
144	22.59	1239	44.29				
145	22.35	1244	45.19				
146	22.27	1250	44.61				
147	22.02	1255	45.10				
148	21.86	1301	45.04				
149	21.86	1305	44.54				
15000E	21.60	1311	44.66				wood peg
151	21.45	1317	44.50				seismic disturbance
152	21.46	1323	44.37				
153	21.28	1330	44.17				
154	21.32	1335	44.06				
155	21.17	1340	43.95				
156	20.95	1345	44.12				
157	20.81	1349	44.05				
158	20.58	1354	44.57				
159	20.58	1359	44.10				
16000E	20.47	1404	43.95				
BASE 3	25.19	1522					

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: THE BUP CO LTD
METER: LA-[illegible]-134
AREA: EK. BOY.
METER CALIBRATION: [illegible]
GRID: NEALES RIVER.
BOUGUER DENSITY:
LINE: 10000N
DRIFT CORRECTION:
LINE MAGNETIC BRG: 83°
AREA MAGNETIC VARIATION: [illegible]
BASE STATION: BASE #3
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: BRan
BASE LATITUDE:
DATE: 14-12-77

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3	
BASE 3	27 25.40						
							North Line
9700E	24.94	8 12	41.26				left peg on river escarpment @ 9730E
98	23.96	8 40	46.41				
99	24.07	8 47	46.64				
BASE 45 10000	24.25	8 56	46.45				wood peg.
101	24.28	901	46.65				
102	24.53	907	46.79				
103	24.65	912	46.40				
104	24.63	917	46.70				
105	24.82	923	46.60				
106	25.01	929	46.20				
107	25.20	934	45.90				
108	25.59	939	44.05				
109	25.69	945	44.16				
11000E	26.00	951	43.56				wood peg.
111	26.37	958	43.51				drainage channel
112	25.62	1003	46.39				top of escarpment
113	25.69	1009	46.41				
114	26.02	1015	45.76				
115	26.14	1019	45.68				
116	26.23	1023	45.75				numerous pools of
117	26.38	1027	45.49				water
118	26.36	1037	45.44				
119	26.46	1042	45.51				
12000E	26.40	1047	45.66				
121	26.45	1055	45.52				
122	26.33	1059	46.12				

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: BHP CO. LTD
AREA: EL-369 LAKE EYRE WEST
GRID: NEALES RIVER.
LINE: 10000N
LINE MAGNETIC BRG: 83°
BASE STATION: BASE No3
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:

METER: LACOSTE -H-37
METER CALIBRATION: PER CHART
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION: 7°E
OPERATOR: BRian
DATE: 14-12-77

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3	
12300E	2726.83	1105	45.94				
124	26.01	1110	47.29				
125	26.01	1116	47.10				
126	25.98	1121	47.17				
127	26.02	1125	46.94				
128	26.13	1130	46.14				
129	26.03	1135	46.19				
13000E	25.99	1140	46.30				wood peg.
131	25.95	1145	46.32				
132	25.85	1150	46.39				
133	25.80	1154	46.33				
134	25.78	1159	46.19				
135	25.75	1203	46.0				
136	25.63	1209	46.04				
137	25.42	1213	46.00				
138	25.26	1219	46.29				
139	25.18	1223	46.16				
14000E	25.11	1228	46.01				wood peg.
141	25.04	1234	45.94				
142	25.03	1239	45.83				
143	24.90	1245	45.75				
144	24.82	1251	45.51				
145	24.72	1256	45.45				tree
146	24.63	1305	45.59				
147	24.56	1310	45.33				
148	24.50	1317	45.34				
149	24.34	1323	45.39				
15000E	24.35	1329	45.31				

Notes:

000126

(3x)

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: BHP. CO. LTD
AREA: EL-369 LAKEEYRE WEST
GRID: NEALES RIVER
LINE: 10000 N
LINE MAGNETIC BRG: 83°
BASE STATION: BASE 3.
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:

METER: LACOSTE # 37.
METER CALIBRATION: PER CHART
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION: 7° E
OPERATOR: BRan
DATE:

Station	Obs. Grav. s./divs.	Time	Elevn.	ρ_1 ρ_2 ρ_3 BOUGUER GRAV. ρ_1	ρ_2	ρ_3
15100E	2724.20	1336	45.30			
152	24.04	1342	45.44			
153	24.04	1348	45.22			
154	23.99	1354	45.00			
155	23.98	1400	44.62			
156	23.97	1406	44.50			
157	23.89	1411	44.50			
158	23.99	1417	44.20			
159	23.82	1422	44.05			
16000E	23.72	1429	44.02			
BASE 3	24.86	1522				

numerous water readings

wood peg.

Notes:

V. Hot today.

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: BHP. CO. LTD.
METER: LACOSTE #37
AREA: EL-369 LAKE EYRE WEST
METER CALIBRATION: TER CHART
GRID: NEALES RIVER
BOUGUER DENSITY:
LINE: 10000N
DRIFT CORRECTION:
LINE MAGNETIC BRG: 83°
AREA MAGNETIC VARIATION: 7°E
BASE STATION: NO3.
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: BRam
BASE LATITUDE:
DATE: 15-12-77

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3	
Base 3	2725.03	8[08]					
Base No 5 10N/10E	23.96	8[44]					
16100E	23.38	9[12]	44.42				
162	23.40	9[18]	44.21				
163	23.24	9[24]	44.92				
164	23.16	9[31]	45.29				
165	22.95	9[36]	45.43				
166	22.94	9[42]	45.46				
167	23.04	9[47]	45.23				
168	22.92	9[52]	45.14				
169	23.0	9[59]	44.78				
17000E	22.90	10[04]	42.03				wood peg.
171	22.90	10[11]	44.89				
172	23.03	10[18]	43.93				
173	23.10	10[23]	43.41				
174	23.09	10[27]	43.36				
175	23.20	10[33]	42.95				
176	23.11	10[40]	43.6				
177	23.05	10[45]	43.22				
178	22.84	10[52]	44.03				
179	22.80	10[57]	44.56				
18000E	22.73	10[07]	44.91				
181	22.78	10[14]	44.84				
182	22.73	10[19]	44.82				
183	22.80	10[25]	44.74				
184	22.82	10[30]	44.60				
185	22.91	11[37]	44.14				

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: BHP CO LTD
METER: LACOSTE #37
AREA: EL-369 LAKE FYRE WEST
METER CALIBRATION: PER CHART
GRID: NEALES RIVER.
BOUGUER DENSITY:
LINE: 10000N
DRIFT CORRECTION:
LINE MAGNETIC BRG: 83°
AREA MAGNETIC VARIATION: 7°E
BASE STATION: NO 3.
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: BRen
BASE LATITUDE:
DATE: 15-12-77

Station	Obs. Grav. s./divs.	Time	Elevn.	ρ_1 ρ_2 ρ_3 BOUGUER GRAV. ρ_1	ρ_2	ρ_3	
18600E	2722.96	1143	43.76				
187	23.03	1150	43.47				
188	23.04	1155	43 41				
189	23.14	1201	43 26				
19000E	23.15	1207	43.33				wood peg
191	23.24	1214	43.18				
192	23.26	1220	43.42				Tracked steel peg.
193	23.30	1227	43 36				
194	23.44	1233	43.32				
196	23.32	1238	43 27				
196	23.59	1245	43 07				
197	23.60	1250	42.84				
198	23.61	1256	42.98				
199	23.70	1302	42.87				
20000E	23.61	1310	42.99				wood peg
201	23.68	1316	42.99				
202	23.62	1323	43 92				
203	23.62	1329	42.85				
204	23.52	1335	42 87				
205	23.47	1340	43 75				
206	23.41	1347	43.60				
207	23.48	1353	43.23				
208	23.35	1359	43.45				
209	23.38	1404	43.[illegible]				
21000E	23.28	1411	43 80				
211	23.41	1418	42.5[illegible]				
212	23.36	1424	42.56				
213	23.19	1429	42 5[illegible]				

Notes:

Very windy today

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: B.H.P. CO LTD
METER: LACOSTE #37
AREA: EL-369 LAKE EYRE WEST
METER CALIBRATION: PERCHART
GRID: NEALES RIVER
BOUGUER DENSITY:
LINE: 10000N
DRIFT CORRECTION:
LINE MAGNETIC BRG: 83°
AREA MAGNETIC VARIATION: 7°E
BASE STATION: BASE 3.
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: BRam
BASE LATITUDE:
DATE: 15-12-77

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV.		
				P_1	P_2	P_3
21400E	2723.10	14[35]	42.62			
215		14[40]	42.58			
BASE 3	27 24.93	15[56]				

Road seismic wind.

Notes:

000130 (42)

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: B.H.P. CO LTD
METER: LACOSTE #37
AREA: EL-369 LAKE EYRE WEST
METER CALIBRATION: PER CHART
GRID: NEALES RIVER.
BOUGUER DENSITY:
LINE: 10000N
DRIFT CORRECTION:
LINE MAGNETIC BRG: 83°
AREA MAGNETIC VARIATION: 7°E
BASE STATION: No 3
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: BRan
BASE LATITUDE:
DATE: 16-12-77

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3	
BASE 3	2724.91	8^{49}					
BASE 5 10N/10E	23.79	9^{18}					
21500E	22.85	10^{09}	42.58				
216	22.65	10^{11}	42.90				
217	22.45	10^{18}	42.72				
218	22.39	10^{23}	42.60				
219	22.45	10^{29}	42.39				
22000E	22.25	10^{35}	42.41				wood peg
221	22.13	10^{42}	42.32				
222	22.06	10^{48}	41.96				
223	21.90	10^{53}	41.88				
224	21.78	10^{59}	41.94				
225	21.63	11^{03}	41.82				
226	21.47	11^{08}	41.90				
227	21.28	10^{14}	41.81				
228	21.19	10^{20}	41.81				
229	21.08	10^{25}	42.03				
23000E	20.95	10^{32}	42.04				wood peg.
231	20.75	10^{39}	41.82				
232	20.68	10^{43}	41.87				
233	20.51	11^{49}	41.85				
234	20.41	11^{54}	41.97				
235	20.20	11^{59}	42.02				
236	20.21	12^{04}	41.66				
237	20.06	12^{09}	41.64				
238	20.06	12^{13}	41.39				

Notes:

Cool today — Large

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: B.H.P. CO LTD
METER: LACOSTE #37
AREA: EL-369 LAKE EYREWEST
METER CALIBRATION: PER CHART
GRID: NEALES RIVER
BOUGUER DENSITY:
LINE: 10000E
DRIFT CORRECTION:
LINE MAGNETIC BRG: 353°
AREA MAGNETIC VARIATION: 7°E
BASE STATION: No 3
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: BRam
BASE LATITUDE:
DATE: 16-12-77

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV.			
				P_1	P_2	P_3	
23900E	2720.0	1218	41.32				
24000E	19.94	1226	41.02				wood peg.
241	19.87	1251	41.00				
242	19.88	1256	40.89				
243	19.85	1300	40.91				
244	19.76	1305	40.96				
245	19.69	1310	40.88				
246	19.57	1317	40.88				
247	19.48	1322	40.91				
248	19.37	1327	41.16				
249	19.28	1334	40.[illegible]				
25000E	19.32	1339	40.30				wood peg.
251	19.26	1345	40.0[illegible]				
252	19.11	1350	40.[illegible]				
253	19.05	1355	40.[illegible]				
254	18.90	1400	40.[illegible]				
255	18.81	1405	40.[illegible]				
256	18.76	1410	40.[illegible]				
257	18.64	1415	40.[illegible]				
258	18.54	1420	39.[illegible]				
259	18.52	1426	39.[illegible]				
26000E	18.38	1432	39.[illegible]				wood peg.
261	18.37	1438	39.[illegible]				
262	18.35	1443	39.[illegible]				
263	18.27	1448	39.[illegible]				
264	18.16	1453	39.83				
265	18.08	1458	39.[illegible]				
266	18.11	1508	39.[illegible]				TRACK ?

Notes:

BRG 145

000132 (44)

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: B.H.P. CO. LTD
AREA: EL-369 LAKE EYRE WEST
GRID: NEALES RIVER.
LINE: 10000N
LINE MAGNETIC BRG: 83°
BASE STATION: NO3.
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:

METER: LACOSTE #37
METER CALIBRATION: FERCHART
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION: 7°E
OPERATOR: BRan
DATE: 16-12-77

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3	
26800E	2718.03	15[12]	39.66				
268	18.03	15[16]	39.17				
269	18.05	15[21]	38.95				
27000E	18.0	15[27]	38.74				wood peg.
271	17.99	15[33]	38.16				
272	17.91	15[37]	37.98				
273	17.87	15[41]	37.74				
274	17.80	15[46]	37.74				
275	17.60	15[50]	38.13				
276	17.49	15[56]	38.45				
277	17.56	16[02]	38.07				
278	17.67	16[06]	37.98				
279	17.49	16[10]	37.99				
28000E	17.38	16[15]	37.80				end of line wood peg. Bac 179°
BASE 3	24.74	18[00]					

Notes:

000133

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: BHP CO LTD — METER: LACOSTE #37

AREA: EL-369 LAKE EYREWEST — METER CALIBRATION: PER CHART

GRID: NEALES RIVER — BOUGUER DENSITY:

LINE: 16000E — DRIFT CORRECTION:

LINE MAGNETIC BRG: 353° — AREA MAGNETIC VARIATION: 7°E

BASE STATION: NO. 3.

BASE NOMINAL GRAV:

BASE NOMINAL ELEVN: — OPERATOR: BKan

BASE LATITUDE: — DATE: 17-12-77

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3
BASE 3	2724.92	9[21]				
BASE 5 10N/0E	23.74	10[00]				
16E 11900N	19.07	10[43]	44.47			
11800N	19.53	10[49]	43.69			
11700N	19.78	10[55]	43.54			
11600N	19.94	11[00]	43.88			
11500N	20.15	11[07]	43.61			
11400N	20.28	11[12]	44.31			
11300N	20.39	11[19]	44.60			
11200N	20.45	11[24]	45.31			
11100N	20.80	11[29]	44.68			
11000N	20.96	11[35]	44.72			
10900N	20.98	11[39]	45.03			
10800N	21.24	11[45]	45.18			
10700N	21.52	11[50]	44.92			
10600N	21.75	11[55]	44.59			
10500N	21.75	11[59]	45.05			
10400N	21.88	12[03]	44.85			
10300N	22.07	12[10]	44.53			
10200N	22.25	12[17]	44.51			
10100N	22.35	12[22]	44.62			
10000N	22.46	12[30]	44.71			
9900N	22.44	12[36]	45.02			
9800N	22.53	12[41]	45.42			
9700N	22.71	12[45]	45.29			
9600N	22.66	12[51]	45.72			

clocked 14E to 14E 10N 12N

wood peg

head line 10N 15 800E

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: BNP CO. LTD
METER: LACOSTE #37
AREA: EL-369 LAKE EYREWEST
METER CALIBRATION: PER CHART
GRID: NEALES RIVER
BOUGUER DENSITY:
LINE: 16000E
DRIFT CORRECTION:
LINE MAGNETIC BRG: 353°
AREA MAGNETIC VARIATION: 7°E
BASE STATION: NO 3
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: BRam
BASE LATITUDE:
DATE:

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3	
9500N	27 22.76	1256	45.71				
94	22.82	1301	45.64				
93	22.95	1305	45.39				
92	23.06	1310	45.33				
91	23.29	1315	44.71				
9000N	23.39	1320	44.63				wood peg.
89	23.51	1350	44.39				
88	23.31	1355	45.37				
87	23.73	1400	43.97				
86	23.84	1405	43.75				
85	23.77	1410	44.04				
84	23.87	1414	43.71				
83	23.85	1419	43.95				
82	23.89	1422	43.86				
81	23.82	1428	44.09				
8500N	23.78	1434	45.07				wood peg.
79	23.87	1439	45.09				
78	23.88	1444	45.08				
77	23.95	1450	45.06				
76	24.09	1454	44.83				
75	24.17	1500	44.77				
74	24.27	1505	44.61				
73	24.27	1511	45.03				
72	24.19	1516	45.90				
71	24.23	1520	46.06				
7000N	24.36	1525	46.00				wood peg.
69	24.66	1530	45.62				
68	24.93	1535	44.91				

Notes:

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SCLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: The B.H.P Co LTD. METER: LACOSTE #37

AREA: EL-369 LAKE EYRE WEST METER CALIBRATION: PERCHART

GRID: NEALES RIVER. BOUGUER DENSITY:

LINE: 16000E DRIFT CORRECTION:

LINE MAGNETIC BRG: 173° AREA MAGNETIC VARIATION: 7°E

BASE STATION: ~~BASE~~ #3.

BASE NOMINAL GRAV:

BASE NOMINAL ELEVN: OPERATOR: BRam

BASE LATITUDE: DATE: 17/12 & 18/12/77

	Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3
17/12/77	6700N	2725.16	1541	44.74			
	66	25.31	1545	44.93			
	65	25.58	1550	44.68			
	64	25.77	1556	40.69			
	63	26.02	1602	44.79			
	62	26.29	1607	44.61			
	61	26.54	1611	44.58			
	6000N	26.80	1616	44.56			
	~~BASE~~ 3	23.77	1716				
18/12/77	~~BASE~~ 3	23.87	835				
	5900N	27.27	958	44.47			
	58	27.39	1003	44.80			
	57	27.72	1008	44.78			
	56	27.88	1013	45.05			
	55	28.10	1017	45.07			
	54	28.54	1024	43.93			
	53	28.73	1030	44.01			
	52	28.92	1040	44.00			
	51	29.93	1050	40.16			
	5000N	31.39	1128	34.75			
	49	31.38	1145	35.55			
	48	31.29	1155	36.92			
	47	31.46	1222	36.90			
	46	31.52	1229	37.00			
	45	31.38	1241	38.19			
	4400N	31.67	1250	37.41			

Down to Neales River

Neales River

Notes:

24.92

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: BHP CO. LTD
METER: LACOSTE #37
AREA: EL-369 LAKE EYRE WEST
METER CALIBRATION: 1/1 & CHART
GRID: NEALES RIVER.
BOUGUER DENSITY:
LINE: 16000E
DRIFT CORRECTION:
LINE MAGNETIC BRG: 353°
AREA MAGNETIC VARIATION: 7°E
BASE STATION: NO3 + BASE TIE. No 3 TO No4
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: BRam
BASE LATITUDE:
DATE: 18 + 19/12

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3
4300	30.26	1253	44.14			
42	30.23	1310	44.43			
41	30.23	1319	45.07			
4000N	30.39	1327	44.73			
BASE 3	27 23 91	1540				
BASE 4	27 23.97	1600				
BASE 3	27 23.91	1619				
BASE 4	27 23.91	955				
3900N	30.46	1111	44.80			
38	30.52	1117	44.93			
37	30.57	1121	44.95			
36	30.65	1127	44.96			
35	30.85	1131	44.83			
34	31.01	1136	44.71			
33	30.97	1141	44.86			
32	31.06	1145	44.85			
31	31.15	1150	44.92			
3000 N	31.10	1156	45.22			
29	31.18	1201	45.06			
28	31.18	1205	45.22			
27	31.21	1210	45.19			
26	31.30	1215	44.82			
25	31.48	1220	44.32			
2900 N	31.61		44.02			

B

BASE TIES

19/12

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: THE BHP - 30 METER:

AREA: EL 369. METER CALIBRATION:

GRID: NEALES RIVER BOUGUER DENSITY:

LINE: 16000E DRIFT CORRECTION:

LINE MAGNETIC BRG: 173° AREA MAGNETIC VARIATION: 70°

BASE STATION: BASE 4

BASE NOMINAL GRAV:

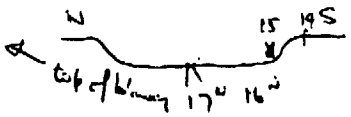
BASE NOMINAL ELEVN: OPERATOR: BRian

BASE LATITUDE: DATE: 19-12-77

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3
2300 N	27 31.72	1242	43.63			
22	31.58	1247	44.01			
21	32.53	1255	40.35			
2000 N	31.81	1302	43.61			
19	32.68	1314	39.61			
18	33.03	1318	37.85			
17	31.19	1326	37.58			
16	32.81	1333	37.55			
15	32.80	1345	40.06			
14	31.86	1350	44.57			
13	31.97	1359	44.57			
12	32.01	1404	44.65			
11	32.03	1408	44.75			
1000 N	32.15	1415	44.80			
9	32.54	1442	43.88			
8	32.58	1447	43.67			
7	32.61	1451	43.99			
6	32.54	1455	44.64			
5	32.42	1501	45.62			
4	32.35	1506	46.48			
3	32.39	1510	46.80			
2	32.48	1515	46.81			
100	32.32	1520	47.37			
00 N	32.22	1525	47.93			
100 S	32.30	1530	47.99			
2	32.38	1534	47.95			
3	32.34	1539	47.95			
4	32.30	1549	48.12			

down b'away
weak peg.

flat plain between breakaways.
CK system
toward b'away.



weak peg

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: THE BHP Co. LTD.
METER: LA COSTE
AREA: EL. 369.
METER CALIBRATION:
GRID: NEALES RIVER
BOUGUER DENSITY:
LINE: 16000E
DRIFT CORRECTION:
LINE MAGNETIC BRG: 1730
AREA MAGNETIC VARIATION:
BASE STATION: BASE 4.
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: BRan
BASE LATITUDE:
DATE: 19-12-77

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3	
5800S	2732.14	1550	48.73				
6	32.32	1555	47.81				
7	32.18	1600	47.80				
8	31.97	1606	48.09				
9	32.02	1610	48 22				
10000S	31.91	1615	48.36				wood peg.
11	31.85	1620	48.45				
12	31.75	1625	48.47				
13	31.67	1630	48.57				
14	31.77	1635	48.41				
15	31.78	1640	48.20				
16	31 63	1644	48.24				
17	31.70	1649	48.23				
18	31.71	1653	48.21				
19	32.04	1659	46.78				
20000S	32.31	1703	45.55				wood peg end of line near creek 300m to south
BASE 4	2724.30	1814					

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: THE BHP. Co LTD.
AREA: EZ-369
GRID: NEALES RIVER
LINE: 00 EW line
LINE MAGNETIC BRG: 83°
BASE STATION: BASE 4
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:

METER: LA COSTE # 737
METER CALIBRATION: PER CHART.
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION: 70E
OPERATOR: B Rau
DATE: 20-12-77

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3	
BASE 4	2724.15	842					
1100E	20.01	941	86.34				
12	20.14	947	86.31				
12 13	19.62	955	89.00				
13 14	20.27	1002	86.42				
14 15	20.89	1006	83.72				
15 16	21.34	1012	82.01				
16 17	21.67	1017	80.77				
17 18	21.57	1021	81.48				
18 19	21.55	1026	81.39				
19 2000E	22.06	1033	79.81				woodpeg. anthill.
2000E	22.00	1041	79.83				
22	22.14	1045	79.88				
23	21.84	1051	81.33				
24	22.49	1057	78.94				
25	22.93	1104	77.19				
26	22.95	1110	77.18				CK.
27	22.90	1115	77.70				
28	23.09	1120	77.43				
29	23.20	1125	77.28				
3000E	22.68	1131	80.28				Top of bank.
31	22.72	1140	80.50				
32	23.03	1145	79.56				
33	23.18	1151	78.98				
34	22.73	1157	81.50				
35	22.79	1202	81.58				
36	22.79	1208	82.14				CK

Notes:

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SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: THE BHP Co. LTD.
METER: LA COSTE # 37
AREA: EL-369.
METER CALIBRATION: 1ST CHART
GRID: NABLES RIVER
BOUGUER DENSITY:
LINE: 00 East
DRIFT CORRECTION:
LINE MAGNETIC BRG: 83°
AREA MAGNETIC VARIATION: 70°E
BASE STATION: BASE 4
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: BRian
BASE LATITUDE:
DATE: 20-12-77

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3	
3700E	2722.34	1215	84.12				
38	22.10	1220	85.43				
39	22.14	1227	85.28				
4000E	22.25	1234	84.80				wood peg
41	22.42	1311	84.18				
42	22.92	1317	81.66				
43	23.15	1322	80.63				
44	23.49	1327	78.89				
45	23.74	1333	77.55				
46	23.75	1338	76.89				
47	23.92	1344	76.52				
48	24.03	1349	75.79				
49	24.33	1355	74.02				
5000E	24.46	1402	7327				wood peg.
51	24.70	1410	71.97				
52	24.91	1416	70.87				
53	24.89	1421	70.29				
54	24.98	1427	69.76				
55	25.16	1434	68.96				
56	25.28	1438	68.46				
57	25.26	1446	67.93				
58	25.32	1452	67.68				
59	25.25	1457	67.58				
6000E	24.91	1504	68.80				wood peg.
61	25.15	1511	67.86				
62	25.37	1515	66.68				
63	25.15	1521	67.32				
64	24.82	1526	68.38				

Notes:

000141

53

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: THE BHP Co LTD
METER: LN COSTA #734
AREA: EL. 369.
METER CALIBRATION: [illegible]
GRID: NEALES RIVER.
BOUGUER DENSITY:
LINE: 00
DRIFT CORRECTION:
LINE MAGNETIC BRG: 93°
AREA MAGNETIC VARIATION: 7°E
BASE STATION: BASE 4
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: BRam
BASE LATITUDE:
DATE: 20-12-77

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3	
65 00E	27 25.0	1532	67.58				
66	25.19	1537	66.52				
67	25.58	1542	65.10				
68	25.97	1546	63.22				
69	26.22	1551	61.96				
70 00	26.36	1556	61.28				wood peg.
BASE 4	27 24.40	1705					
21-12-77 BASE 4	24.39	857					
71 00	26.28	1010	60.74				
72	26.15	1017	61.47				
73	26.30	1024	61.03				
74	26.36	1028	60.79				
75	26.20	1034	61.09				
76	26.18	1041	61.28				
77	25.37	1047	65.09				
78	25.46	1054	64.77				
79	25.21	1059	65.51				
80 00E	24.85	1106	66.96				wood peg
81	24.63	1113	68.04				
82	24.71	1118	67.91				
83	24.70	1122	67.52				
84	24.86	1127	66.93				
85	25.00	1132	66.43				
X 86	25.29	1141	65.65				* seismic noise? repeat - took breath
87							
88							

Notes:
11.41 seismic activity
07 12.15 still seismic disturbance.
12.30 still continues.
BASE 24.40 1651

000142

(54)

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: The B.H.P Co Ltd
METER: LaCoste #37
AREA: EL 369
METER CALIBRATION: PER CHART
GRID: The Nealon River
BOUGUER DENSITY:
LINE: 00
DRIFT CORRECTION:
LINE MAGNETIC BRG: 83°
AREA MAGNETIC VARIATION: 7°E
BASE STATION: BASE 4.
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: B Ran
BASE LATITUDE:
DATE: 22-12-77

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV.			
				P_1	P_2	P_3	
BASE 4	2724.30	8[25]					
8600E	25.26	9[25]	65.65				
87	25.53	9[28]	64.68				
88	25.68	9[30]	63.76				
89	26.0	9[33]	62.57				
9000	26.30	9[35]	61.62				
91	26.37	9[42]	61.34				
92	26.29	9[47]	61.79				
93	26.30	9[52]	61.62				
94	26.44	9[57]	61.05				
95	26.43	10[01]	61.17				
96	26.33	10[06]	62.04				
97	25.87	10[12]	64.37				up hill
98	26.06	10[17]	63.65				
99	26.24	10[22]	62.78				
10000E	25.89	10[25]	64.58				wood peg
101	26.54	10[33]	61.81				down hill
102	26.92	10[38]	59.81				
103	27.36	10[44]	58.37				
104	27.78	10[48]	56.91				CK
105	27.88	10[54]	56.71				
106	28.10	10[58]	55.84				
107	28.54	11[03]	54.65				
108	28.45	11[08]	55.43				
109	28.58	11[13]	55.04				
11000E	29.11	11[18]	52.76				wood peg CK
111	28.74	11[24]	54.56				
112	28.76	11[28]	54.53				
113	28.88	11[33]	54.18				steel picket + tack

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: THE BHP Co LTD.
AREA: EL. 369.
GRID: NEALES RIVER.
LINE: 00
LINE MAGNETIC BRG: 83°
BASE STATION: BASE 4.
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:

METER: LaCoste #37
METER CALIBRATION: PER CHART.
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION: 70E.
OPERATOR: BRan
DATE: 22-12-77

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3	
11400	2728.98	1145	53.60				
115	28.97	1150	53.05				CK
116	29.49	1158	51.13				CK
117	29.57	1214	50.70				CK
118	29.63	1221	50.50				CK
119	29.39	1227	52.10				
12000E	29.54	1234	51.04				wood peg.
121	29.17	1240	52.60				
122	29.04	1245	53.42				CK
123	28.73	1252	54.71				
124	28.71	1257	55.10				
125	28.79	1302	54.81				
126	28.87	1308	54.62				
127	29.07	1314	54.17				
128	29.16	1317	54.44				
129	29.15	1323	55.25				
13000	29.27	1330	55.37				wood peg.
131	29.43	1352	55.25				
132	29.65	1357	54.85				
133	29.75	1402	54.49				
134	29.99	1407	54.00				
135	30.27	1411	53.06				
136	30.64	1418	51.81				
137	30.44	1425	52.88				
138	30.47	1431	53.32				
139	31.0	1438	51.22				
14000E	31.41	1445	49.51				wood peg.
141	31.78	1450	48.26				

Notes:

Hot today

000144 (56)

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: THE BHP. Co. LTD.
AREA: EL. 369.
GRID: NEALES RIVER.
LINE: 00
LINE MAGNETIC BRG: 83°
BASE STATION: BASE 4
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:

METER: LaCoste #37
METER CALIBRATION: PER CHART
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION: 7°E
OPERATOR: BRan
DATE: 22-12-77

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3	
14200E	2732.34	1455	45.99				
143	32.15	1501	46.97				
144	32.36	1506	46.13				
145	32.44	1510	45.68				
146	32.84	1515	44.11				
147	32.95	1520	43.81				
148	33.10	1525	43.19				
149	32.76	1530	44.36				
15000E	33.33	1535	42.19				wood peg.
BASE 4	2724.26	1706					
23/12/77 BASE 4.	2724.26	1733					
15100E	33.08	1826	43.16				
152	33.35	1832	41.94				
153	33.14	1837	42.73				
154	32.77	1842	44.86				
155	32.56	1847	45.90				
156	32.18	1853	47.40				
157	32.29	1856	47.54				same place as line 16000E/00
158	32.28	903	47.36				
159	32.33	910	47.38				
16000E	32.35	916	47.26				
161	32.40	921	47.09				
162	32.42	927	47.07				
163	32.46	931	46.99				
164	32.47	937	47.00				

Notes:

LOT

000145

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: THE BHP Co. LTD. METER: [illegible]

AREA: EL. 369. METER CALIBRATION: [illegible]

GRID: NEALES RIVER. BOUGUER DENSITY:

LINE: 00 DRIFT CORRECTION:

LINE MAGNETIC BRG: 83 AREA MAGNETIC VARIATION: [illegible]

BASE STATION: BASE 4.

BASE NOMINAL GRAV:

BASE NOMINAL ELEVN: OPERATOR: BRam

BASE LATITUDE: DATE: 23-12-77

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3	
16500 E	2732.44	943	46.73				
166	32.53	949	46.52				
167	32.52	954	46.43				
168	32.44	959	46.29				
169	32.48	1007	46.16				
17000 E	32.50	1013	45.81				wood peg.
171	32.60	1018	44.91				
172	32.81	1023	44.32				
173	32.77	1027	44.34				
174	32.75	1032	44.22				
175	32.81	1037	43.91				
176	32.90	1042	43.61				
177	32.90	1047	43.70				
178	33.01	1051	43.22				
179	33.15	1055	42.68				
18000 E	33.35	1100	41.99				CK wood peg.
181	33.22	1108	42.61				
182	33.24	1113	42.37				
183	33.76	1119	40.26				CK
184	33.19	1125	42.98				
185	33.33	1132	42.40				
186	33.26	1138	42.88				
187	33.32	1144	42.85				
188	33.45	1150	42.54				
189	33.70	1157	42.09				
19000 E	33.65	1203	42.24				wood peg.
191	33.85	1207	41.80				
192	33.82	1212	41.60				

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: THE BHP CO. LTD
AREA: EL. 369.
GRID: NEALES RIVER
LINE: 00
LINE MAGNETIC BRG: 83°
BASE STATION: BASE 4
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:

METER: LA COSTE & 3?
METER CALIBRATION: ?? CHART
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION: 7°E
OPERATOR: BRam
DATE: 23-12-77

Station	Obs. Grav. s./divs.	Time	Elevn.	ρ_1 ρ_2 ρ_3 BOUGUER GRAV. ρ_1	ρ_2	ρ_3	
19300E	2733.90	1217	41.70				
194	33.98	1221	41.57				CK
195	34.15	1229	41.17				CK
196	34.49	1237	39.98				CK
197	34.23	1245	41.12				
198	34.36	1249	40.91				
199	34.40	1250	40.78				
20000E	34.51	1300	40.72				wood peg.
201	34.58	1326	40.66				
202	34.58	1349	40.74				
203	34.63	1355	40.64				
204							
205							
206							
207							
208							
209							
21000E							
211							
212							
213							
214							
215							
216							
217							
218							
219							
22000							

Notes: BASE 2724 41 1534

FIELD DATA SHEETS FOR GRAVITY SURVEY USING LACOSTE & ROMBERG

METER NO. G - 37

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: B.H.P.
AREA: EL 369 LAKE EYRE WEST
GRID: NEALES RIVER
LINE: 8000N
LINE MAGNETIC BRG: 83°
BASE STATION: Nos. 10000N/10000E
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:

METER: LACOSTE #37
METER CALIBRATION: PER CHART 2700 RANGE
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION: 7°E
OPERATOR: G.RAU
DATE: 24.12.77

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3	
10N/10E	2723.16	0850					
16000E	27 24.41	12.10	41.73				B/L.
900	24.36	12.15	41.76				
800	24.24	12.17	41.80				
700	24.18	12.20	41.87				
600	24.23	12.24	42.00				
500	24.13	12.27	42.53				
400	24.09	12.28	42.30				
300	24.19	12.30	42.09				
200	24.25	12.32	41.70				
100	24.31	12.34	41.32				
15000E	24.36	12.36	41.40				
900	24.33	12.38	41.37				
700	24.30	12.40	41.32				
600	24.25	12.43	41.59				
500	24.28	12.45	41.67				
400	24.28	12.47	41.68				
300	24.28	12.49	41.71				
200	24.24	12.50	41.89				
100	24.19	12.52	42.02				
14000E	24.30	12.57	41.32				
14000E	24.40	13.00	42.32				
900	24.26	13.02	41.56				
800	24.55	13.05	40.27				
700	24.84	13.08	38.94				
600	24.79	13.11	39.10				
13500	24.85	13.13	38.88				

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: B.H.P. METER: LACOSTE # 37

AREA: EL 369 LAKEEYREWEST METER CALIBRATION: PER CHART

GRID: NEALES RIVER BOUGUER DENSITY:

LINE: 8000 N DRIFT CORRECTION:

LINE MAGNETIC BRG: 83° AREA MAGNETIC VARIATION: 7°E

BASE STATION: Nos. 10000N/10000E

BASE NOMINAL GRAV:

BASE NOMINAL ELEVN: OPERATOR: GRAV.

BASE LATITUDE: DATE: 24.12.77

Station	Obs. Grav. s./divs.	Time	Elevn.	ρ_1 ρ_2 ρ_3 BOUGUER GRAV.			
				ρ_1	ρ_2	ρ_3	
13400E	2724.82	13.16	38.94				
300	24.79	13.18	39.14				
200	24.77	13.21	39.20				
100	24.78	13.24	39.33				
13000E	24.63	13.27	39.71				
900	24.71	13.29	39.57				
800	24.73	13.31	39.45				
700	24.74	13.33	39.31				
600	25.63	13.36	37.57				
12500	25.84	13.39	36.63				NEALES RIVER.
400	———	———					
16100E	2724.49	14.53	41.61				
200	24.53	14.56	41.40				
300	24.63	14.58	41.21				
400	24.64	14.59	41.13				
500	24.69	15.01	41.16				
600	24.75	15.04	40.89				
700	24.95	1506	40.33				
800	25.06	1509	39.91				
900	25.16	15.12	39.68				
17000E	25.19	15.14	39.71				
100	25.14	15.16	39.42				
200	25.22	15.18	39.93				
300	25.28	15.20	39.77				
400	25.26	15.22	39.98				
500	25.26	15.24	40.18				
600	25.26	15.26	40.21				
700	25.30	15.28	40.21				

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: BHP
AREA: EL 369 LAKE BYRE WEST
GRID: NEALES RIVER
LINE: 8000N
LINE MAGNETIC BRG: 83°
BASE STATION: No 5 10000N/10000E
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:

METER: LACOSTE #37
METER CALIBRATION: PER CHART
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION: 7°E
OPERATOR: G. RAU.
DATE: 24.12.77

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3
17800E	2725.30	15.70	40.20			—
900	25.34	15.34	40.24			
18000E	25.35	15.36	40.16			
100	25.30	15.38	40.29			
200	25.29	15.40	40.34			
300	25.26	15.42	40.35			
400	25.19	15.44	40.57			
500	25.09	15.47	41.11			
600	25.03	15.49	41.35			
700	25.09	15.52	41.18			
800	25.32	15.55	40.45			
900	25.48	15.58	40.29			
19000E	25.49	16.01	40.01			
B5 10N/10E	2723.10	16.32				

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: B.H.P.
METER: LACOSTE #37
AREA: EL. 369 LAKE EYRE WEST
METER CALIBRATION: PER CARRY
GRID: NRANES RIVER
BOUGUER DENSITY:
LINE: 8000 N
DRIFT CORRECTION:
LINE MAGNETIC BRG: 83°
AREA MAGNETIC VARIATION: 7°E
BASE STATION: NOS 10000N/10000E
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: G.RAO.
BASE LATITUDE:
DATE: 25 12.77

Station	Obs. Grav. s./divs.	Time	Elevn.	ρ_1 ρ_2 ρ_3 BOUGUER GRAV. ρ_1	ρ_2	ρ_3
NS 10000N/10000E	2723.16	0725				
19100E	2725.50	0802	40.68			
200	25.67	0806	40.11			
300	25.61	0809	40.33			
400	25.68	0812	40.41			
500	25.80	0814	39.82			
600	25.73	0816	40.14			
700	25.72	0822	40.37			
800	25.54	0825	41.27			
900	25.87	0828	39.68			
20000E	25.87	0830	39.42			
100	25.92	0832	39.51			
200	25.89	0835	39.51			
300	25.94	0837	39.39			
400	26.00	0839	39.20			
500	26.05	0841	38.95			
600	26.01	0844	38.87			
700	26.00	0846	38.74			
800	25.98	0848	38.90			
900	26.00	0850	38.74			
21000E	25.94	0852	38.71			
100	25.92	0854	35.52			
200	25.88	0857	38.58			
300	25.78	0912	39.13			
400	25.94	0918	38.41			
500	25.85	0920	38.24			
600	25.78	0924	38.36			
700	25.63	0927	38.96			

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: B.H.P. METER: LACOSTE #37

AREA: EL-369 LAKE EYRE WEST METER CALIBRATION: PER CHART

GRID: NGAHRS RIVER. BOUGUER DENSITY:

LINE: 8000 N + 10000 N. DRIFT CORRECTION:

LINE MAGNETIC BRG: 83° AREA MAGNETIC VARIATION: 7°E

BASE STATION: NOS 10000N/10000E

BASE NOMINAL GRAV:

BASE NOMINAL ELEVN: OPERATOR: G.RAU.

BASE LATITUDE: DATE: 25.12.77

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV.			
				P_1	P_2	P_3	
21800E	2725.66	0929	38.30				
900	25.44	0932	39.13				
22000E	25.62	0934	38.02				END OF LINE.
	LINE 4000N.						
22000E	2731.70	1042	39.16				
900	31.75	10.45	39.12				
800	31.75	10.47	39.62				
700	31.85	1049	39.47				
600	31.93	1052	39.41				
500	31.92	1054	39.49				
400	32.04	1057	39.41				
300	31.95	1059	39.95				
200	32.04	11.02	39.77				
100	32.03	11.04	39.74				
21000E	32.05	11.06	39.82				
900	32.09	11.09	39.79				
800	32.10	1141	39.94				
700	32.11	11.13	39.98				
600	32.14	11.15	39.82				
500	32.13	11.18	40.02				
400	32.06	11.20	40.31				
300	32.12	11.22	40.13				
200	32.00	11.24	40.45				
100	32.01	11.28	40.47				
20000E	32.05	11.31	40.39				
900	31.97	11.33	40.60				
19800	31.94	11.35	40.60				

Notes:

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SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: B.H.P.
METER: LACOSTE #37
AREA: EL-369 LAKE EYRE WEST
METER CALIBRATION: PER CHART
GRID: NEALES RIVER
BOUGUER DENSITY:
LINE: 4000 N.
DRIFT CORRECTION:
LINE MAGNETIC BRG: 83°
AREA MAGNETIC VARIATION: 7°E
BASE STATION: No 5 10000N/10000E
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: G. RAU.
BASE LATITUDE:
DATE: 25.12.71

Station	Obs. Grav. s./divs.	Time	Elevn.	ρ_1 ρ_2 ρ_3 BOUGUER GRAV. ρ_1	ρ_2	ρ_3
19700E	2731.96	11.37	40.55			
600	31.94	11.39	40.49			
500	31.86	11.41	40.83			
400	31.84	11.43	40.97			
300	31.76	11.45	40.98			
200	31.80	11.47	41.02			
100	31.66	11.51	41.40			
19000E	31.62	11.53	41.56			
900	31.48	11.57	41.83			
800	31.63	11.59	41.24			
700	31.56	12.02	41.72			
600	31.54	12.04	41.71			
500	31.54	12.06	41.70			
400	31.51	12.09	41.84			
300	31.52	12.11	41.91			
200	31.46	12.13	41.81			
100	31.38	12.16	41.79			
18000E	31.41	12.19	41.75			
900	31.38	12.22	41.51			
800	31.31	12.25	41.78			
700	31.24	12.28	42.13			
600	31.15	12.32	42.08			
500	31.15	12.35	42.17			
400	31.14	12.37	42.17			
300	31.07	12.40	42.32			
200	31.04	12.42	42.35			
100	30.99	12.45	42.41			
17000E	31.04	12.48	41.74			

TOP OF CLIFF NEAR NEALES RIVER.

Notes:

000154

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: BHP. METER: LACOSTE #37

AREA: EL 369 LAKE EYRE WEST METER CALIBRATION: PER CHART

GRID: NEANES RIVER. BOUGUER DENSITY:

LINE: 4000N & 6000N. DRIFT CORRECTION:

LINE MAGNETIC BRG: 83° AREA MAGNETIC VARIATION: 7°E

BASE STATION: NO5 6000N/10000E

BASE NOMINAL GRAV:

BASE NOMINAL ELEVN: OPERATOR: G.RAO

BASE LATITUDE: DATE: 25.12.77

Station	Obs. Grav. s./divs.	Time	Elevn.	ρ_1 ρ_2 ρ_3 BOUGUER GRAV. ρ_1	ρ_2	ρ_3	
16900E	2732.02	12.52	37.13				
800	32.20	12.55	36.99				
700	32.34	12.59	35.94				
600	32.49	13.03	35.05				
500	32.50	13.30	34.85				} NEANES RIVER.
400	32.80	13.38	33.54				
	LINE 6000N.						
13800E	2725.61	14.23	50.69				
900	25.72	14.26	50.39				
14000E	25.72	14.29	50.46				
100	26.78	14.32	46.08				NEANES FLOOD PLAIN.
200	27.20	14.34	44.72				
300	27.40	14.38	44.39				
400	27.62	14.42	43.89				
500	27.70	14.44	43.27				
600	28.01	1447	4239				
700	28.25	14.50	41.77				
800	28.30	1453	41.87				
900	28.49	1457	41.24				
15000E	28.52	1459	41.34				
100	28.75	1503	40.58				
200	28.97	1512	39.53				
300	26.82	1521	49.73				
6000N/16000E	2723.07	1552					

Notes: 15300 ON TOP OF A BLUFF
15200 ON BANK OF RIVER.

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SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: B.H.P.
AREA: EL 369 LAKE EYREWEST
GRID: NEALES RIVER.
LINE: 6000 N
LINE MAGNETIC BRG: 83°
BASE STATION: NOS 100000N/100000E
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:

METER: LACOSTE #37
METER CALIBRATION: PER CHART
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION: 7°
OPERATOR: C RAU.
DATE: 26.12.77

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3
100000N/100000E	2723.17	0810				
28000E	2725.88	0921	49.96			
900	25.84	0923	41.47			
800	25.93	0926	41.51			
700	26.12	0928	41.39			
600	25.97	0930	42.92			
500	26.36	0932	41.61			
400	26.30	0936	42.44			
300	26.54	0939	41.81			
200	26.75	0942	41.47			
100	26.59	0944	42.69			
27000E	26.83	0947	42.35			
900	26.97	0949	42.13			
800	27.12	0952	42.10			
700	27.29	0954	41.76			
600	27.25	0956	42.30			
500	27.43	0959	42.18			
400	27.41	10.02	42.71			
300	27.49	10.05	42.29			
200	27.53	10.08	42.65			
100	27.57	10.10	42.75			
26000E	27.77	10.12	42.54			
900	27.68	10.15	43.23			
800	27.85	10.19	42.53			
700	27.74	10.21	42.96			
600	27.82	10.23	43.06			
500	27.84	10.26	42.90			
400	27.94	10.28	42.91			

Notes: TRACK AT 27750E

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: B.H.P.
METER: LACOSTE #37
AREA: EL 369 LAKE EYRE WEST
METER CALIBRATION: TER CHART
GRID: NEALES RIVER
BOUGUER DENSITY:
LINE: 60000N
DRIFT CORRECTION:
LINE MAGNETIC BRG: 83°
AREA MAGNETIC VARIATION: 7°E
BASE STATION: No5 100000N/100000E.
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: G RAU
BASE LATITUDE:
DATE: 26.12.77

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV.		
				P_1	P_2	P_3
25300E	2727.76	1031	44.00			
200	28.02	1033	42.95			
100	27.95	1036	42.94			
25000E	28.00	1038	43.40			
900	27.96	1042	43.60			
800	28.00	1045	43.72			
700	28.00	1047	43.68			
600	28.01	1050	43.87			
500	28.09	1052	43.84			
400	28.10	1055	43.87			
300	28.07	1057	44.01			
200	28.17	1059	43.95			
100	28.22	1103	44.16			
24000E	28.17	1106	44.38			
900	28.29	1109	44.51			
800	28.30	1111	44.42			
700	28.31	1114	44.95			
600	28.30	1116	44.98			
500	28.43	1119	44.89			
400	28.47	1121	44.77			
300	28.59	1124	44.58			
200	28.66	1126	44.38			
100	28.61	1129	44.95			
23000E	28.68	1131	45.04			
900	28.75	1134	45.06			
800	28.86	1136	44.83			
700	28.92	1139	44.96			
600	28.91	1141	45.25			

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: B.H.P.
METER: LACOSTE # 37
AREA: EL 369 LAKE EYRE WEST
METER CALIBRATION: PEARCHART
GRID: NEARNES RIVER
BOUGUER DENSITY:
LINE: 60000 N
DRIFT CORRECTION:
LINE MAGNETIC BRG: 83°
AREA MAGNETIC VARIATION: 7°E
BASE STATION: No 5. 60000N/100000E
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: GRAU
BASE LATITUDE:
DATE: 26.12.77

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV.		
				P_1	P_2	P_3
22500E	2728·92	11·44	45·32			
400	28·92	11·46	45·24			
300	29·01	11·48	45·12			
200	29·04	11·54	45·25			
100	29·05	12·44	45·17			
22000E	29·11	12·47	45·15			
900	29·09	12·49	45·37			
800	29·09	12·52	45·48			
700	29·04	12·54	45·96			
600	28·96	12·58	46·70			
500	28·77	13·00	47·61			
400	29·15	13·04	45·89			
300	29·13	13·08	45·99			
200	29·10	13·10	45·87			
100	29·15	13·12	45·92			
21000E	28·99	13·15	46·13			
900	28·94	13·17	46·40			
800	29·00	13·19	46·36			
700	28·92	13·22	46·45			
600	28·93	13·24	46·54			
500	28·87	13·27	46·68			
400	28·78	13·30	46·85			
300	28·80	13·32	46·78			
200	28·70	13·35	46·71			
100	28·77	13·38	46·75			
20000E	28·78	13·41	46·64			
900	28·46	13·44	47·81			
800	28·66	13·46	46·93			

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: B.H.P. METER: LACOSTE #37

AREA: EL. 369 LAKE FYRE WEST METER CALIBRATION: PER CHART

GRID: NEALES RIVER BOUGUER DENSITY:

LINE: 6000 N DRIFT CORRECTION:

LINE MAGNETIC BRG: 83° AREA MAGNETIC VARIATION: 7°E

BASE STATION: NOS. 10000N/10000E

BASE NOMINAL GRAV:

BASE NOMINAL ELEVN: OPERATOR: GRAD

BASE LATITUDE: DATE: 26.11.77

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV.		
				P_1	P_2	P_3
19700E	2728.57	13.48	46.89			
600	28.59	13.51	46.90			
500	28.54	14.07	47.11			
400	28.52	14.09	47.14			
300	28.43	14.11	47.52			
200	28.35	14.14	47.63			
100	28.31	14.15	47.27			
19000E	28.40	14.17	47.11			
900	28.41	14.20	47.38			
800	28.44	14.22	47.48			
700	28.45	14.24	46.60			
600	28.53	14.27	47.49			
500	28.54	14.29	47.63			
400	28.45	14.32	48.00			
300	28.49	14.34	48.39			
200	28.51	14.36	48.20			
100	28.50	14.39	48.03			
18000E	28.59	14.41	48.01			
900	28.61	14.43	48.10			
800	28.44	14.46	48.41			
700	28.45	14.48	48.49			
600	28.52	14.50	48.27			
500	28.45	14.53	48.61			
400	28.50	14.55	48.18			
300	28.42	14.57	48.46			
200	28.38	14.59	48.10			
100	28.28	15.02	48.25			
17000.	28.25	15.04	48.30			

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: B.H.P.
METER: LACOSTE #37
AREA: EL 369 LAKE EYREWEST
METER CALIBRATION: PER CHART
GRID: NEAHES RIVER
BOUGUER DENSITY:
LINE: 60000N
DRIFT CORRECTION:
LINE MAGNETIC BRG: 83°
AREA MAGNETIC VARIATION: 7°E
BASE STATION: NOS. 100000N/100000E
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: GRAU
BASE LATITUDE:
DATE: 26.12.77

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3
16900E	2728.14	15.06	48.32			
800	28.10	15.08	48.47			
700	27.91	15.11	48.96			
600	27.77	15.14	49.31			
500	27.69	15.17	49.34			
400	27.68	15.19	49.39			
300	27.63	15.21	49.08			
200	27.66	15.23	49.06			
100	27.77	15.26	48.51			
16000E	27.68	15.31	48.35			
900	27.60	15.33	48.46			
800	27.47	15.36	48.73			
700	27.43	15.41	48.80			
600	27.29	15.43	49.17			
500	27.11	15.46	49.35			
15400E	27.02	15.48	49.66			
300						
200						
100						
15000E						
900						
800						
700						
600						
500						
15400E						
60N/10E.	2723.09	16.19				

Notes:

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SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: B.H.P.
AREA: EL 369 LAKE EYRE WEST
GRID: NEALES RIVER
LINE: 00N.
LINE MAGNETIC BRG: 83°
BASE STATION: N04 8000N/00E
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:

METER: LACOSTE #37
METER CALIBRATION: PER CHART
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION: 7°E
OPERATOR: G.RAU
DATE: 27.12.77

	Station	Obs. Grav. s./divs.	Time	Elevn.	ρ_1 ρ_2 ρ_3 BOUGUER GRAV. ρ_1	ρ_2	ρ_3	
D4	8N/00E	2724.35	0813					
	20400E	2734.58	10.26	40.65				
	500	34.59	10.33	40.58				
	600	34.61	10.39	40.44				
	200	34.77	10.47	39.67				
	800	34.62	10.55	40.02				
	900	34.86	11.20	38.95				
	21000E	34.83	11.30	38.81				
	100	34.72	11.44	39.52				← CREEK.
	200	34.80	11.50	39.06				
	300	34.73	12.02	39.01				
	400	35.70	12.16	34.87				EDGE OF FLOOD PLAIN
	500	35.94	12.26	33.40				
	600	35.88	12.32	33.48				
	700	35.85	12.42	33.71				
	800	35.65	12.48	34.08				
	900	35.62	12.59	34.38				
	22000E	35.85	13.14	33.21				LINE HITS NEALES OVERFLOW FULL OF WATER.
A4	8N/00	2724.24	17.11					

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: B.H.P.
AREA: EL-369 LAKE EYRE WEST
GRID: NEALES RIVER
LINE: 8000N.
LINE MAGNETIC BRG: 83°
BASE STATION: No4. 8000N/00E
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:

METER: LACOSTE #37
METER CALIBRATION: PERCHART
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION: 7°E
OPERATOR: G RAU.
DATE: 28.12.77

	Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3
Δ4	8N/00E	2724.30	0818				
	10100E	2723.53	0854	45.09			
	200	2723.59	0857	45.23			
	300	2723.63	0931	45.24			
	400	2723.67	0934	45.24			
	500	24.17	0941	43.33			
	600	24.29	0946	43.60			
	700	23.79	0950	46.17			
	800	23.54	0953	47.78			
	900	23.83	0956	46.98			
	11000E	23.36	0959	49.52			
	100	23.83	1007	47.66			
	200	23.69	1011	48.62			
	300	23.80	1014	47.96			
	400	23.73	1020	48.20			
	500	24.65	1027	44.23			
	[illegible]00	25.25	1029	41.17			
	[illegible]00	25.20	1032	40.71			
	800	25.30	1035	40.80			
	900	25.50	1038	39.76			
	12000E	25.73	1040	38.72			
	100	25.62	1056	38.47			
	200	25.[illegible]	1100	38.04			
	300	25.66	1106	38.53			
	400	25.65	1110	37.82			
Δ4.	8N/00E	2724.13	1203				

SMALL HILLS.

↓ SAND DRIFTS → FLOOD PLAIN.

← EDGE NEALES R.

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: B.H.P. METER: LACOSTE #37

AREA: EL-369 LAKE FYRE WEST METER CALIBRATION: PER CHART

GRID: NEALES RIVER BOUGUER DENSITY:

LINE: 600 SOUTH DRIFT CORRECTION:

LINE MAGNETIC BRG: 83° AREA MAGNETIC VARIATION: 7°E

BASE STATION: No4 8000N/60E

BASE NOMINAL GRAV:

BASE NOMINAL ELEVN: OPERATOR: G. TAU

BASE LATITUDE: DATE: 31.12.87

Station	Obs. Grav. s./divs.	Time	Elevn.	ρ_1 ρ_2 ρ_3 BOUGUER GRAV.		
				ρ_1	ρ_2	ρ_3
8N/00E BASE 4	27329.20	7.35				
22000E	2735.65	1017	36.80			
22100	2735.84	1024	36.09			
22200	2735.90	1029	35.80			
22300E	2735.98	1036	35.08			
22400E	2736.10	10.50	34.79			
22500	2736.22	10.54	34.34			
22600	2736.51	10.57	32.90			
22700	2736.69	11.03	32.31			
22800	2735.21	11.20	38.69			
22900	2735.48	11.24	37.49			
23000E	2735.52	11.32	37.41			
23100	2735.37	11.40	38.00			
23200	2735.62	11.45	37.23			
23300	2735.40	11.55	38.09			
23400	2735.48	12.02	37.90			
23500	2735.44	12.05	38.16			
23600	2735.49	12.08	32.75			
23700	2735.48	12.15	37.92			
23800	2735.39	12.20	37.92			
23900	2735.42	12.23	37.80			
24000E	2735.40	12.27	37.81			
24100	2735.43	12.30	37.26			
24200	2735.45	12.35	37.78			
24300	2735.49	12.40	37.61			
24400	2735.50	12.43	37.49			
24500	2735.54	1247	37.16			

Notes: 22700 CREEK.

22800 CLIFF.

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: B.H.P.
METER: LACOSTE #37
AREA: EL 369 LAKE EYRE WEST
METER CALIBRATION: SEE CHART
GRID: NEALES RIVER.
BOUGUER DENSITY:
LINE: 600 SOUTH
DRIFT CORRECTION:
LINE MAGNETIC BRG: 83°
AREA MAGNETIC VARIATION: 7°E
BASE STATION: BASE No4 8000N/00E
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: G. K.
BASE LATITUDE:
DATE: 31.12.77

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3
24600E	2735.85	12.51	35.98			
24700	2735.58	12.56	37.44			
24800	2735.51	13.00	37.68			
24900	2735.43	13.03	37.87			
25000E	2735.47	13.07	37.87			
25100	2735.52	13.10	38.00			
25200	2735.62	13.35	37.62			
25300	2735.47	13.40	37.70			
25400	2735.46	13.43	37.73			
25500	2735.43	13.47	37.70			
25600	2735.43	13.50	37.54			
25700	2735.42	13.54	37.44			
25800	2735.46	13.57	37.36			
25900	2735.45	14.00	37.12			
26000E	2735.57	14.04	36.92			
26100	2735.49	14.09	37.24			
26200	2735.45	14.14	37.43			
26300	2735.22	14.18	37.32			
26400	2735.18	14.22	37.27			
26500	2735.30	14.25	37.27			
26600	2735.32	14.30	37.03			
26700	2735.27	14.34	37.00			
26800	2735.33	14.37	36.87			
26900	2735.38	14.39	36.65			
27000E	2735.38	14.43	36.69			
27100	2735.45	14.50	36.72			
27200	2735.39	14.56	36.77			
27300	2735.30	15.02	36.88			

Notes:

24600 CREEK.
25200 CREEK.

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: B.H.P.
METER: LACOSTE #37
AREA: EL 369 LAKE EYRE WEST
METER CALIBRATION: PER CHART
GRID: NEALES RIVER
BOUGUER DENSITY:
LINE: 600 SOUTH
DRIFT CORRECTION:
LINE MAGNETIC BRG: 83°
AREA MAGNETIC VARIATION: 7°E
BASE STATION: No4 8000N/00E
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: G.RAU
BASE LATITUDE:
DATE: 31·12·77

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3
27400E	2735.47	15:05	36.63			
27500	2735.49	15:09	36.62			
27600	2735.55	15:12	36.50			
27700	2735.49	15:14	36.47			
27800	2735.52	15:18	36.37			
27900	2735.43	15:30	36.53			
28000	2735.34	15:25	3690			
A4 00E 8000N	2724.08	17:25				

Notes:

FIELD DATA SHEETS FOR GRAVITY SURVEY USING LACOSTE & ROMBERG METER NO. G - 35

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: B.H.P
AREA: E.L. 369 LAKE [illegible]
GRID: [illegible]
LINE: 8000 N
LINE MAGNETIC BRG: 83°
BASE STATION: No 4. 8000N/00E
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:

METER: LACOSTE # 35
METER CALIBRATION: [illegible]
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION: [illegible]E
OPERATOR: [illegible]
DATE: 10-[illegible]

	Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3
	8N 00E	2697.41	8:30				
	5000 E	2697.14	13:00	50.36			
	4900 E	2697.30		49.84			
	4800 E	2697.41		50.23			
	4700 E	2697.56		50.41			
	4600 E	2697.72		50.19			
	4500 E	2697.94		50.10			
	4400 E	2698.11		49.16			
	4300 E	2698.33		49.82			
	4200 E	2698.46		49.59			
	4100 E	2698.66		49.65			
	4000 E	2698.98		49.46			
	3900 E	2698.94		50.21			
	3800 E	2699.12		50.32			
	3700 E	2699.35		50.96			
	3600 E	2699.56		51.08			
	3500 E	2699.87		51.23			
X	3400 E	2700.10		51.[illegible]			
X	3300 E	2700.30		51.[illegible]			
X	3200 E	2700.65		51.[illegible]			
X	3100 E	2700.78		51.50			
X	3000 E	2700.96		51.[illegible]			
X	2900 E	2701.03		51.[illegible]			
X	2800 E	2700.98		51.[illegible]			
X	2700 E	2700.82	14:00	51.[illegible]			
X	2600 E	2700.56		52.25			
X	2500 E	2700.40		52.26			

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: BHP.
AREA: EL-369 LAKE EYRE WEST
GRID: NEALES RIVER.
LINE: 8000 N
LINE MAGNETIC BRG: 83°
BASE STATION: No4 8000N/00E.
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:

METER: LACOSTE # 35
METER CALIBRATION: PER CHART
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION: 7° E
OPERATOR. GRAV
DATE: 10-12-77

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3
2100 E	2700.31		51.70			
2000	2699.86		52.48			
1900 E	2699.69		51.92			
1800	2699.55		51.98			
1700	2699.42		52.10			
1600	2699.32		52.13			
1500	2699.28		51.89			
1400 E	2699.09		51.92			
1300	2699.01		52.12			
1200	2698.89		52.39			
1100	2698.82		52.16			
1000	2698.84		52.27			
900	2698.81		51.85			
800	2698.61	1440	52.35			
1000 E	2698.38	15:00	52.52			
900	2698.29		52.92			
800	2698.09		53.02			
700 E	2697.99		53.52			
600	2698.16		52.46			
500	2697.99		52.91			
400	2697.86		53.00			
300	2697.66		53.40			
200	2697.60		53.25			
100 E	2697.59		53.40			
Δ4 8N/00E	2697.45	15:30				

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: E.H.T.
AREA: E.L. No 369 LAKE FIRE W.S.
GRID: NEALS RIVER.
LINE: 8000 N
LINE MAGNETIC BRG: 8?°
BASE STATION: No4 8000N/00E.
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:

METER: [illegible]
METER CALIBRATION: [illegible]
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION: [illegible]°E
OPERATOR: G.Rau.
DATE: 11/12/7[illegible]

	Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3
	00 E/8N	2697·24	7·30				
	10000 E	2696·5[illegible]	[illegible]	45·26			
	9900	2696·53		45·32			
	9800	2696·48		45·46			
	9700	2696·[illegible]		45·62			
	9600	2696·38		45·70			
	9500	2696·[illegible]		45·75			
	9400	2696·30		46·18			
	9300	2696·[illegible]		46·87			
	9200	2696·00		46·36			
	9100	2695·[illegible]		46·34			
	9000E	2696·[illegible]		46·14			
	8900	2696·[illegible]		46·06			
	8800	2696·[illegible]		45·87			
	8700	2696·[illegible]		46·02			
	8600	2696·[illegible]		45·89			
	8500	2696·24		45·95			
	8400	2696·28		46·27			
	8300	2696·32		46·48			
	8200	2696·36		46·72			
	8100	2696·[illegible]		46·72			
	8000E	2696·[illegible]		46·39			
	7900	2696·[illegible]		46·39			
	7800	2696·82		46·72			
	7700	2696·[illegible]		47·70			
	7600	2696·81	[illegible]	47·93			
	7500	2696·78		48·42			
	7400	2696·67		49·14			

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: B.N.P.
AREA: EL-369 LAKE EYRE WEST
GRID: NEALES RIVER
LINE: 8000 N
LINE MAGNETIC BRG: 83°
BASE STATION: No4 8000N/00E
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:

METER: LACOSTE #75
METER CALIBRATION: TIE IN CHART
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION: 7°E
OPERATOR:
DATE: 11-12-77

Station	Obs. Grav. s./divs.	Time	Elevn.	ρ_1 ρ_2 ρ_3 BOUGUER GRAV.		
				ρ_1	ρ_2	ρ_3
7300 E	2696.74		49.26			
7200	2696.84		48.81			
7100	2696.88		48.78			
7000E	2696.94		48.84			
6900	2696.90		48.91			
6800	2696.93		49.03			
6700	2696.94		49.21			
6600	2696.92		49.19			
6500	2696.96		49.29			
6400	2696.95		49.48			
6300	2696.99		49.53			
6200	2696.93		49.82			
6100	2696.90		49.88			
6000E	2696.91		49.85			
5900	2697.03		49.97			
5800	2697.04		50.14			
5700	2697.10		50.21			
5600	2697.15		50.29			
5500	2697.09		50.29			
5400	2697.26		50.46			
5300	2697.30	1600	50.47			
5200	2697.52		49.78			
5100	2697.61	1608	50.11			
4 8N/00E	2697.38					

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: B,HP
METER: LACOSTE #1-25
AREA: E.L. 369 LAKE [illegible]
METER CALIBRATION: [illegible] CHART
GRID: NEAALS RIVER
BOUGUER DENSITY:
LINE: 6000N
DRIFT CORRECTION:
LINE MAGNETIC BRG: 83°
AREA MAGNETIC VARIATION: 7°E
BASE STATION: No4 8000N/00E
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: G.RAU
BASE LATITUDE:
DATE: 12.12.[illegible]

	Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3
D4	8N/00E	2697.93	8:00				
	3400E	2697.71	1500	60.80			
	3300	2697.69		61.04			
	3200	2697.85		61.06			
	3100	2697.89		61.24			
	3000E	2697.93		61.17			
	2900	2697.99		61.03			
	2800	2698.17		61.07			
	2700	2698.38		60.70			
	2600	2698.43		60.47			
	2500	2698.52		60.79			
	2400	2698.49		61.19			
	2300	2698.64		61.13			
	2200	2698.90		60.97			
	2100	2699.15		60.56			
	2000E	2699.22		60.45			
D4	8N/00E	2698.23					

Notes:

000171

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: BHP
METER: LACOSTE
AREA: E.L. No 369 LAKE FYRE WEST.
METER CALIBRATION:
GRID: NEALES RIVER.
BOUGUER DENSITY:
LINE: 6000N
DRIFT CORRECTION:
LINE MAGNETIC BRG: 83°.
AREA MAGNETIC VARIATION: °E
BASE STATION: No4 8000N/00E
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR:
BASE LATITUDE:
DATE:

	Station	Obs. Grav. s./divs.	Time	Elevn.	ρ_1 ρ_2 ρ_3 BOUGUER GRAV. ρ_1	ρ_2	ρ_3
A_4	8N/00E	2698.37	18:25				
X	0100E	2700.12		56.69			
X	200	2700.16		56.92			
X	300	2700.24		56.97			
X	400	2700.18		57.52			
X	500	2700.12		58.03			
X	600	2700.12		58.08			
X	700	2700.13		58.12			
X	800	2700.17		58.07			
X	900	2700.13		58.21			
X	1000E	2700.27		58.18			
X	1100	2700.23		58.24			
X	1200	2700.13		58.56			
X	1300	2699.99		58.88			
X	1400	2700.15		59.56			
X	1500	2700.12		59.45			
X	1600	2700.23		59.35			
X	1700	2700.00		60.18			
	1800	2699.99		0.79			
	1900E	2699.58	19:37	61.13			
A_4	8N/00E	2698.58	20:55				

Notes:

000172

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: B.H.P
METER: LACOSTE #36
AREA: EL 369 LAKE EYRE WEST
METER CALIBRATION: P. & C. CHARD.
GRID: NEALES RIVER
BOUGUER DENSITY:
LINE: 6000N.
DRIFT CORRECTION:
LINE MAGNETIC BRG: 83°
AREA MAGNETIC VARIATION: 7°E
BASE STATION: BASE 4 (8000N/00E)
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR:
BASE LATITUDE:
DATE:

Station	Obs. Grav. s./divs.	Time	Elevn.	ρ_1 ρ_2 ρ_3 BOUGUER GRAV.		
				ρ_1	ρ_2	ρ_3
8N/00E	2693.68	8:00				
3500E	2698.16	0930	60.31			
3600	2698.25		60.03			
3700	2698.12		60.53			
3800	2698.05		60.87			
3900	2697.68		62.40			
4000E	2697.33		63.86			
4100	2697.40		63.57			
4200	2697.45		63.17			
4300	2697.77		61.58			
4400	2697.84		61.11			
4500	2697.73		61.37			
4600	2697.52		62.19			
4700	2697.18		63.46			
4800	2697.19		63.39			
4900	2697.26		62.50			
5000E	2697.56		61.14			
5100	2697.54		60.80			
5200	2697.32		61.39			
5300	2697.05		62.44			
5400	2696.98		62.84			
5500	2696.98		62.70			
5600	2696.87		62.85			
5700	2696.78		63.23			
5800	2696.83		63.05			
5900	2696.82		63.15			
6000E	2696.63		63.70			
6100	2696.41		64.59			

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: BHP
AREA: E.L.369 LAKE EYRE WEST
GRID: NEARES RIVER
LINE: 60001N
LINE MAGNETIC BRG: 83°
BASE STATION: BASE 4 (8000N/00E)
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:

METER: LACOSTE 41 26
METER CALIBRATION: HERCHART.
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION: 7°E
OPERATOR:
DATE: 3

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV.		
				P_1	P_2	P_3
6200E	2696·10		66·25			
6300	2696·72		63·60			
6400	2696·79		63·21			
6500	2697·43		60·07			
6600	2697·57		59·42			
6700	2697·73		58·83			
6800	2697·83		58·47			
6900	2698·07		57·69			
7000E	2698·22		56·81			
7100	2698·50		55·27			
7200	2698·71		54·22			
7300	2698·94		52·92			
7400	2698·62		54·52			
7500	2698·42		55·06			
7600	2697·75		57·75			
7700	2697·77		57·48			
7800	2698·01		55·90			
7900	2697·81		56·29			
8000E	2697·51	15/5	57·30			
8N/00E	2698·48	16·13				

Δ_4

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: BHP.
METER: LACOSTE #35
AREA: ELNO-369 LAKE EYRE WEST
METER CALIBRATION: M.R CHART
GRID: NEALES RIVER
BOUGUER DENSITY:
LINE: 6000N
DRIFT CORRECTION:
LINE MAGNETIC BRG: 83°
AREA MAGNETIC VARIATION: 7°E
BASE STATION: No4 8000N/00E
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR:
BASE LATITUDE:
DATE: 14/12/--

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3
8N/00E	2698.66	6.45				
B100E	2697.56	8.15	57.71			
200	2697.74	8.17	56.39			
300	2697.98	8.23	54.63			
400	2698.21	8.29	52.96			
500	2698.02	8.35	53.14			
600	2697.92	8.40	53.34			
700	2697.92	8.45	52.99			
800	2697.94	8.50	52.09			
900	2698.03	8.56	51.46			
9800E	2697.98	9.00	51.23			
100	2697.90	9.13	51.08			
200	2697.87	9.17	50.91			
300	2697.76	9.22	50.99			
400	2697.87	9.28	50.25			
500	2697.95	9.33	49.84			
600	2697.97	9.38	49.89			
700	2697.83	9.44	50.07			
800	2697.83	9.51	50.04			
900	2697.73	9.56	50.37			
10000E	2697.64	10.04	50.76			
100	2697.62	10.12	50.94			
200	2697.64	10.18	50.95			
300	2697.56	10.25	51.60			
400	2697.40	10.31	52.53			
500	2697.38	10.36	52.59			

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: B.H.P.
METER: LACOSTE #35
AREA: E.L-369 LAKE EYRE WEST.
METER CALIBRATION: PER CHART
GRID: NEALES RIVER
BOUGUER DENSITY:
LINE: 6000 N
DRIFT CORRECTION:
LINE MAGNETIC BRG: 83°
AREA MAGNETIC VARIATION: 7° E
BASE STATION: No 4 8000N/00E.
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR:
BASE LATITUDE:
DATE:

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3
10600E	2697.60	10.47	51.88			
700	2697.74	10.54	51.23			
800	2698.05	11.19	49.73			
900	2699.42	12.10	47.60			
8[illegible]E	2698.49	1500				

Notes: Station 10800 by edge of [illegible].

000176

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: B.H.P.
METER: LACOSTE -11 35
AREA: EL-369 LAKE EYRE WEST
METER CALIBRATION: PER CHART 2700 RANGE
GRID: NEALES RIVER.
BOUGUER DENSITY:
LINE: 4000N → 6000N.
DRIFT CORRECTION:
LINE MAGNETIC BRG: 83°
AREA MAGNETIC VARIATION: 7°E.
BASE STATION: No4 8000N/00E
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: G. RAU.
BASE LATITUDE:
DATE: 18.12.77

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV.		
				P_1	P_2	P_3
4 8N/00E	2702·73	7·52				
15000E	2709·29	8·45	43·97			
100	09·29	8·52	43·83			
200	09·27	9·00	43·89			
300	09·21	9·25	41·03			
400	09·21	9·30	43·98			
500	09·14	9·35	43·93			
600	09·23	9·41	43·67			
700	09·35	9·47	43·01			
800	09·53	9·57	42·05			
900	09·19	10·08	43·38			
16000E	09·19	10·21	43·41			
100	09·32	10·33	42·90			
200	09·33	10·41	42·82			
300	11·37	12·15	33·73			
	LINE 6000N		FOLLOWS.			
11000E	2702·33	13·50	54·00			
100	03·81	13·55	47·58			
200	02·45	14·02	53·00			
300	02·34	14·08	53·84			
400	02·30	14·14	54·16			
500	02·11	14·21	55·17			
600	01·76	14·26	57·34			
700	01·38	14·33	59·16			
800	01·11	1438	60·63			
900	01·13	14·45	60·41			
12000E	01·30	14·51	60·42			

Notes:

000177

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: B.H.P.
AREA: E L No 369 LAKE EYRE WEST
GRID: NEALES RIVER.
LINE: 6000N
LINE MAGNETIC BRG: 83°
BASE STATION: A4 8000N 00E
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:

METER: LACOSTE #35
METER CALIBRATION: PER CHART 2700 RANGE
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION: 7°E
OPERATOR: G. RAO.
DATE: 18.12.77.

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3	
12100	2701.51	14.57	59.50				
200	2702.89	1502	58.52				
300	2702.02	15.09	57.31				
400	2702.16	15.15	56.85				
500	02.49	15.21	55.20				
600	02.87	15.27	53.52				
700	03.12	15.33	52.64				
800	03.29	15.38	52.32				
900	03.33	1545	52.15				
13000	03.39	15.50	52.00				
100	02.53	16.00	51.65				
200	03.55	16.05	51.74				
300	03.58	16.10	51.32				
400	03.86	16.16	50.89				CREEK
500	05.05	16.39	45.61				
600	05.00	16.45	46.08				
700	05.15	16.55	50.26				
A4 8N/00E	2702.65	17.51					

Notes: 13500E IN TRENCH (CREEK)

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: B.H.P.
METER: LACOSTE -#35
AREA: EL-369 LAKE EYRE WEST
METER CALIBRATION: PE-RCHART
GRID: NEALES RIVER.
BOUGUER DENSITY:
LINE: 4000N
DRIFT CORRECTION:
LINE MAGNETIC BRG: 83°
AREA MAGNETIC VARIATION: 7°E
BASE STATION: No4 8000N/00E
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: G. P.
BASE LATITUDE:
DATE: 15/12/17

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV.		
				P_1	P_2	P_3
8N/00E	2698·66	7·49				
0100E	2698·95	8·24	62·32			
200	2698·66	8·30	63·40			
300	2698·38	8·36	64·27			
400	2698·30	8·41	64·47			
500	2698·25	8·48	64·26			
600	2698·31	8·54	64·35			
700	2698·30	9·00	64·41			
800	2698·18	9·06	65·18			
900	2698·05	9·12	66·07			
1000	2697·88	9·20	67·03			
1100	2697·75	9·27	67·94			
1200	2697·46	9·34	69·44			
1300.	2697·24	9·40	70·42			
1400	2697·52	9·45	69·21			
1500	2697·67	9·55	68·57			
1600	2697·48	10·04	69·26			
1700	2697·15	10·10	70·38			
1800	2696·83	10·17	71·76			
1900	2696·51	10·25	72·66			
2000E	2696·14	10·32	74·06			
2100	2695·64	10·42	75·77			
2200	2695·39	10·48	76·78			
2300.	2694·90	10·55	78·55			
2400.	2694·58	11·02	79·78			
2500	2694·00	11·10	82·01			
2600	2692·58	11·26	88·15			
2700.	2692·33	11·35	89·10			

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: B.H.P.
AREA: EL-369 LAKE BYRE WEST
GRID: NEANES RIVER
LINE: 4000 N
LINE MAGNETIC BRG: 83°
BASE STATION: N64 8000N/00E
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:

METER: LACOSTE #G35
METER CALIBRATION: PER CHART
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION: 7°E
OPERATOR: GRAV
DATE: [illegible]

Station	Obs. Grav. s./divs.	Time	Elevn.	ρ_1 ρ_2 ρ_3 BOUGUER GRAV. ρ_1	ρ_2	ρ_3
2800E	2692.73	11.42	86.89			
900	2693.00	11.47	85.28			
3000E	2693.15	11.55	83.94			
100	2692.98	12.30	84.25			
200	2693.11	12.35	83.49			
300	2692.75	12.45	84.88			
400	2692.89	12.50	83.86			
500	2693.07	1300	82.43			
600	2693.21	1305	81.32			
700	2693.33	131[illegible]	80.36			
800	2692.23	[illegible]17	80.38			
900	2693.35	1326	79.41			
4000E	2693.50	1333	78.26			
100	2693.61	1340	77.43			
200	2693.52	1342	77.31			
300	2693.66	1355	76.39			
400	2693.57	1402	76.54			
500	2693.62	1408	76.04			
600	2693.70	1414	75.42			
700	2693.73	1427	75.01			
800	2693.69	[illegible]27	74.99			
900	2694.14	1437	72.82			
5000E	2694.48	1445	70.85			
8N/00E	2698 52					

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

000180

CLIENT: B.H.P.
AREA: EL-369 LAKE EYRE WEST
GRID: NEALES RIVER
LINE: 4000 N.
LINE MAGNETIC BRG: 83°
BASE STATION: No4 8000N/00E
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:

METER: LACOSTE # 35
METER CALIBRATION: PERCHART
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION: 7°E
OPERATOR:
DATE:

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3
8N/00E	2698.69	850				
5100E	2695.02	9.45	69.27			
5200	2695.12	9.54	68.25			
5300	2695.47	10 00	66.90			
5400	2695.59	1005	66.18			
5500	2695.72	1011	65.47			
5600	2695.84	1017	65.06			
5700	2695.92	1029	64.66			
5800	2695.56	1030	66.33			
5900	2695.90	1036	65.07			
6000E	2696.00	1042	64.49			
6100	2696.14	1049	64.11			
6200	2696.34	1057	63.44			
6300	2696.43	1103	63.29			
6400	2696.61	1109	62.97			
6500	2696.74	1116	62.74			
6600	2696.91	1127	62.32			
6700	2696.98	1134	62.42			
6800	2696.94	1140	62.86			
6900	2697.29	1150	61.58			
7000E	2697.53	1156	60.52			
7100	2697.54	1202	60.66			
7200	2697.43	1208	61.48			
7300	2697.14	1214	62.83			
7400	2696.52	1219	65.54			
7500	2696.76	1229	64.51			
7600	2697.07	1235	63.53			
7700	2697.21	1241	62.40			

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: B.H.P.
METER: LACOSTE # 35
AREA: EL-369 LAKE EYRE WEST
METER CALIBRATION: TIE CHART
GRID: NEALES RIVER
BOUGUER DENSITY:
LINE: 4000 N
DRIFT CORRECTION:
LINE MAGNETIC BRG: 83°
AREA MAGNETIC VARIATION: 7°E
BASE STATION: No4 8000N/00E
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: G.RAU.
BASE LATITUDE:
DATE: '85

	Station	Obs. Grav. s./divs.	Time	Elevn.	ρ_1 ρ_2 ρ_3 BOUGUER GRAV. ρ_1	ρ_2	ρ_3
	7800E	2697.42	1245	61.48			
	7900	2697.58	1253	60.79			
	8000E	2697.90	1259	59.63			
	8100	2698.11	1336	58.67			
	8200	2698.93	1344	55.11			
	8300	2698.78	1350	56.06			
	8400	2699.70	1358	52.14			
	8500	2699.72	140	52.18			
	8600	2699.34	143	54.08			
	8700	2699.33	1420	54.27			
	8800	2699.15	1428	53.34			
	8900	2699.73	1439	52.34			
X	9000E	2700.66	1451	48.25			
X	9100	2700.95	1502	46.98			
X	9200	2700.71	1514	48.28			
X	9300	2700.02	1522	51.82			
	9400	2699.94	1531	52.04			
X	9500	2700.17	1545	51.19			
	9600	2699.89	1553	52.42			
X	9700	2700.08	1602	51.65			
	9800	2699.85	1613	52.71			
	9900	2699.71	1618	52.82			
	10000E	2699.74	1622	52.81			
Δ_4	8N/00E	2698.51	1711				

Notes:

000182

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: B.H.P. METER: LACOSTE #35

AREA: EL-369 LAKE EYRE WEST METER CALIBRATION: PER CHART 2700 RANGE

GRID: NEALES RIVER BOUGUER DENSITY:

LINE: 4000N DRIFT CORRECTION:

LINE MAGNETIC BRG: 83° AREA MAGNETIC VARIATION: 7°E,

BASE STATION: No4 8000N/00E

BASE NOMINAL GRAV:

BASE NOMINAL ELEVN: OPERATOR: G RAO

BASE LATITUDE: DATE: 17.12.77

	Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3	
L4	8N/00E	2698.65	0936					
	10,100E	2699.82	10.36					
	200	2699.82	10.45					
	300	2699.91	10.49	THIS SECTION				
	400	2699.94	10.55	REPEATED				
*	500	2700.00	11.00					
*	600	2700.08	11.04					
*	700	2700.18	11.08					
*	800	2700.22	10.14					
*	900	2704.67	10.20					* INSTRUMENT BUMPED BY ASSISTANT CHANGED LEVEL
* L4	8N/00E	2703.06	12.14					
*	10,100E	2704.22	12.49	52.40				
*	200	2704.22	13.00	52 14				
*	300	2704.32	13.05	51.50				
*	400	2704.36	13.09	51.39				
*	500	2704.43	13.11	51.33				
*	600	2704.50	13.14	51.29				
*	700	2704.56	13.16	51.21				
*	800	2704.60	13.19	51.25				
*	900	2704.66	13.23	51.36				
*	11000E	2704.43	13.31	52.76				
*	100	2704.12	13.39	54.29				
*	200	2704.68	13.44	52.22.				
*	300	2704.85	13.50	51.20				
*	400	2705.17	13.56	50.11				
*	500	2705.08	14.02	50.57				
*	600	2705.00	14.08	51.12				

Notes: * RETURNED TO BASE AND STARTED AGAIN

000183

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: BHP
AREA: EL-369 LAKE EYRE WEST
GRID: NEANES RIVER
LINE: 40000N
LINE MAGNETIC BRG: 83°
BASE STATION: NO4 8000N/00E
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:

METER: LACOSTE # 35
METER CALIBRATION: PERCHART 2700 RANGE
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION: 7°E
OPERATOR: GRAV
DATE: 17.12.77.

Station	Obs. Grav. s./divs.	Time	Elevn.	ρ_1 ρ_2 ρ_3 BOUGUER GRAV. ρ_1	ρ_2	ρ_3
11700E	2704.88	14.15	52.13			
11800E	2704.78	14.20	52.79			
900	2704.62	14.26	53.78			
12000E	2704.38	14.30	54.97			
100	2704.27	14.37	55.76			
200	2704.17	14.45	56.39			
300	2704.45	14.51	56.18			
400	2704.66	14.57	55.74			
500	2704.86	15.02	55.26			
600	2705.14	15.08	54.73			
700	2705.57	15.14	53.56			
800	2706.21	15.21	51.49			
900	2706.77	15.26	49.86			
13000E	2706.47	15.31	52.08			
100	2707.07	15.37	50.25			
200	2707.24	15.42	50.22			
300	2707.52	15.46	49.05			
400	2707.90	16.00	47.80			
500	2708.28	16.06	46.46			
600	2708.52	16.11	46.22			
700	2708.67	16.17	45.79			
800	2708.81	16.22	45.68			
900	2708.88	16.28	45.47			
14000E	2708.94	16.33	45.66			
100	2709.03	16.41	45.47			
200	2709.06	16.51	45.23			
300	2709.11	16.56	45.06			
400	2709.17	17.02	44.83			

Notes:

000184

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: B.H.P.
METER: LACOSTE #35
AREA: EL-369
METER CALIBRATION: PER CHART 2700 RANGE
GRID: NEALES RIVER.
BOUGUER DENSITY:
LINE: 40000N
DRIFT CORRECTION:
LINE MAGNETIC BRG: 83°
AREA MAGNETIC VARIATION: 7°E
BASE STATION: No4 8000N/00E
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: G RAU
BASE LATITUDE:
DATE: 17.12.77

	Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3
×	14500E	2709.21	17.10	44.76			
×	600	2709.22	17.20	44.61			
×	700	2709.20	17.24	44.59			
×	800	2709.20	17.30	44.66			
×	900	2709.27	17.34	41.12			
×	15000E	2709.29	17.40	43.97			
A4 ×	8N/00E	2702.72	18.35				

Notes:

000185

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: B.H.P.
METER: LACOSTE #35
AREA: EL-369 LAKE EYRE WEST
METER CALIBRATION: PER CHART 2700 RANGE
GRID: NEALES RIVER.
BOUGUER DENSITY:
LINE: 4000N & 6000N.
DRIFT CORRECTION:
LINE MAGNETIC BRG: 83°
AREA MAGNETIC VARIATION: 7°E.
BASE STATION: NO4 8000N/00E
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: G. RAU.
BASE LATITUDE:
DATE: 18.12.77

Station	Obs. Grav. s./divs.	Time	Elevn.	ρ_1 ρ_2 ρ_3 BOUGUER GRAV. ρ_1	ρ_2	ρ_3
8N/00E	2702.73	7:52				
15000E	2709.29	8:45	43.97			
100	09.29	8.52	43.83			
200	09.27	9.00	43.89			
300	09.21	9.25	41.03			
400	09.21	9.30	43.98			
500	09.14	9.35	43.93			
600	09.23	9.41	43.67			
700	09.35	9.47	43.01			
800	09.53	9.57	42.05			
900	09.19	10.08	43.38			
16000E	09.19	10.21	43.41			
100	09.32	10.33	42.90			
200	09.33	10.41	42.82			
300	11.37	12.15	33.73			
>						
	LINE 6000N			FOLLOWS.		
11000E	2702.33	13.50	54.00			
100	03.81	13.55	47.58			
200	02.45	14.02	53.00			
300	02.34	14.08	53.84			
400E	02.30	14.14	54.16			
500	02.11	14.21	55.17			
600	01.76	14.26	57.34			
700	01.58	14.33	59.16			
800	01.11	1438	60.63			
900	01.13	14.45	60.41			
12000E	01.30	14.51	60.42			

Notes:

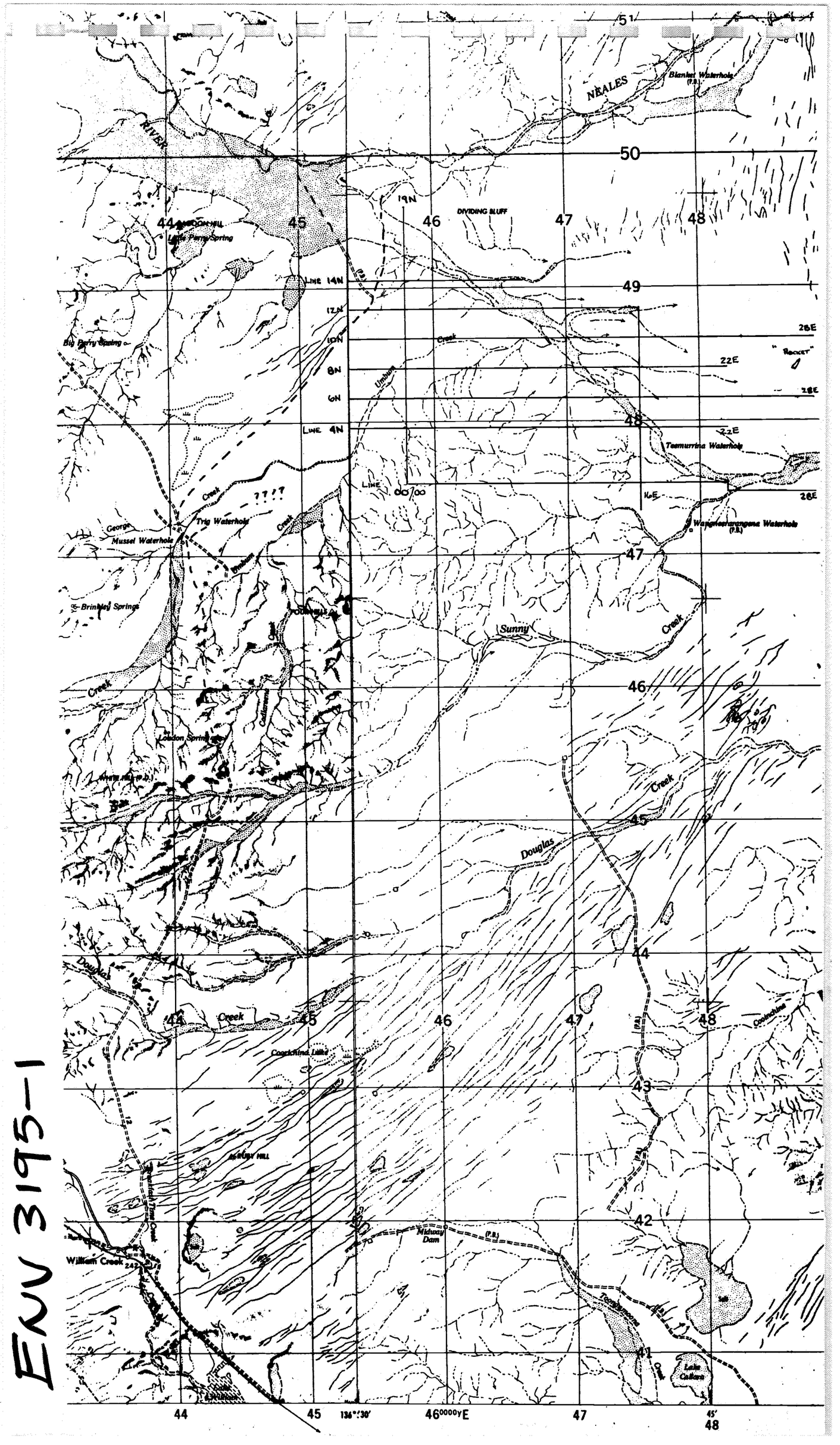
SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: B.H.P.
AREA: E.L No 369 LAKE EYRE WEST
GRID: NEALES RIVER.
LINE: 6000N
LINE MAGNETIC BRG: 83°
BASE STATION: A4 8000N000E
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:

METER: LACOSTE #35
METER CALIBRATION: PER CHART 2700 RANGE
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION: 7°E
OPERATOR: G. RAU.
DATE: 18.12.77.

Station	Obs. Grav. s./divs.	Time	Elevn.	ρ_1 ρ_2 ρ_3 BOUGUER GRAV. ρ_1	ρ_2	ρ_3	
12100	2701.51	14.57	59.50				
200	2702.89	1502	58.52				
300	2702.02	15.09	57.31				
400	2702.16	15.15	56.85				
500	02.49	15.21	55.20				
600	02.87	15.27	53.52				
700	03.12	15.33	52.64				
800	03.29	15.38	52.32				
900	03.33	1545	52.15				
13000	03.39	15.50	52.00				
100	03.53	16.00	51.65				
200	03.55	16.05	51.74				
300	03.58	16.10	51.32				
400	03.86	16.16	50.89				CREEK
500	05.05	16.39	45.61				
600	05.00	16.45	46 08				
700	05.15	16.55	50.26				
A4 8N/000E	2702.65	17.51					

Notes: 13500E IN TRENCH (CREEK)


RIVER
NEALES
Blanket Waterhole (P.S.)
DIVIDING BLUFF
Little Perry Spring
Big Perry Spring
LINE 14N
17N
10N
8N
6N
LINE 4N
Creek
Umbum
"Rocket"
28E
22E
Teamurrina Waterhole
LINE 00/00
Trig Waterhole
George
Mussel Waterhole
Brindley Springs
Sunny
Douglas
Coorchina Lake
Midway Dam (P.S.)
William Creek
Tarcoola
Lake Callam
44
45
46
47
48
49
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43
42
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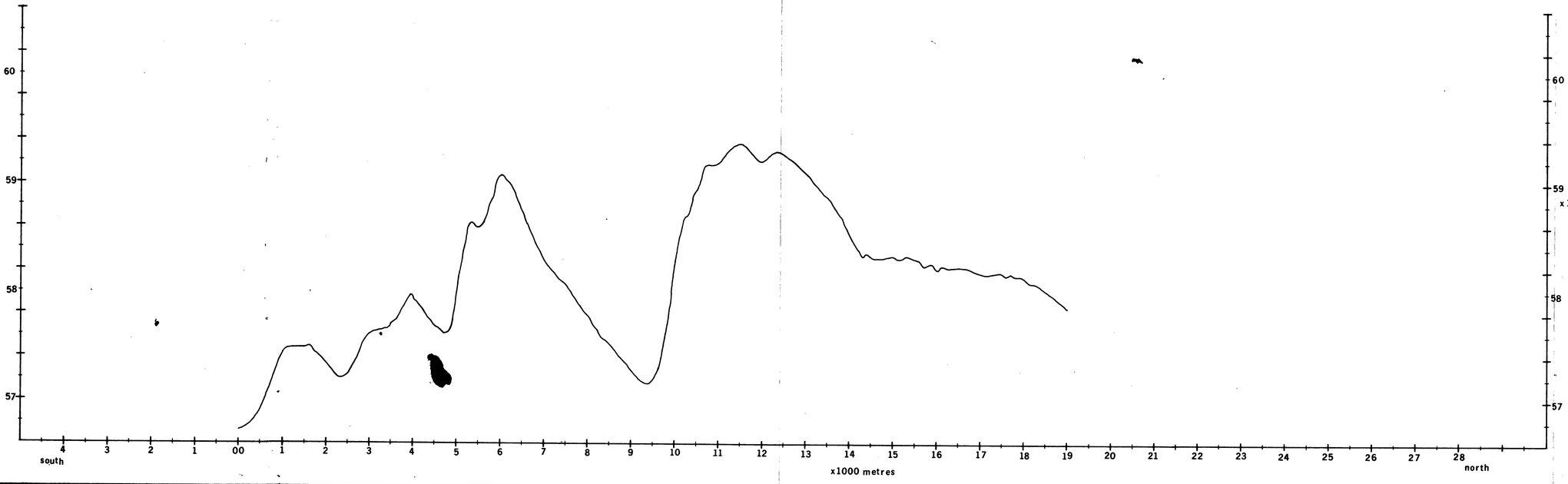
46000yE

ENV 3195-1



SOLO GEOPHYSICS AND CO.

MAGNETOMETER SURVEY

CLIENT THE BHP CO LTD

AREA E.L 369 LAKE EYRE WEST

GRID THE NEALES RIVER

LINE 00 BRG 353/173

METER SCINTREX MP-2 PROTON

CALIBRATION

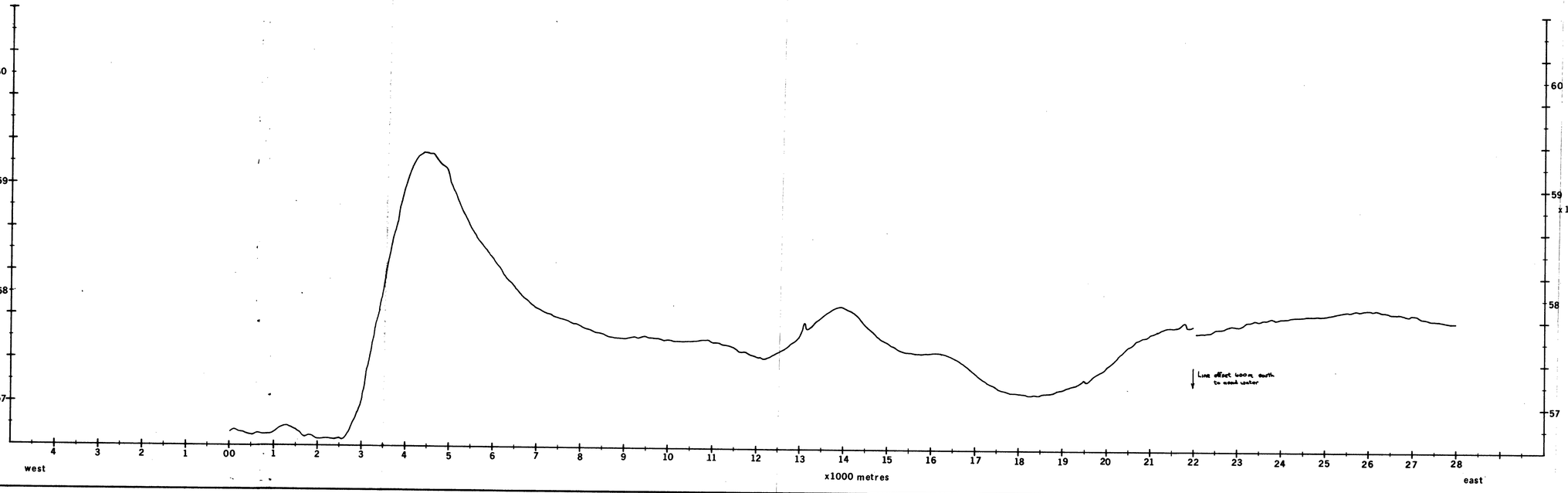
DATA SCALE 1:50000

SURVEYORS B.RAU T.HANSEN

DATE OF SURVEY DEC 1977

PLOTTED BY B.RAU

ENV 3195-2



SOLO GEOPHYSICS AND CO.

MAGNETOMETER SURVEY

CLIENT THE BHP CO LTD

AREA E.L 369 LAKE EYRE WEST

GRID THE NEALES RIVER

LINE 00 BRG 83/263

METER SCINTREX MP-2 PROTON

CALIBRATION

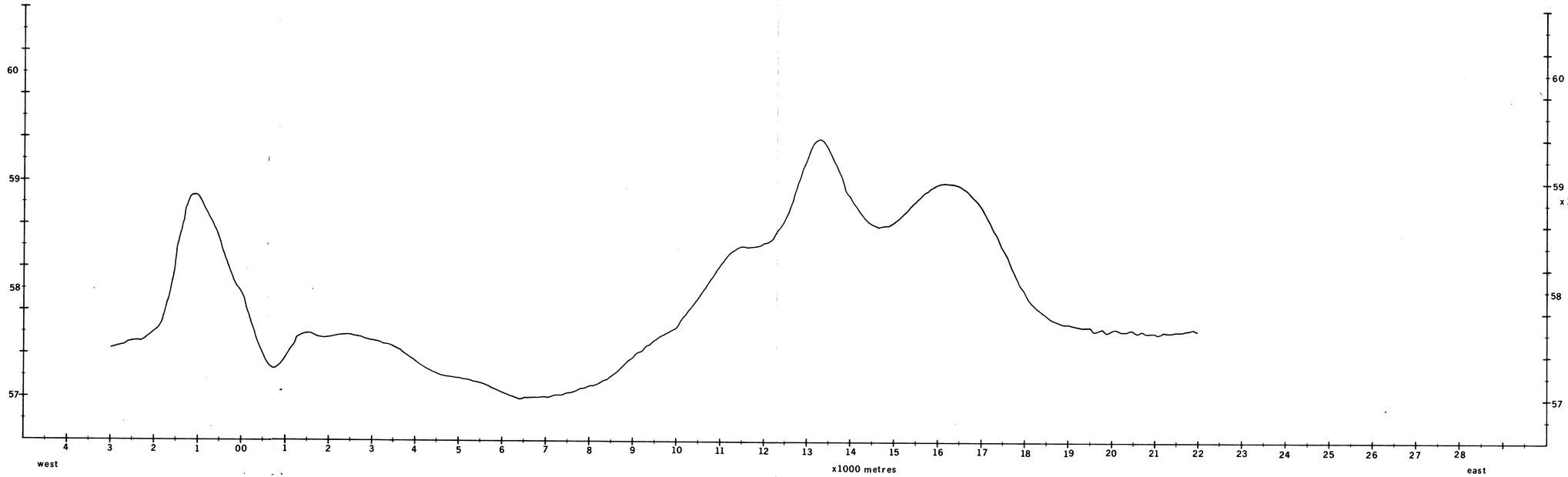
DATA SCALE 1:50000

SURVEYORS B.RAU T.HANSEN

DATE OF SURVEY DEC 1977

PLOTTED BY B.RAU

ENV 3195-3



SOLO GEOPHYSICS AND CO.

MAGNETOMETER SURVEY

CLIENT THE BHP CO LTD

AREA E.L 369 LAKE EYRE WEST

GRID THE NEALES RIVER

LINE 4000 N BRG 83/263

METER SCINTREX MP-2 PROTON

CALIBRATION

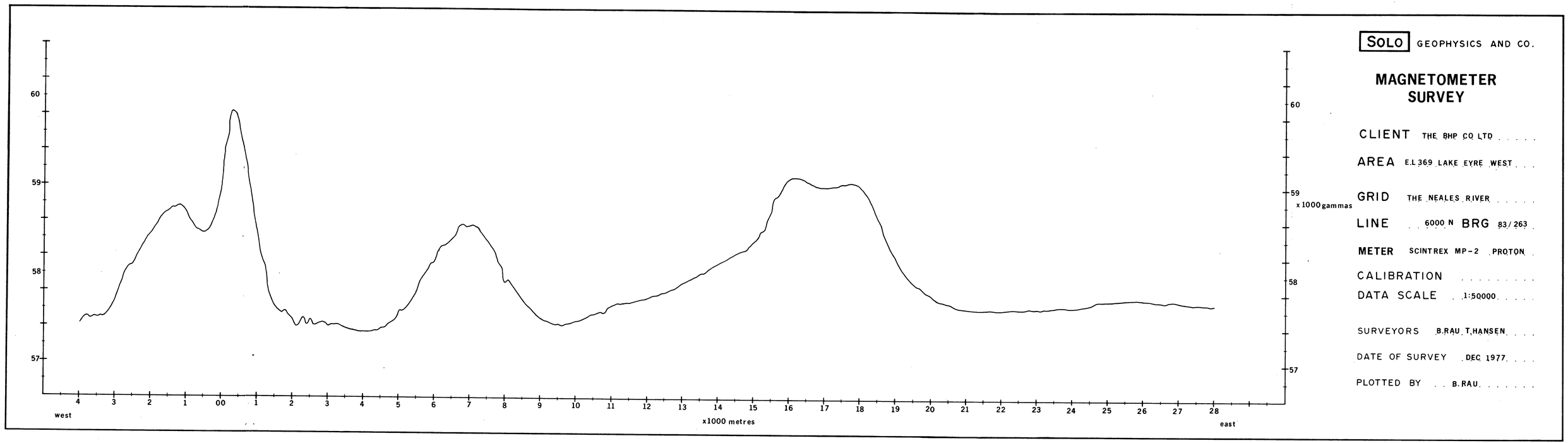
DATA SCALE 1:50000

SURVEYORS B.RAU T.HANSEN

DATE OF SURVEY DEC 1977

PLOTTED BY B.RAU

ENV 3195-4



SOLO GEOPHYSICS AND CO.

MAGNETOMETER SURVEY

CLIENT THE BHP CO LTD

AREA E.L 369 LAKE EYRE WEST

GRID THE NEALES RIVER

LINE 6000 N BRG 83/263

METER SCINTREX MP-2 PROTON

CALIBRATION

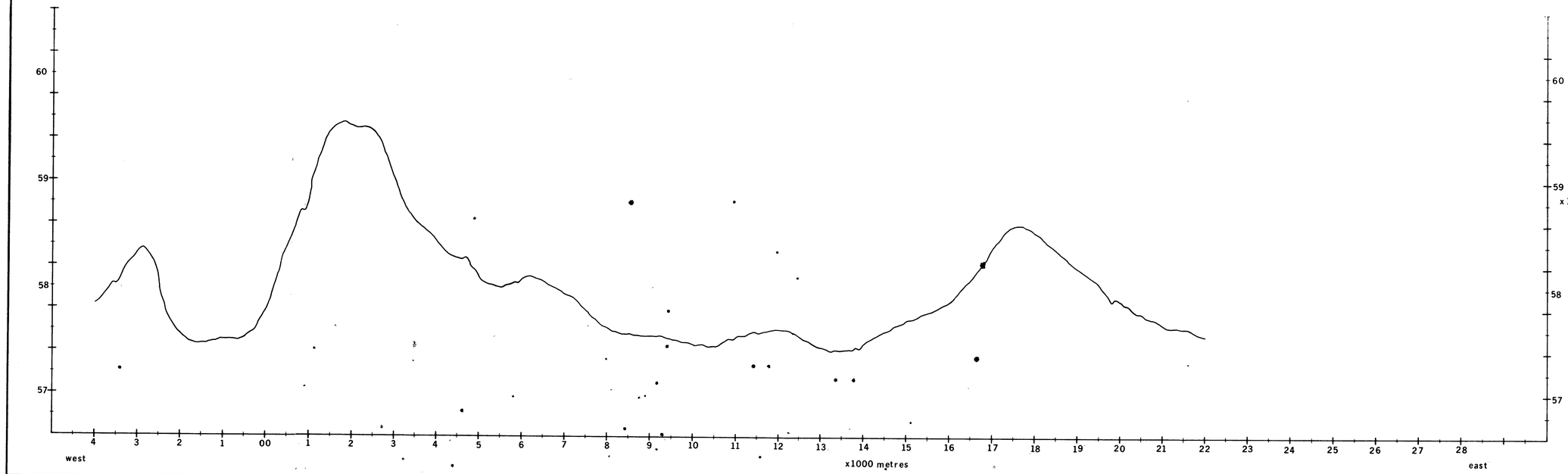
DATA SCALE 1:50000

SURVEYORS B.RAU T.HANSEN

DATE OF SURVEY DEC 1977

PLOTTED BY B.RAU

ENV 3195-5



MAGNETOMETER SURVEY

CLIENT THE BHP CO LTD

AREA E.L 369 LAKE EYRE WEST

GRID THE NEALES RIVER

LINE 8000 N BRG 83/263

METER SCINTREX MP-2 PROTON

CALIBRATION

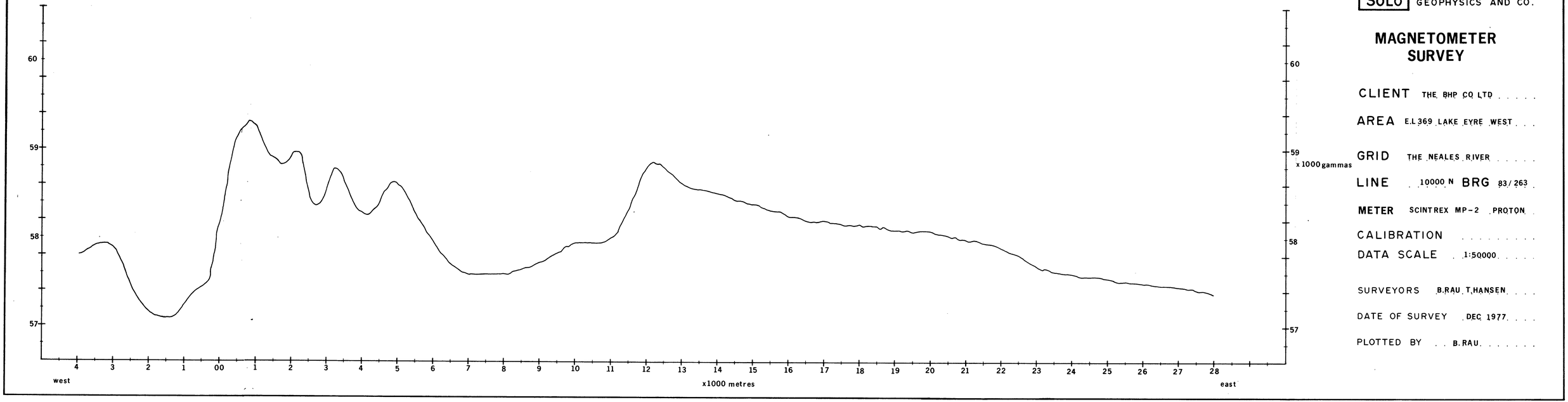
DATA SCALE 1:50000

SURVEYORS B.RAU, T.HANSEN

DATE OF SURVEY DEC 1977

PLOTTED BY B.RAU

ENV 3195-6



SOLO GEOPHYSICS AND CO.

MAGNETOMETER SURVEY

CLIENT THE BHP CO LTD

AREA E.L 369 LAKE EYRE WEST

GRID THE NEALES RIVER

LINE 10000 N BRG 83/263

METER SCINTREX MP-2 PROTON

CALIBRATION

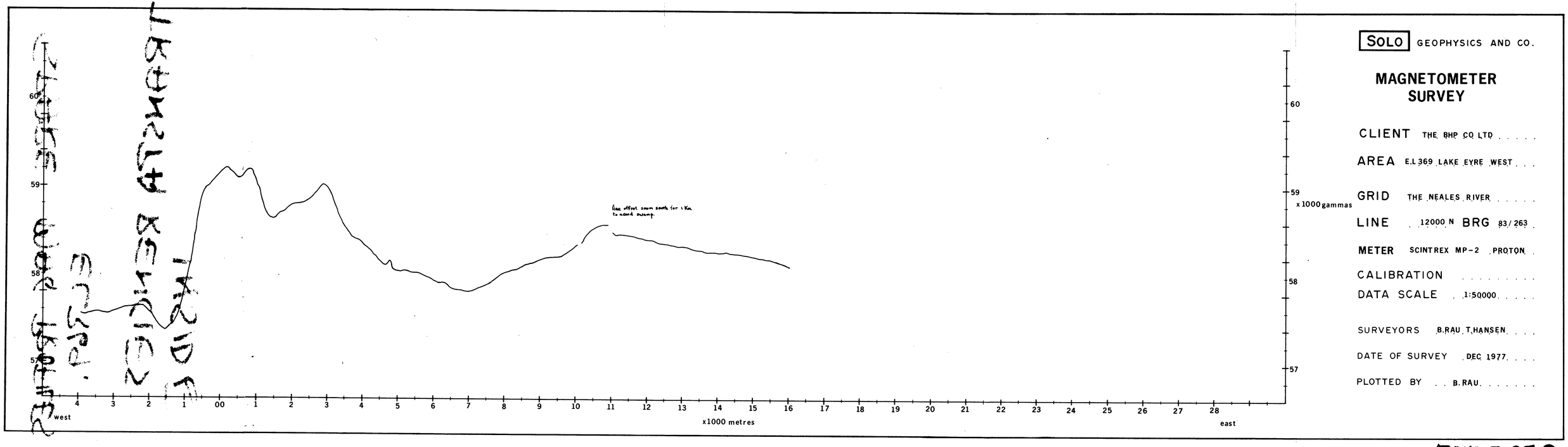
DATA SCALE 1:50000

SURVEYORS B.RAU, T.HANSEN

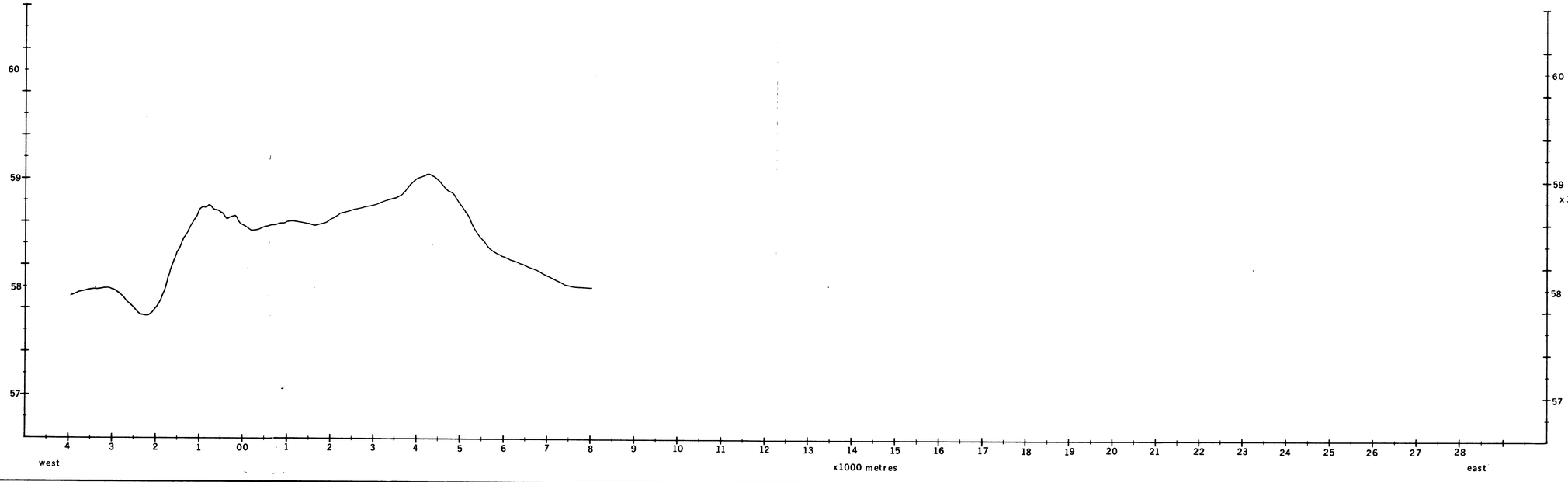
DATE OF SURVEY DEC 1977

PLOTTED BY B.RAU

ENV 3195-7


SOLO GEOPHYSICS AND CO.
MAGNETOMETER SURVEY
CLIENT THE BHP CO LTD
AREA E.L 369 LAKE EYRE WEST
GRID THE NEALES RIVER
LINE 12000 N BRG 83/263
METER SCINTREX MP-2 PROTON
CALIBRATION
DATA SCALE 1:50000
SURVEYORS B.RAU T.HANSEN
DATE OF SURVEY DEC 1977
PLOTTED BY B.RAU
x1000 gammas
60
59
58
57
west
east
x1000 metres
4 3 2 1 00 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 26 27 28
line offset 200m south for 1 Km to avoid swamp

ENV 3195-8



SOLO GEOPHYSICS AND CO

MAGNETOMETER SURVEY

CLIENT THE BHP CO LTD

AREA E.L 369 LAKE EYRE WEST

GRID THE NEALES RIVER

LINE 14000 N BRG 83/263

METER SCINTREX MP-2 PROTON

CALIBRATION

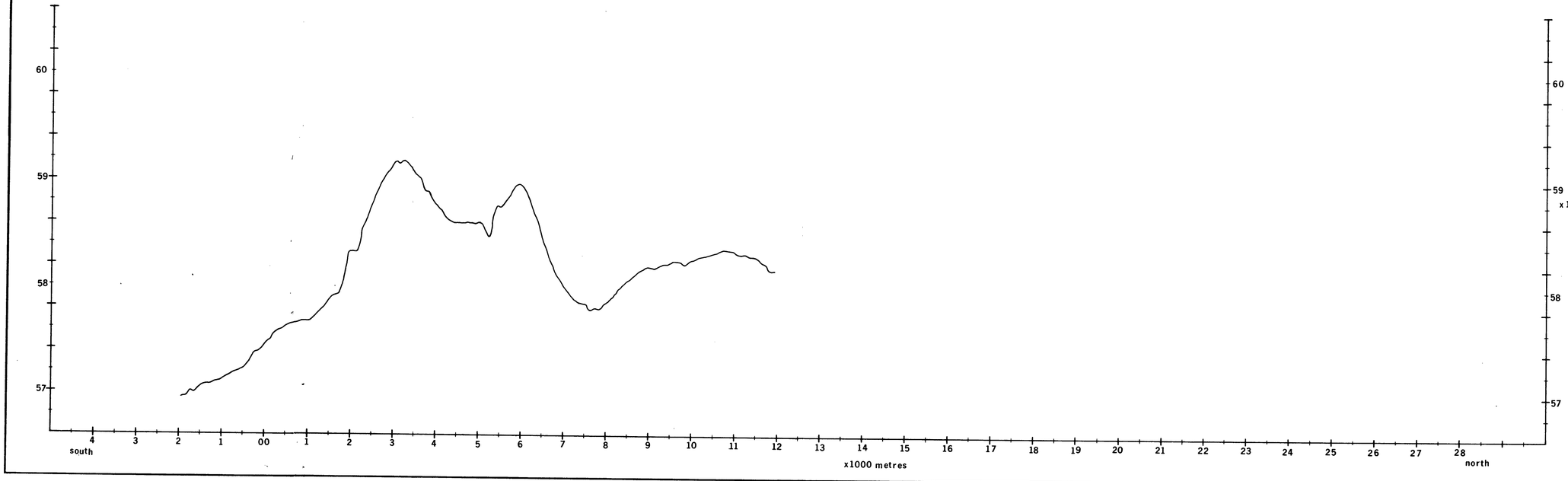
DATA SCALE 1:50000

SURVEYORS B.RAU T.HANSEN

DATE OF SURVEY DEC 1977

PLOTTED BY B.RAU

ENV 3195-9



SOLO GEOPHYSICS AND CO.

MAGNETOMETER SURVEY

CLIENT THE BHP CO LTD

AREA E.L 369 LAKE EYRE WEST

GRID THE NEALES RIVER

LINE 16000E BRG 353/173

METER SCINTREX MP-2 PROTON

CALIBRATION

DATA SCALE 1:50000

SURVEYORS B.RAU T.HANSEN

DATE OF SURVEY DEC 1977

PLOTTED BY B.RAU

ENV 3195-10

West Lake Eyre, South Australia

EXPLORATION LICENCE 369

Report for the Quarter ended 30th April, 1978

1. General

Exploration Licence 369 was granted to Dampier Mining Company Limited on 1st November, 1977, for 12 months.

2. Work Done

Geophysical data from the combined gravity and magnetic survey carried out during the previous quarter was interpreted, and drill-sites were selected. Drilling should begin in June.

3. Expenditure

Expenditure debited to E.L. 369 during February, March and April, 1978 was:-

Wages and Salaries	$ 480
Geophysics	22,575
	$23,055

Total expenditure to 30th April, 1978 is $24,939.

This report is submitted to the Mines Department as required by Condition 4 of Exploration Licence 369.

EXPLORATION LICENCE 369

WEST LAKE EYRE, SOUTH AUSTRALIA

REPORT FOR THE QUARTER ENDED 30th JULY, 1978

CONTENTS

FIGURES

EXPLORATION LICENCE 369

WEST LAKE EYRE, SOUTH AUSTRALIA

REPORT FOR THE QUARTER ENDED 30th JULY, 1978

1. GENERAL STATEMENT

Exploration Licence 369 was granted to Dampier Mining Company Limited on 1st November, 1977, for twelve months.

The exploration objective is to test the major magnetic anomalies in the area for associated mineralization.

2. FIELD INVESTIGATIONS

The location map Figure 1 shows the ground magnetic/gravity grid and the location of WLE1, a rotary drill hole, drilled to test a gravity/magnetic anomaly.

2.1 Geophysics

Two major magnetic anomalies evident on the regional 1:250,000 Lake Eyre magnetic map, in the north east portion of E.L. 369 near Umbum Creek, were chosen for investigation. A ground magnetic, gravity and levelling survey was carried out by Solo Geophysics over these anomalies. The purpose of the survey was to outline the best combined gravity/magnetic target for testing each of these anomalies, with the emphasis on a well defined gravity anomaly.

The results are presented as a contour plan in Figure 2, and as traverse profiles of elevation, gravity, and magnetics in Figures 4 to 11.

Two drill sites were selected from the geophysical results, one at 8000N 2900E and another at 4000N 13300E.

On the first target the estimated depth to the source of the magnetic anomaly is about 800 metres. It was hoped that the magnetic/gravity highs would have only a thin cover of artesian basin sediments.

2.2 Drilling

It was intended to precollar two holes to basement through the artesian basin sediments.

The first hole WLE1, located at 8000N 2900E, intersected a warm artesian flow at 273 metres below black shales of the Cadnaowie Formation (Figure 3). Judging from a few small chips of rock that came up with the shale, the aquifer host is a medium grained kaolinitic sandstone. At 279 metres the hole was abandoned and cemented back to surface. A shut in pressure at surface of 60 p.s.i. was recorded, which is at least three times greater than the expected pressure. Due to the problems of the flowing well, a complete gamma log of the hole was not obtained and only the top 80 metres were logged. A sample of the water was given to the Mines Department.

Although it was originally intended to drill a second hole at 4000N 13300E on the grid, this hole was cancelled due to the problems encountered drilling the first hole.

3. EXPENDITURE

Expenditure debited to E.L. 369 during May, June and July, 1978, was:-

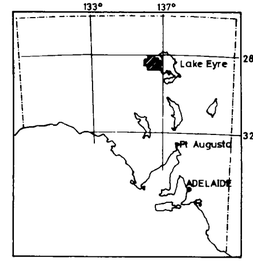
Wages and Salaries	$ 4,520
Messing and Accommodation	966
Fares and Mobilisation	298
Drilling	22,053
Transport	613
Surveying/Aerial Photographs	1,842
Occupancy/Location Expenses	1,409
Sample Analysis	66
Radio Communications	60
	$31,827

Total expenditure to 31st July, 1978 is $56,766.

This report is submitted to the Mines Department as required by Condition 4 of Exploration Licence 369.

LAKE EYRE (NORTH)

LOCALITY MAP



N

LEGEND

- Mesozoic to recent sediments
- Odb — Ordovician granite
- Pu — Adelaidean sediments
- Pcc — Cadlareena volcanics
- P€m — Carpentarian metamorphics
- OWLE 1 (279) — B.H.P. 1978 rotary drill hole (279) Total depth in metres
- oLHDH — Drill hole by Chevron Exploration 1973 EL 22 GSA envelope 2182
- B● — Water bore
- A● — Artesian water bore
- E.L. boundary
- Traverse
- Unsealed road
- Track
- River, creek

Scale 1:250,000

KILOMETRES 0 5 10 15 20 25

Fig. No.
To accompany
Dated

ENV3195-11

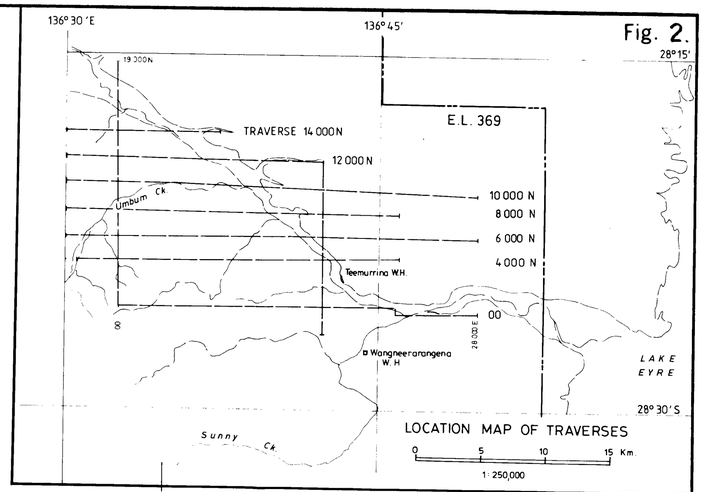
THE BROKEN HILL PROPRIETARY CO. LTD.
EXPLORATION DEPARTMENT

E.L. 369 WEST LAKE EYRE
LOCATION AND GEOLOGY

Drawn:	Date:	Centre: ADELAIDE
Traced: R.F.F.	Project No:	Drawing No: A2-1
Checked:		

Revisions:

Fig. 2.



TRAVERSE 00E

TRAVERSE 14 000 N

TRAVERSE 12 000 N.

TRAVERSE 10 000 N

TRAVERSE 8 000N

TRAVERSE 6 000 N

TRAVERSE 4 000 N

TRAVERSE 00

TRAVERSE 16 000 W.

MILLIGALS

WLE 1 ○ 2.79m

57 600 57 200 57 000 58 000 58 400 58 800 59 000 59 400

00 8 000 E. 16 000 E 24 000 E

WLE 1. ○ Rotary drill hole B.H.P. July 1978

NOTE - GRAVITY BASE DATUM ARBITARY
Traverse lines have been drawn straight
Magnetic contour interval 200 nT

SCALE 1: 50,000

0 1 2 3 4 5 Kilometres

Fig. No. .....
To accompany .....
Dated .....

THE BROKEN HILL PROPRIETARY CO. LTD.
EXPLORATION DEPARTMENT

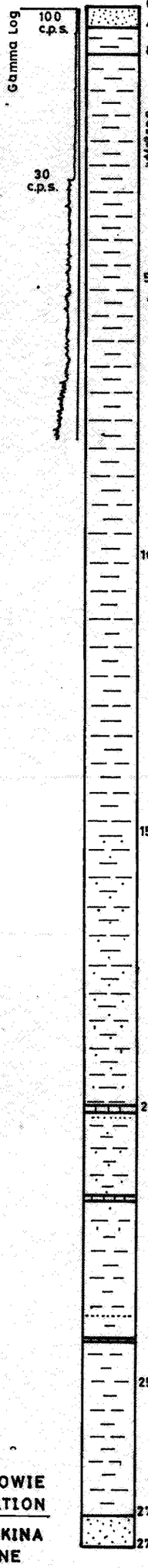
E.L.369 WEST LAKE EYRE, S.A.

MAGNETIC CONTOURS & GRAVITY PROFILES
GROUND SURVEY

Drawn: M Rose	Date: 10·5·78	Centre: Melbourne	
Traced: G B		Project No:	Drawing No: A1-1847
Checked:			
O.I.C.:			

Revisions:

ENV 3195-12



NOTES FIG. 3.

Located S. of Umbum ck. at 8100 N, 2800 E on grid & 136°34'12" 28°21'24"

Drilled by Thomson Drilling Co. 23-6-78 by R. Brown with a Mayhew 1000

Hole Specifications

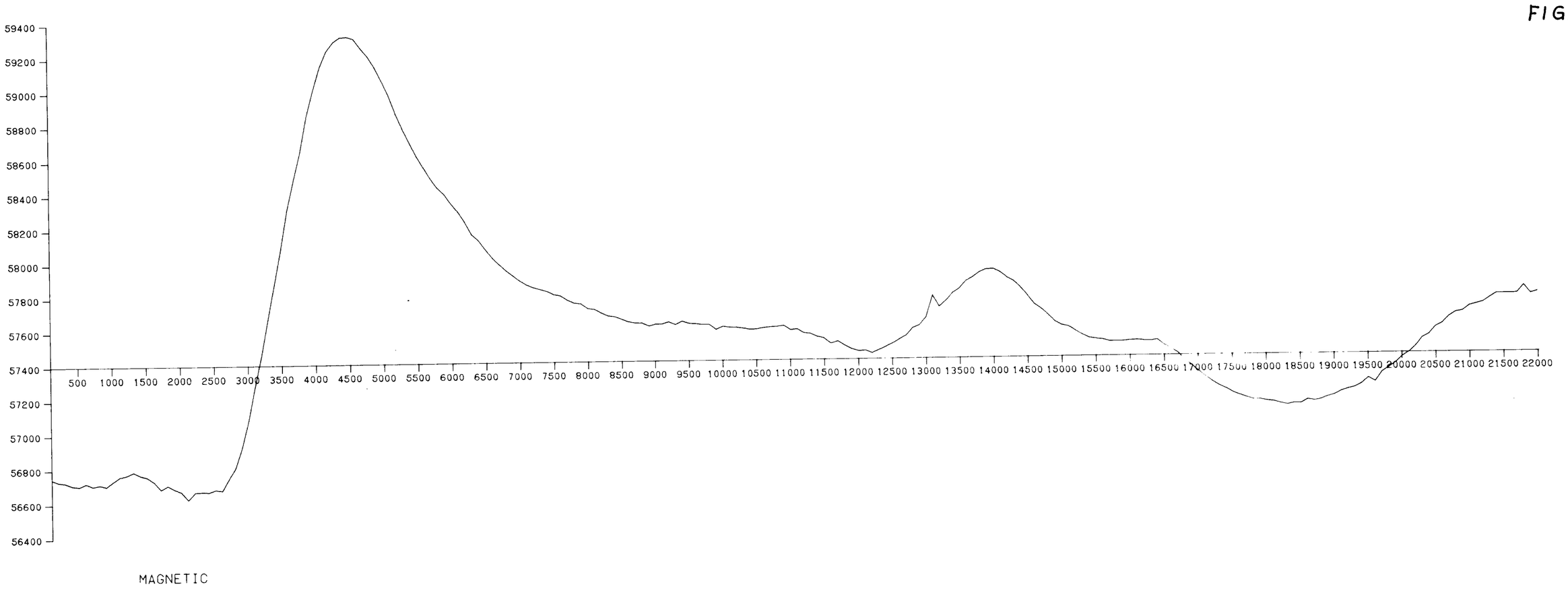
10" to 23m cased with 6" P.V.C. & cemented behind casing.
5⅝" to 279m. cemented to surface.

Water:

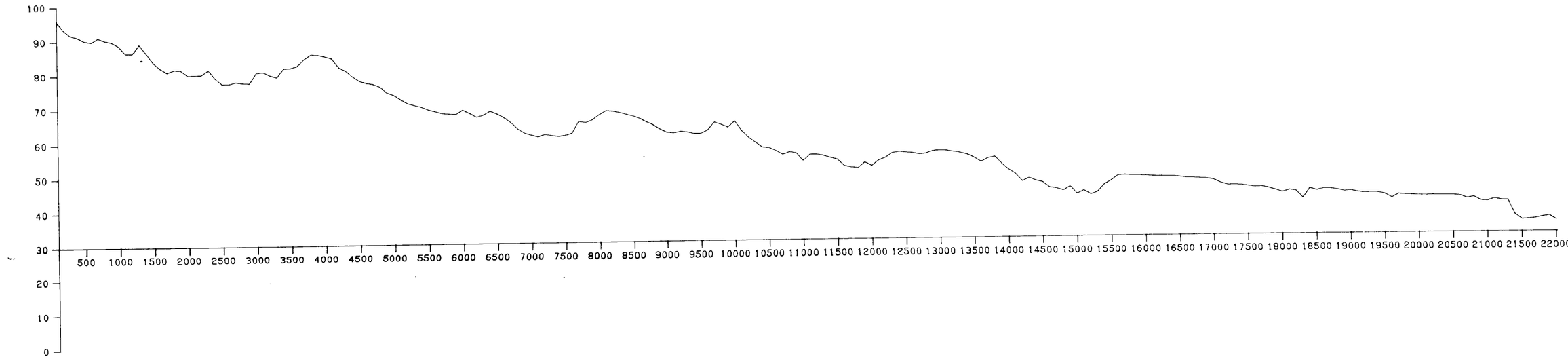
Artesian flow at 273m.
Shut in pressure over 60 p.s.i.
Water sample sent to Mines Dept.

THE B.H.P. CO. LTD.
E.L. 369 WEST LAKE EYRE
WLE 1 - LOG
A4- 2

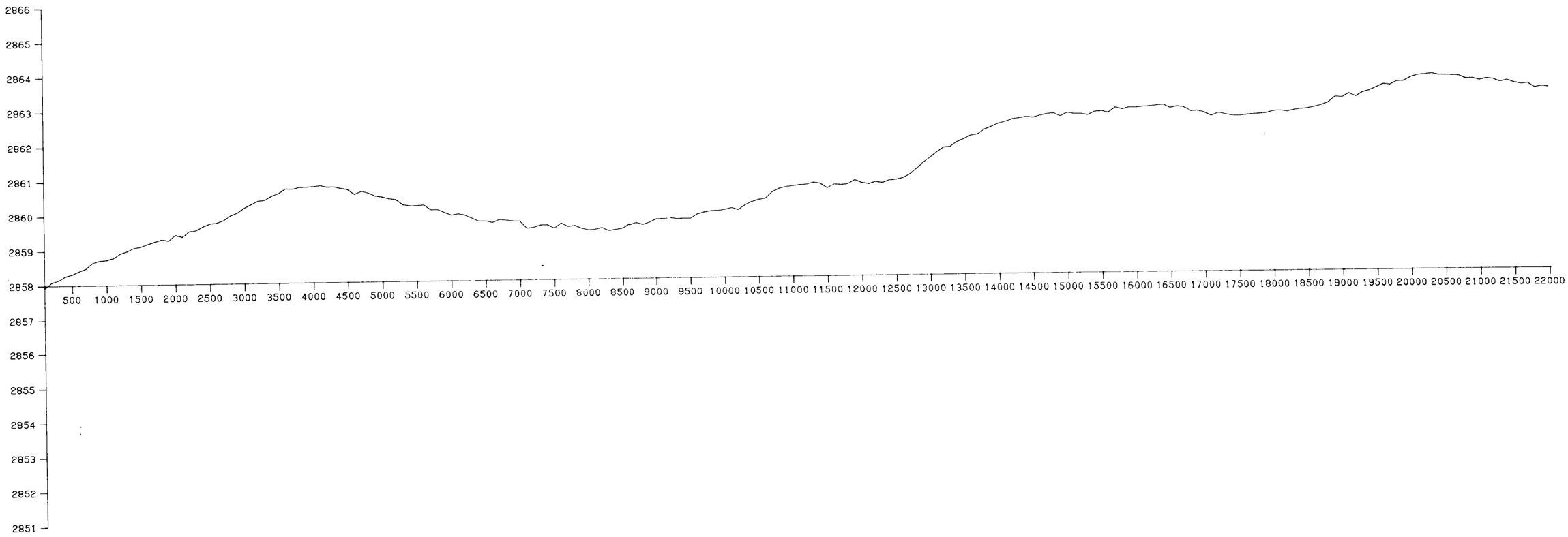
FIG. 4



MAGNETIC



ELEVATION



GRAVITY

LINE 0 NORTH

BOUGUER VALUE 1.9

SCALE 1:50000

SCALE FOR GRAVITY VALUES 1 MGAL/CM BASE VALUE 2858

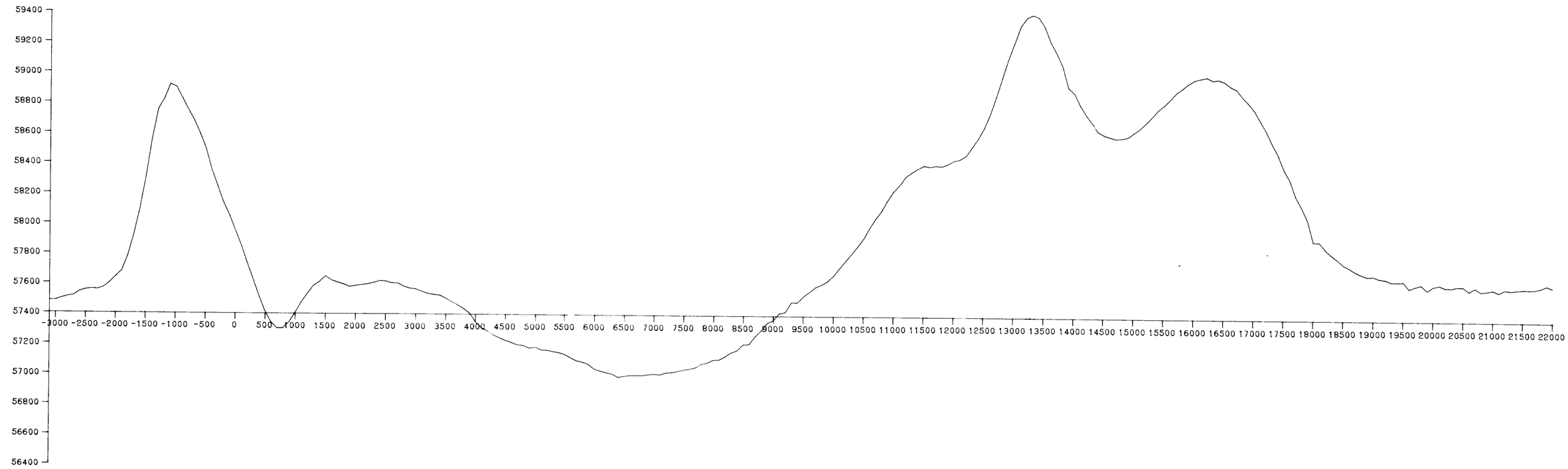
SCALE FOR ELEVATION 1:1000 BASE VALUE 30M

SCALE FOR MAGNETICS 200 GAMMA/CM BASE VALUE 57400

LINE 0 NORTH

ENV 3195-13

FIG. 5



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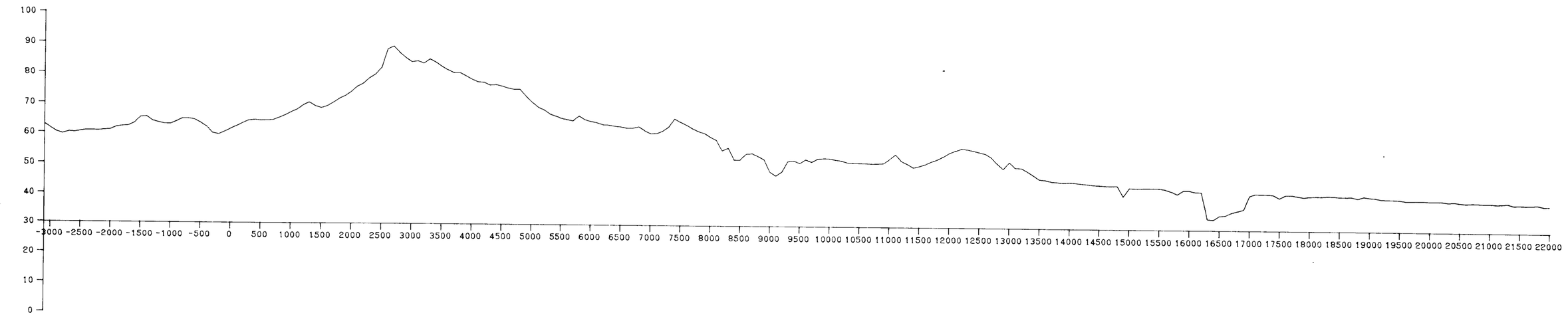

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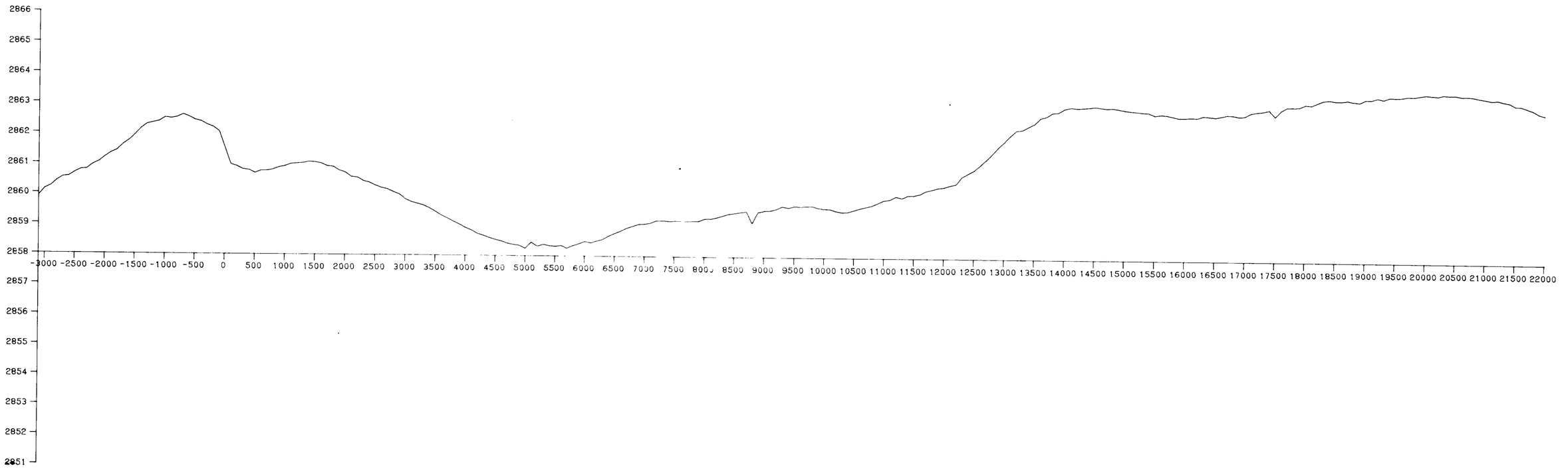


GRAVITY

LINE 4000 NORTH

BOUGUER VALUE 1.9

SCALE 1:50000

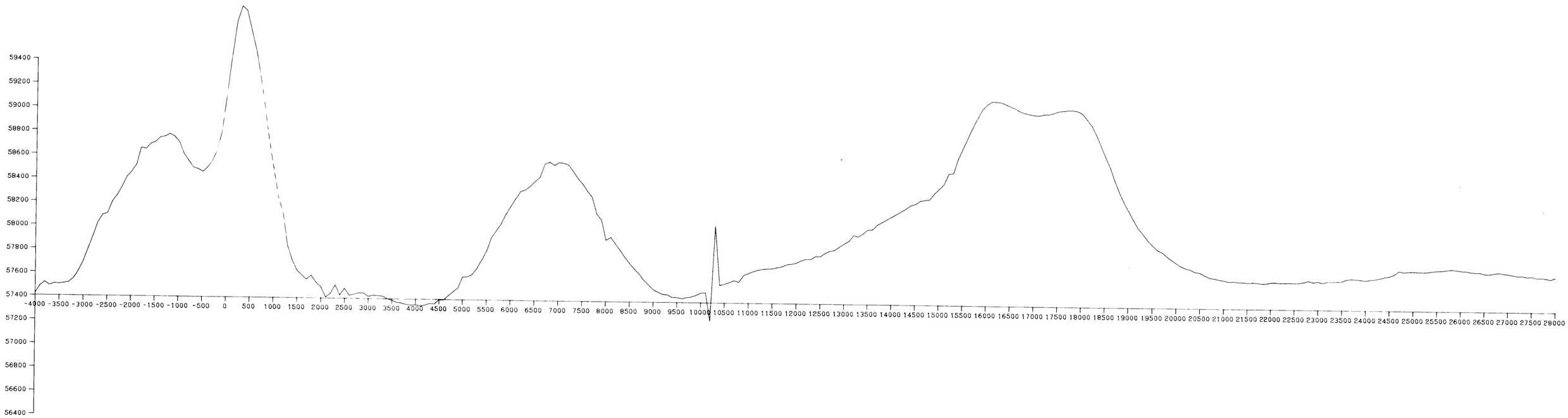
SCALE FOR GRAVITY VALUES 1 MGAL/CM BASE VALUE 2858

SCALE FOR ELEVATION 1:1000 BASE VALUE 30M

SCALE FOR MAGNETICS 200 GAMMA/CM BASE VALUE 57400

LINE 4 000 NORTH

ENV 3195-14



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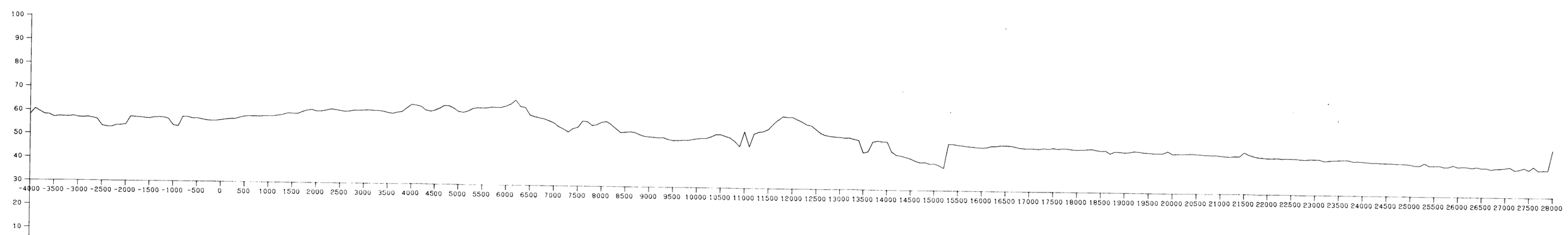

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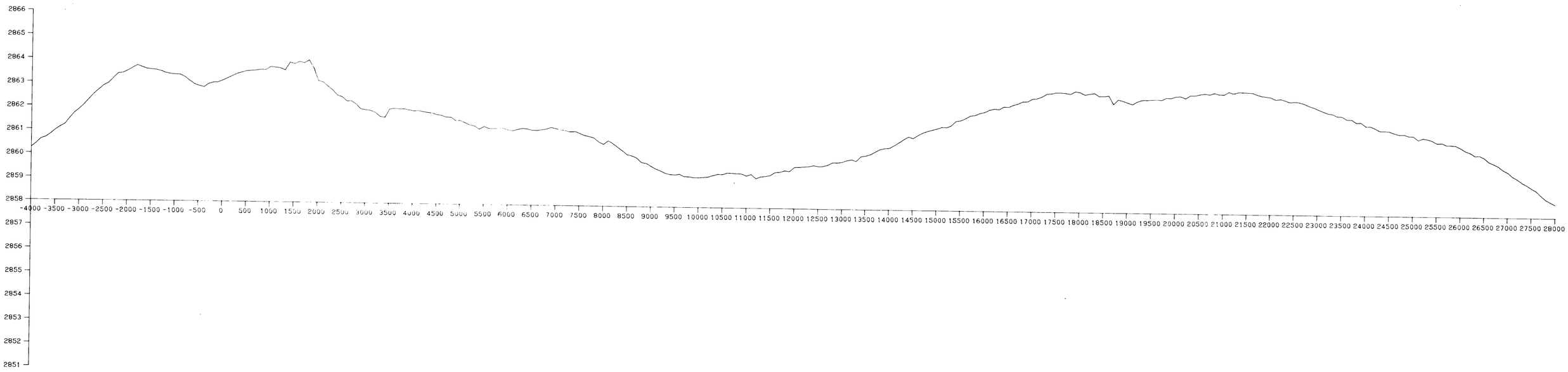


GRAVITY

LINE 6000 NORTH

BOUGUER VALUE 1.9

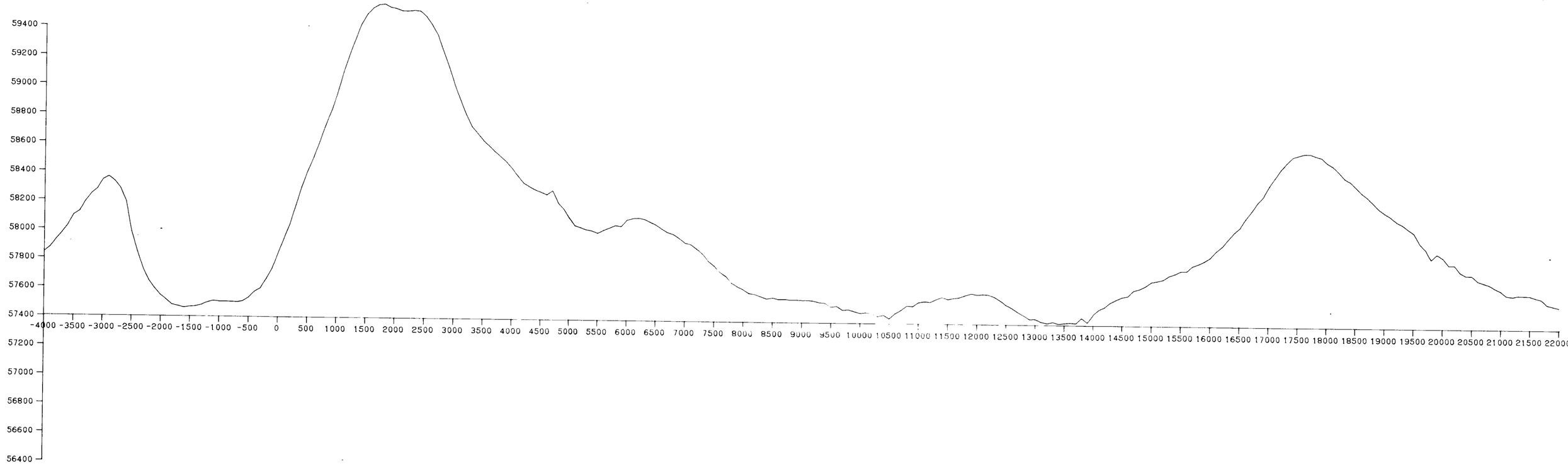
SCALE 1:50000

SCALE FOR GRAVITY VALUES 1 MGAL/CM BASE VALUE 2858

SCALE FOR ELEVATION 1:1000 BASE VALUE 30M

SCALE FOR MAGNETICS 200 GAMMA/CM BASE VALUE 57400

FIG. 7



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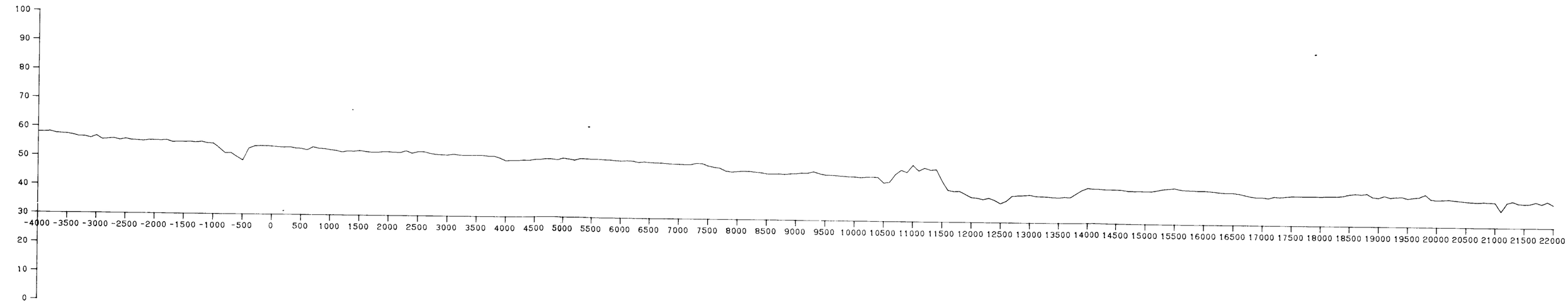

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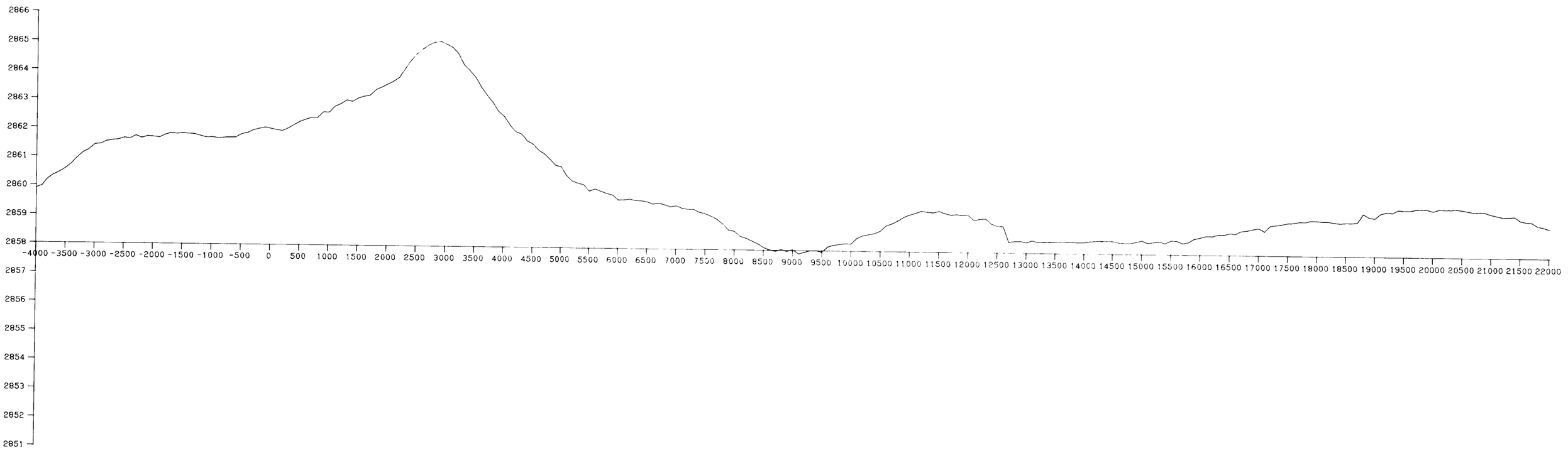


GRAVITY

LINE 8000 NORTH

BOUGUER VALUE 1.9

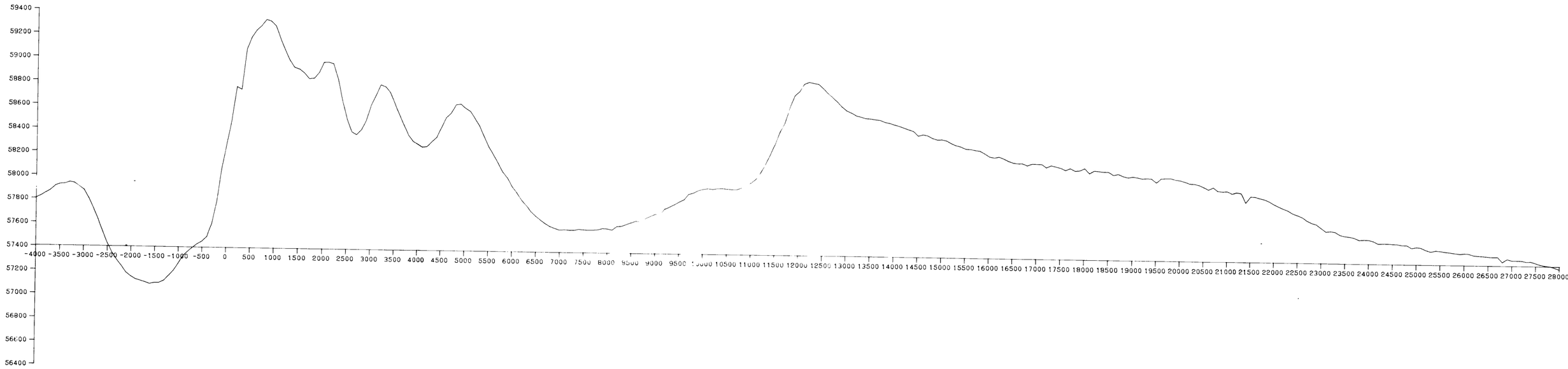
SCALE 1:50000

SCALE FOR GRAVITY VALUES 1 MGAL/CM BASE VALUE 2858

SCALE FOR ELEVATION 1:1000 BASE VALUE 30M

SCALE FOR MAGNETICS 200 GAMMA/CM BASE VALUE 57400

LINE 8000 NORTH
ENV 3195-16



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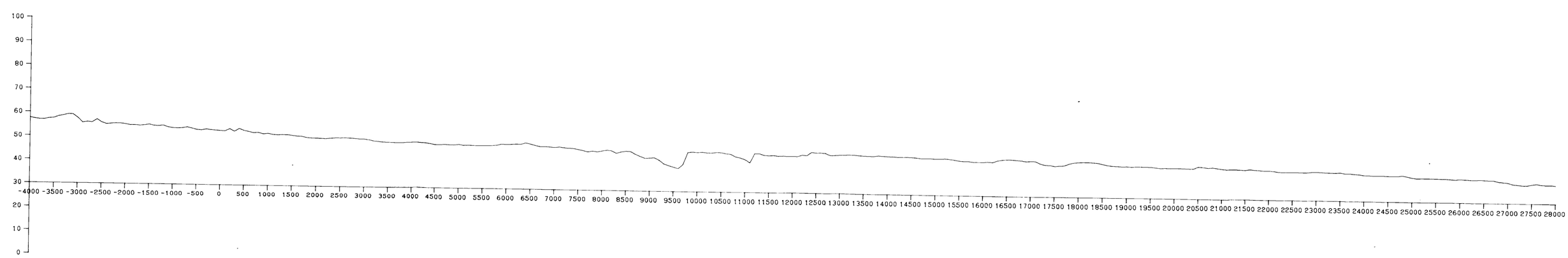

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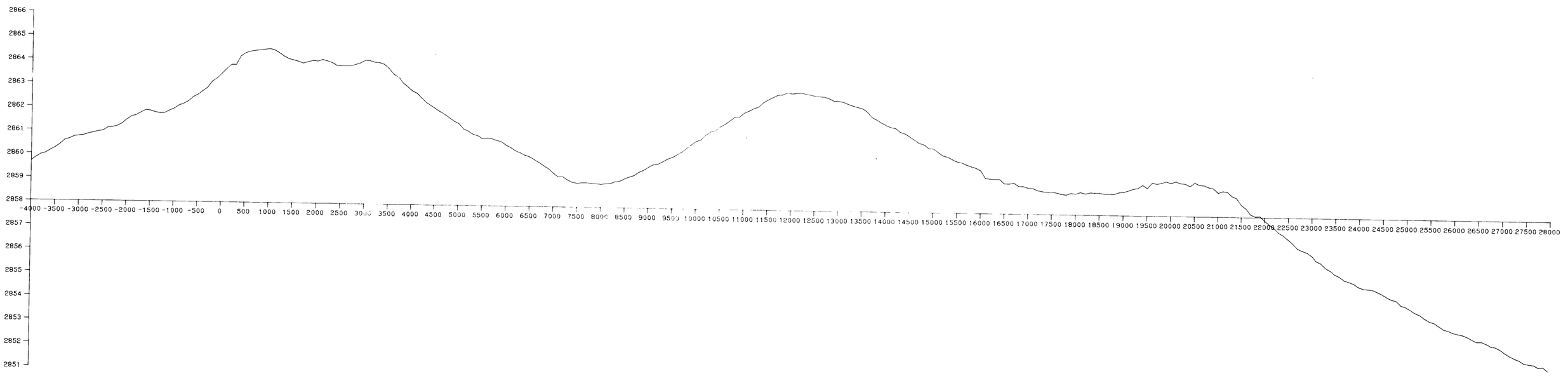

GRAVITY

LINE 10000 NORTH

BOUGUER VALUE 1.9

SCALE 1:50000

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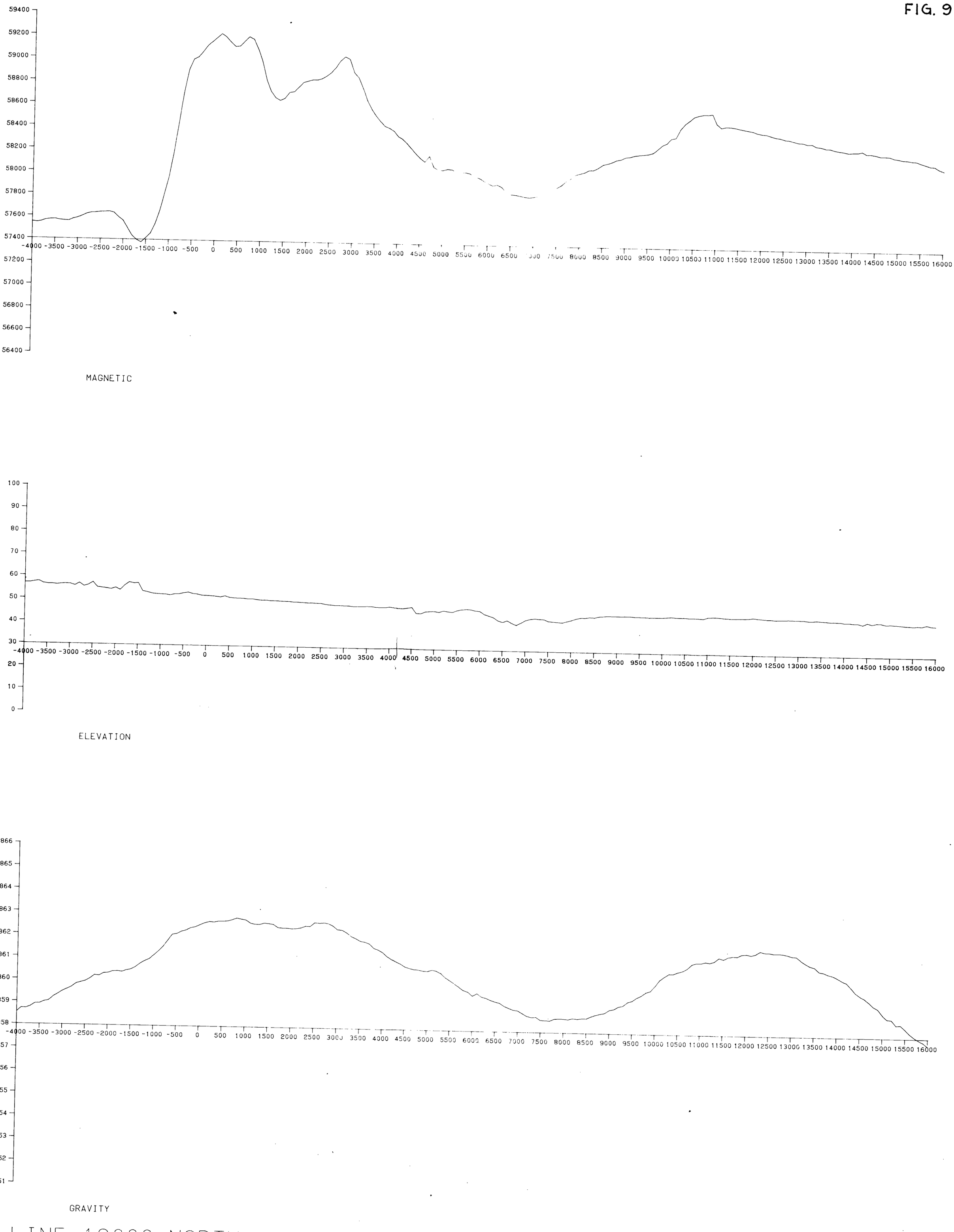
SCALE FOR ELEVATION 1:1000 BASE VALUE 30M

SCALE FOR MAGNETICS 200 GAMMA/CM BASE VALUE 57400

FIG. 9



LINE 12000 NORTH

BOUGUER VALUE 1.9

SCALE 1:50000

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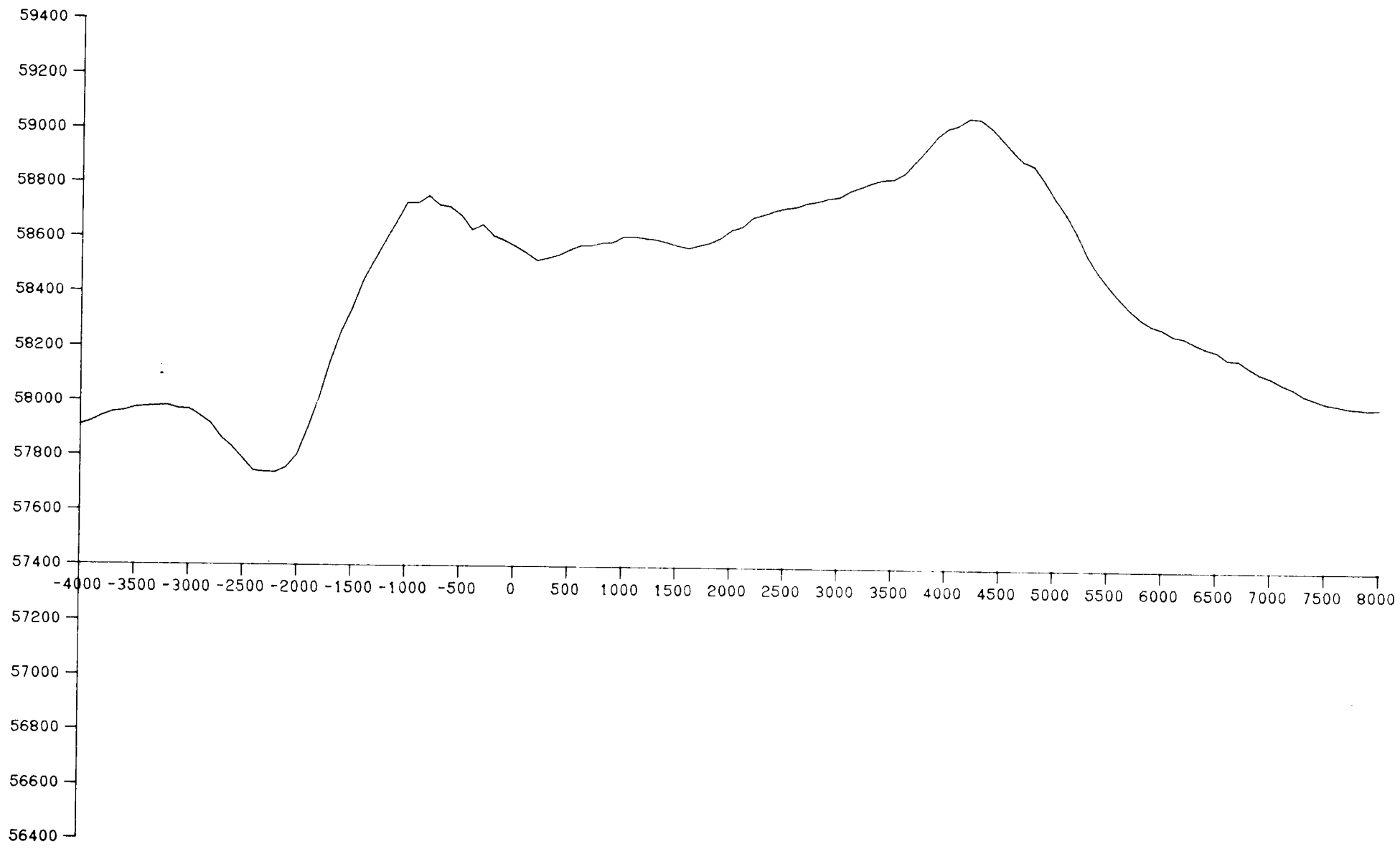
SCALE FOR ELEVATION 1:1000 BASE VALUE 30M

SCALE FOR MAGNETICS 200 GAMMA/CM BASE VALUE 57400

LINE 12000 NORTH
ENV 3195-18



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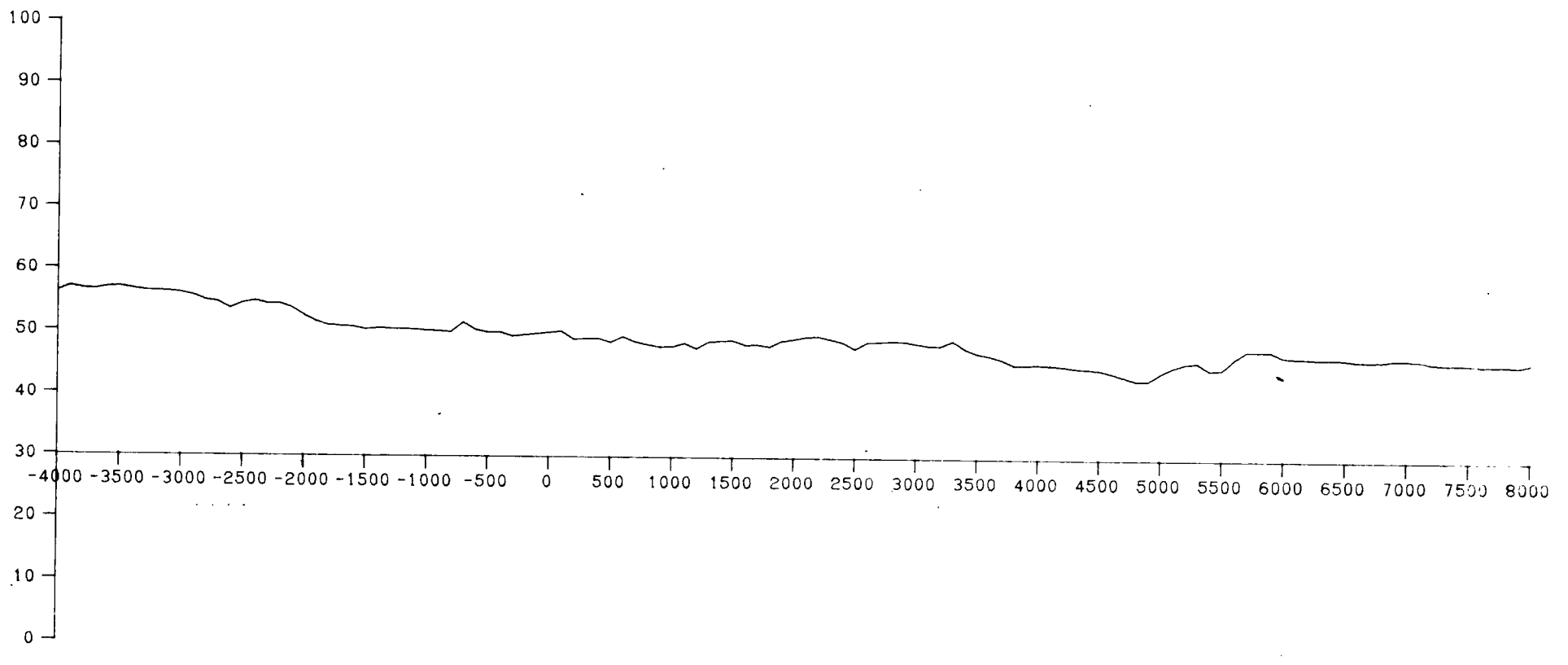


ELEVATION

GRAVITY

LINE 14000 NORTH

BOUGUER VALUE 1.9

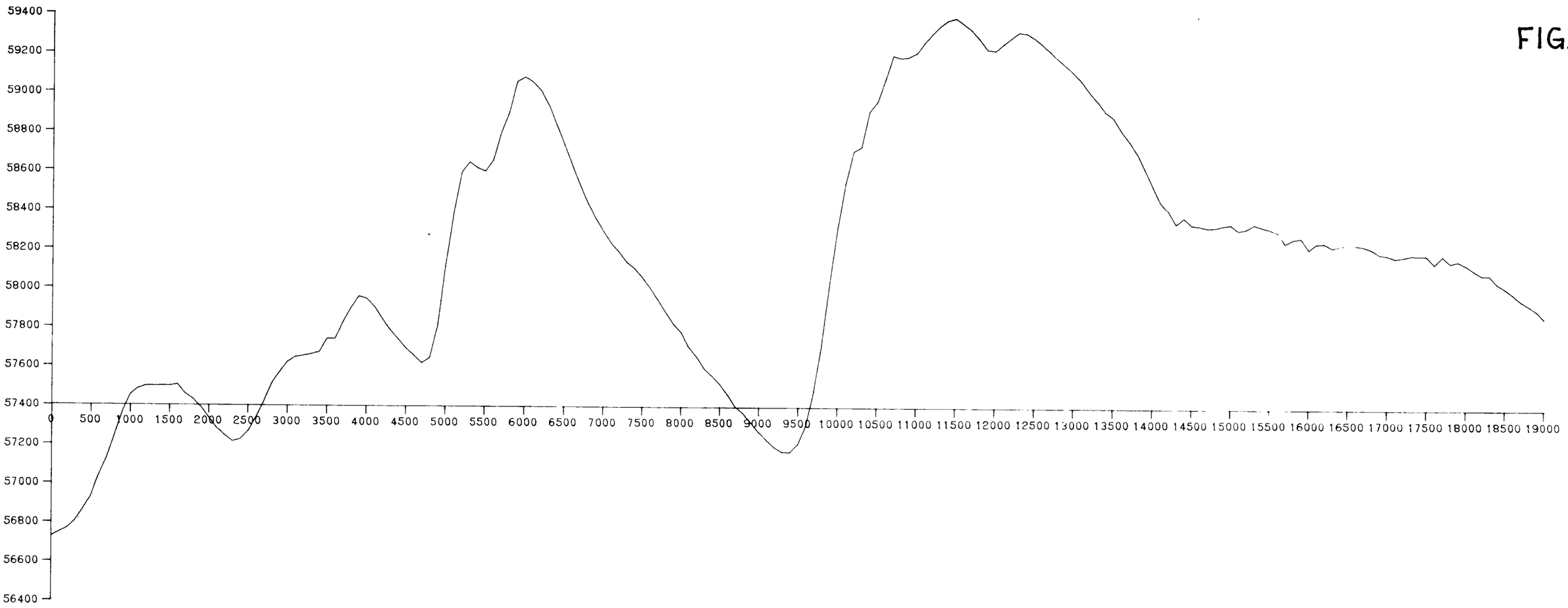
SCALE 1:50000

SCALE FOR GRAVITY VALUES 1 MGAL/CM BASE VALUE 2858

SCALE FOR ELEVATION 1:1000 BASE VALUE 30M

SCALE FOR MAGNETICS 200 GAMMA/CM BASE VALUE 57400

FIG. 11



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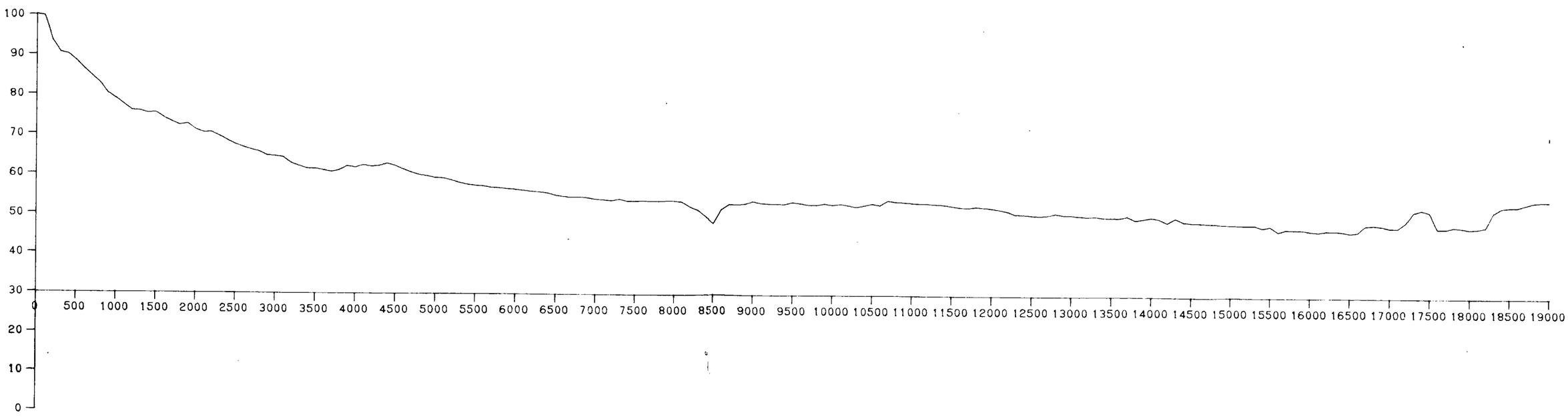
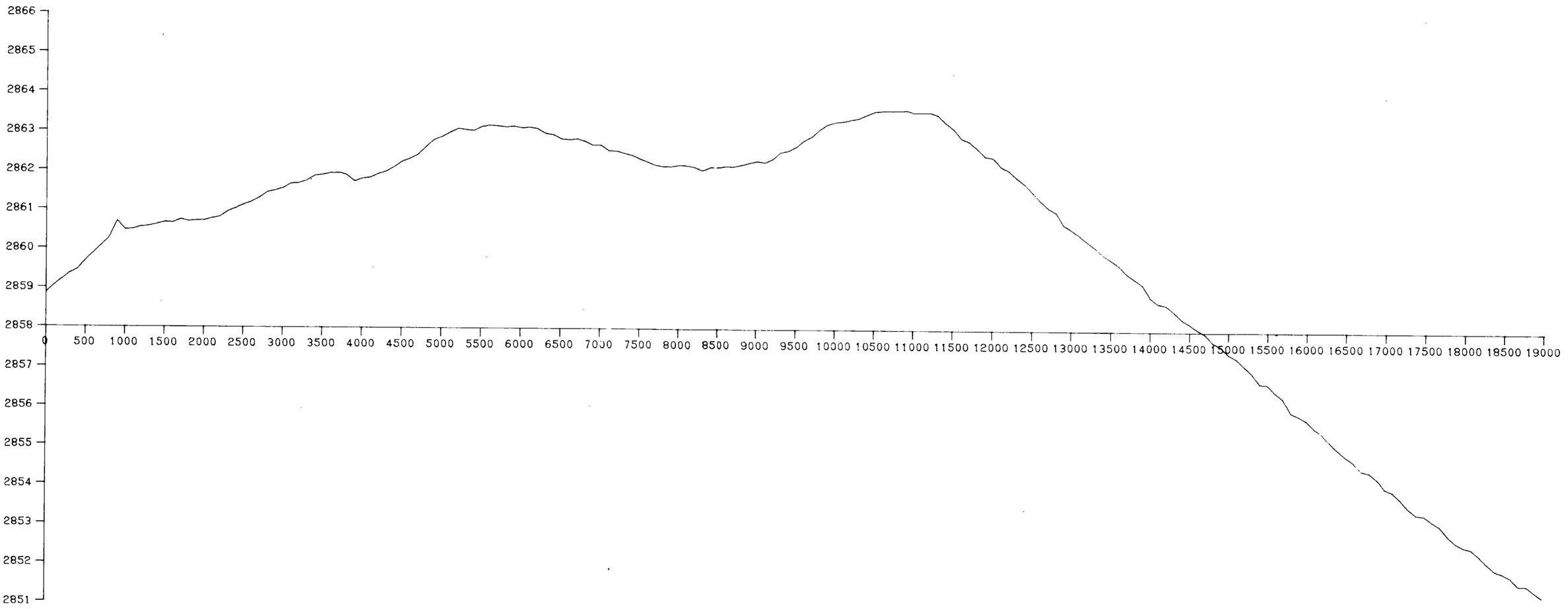


ELEVATION



GRAVITY

LINE 0 EAST

BOUGUER VALUE 1.9

SCALE 1:50000

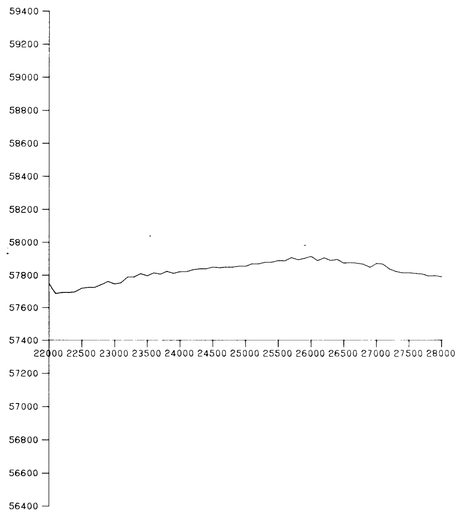
SCALE FOR GRAVITY VALUES 1 MGAL/CM BASE VALUE 2858

SCALE FOR ELEVATION 1:1000 BASE VALUE 30M

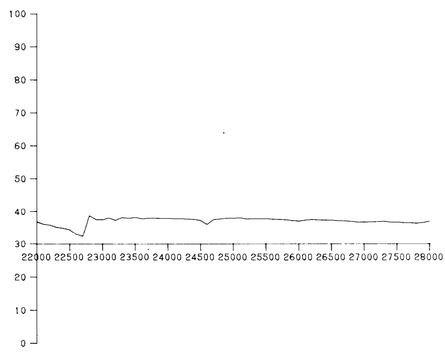
SCALE FOR MAGNETICS 200 GAMMA/CM BASE VALUE 57400

ENV 3195-20

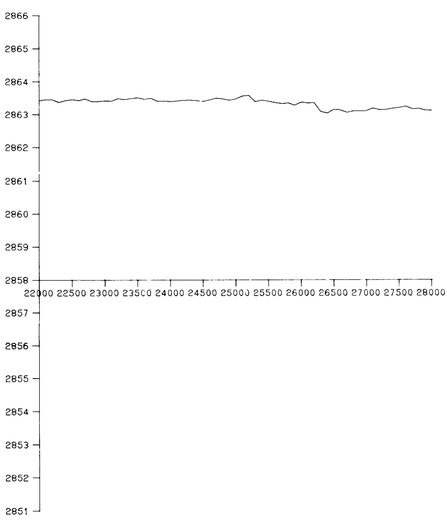
LINE 0 EAST



MAGNETIC



ELEVATION



GRAVITY

LINE 600 SOUTH

BOUGUER VALUE 1.9

SCALE 1:50000

SCALE FOR GRAVITY VALUES 1 MGAL/CM BASE VALUE 2858

SCALE FOR ELEVATION 1:1000 BASE VALUE 30M

SCALE FOR MAGNETICS 200 GAMMA/CM BASE VALUE 57400

GSP

LINE 600 SOUTH

ENV 3195-21

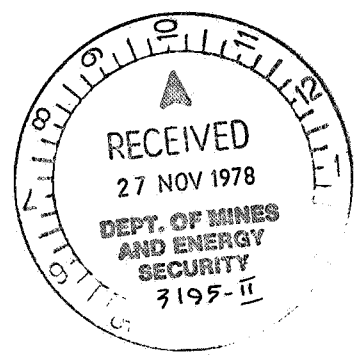
FIG. 12

000193

EXPLORATION LICENCE 369

WEST LAKE EYRE, SOUTH AUSTRALIA

REPORT FOR THE QUARTER ENDED 1st NOVEMBER, 1978



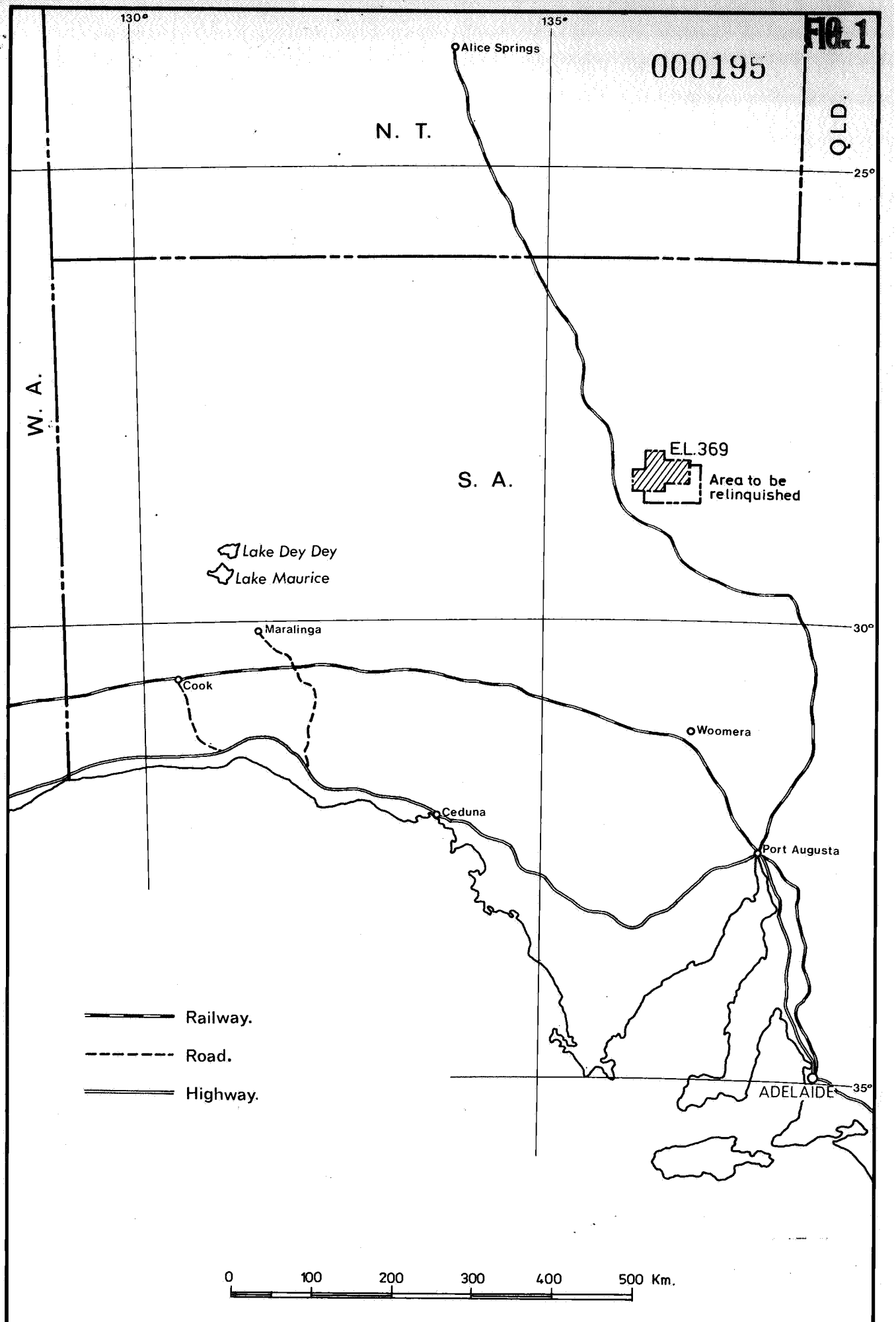
CONTENTS

FIGURES

APPENDICES

FIG. 1

000195



Centre Melbourne	THE BROKEN HILL PROPRIETARY CO. LTD.	Project No.
Date 14·11·78	LOCATION MAP E.L.369. WEST LAKE EYRE AREA, S.A.	Drawing No. A4·1913

EXPLORATION LICENCE 369

WEST LAKE EYRE, SOUTH AUSTRALIA

REPORT FOR THE QUARTER ENDED 1st NOVEMBER, 1978

1. General Statement

Exploration Licence 369 of 3,947 square kilometres, was granted to Dampier Mining Company Limited on 1st November, 1977, for twelve months. On 1st November, 1978, Exploration Licence 369 was renewed for a further twelve months with a reduction in area to 2300 square kilometres.

2. Field Investigations

In view of the unsuccessful attempt to drill through the artesian aquifer in hole WLE1, a re-assessment of objectives and all data was undertaken during the quarter.

Results of previously collected soil samples are reported below.

2.1 Geochemistry

It was thought that if a major sulphide body exists beneath the aquifer some leakage of mercury may be expected at the surface.

167 soil samples were collected and were analysed for mercury by Lowder Geoscience (Report No. 78/54 attached). The location of the samples is shown on the attached Figure 2. Depth of the samples was 15 cm and a spacing of 50 m along traverse lines was used. The mercury content of soils range from 7 to 35 ppb with the average around 20 ppb. Dr. Lowder interprets this as falling within the usual range of background values in Australia (i.e. 5-40 ppb), therefore this survey detected no obvious anomalies.

3. Expenditure

Expenditure debited to Exploration Licence 369 during August, September, and October, 1978 was:-

Wages and Salaries	$2,039
Messing and Accommodation	744
Fares and Mobilisation	67
Transport	833
Radio Communications	20
Sample Analysis	719
Occupancy/Location Expenses	4
Tenement Fees, Licences etc.	1,154
	$5,630

Revised total expenditure to 31st October, 1978 is $60,466.

This report is submitted to the Mines Department as required by Condition 4 of Exploration Licence 369.

000198

Lowder Geoscience

Ore Petrology and Exploration Research

MERCURY GEOCHEMISTRY

SOUTH AUSTRALIA

APPENDIX I

EXPLORATION LICENCE 369

WEST LAKE EYRE, SOUTH AUSTRALIA

REPORT FOR THE QUARTER ENDED 1ST NOVEMBER, 1978.

Report No.: 78/54 17th August, 1978

For: The B. H. P. Company Limited

G. G. LOWDER
Consulting Geochemist

G. G. Lowder Ph.D., B.Sc., 15 Woodlands Ave., Pymble N.S.W. 2073. (02) 449 2787

SAMPLE NO.		Hg (ppb)
LE	1	28
	2	9
	3	8
	4	14
	5	23
	6	13
	7	24
	8	*
	9	20
	10	*
	11	12
	12	22
	13	16,16
	14	16
	15	19
	16	18
	17	18
	18	22
	19	16
	20	15
	21	*
	22	13
	23	10
	24	8
	25	17
	26	15
	27	18
	28	12
	29	13
	30	14
	31	12
	32	12
	33	14
	34	21
	35	18
	36	19
	37	21
	38	17
	39	19
	40	22,24
	41	20
	42	29,29
	43	28
	44	23
	45	27,18
	46	14
	47	27,32
	48	19
	49	14
	50	7,7

SAMPLE NO.		Hg (ppb)
LE	51	25,24
	52	*
	53	*
	54	22,28
	55	25
	56	24
	57	20
	64	17
	65	27
	66	14
	67	16
	68	15
	69	19,13
	70	13
	71	15
	72	23
	73	11
	74	19
	75	15
	76	22
	77	12
	78	15
	79	20
	80	19
	81	21
	82	15
	83	11
	84	16
	85	16,13
	86	12
	87	17
	88	14
	89	16
	90	7
	91	12
	92	10
	93	6
	94	11
	95	15
	96	13
	97	12
	98	20
	99	14
	100	20

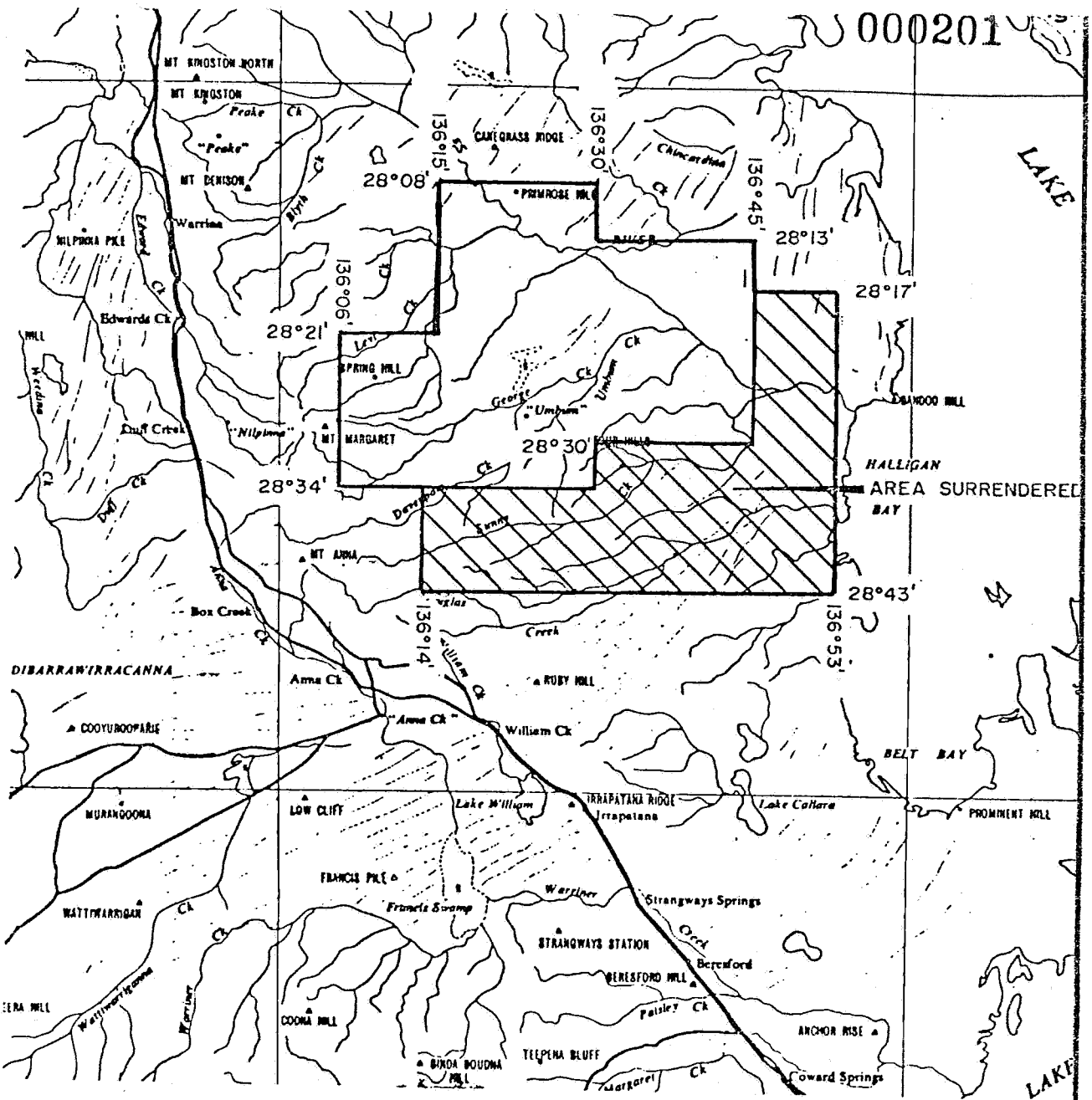
SAMPLE NO.	Hg (ppb)
LE 101	11
102	7
103	12
104	7
105	12
106	12
107	10
108	12
109	10,14
110	12
111	10
112	14
113	14
114	9,9
115	11
116	13
117	13
118	17
119	20
120	21
121	20
122	24
123	17
124	17
125	20
126	19
127	19
128	19
129	26
130	28
131	34,32
132	27
133	18
134	18
135	31
136	24
137	28
138	23
139	27
140	24
141	27
142	25
143	23
144	17,17
145	23
146	21
147	24
148	18
149	15
150	14

SAMPLE NO.	Hg (ppb)
LE 151	17
152	23
153	27
154	32,35
155	25
156	8
157	18
158	16
159	16
160	14
161	9
162	11
163	11
164	8
165	8
166	8
167	9

N.B.: * these samples not received

Paired numbers are repeat analyses of same sample.

000201



SCALE 1:1 000 000

10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

Kilometres

APPLICANT: DAMPIER MINING COMPANY LIMITED

D.M.: 318/77

AREA: ~~3947~~ 2300 Square kilometres

1:250 000 PLANS: WARRINA — LAKE EYRE

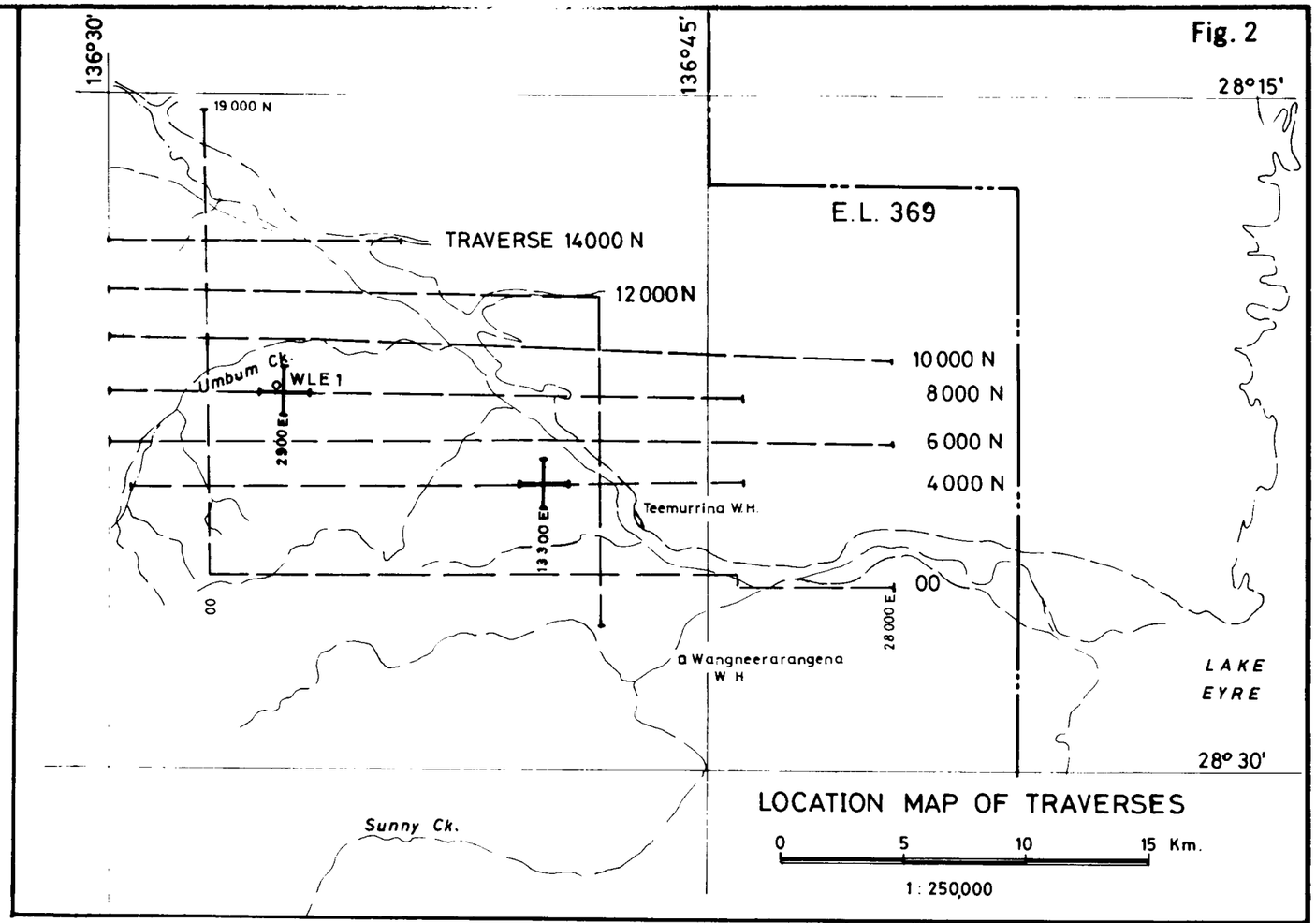
LOCALITY: WEST LAKE EYRE AREA — APPROX. 140 km. S.E. OF OODNADATTA

EXPIRY DATE: 31·10·78

E.L. No. 369

Centre Adelaide	THE BROKEN HILL PROPRIETARY CO. LTD.	Project No. 6-B180-3
Date 3-11-78	E.L. 369 WEST LAKE EYRE LOCATION	Drawing No. A4/ 12

Fig. 2



LOCATION MAP OF TRAVERSES

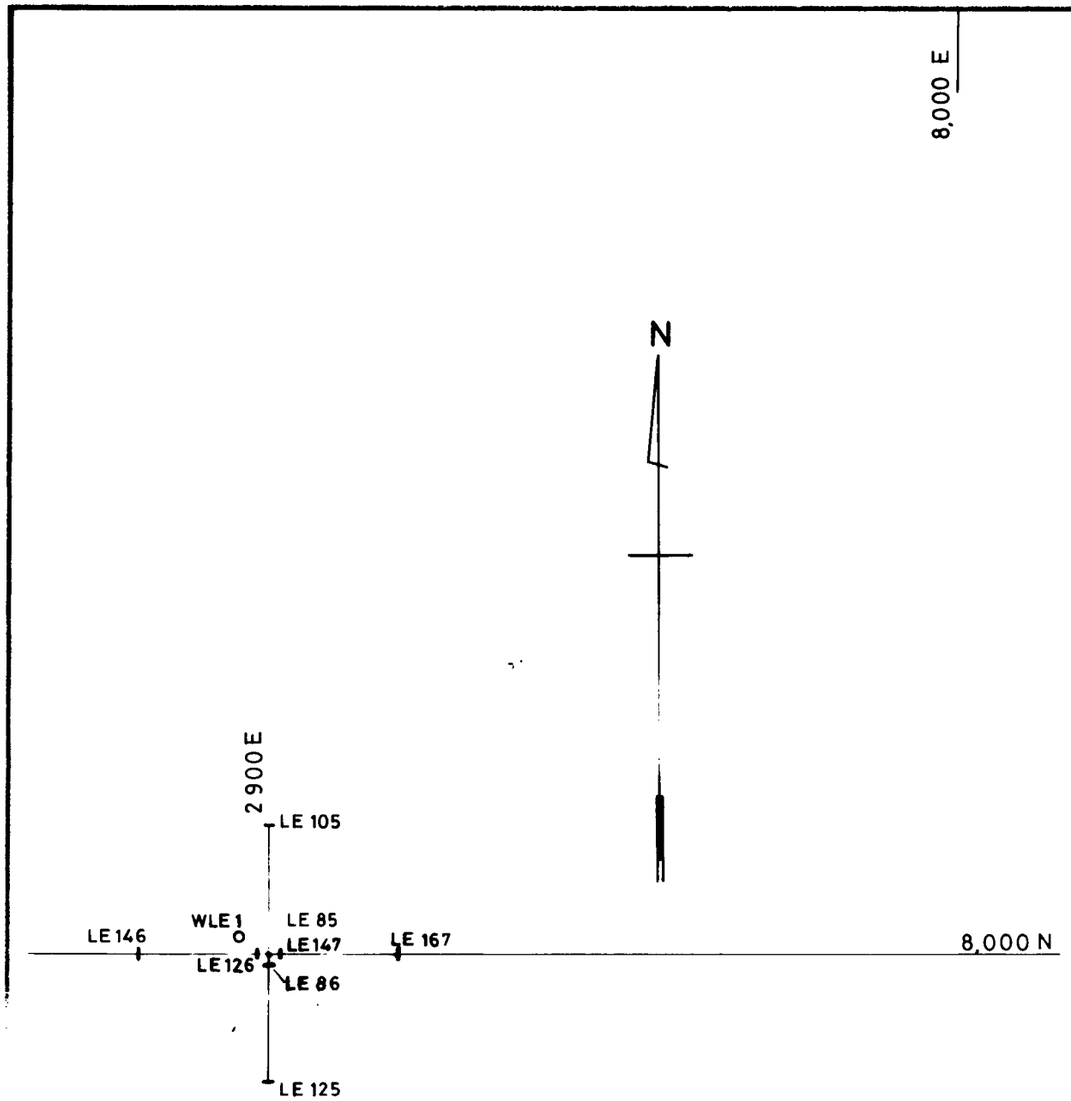


Fig No 2
To accompany Quarterly Report
Dated 1 Nov. 1978

NOTE: Samples taken at 15cm. depth, at 50 metre intervals, sealed in plastic bags. Analysed for mercury by Lowder Geoscience, report 78/54. Range of values 7 - 35 p.p.b. Hg.

Scale 1:50,000

0 1 2 3 4 5 Kilometres

THE BROKEN HILL PROPRIETARY CO. LTD.
EXPLORATION DEPARTMENT

E.L. 369 WEST LAKE EYRE S.A.
LOCATION OF SOIL SAMPLES
LE1-LE167 FOR MERCURY ANALYSIS

Revisions:		
Prepared by: M.C.R.	Centre: Adelaide	
Date: 31-10-78	Project No: 6-B180-4	Drawing No: A3- 10
Drawn: R.F.F.		

ENV 3195-22

000202

EXPLORATION LICENCE 369

WEST LAKE EYRE, SOUTH AUSTRALIA

REPORT FOR THE QUARTER ENDED 1ST FEBRUARY, 1979

1. General Statement

Exploration Licence 369 of 3,947 square kilometres, was granted to Dampier Mining Company Limited on 1st November, 1977 for twelve months. On 1st November, 1978, Exploration Licence 369 was renewed for a further twelve months with a reduction in area to 2,300 square kilometres.

2. Field Investigations

No field work was carried out during the quarter.

A programme of about 200 kilometres of ground gravity and magnetics will be carried out by Solo Geophysics. Work is scheduled to begin early in March.

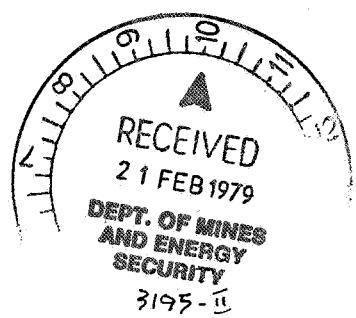
3. Expenditure

Expenditure debited to EL 369 during November and December 1978, and January, 1979 was :

Wages and Salaries	$714
Drilling	98
Surveying/Aerial Photographs	67
Occupancy/Location Expenses	90
	$969

Total expenditure to 31st January, 1979 is $61,435.

This report is submitted to the Mines Department as required by Condition 4 of Exploration Licence 369.



000203

EXPLORATION LICENCE 369

WEST LAKE EYRE, SOUTH AUSTRALIA

REPORT FOR THE QUARTER ENDED 1st MAY, 1979

1. GENERAL STATEMENT

Exploration Licence 369 of 3947 square kilometres, was granted to Dampier Mining Company Limited on 1st November, 1977 for twelve months. On 1st November, 1978, Exploration Licence 369 was renewed for a further twelve months with a reduction in area to 2,300 square kilometres.

2. FIELD INVESTIGATIONS

A combined gravity and ground magnetic survey has begun involving approximately 200 kilometres of traverses with readings every 100 metres. All traverses are being optically levelled, and are being permanently marked with steel marker pegs. The survey has been slowed by recent rain and is about half completed. No results are yet available from the contractors, Solo Geophysics.

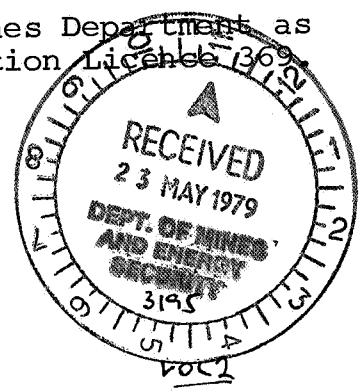
3. EXPENDITURE

Expenditure debited to E.L. 369 during February, March and April, 1979 was:

Wages and Salaries	$798
Other Items	$ 8
	$806

Total expenditure to 30th April, 1979 is $62,241.

This report is submitted to the Mines Department as required by Condition 4 of Exploration Licence 369.



000204

EXPLORATION LICENCE 369

WEST LAKE EYRE, SOUTH AUSTRALIA

REPORT FOR THE QUARTER ENDED

30TH JULY, 1979

CONTENTS

FIGURES

EXPLORATION LICENCE 369

WEST LAKE EYRE, SOUTH AUSTRALIA

REPORT FOR THE QUARTER ENDED 30TH JULY, 1979

1. GENERAL

Exploration Licence 369 was granted to the Dampier Mining Company Limited on 1st November, 1977 for 12 months and renewed on 1st November, 1978 for a further 12 months.

2. FIELD INVESTIGATIONS

2.1 Geophysics

A combined ground magnetic and gravity survey of about 200 line kilometres was completed during the quarter by Solo Geophysics. The data was reduced and is presented on the attached plans of the Brinkley Springs and Lagoon Hill Grids.

2.2 Drilling

It is proposed to drill the combined gravity magnetic anomaly on the Brinkley Springs grid at 16000N 12200E. Arrangements for drill access construction were made and drilling tenders called.

Due to the current unsettled weather, track construction will be delayed until a drill becomes available.

.. .. 2/

000207

DEPARTMENT OF MINES AND ENERGY

SOUTH AUSTRALIA

191 Greenhill Road, Parkside

TELEPHONE: (08)272-5711
TELEGRAMS: Domex
TELEX: AA88692
PLEASE ADDRESS ALL CORRESPONDENCE TO:
The Director-General
PO Box 151
Eastwood, S.A., 5063
In reply, please quote

.....

THE MANAGER,
DAMPIER MINING CO. LTD.,
B.H.P. HOUSE,
140 WILLIAM STREET,
MELBOURNE. VIC. 3000.

30TH AUGUST, 1978.

Dear Sir,

I forward herewith the results of testing water from your property together with circulars indicating the purpose for which the water is suitable.

Analysis No.	Hundred	Section	Salinity (Milligrams per litre) (mg/l)	Remarks
				E.L. 369.
				WL. El.
W3671/78	-	-	4850	Depth sample taken 279M.

The analytical work has been done by an approximate method which gives the total salts within small limits of error.

Yours faithfully,

B.P. Webb,
DIRECTOR-GENERAL

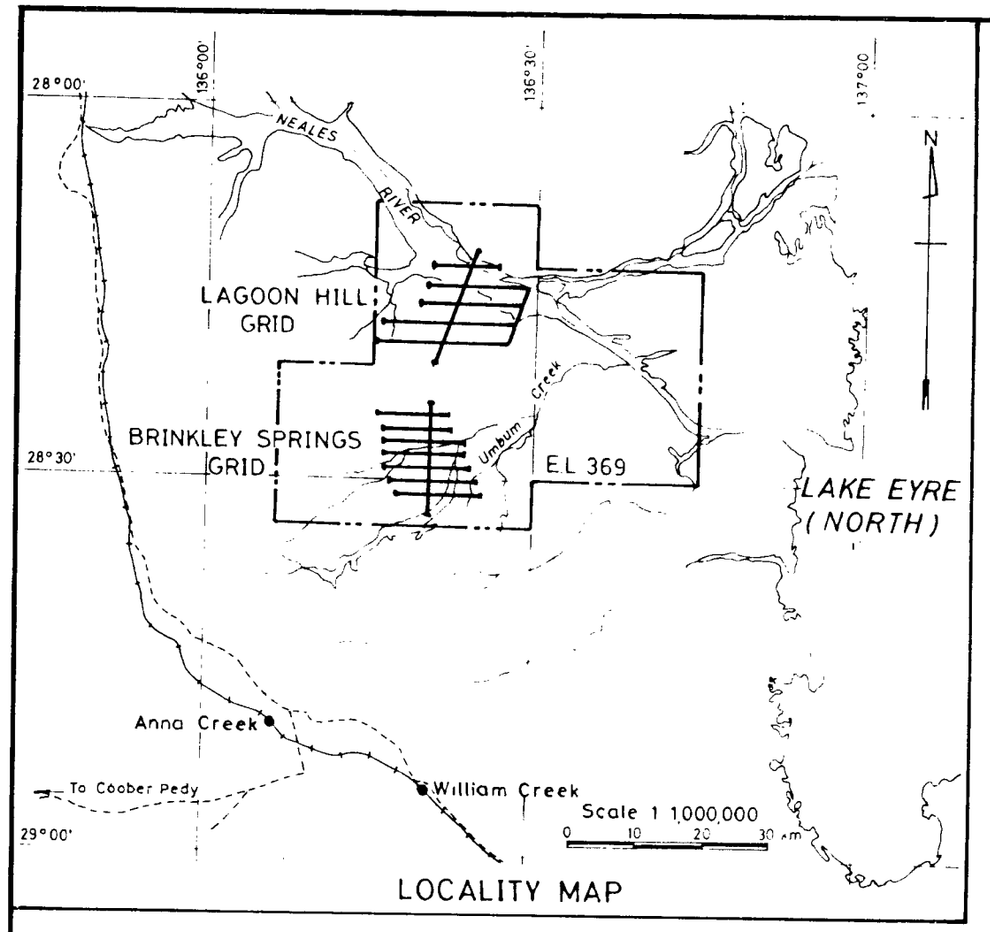
3. EXPENDITURE

Expenditure debited to E.L. 369 during May, June and July, 1979 was :

Wages and Salaries	$ 3,248
Messing and Accommodation	456
Fares and Mobilisation	404
Transport	363
Surveying/Aerial Photographs	13
Sample Analysis	77
Geophysics	22,150
	$26,711

Total expenditure to 31st July, 1979 is $88,952

This report is submitted to the Mines Department as required by Condition 4 of Exploration Licence 369.



LOCALITY MAP

LEGEND

Contour interval 0·5 milligals

Magnetic profile scale 1cm = 1,000 nT

Magnetic base level 56,000 nT

Gravity contours

Ground magnetic profiles

Scale 1:50,000

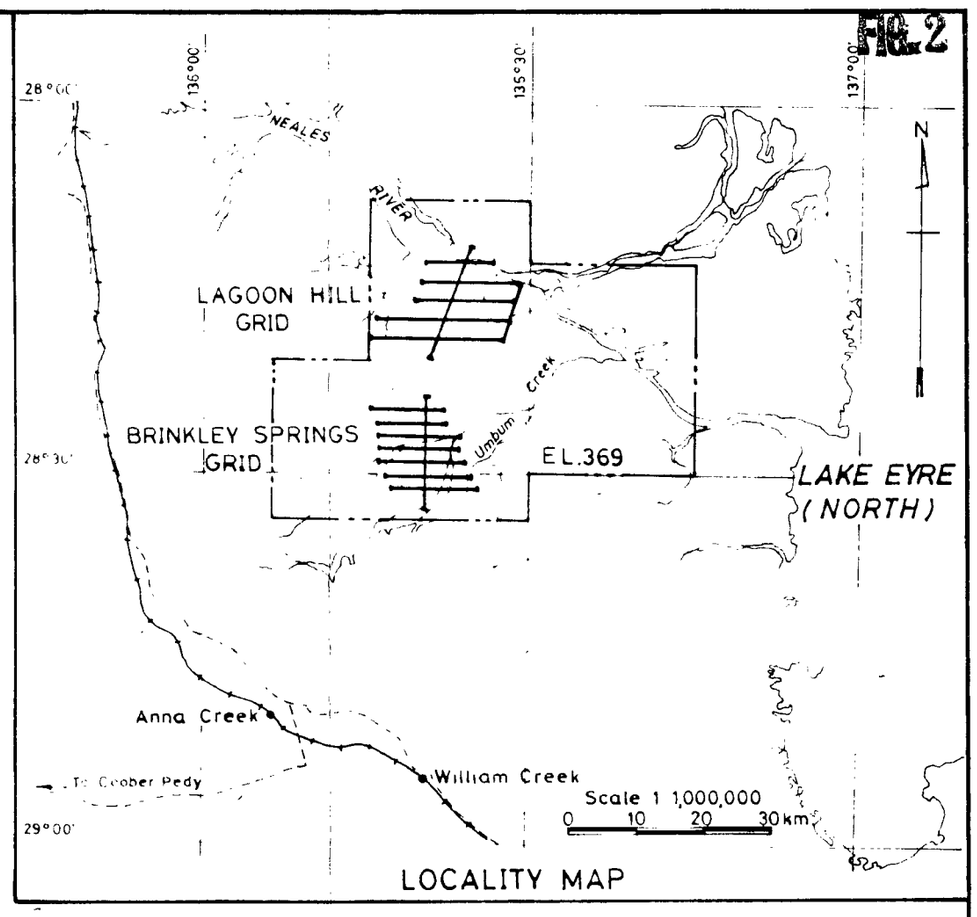
0 1 2 3 4 5 KILOMETRES

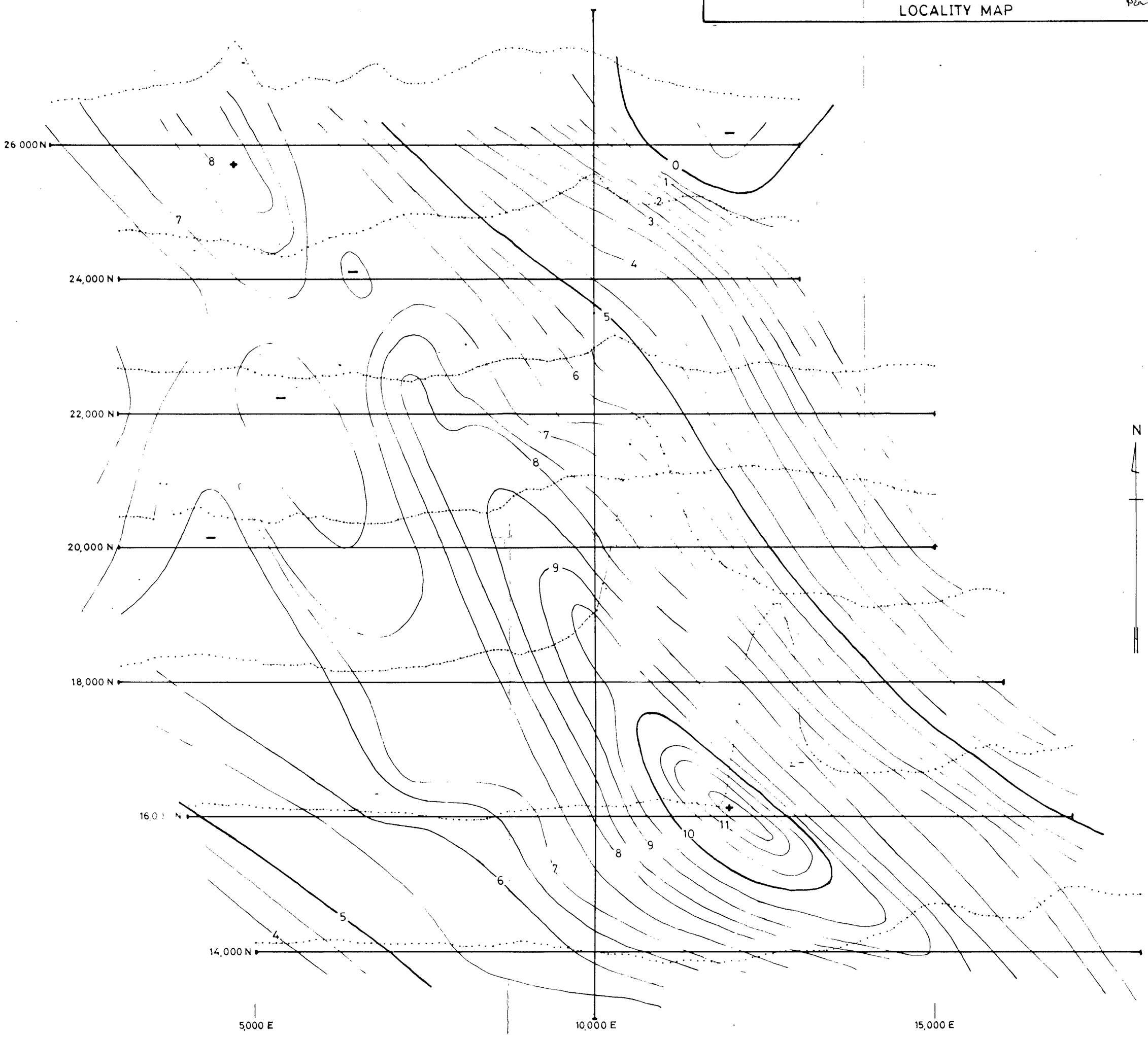
FIG. 1

ENV 31523

Revisions:	
Checked:	THE BROKEN HILL PROPRIETARY CO. LTD. EXPLORATION DEPARTMENT
Traced: R.F.F.	E.L. 369 LAKE EYRE WEST, S.A.
Drawn: D.P.	LAGOON HILL GRID
Date: 19-6-79	GRAVITY CONTOURS &
Centre: Adelaide	GROUND MAGNETIC PROFILES
Project No: 6-B180-6	
Drawing No: A2-7	

FIG. 2





LEGEND

Contour interval 0 5 milligals

Magnetic profile scale 1 cm = 1,000 nT.

Magnetic base level 56,000 nT.

5 Gravity contours

Ground magnetic profiles

Scale 1:50,000

0 1 2 3 4 5 KILOMETRES

ENV 3195-24

	THE BROKEN HILL PROPRIETARY CO. LTD. EXPLORATION DEPARTMENT
	E.L. 369 LAKE EYRE WEST, S.A. BRINKLEY SPRINGS GRID GRAVITY CONTOURS & GROUND MAGNETIC PROFILES
	Drawn: D. P. | Date: 15-6-79 | Centre: Adelaide
Revisions:	Traced: R.F.F. | Project No: 6-B180-5 | Drawing No: A2-6
	Checked:

EXPLORATION LICENCE 369

WEST LAKE EYRE, SOUTH AUSTRALIA

REPORT FOR THE QUARTER ENDED 1ST NOVEMBER, 1979

1. GENERAL

Exploration Licence 369 was granted to the Dampier Mining Company Limited on 1st November, 1977 for 12 months and renewed on 1st Novemner, 1978 for a further twelve months. A further extension has been requested to allow for completion of the current drilling programme.

2. FIELD INVESTIGATIONS

2.1 Drilling

Drill hole WLE 2 situated on the Brinkley Springs grid at 16000N 12200E was commenced during the quarter. This hole is designed to test a combined gravity magnetic anomaly in the basement below the Artesian Basin sequence.

At the time of writing the hole is at 18 metres depth. No results are available.

3. EXPENDITURE

Expenditure debited to EL 369 during August, September and October, 1979 was :

Wages and Salaries	$ 997
Fares and Mobilisation	65
Transport	467
Radio Communications	2
Geophysics	3,700
Tenement Fees, Licences etc	25
Occupancy/Location Expenses	51
Sample Analysis	46
	$5,353

Total expenditure to 31st October, 1979 is $94,305.

This report is submitted to the Department of Mines and Energy as required by Condition 4 of Exploration Licence 369.