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EL 583

WEST LAKE EYRE

PROGRESS AND FINAL REPORTS TO LICENCE SURRENDER FOR THE PERIOD 25/1/80 TO 13/6/80

Submitted by
Dampier Mining Co. Ltd
1980

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PRIMARY INDUSTRIES AND RESOURCES SA

CONTENTS ENVELOPE 3754

Transparencies
Cyliner 3754/1

TENEMENT: E.L. 583

TENEMENT HOLDER: Dampier Mining Company Limited.

REPORT:
1977

West Lake Eyre Final Report. Appendix 1.,
vol. 1. E.L. 369 & 583.
NO PLANS (pgs.3-190)

REPORT:
1978

West Lake Eyre Final Report. Appendix 2.
E.L. 369. (pgs.191-213)

PLANS:
Fig. A. Locality Map (3754-1)

REPORT:
1979

West Lake Eyre Final Report. Appendix 1.,
vol. 2. E.L. 369 & 583. (pgs.214-343)

PLANS:

Line No.	10000E Magnetometer Survey	(3754-2)
"	14000N "	(3754-3)
"	16000N "	(3754-4)
"	18000N "	(3754-5)
"	20000N "	(3754-6)
"	22000N "	(3754-7)
"	24000N "	(3754-8)
"	26000N "	(3754-9)
"	10000E Gravity Survey with Levelling	(3754-10)
"	14000N "	(3754-11)
"	16000N "	(3754-12)
"	18000N "	(3754-13)
"	20000N "	(3754-14)
"	22000N "	(3754-15)
"	24000N "	(3754-16)
"	26000N "	(3754-17)

002A

REPORT:
1979

West Lake Eyre Final Report. Appendix 1., vol. 3. E.L. 369 & 583. (pgs.344-500)

PLANS:

Baseline 1	Magnetometer Survey	(3754-18)
" 2	"	(3754-19)
Line 3000 N	"	(3754-20)
" 6000 N	"	(3754-21)
" 9000 N	"	(3754-22)
" 12000 N	"	(3754-23)
" 15000 N	"	(3754-24)
Baseline 1	Gravity Survey with Levelling	(3754-25)
" 2	"	(3754-26)
Line 3000 N	"	(3754-27)
" 6000 N	"	(3754-28)
" 9000 N	"	(3754-29)
" 12000 N	"	(3754-30)
" 15000 N	"	(3754-31)

REPORT:
1980

West Lake Eyre - Quarter ended 25th April, 1980. E.L. 583. (pgs.501-520)

PLANS:

G-1	West Lake Eyre Geological and Geophysical Summary Log WLE 1A.	(3754-32)
A1-53	West Lake Eyre Geological and Geophysical Summary Log WLE 2.	(3754-33)

REPORT:
1980

West Lake Eyre Final Report. E.L. 369 & 583. (pgs. 521-536)

PLANS:

A1-1847	Magnetic Contours and Gravity Profiles - Umbum Grid Ground Survey.	(3754-34)
A2-7	Lagoon Hill Grid. Gravity Contours and Ground Magnetic Profiles.	(3754-35)

A2-6 Brinkley Springs Grid. Gravity contours and Ground Magnetic Profiles. (3754-36)

G-1 West Lake eyre Geological and Geophysical Summary Log WLE 1A. (3754-37)

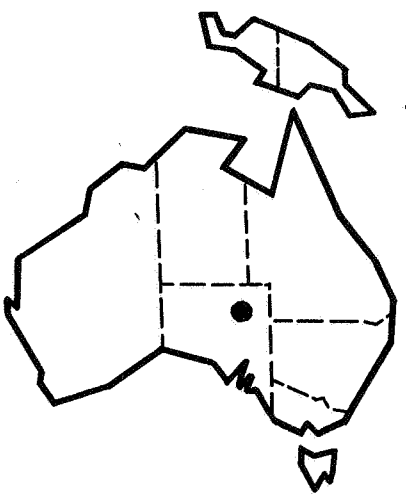
A1-53 West Lake Eyre Geological and Geophysical Summary Log WLE 2. (3754-38)

C.R. _____

003

Exploration Department

EXPLORATION LICENCE 369
AND
EXPLORATION LICENCE 583
WEST LAKE EYRE, SOUTH AUSTRALIA
FINAL REPORT
APPENDIX 1 VOL. 1



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004

EXPLORATION LICENCES 369 and 583

WEST LAKE EYRE

FINAL REPORT

APPENDIX 1 - VOL. 1.

Geophysical data by Solo Geophysics
in six volumes

(i) E.L. 369 Neales River Ground Magnetics (CR2212)

(ii) E.L. 369 Neales River Gravity (CR2212)

(iii) E.L. 369 Brinkley Springs Grid Magnetics (CR2451)

(iv) E.L. 369 Brinkely Springs Grid Gravity (CR2452)

(v) E.L. 369 Lagoon Hill Grid Gravity (CR2453)

(vi) E.L. 369 Lagoon Hill Grid Magnetics (CR2454)

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

AREA: E.L. 369 LAKE EYRE WEST

GRID: NEALES RIVER (UMBUM)

SURVEY: GROUND MAGNETICS

DATE: NOVEMBER and DECEMBER 1977

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

SEE PART II FOR GRAVITY INFORMATION

C O N T E N T S

1. CONTENTS
2. REPORT
3. APPENDIX
4. GRID MAP (1:200000)
5. GRID MAP MAGNETICS CONTOUR
6. CULTURAL GRID MAP (1:250000)
7. GRID MAP (approx. 1:20000)
8. MAGNETICS FIELD SHEETS (as per below)
9. MAGNETIC LINE PROFILES (as per below)

007

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

008

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

3/...

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.

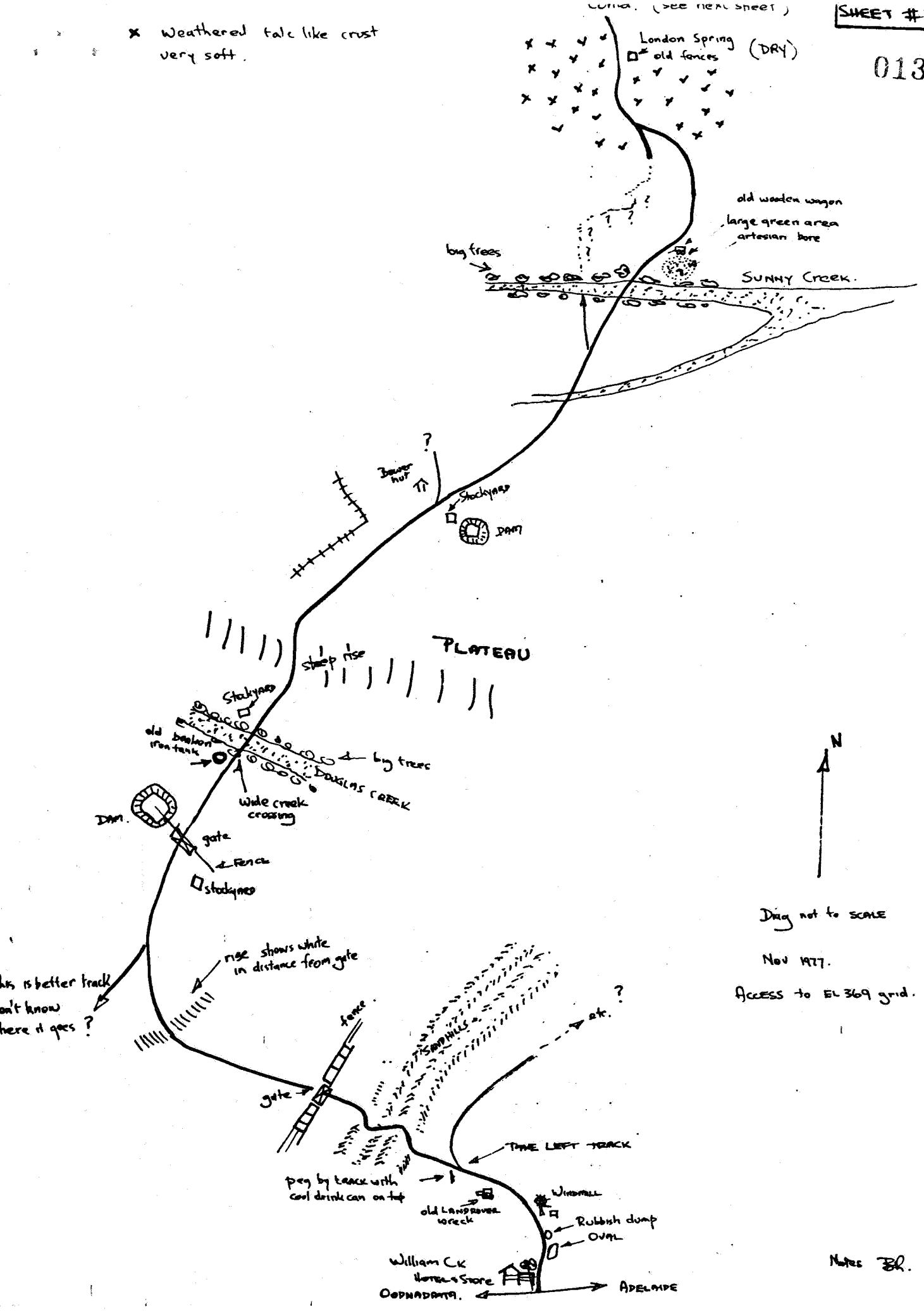
A C C E S S T O T H E G R I D F R O M W I L L I A M C R E E K:

See handwritten notes.

SHEET #1

013

× Weathered talc like crust very soft.



Diag not to scale

Nov 1977.

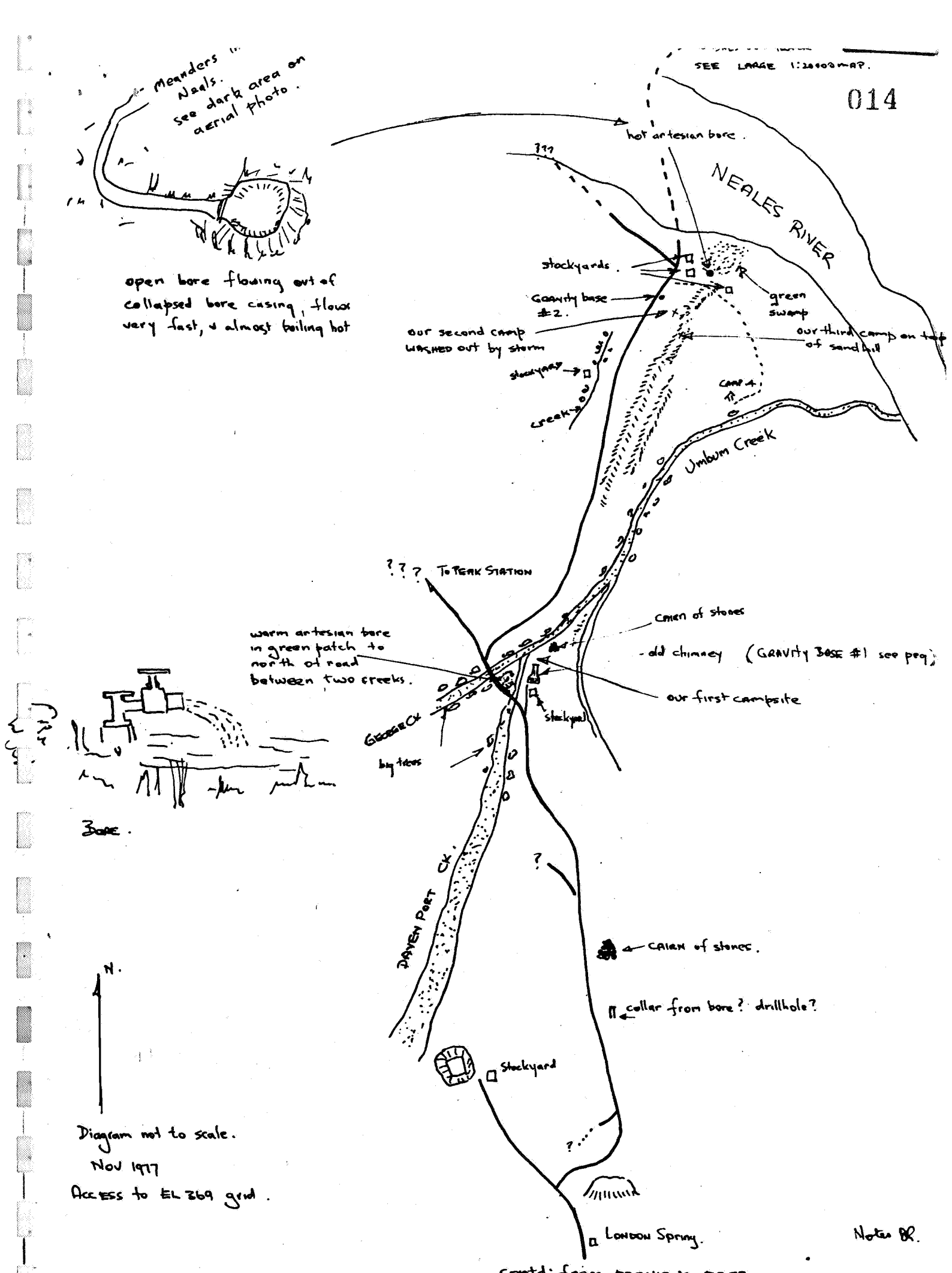
Access to EL 369 grid.

Notes BR.

SEE LARGE 1:20000 MAP.

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

Bore.



N.

Diagram not to scale.

Nov 1977

Access to EL 369 grid.

Notes BR.

contd: from previous page

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	
2 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 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 rt 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 = 0.0
	artesian bore about 250m north of road, look for birds + cattle + green swamp to locate, easy to miss. see diag of bore.	0.8
	George Creek	1.8
	road junction, take right hand track,	
note:	track can become very indistinct from now on unless used regularly, follow carefully	2.5
	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	21.0
	stockyard	23.0
	Total.	76.5

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.

- - - - - -

017

NEALES RIVER

PRIMROSE HILL

NEALES RIVER

Blanket Waterhole (P.O.)

Outside Spring

The Vaughan Spring

Twelve Mile Spring

Fanny Springs

MT CHARLES

The Fountain Spring

Big Perry Spring

MOON HILL

Little Perry Spring

DIVIDING BLUFF

Umbum Creek

Tasmurrina Waterhole

Hawker Creek

George Creek

Mussel Waterhole

Trig Waterhole

Umbum Creek

Wanjiwarangena Waterhole (P.O.)

Brinkley Springs

TOURMALINE

Sunny Creek

Creek

Loudon Spring

Callamonta Creek

Davenport

WHITE HILL (P.O.)

Creek

Sunny Creek

Douglas

Douglas Creek

Coorkhind Lake

Coobinina

RUBY HILL

Warrenbenna Well Dam

William

Breakaway Time Creek

William Creek 242

Midway Dam (P.O.)

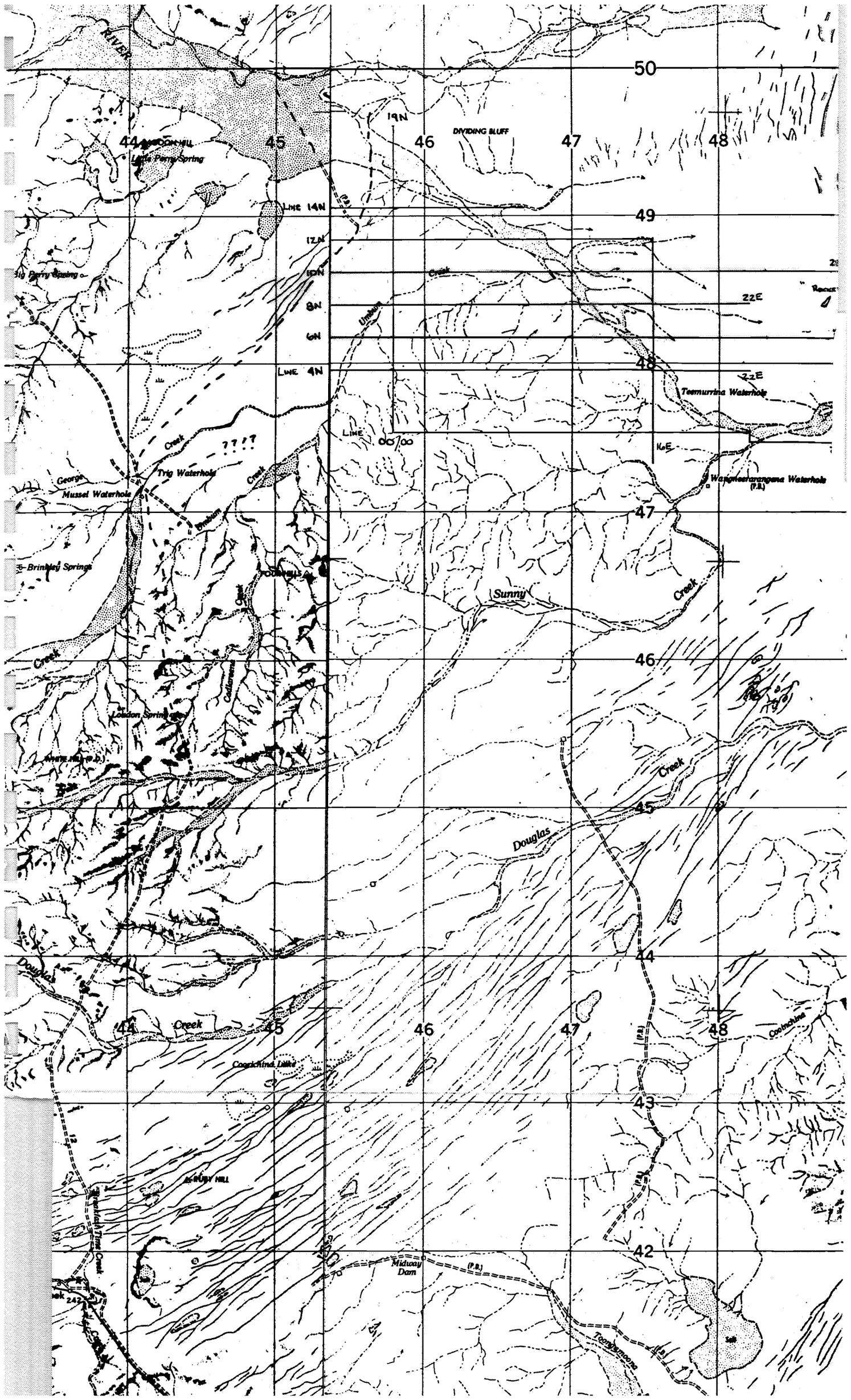
Toorongmoona (P.O.)

Lake Callara

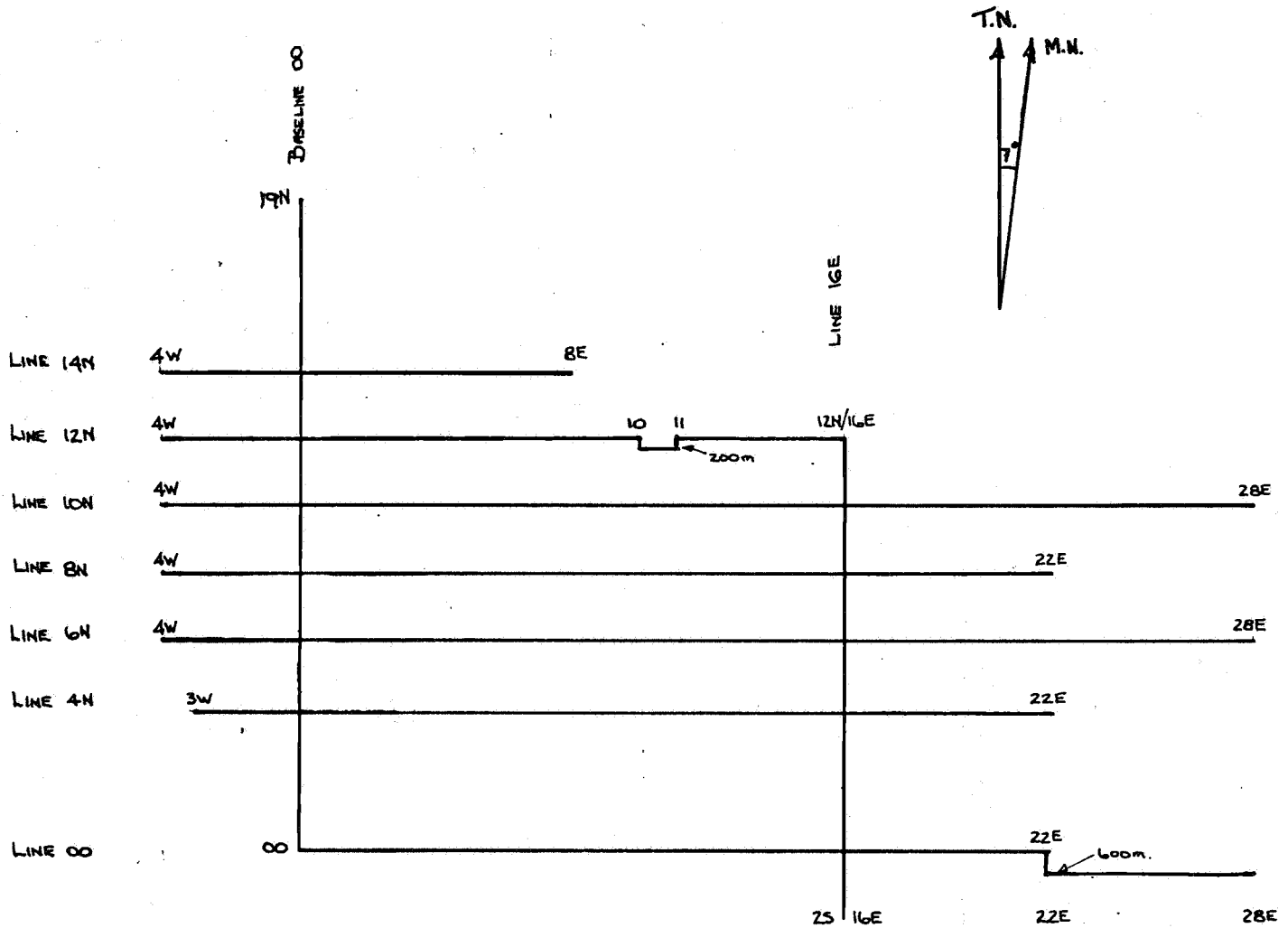
Lake William

IRRAPATANA CAMP OUTSTATN

15' 43 44 45 136°30' 46 0000y E 47 45' 48 49


RIVER
50
19N
DIVIDING BLUFF
44
45
46
47
48
Little Perry Spring
LINE 14N
49
17N
Big Perry Spring
10N
Creek
8N
Umbum
22E
6N
48
LINE 4N
22E
Teemurrina Waterhole
LINE 00/00
Creek
???
George
Trig Waterhole
Mussel Waterhole
Umbum Creek
Wangkeerangana Waterhole (P.B.)
47
Brinkley Springs
Sunny
Creek
Creek
Cadlareena
London Spring
White Hill (P.B.)
46
Creek
45
Douglas
Douglas
44
Creek
45
46
47
48
Coochina
Coochina Lake
43
Midway Dam
(P.B.)
42
Toolgyinnoona
(P.B.)

GRID PLAN E.L. 369



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SCALE 1:200000

DATE NOVEMBER/DECEMBER 1977.

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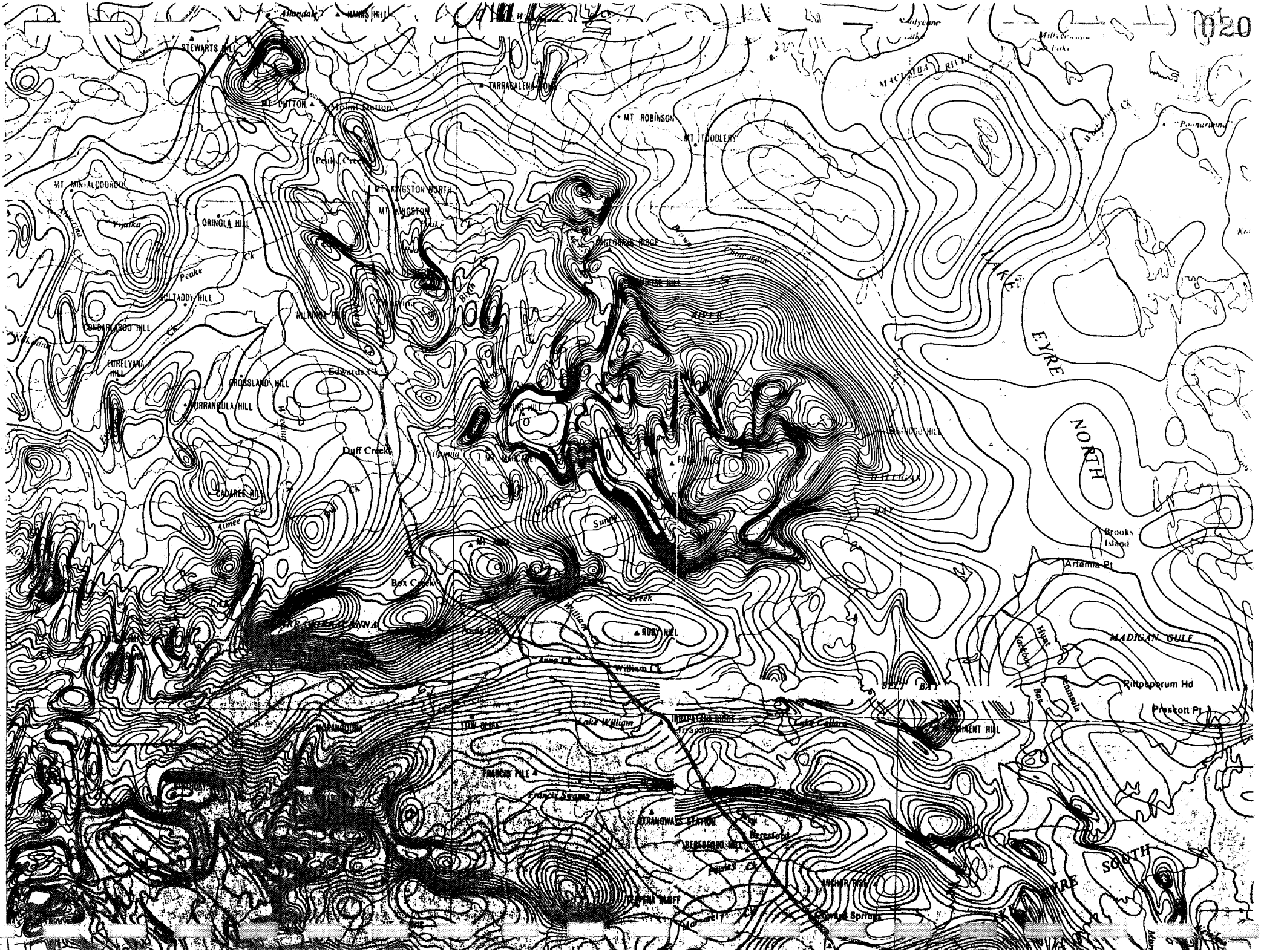
020
020
STEWARTS HILL
Allandale
HANNS HILL
TARRASALENA HILL
MT HUTTON
Mount Dutton
MT ROBINSON
MT TOODLEY
MACLAIRA RIVER
Peake Creek
MT KINGSTON NORTH
MT KINGSTON
MT MINTALCOORDOO
ORINGLA HILL
Peake
Yeatka
Ck
MILTADDY HILL
MOUNT LEE
MT DAVIES RIDGE
HORSE HILL
RIVER
LAKE EYRE
EYRE
NORTH
FURELYANA HILL
CROSSLAND HILL
MIRRANGULA HILL
Edwards Ck
Duff Creek
CADARES HILL
Aimee Ck
Sunset
Brooks Island
Artemia Pt
MADIGAN GULF
Box Creek
RUBY HILL
William Ck
Lake William
Hyde
Lakebed
Peninsula
Box
Rhopsperum Hd
Preston Pt
TOM CREEK
FRANCIS PILE
STRANGWAYS STATION
Peake Ck
Margaret Ck
Coward Springs
SOUTH
EYRE

CLIENT: BHP 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	(1pm)			BASE 1
8600	57468				
8500	57520				
8400	57560				
8300	57597				
8200	57660				
8100	57708				
8000	57785				
7900	57828				
7800	57883				
7700	57951				
7600	58010				
7500	58063				
7400	58108				
7300	58139				
7200	58192				
7100	58236				
7000	58298				
6900	58364				
6800	58441				
6700	58531				

CLIENT: BHP 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	59082				
5900	59060				
5800	58899				
5700	58798				
5600	58657				
5500	58602				
5400	58619				
5300	58628				
5200	58590				
5100	55386				
5000	5982				
4900	5764				
4800	57647				
4700	57621				
4600	57661				

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	57784				
4200	57846				
4100	57909				
4000	57950				
3900	57961				
3800	57901				
BASE 1		5750 (1pm)			
	Contd.				

OE

OE

LINE 00 BASELINE

OE

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	57495				
3700	57829				
3600	57743				
3500	57724				
3400	57676				
3300	57665				
3200	57657				
3100	57649				
3000	57623				
2900	57572				
2800	57513				
2700	57420				
2600	57337				
2500	57266				
2400	57226				
2300	57216				
2200	57243				
2100	57284				
2000	57336				
1900	57389				
1800	57431				

OE

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	56766				
100	56748				
00N	56727				

OE

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	57479	(pm)			
contd.					

ON

LINE 00 BASELINE

X

CLIENT: BHP AREA: LEYRE

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	57668				
8700N	57406				
8800N	57371				
8900	57324				
9000	57276				
9100	57236				
9200	57198				
9300	57174				
9400	57173				
9500	57213				
9600	57305				
9700	57480				
9800	57717				
9900	58034				
10000	58316				
10100	58543				
10200	58708				
10300	58731				
10400	58912				
10500	58961				
10600	59073				

OE

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				
11300	59351				
11400	59380				
11500	59391				
11600	57367				
11700	59331				
11800	59283				
11900	59232				
12000	59225				
12100	59259				
12200	59270				
12300	59321				
12400	59314				
12500	59289				
12600	59254				
12700	59222				

OE

023

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	57671				
Cont.					

OE

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	58345				
14400	58317				
14500	58340				
14600	58336				
14700	58327				
14800	58328				
14900	58338				
15000	58344				
15100	58314				
15200	58322				
15300	58345				
15400	58332				
15500	58321				
15600	58306				
15700	58268				
15800	58270				
15900	58276				
16000	58219				

line OE

CLIENT: AREA:
LINE: BASELINE (G NORTH DATE: 9/12
OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
16100	58248				
16200	58250				
16300	58228				
16450	58237				
16580	58245				
16600	58241				
16700	58235				
16820	58221				
16920	58205				
17000	58190				
17100	58176				
17250	58182				
17390	58191				
17450	58190				
17580	58189				
17700	58145				
17800	58188				
17890	58157				
17990	58[illegible]				
18050	58131				
18100	58[illegible]				

line OE

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	57994				
18200	57991				
18800	57937				
18900	57[illegible]				
19000	57870				
BASE 2	57665				
end of line					

Line OE

LINE 00 BASELINE

CLIENT: SHP AREA: L. Eyre

LINE: OON (BASE) DATE: 2/12

OPERATOR: TH UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
64	57792				
7100	57857				
7200	57841				
7300	57820				
7400	57818				
7500	57799				
7600	57792				
7700	57764				
7800	57747				
7900	57742				
8000	57714				
8100	57709				
8200	57687				
8300	57670				
8400	57664				
8500	57649				
8600	57634				
8700	57627				
8800	57626				
8900	57608				
9000	57619				

Line ON

CLIENT: AREA:

LINE: OON (S/E-ST) DATE: 2/12

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	57583				
10000	57600				
10100	57594				
10200	57593				
10300	57588				
10400	57581				
10500	57583				
10600	57570				
10700	57602				
10800	57616				
10900	57602				
11000	57516				

Line ON

~~LINE OOLAST~~

CLIENT: AREA:

LINE: OON (S/EAST) DATE: 2/12

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
11100	57500				
11200	57557				
11300	57552		TRACK 9N		11350
11400					
11500					
11000					
11700	PM B4		57788	(ON 4N	
11800					2 1/2 Skeg)
11900					
12000					
2100					
2200					
2300					

Line ON

CLIENT: BHP AREA: [illegible]

LINE: OON (S/EAST) DATE: 22/12

OPERATOR: JH UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
84	57787				
11400	57534				
11500	57523				
11600	57493				
11200	57506				
11800	57479				
11900	57460				
2000	57447				
12100	57450				
12200	57434				
12300	57452				
12400	57467				
2500	57480				
12600	57511				
12700	57533				
2800	57577				
12900	57504				
13000	57639				
13100	57767				
13200	57800				
13300	57734				

Line ON

CLIENT: AREA:

LINE: OON (S/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	57996				
14200	57866				
14300	57905				
14460	57807				
14500	57760				
14600	57709				
14760	57681				
14800	57646				
14900	57606				
15000	57584				
15200	57598				

Line ON

~~LINE 00 EAST~~

CLIENT: AREA:

LINE: DATE:

OPERATOR: UNIT NO: LAT:

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

CLIENT: BHP AREA: [illegible]

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

OPERATOR: [illegible] UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
B4	57790				
15000E	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	57244				
17300	57220				
17400	57201				

[illegible] ON

CLIENT: AREA:

LINE: 00N (WEST) 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	57286				
19800	57313				

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				

[illegible] N

BASE 57811 ±2

028

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

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
BASE	57800	735			
00000E	57375				Peg
01	57400				
02	57435				
03	57484				
04	57505				
05	57550				
06	57570				
07	57610				
08	57633				Gully
09	57640				Gully
21000	57670				Peg
211	57680				
212	57690				
213	57717				
214	57740				Neales'
215	57740				Flood plain + creek
216	57740				
217	57742				
218	57786				

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
222	57693				line to avoid
223	57693				large water holes
224	57697			57697	—
225	57697 (221)			57721	
226	57721	—		57727	
227	57727				
228	57736 (43)			57743	
229	57763			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	57856				
248	57850				
240	57856				
25000	57855				
251	57870				
252	57870				
253	57880				
254	57880				
255	57890				
256	57888				
257	57907				
258	57895				
259	57903				
26000	57915				

Line 0 N

Line 600S

LINE 00

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 600S

LINE 00

CLIENT: BHP AREA: L Eyre

LINE: 00 BASELINE (9/S) 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	57649				
3000	57623				
2900	57572				
2800	57513				
2700	57420				
2600	57337				
2500	57266				
2400	57226				
2350	57216				
2250	57248				
2100	57284				
2000	57336				
1900	57389				
1800	57431				

Line 00E

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	57498				
1400	57499				
1300	57497				
1200	57498				
1100	57484				
1000	57452				
900	57362				
800	57211				
700	57123				
600	57036				
500	56928				
400	56863				
300	56804				
200	56766				
100	56748				
000	56727				

Line 00E.

LINE 00 BASELINE

030

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	(7m)			
contd.					

Line 00N

CLIENT: B.H.P. AREA: Mt Eyre
LINE: 4000N (Grid West) DATE: 12/12
OPERATOR: JA 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	58900				
1100W	58977				
1200	58871				
1300	58755				
1400	58556				
1500	58305				
1600	58093				
1200	57919				
1800	57779				
1900	57678				
2000	57641				

CLIENT: 6000N (Grid west) AREA:
LINE: 4000N (Grid 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	5740?				
3000	57483W	—	SWAMP.		
	LINE	6000N (Grid west)			
00	59082				
100W	58810				
200W	58644				
300W	58555				
400W	58412				
500W	58400				
600W	58483				
700W	58492				
800W	58554				
900W	58610				

CLIENT: AREA:
LINE: 6000N (Grid 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	57410				
			Contd		

LINE 4000N

CLIENT: The BHP 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
14	57803	0645			
200N	58177	5[08]			
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	5[30]			
16	57624				

00 deleted

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 pegs as repeat rdg
42	57328				
4300E	57305				
Base	57802	6[25]			

LINE 4000N

CLIENT: BHP AREA: L. Eyre

LINE: Woodon (S/West) DATE: 21/12

OPERATOR: TH UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
64000	56991				
5300	57012				
6200	57020				
6100	57031				
6000	57045				
5900	57076				
5800	57096				
5700	57100				
5600	57120				
5500	57141				
5400	57152				
5300	57165				
5200	57178				
5150	57170				
5000	57182				
4900	57161				
4850	57198				
4750	57203				
4660	57218				
4550	57231				
44000	57240				
43500	57267				
4200	57294				

CLIENT: AREA:

LINE: DATE:

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
4100	57314				
4000	57351				
3900					
3800					
Adam	57298				

CLIENT: AREA:

LINE: DATE:

OPERATOR: UNIT NO: LAT:

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

LINE 4000N

CLIENT: BHP AREA: Eyre

LINE: 4MG/casing DATE: 2/11/2

OPERATOR: TH UNIT NO: LAT:

STATION	READING 1	TIME	CORR'N	READING 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	READING 1	TIME	CORR'N	READING 2	REMARKS
8632	57247				
8800	57268				
8900	57306				
8700	57357				
9000	57375				
9100	57422				
9200	57431				
9300	57494				
9400	57493				
9500	57534				
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: 2/12

OPERATOR: UNIT NO: LAT:

STATION	READING 1	TIME	CORR'N	READING 2	REMARKS
10700	58053				
10800	58106				
10900	58176				
11000	58237				
11100	58278				
11200	58334				
11300	58363				
11400	58387				
11500	58408				
11600	58400				
11700	58408				
11800	58404				
11900	58418				
12000	58441				
12100	58451				
12200	58474				
12300	58530				
12400	58588				
12500	58658				
12600	58752				
12700	58867				

LINE 10000W

CLIENT: RHP AREA: L. Eyre

LINE: 4000N DATE:

OPERATOR: G. RAU UNIT NO: GPR LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
16000E	57963	9115			NEALS RIVER
16300E	58930	9:40			
16400	995	9.45			
16500	980	9'50			
16600	949	9.53			
16700	930	9:58			
16800	880	1880			
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	10:10			
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			18530 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	11:15			END OF LINE

LINE 4000N

CLIENT: BHP AREA: L. Eyre

LINE: 4N (EAST) DATE: 2/12

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	59100				
13800	59025				
13900	58931				
14000	58894				
14100	58815				
14200	58751				
14300	58619				
14400	58643				
14500	58621				
14600	58608				
14700	58596				
14800	58600				

CLIENT: AREA:

LINE: 4N (5 EAST) DATE: 2/12

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
14900	58609				
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	59007				
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.

CLIENT: B.H.P. AREA: Eyre

LINE: 4000N (Grid West) DATE: 22/12

OPERATOR: TA, UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
BASE	57791				
100W	58053				
200W	58736				
300W	56244				
400W	58350				
500W	58492				
600W	58592				
700W	58679				
800W	58751				
900W	58825				
1000W	58900				
1100W	58919				
1200	58871				
1300	58755				
1400	58556				
1500	58305				
1600	58093				
1700	57919				
1800	57779				
1900	57678				
2000	57641				

CLIENT: B.H.P. AREA: Eyre

LINE: 6000N (Grid 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 (Grid West)				
00	59082				
100W	58810				
200W	58644				
300W	58555				
400W	58498				
500W	58460				
600W	58482				
700W	58475				
800W	58554				
900W	58610				

LINE 4000N.

CLIENT: AREA:

LINE: 6000N (Grid 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	57770				
			Contd ↘		

PART 2

038

CLIENT: West AREA:

LINE: 6000N (S/[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	58199				
2500W	58099				
2600W	58087				
2700	58022				
2800	57906				
2900	57801				
3000	57692				
3100	57613				
3200	57548				
3300	57514				
3400	57507				
3500	57530				
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.

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
BASE	57770	18.25			
100E	59454				
200	59740				
300	59860				
400	59825				
500	59656				
600	59345				
700	59257				
800	59004				
900	58713				
000E	58481				
00	58241				
00	58118				
00	57837				
00	57717				
500	57633				
600	57594				
700	57558				
800	57591				
100E.	57534	1935			
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	0800			
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

CL

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STA

LINE 6000N

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
Δ4 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
5900E	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	58575				
71	58500				
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
[illegible]	58330	--			
[illegible]	58280				
[illegible]	58140				
[illegible]	58091				
8000E	57919	1515			
Δ4 BASE	57791	16.10			

L/W E 6000N

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	57586				
89	57548				
9080E	57508				
91	57487				
92	57468				
93	57466				
94	57443				
95	57463				
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
109000E	57635	1210			
11000	—				
Δ4 Base	57790	1500			
		Contd			

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

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

LINE 6000N

GP.70

042

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 flow
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

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	58676	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
213[00]	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				
X23000	57640				Peg
231	57628				
232	57641				
23300E	57639				

LINE 6000N

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	57669				
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				
44 BW/00E	57800	1635			
BASE					

LINE 6000N

CLIENT: [illegible] AREA: [illegible]

LINE: 8000 N (S/W84) DATE: 6/82

OPERATOR: T.H. 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	57467				
1600	57461				
1700	57431				
1800	57480				
1900	57514				
2000W	57506				

CLIENT: AREA:

LINE: 8000 N (S/W84) DATE: 6/82

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
2100W	57591				
2300	57647				
2300	57729				
2400	57845				
2500	57979				
2600	58190				
2700	58281				
2800	58331				
2900	58361				
3000	58340				
3190	58274				
3200	58240				
3300	58184				
3400	58170				
3500	58045				
3600	58022				
3700	57970				
3800	57924				
3900	57871				
4000W	57839				
Base 2	57658				

CLIENT: AREA:

LINE: DATE:

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
	Cont'd:				

LINE 8000N.

CLIENT: BHP Gold AREA: Eye

LINE: 8000 N DATE: 9-12-77

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

STATION	READ'G 1	TIME	COMM'S	READ'G 2	REMARKS
5000E	58103	13:00			
4900E	58163				
4800E	58206				
4700E	58291				
4600E	58262				
4500E	58280				
4400E	58295				
4300E	58316				
4200E	58340				
4100E	58386				
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: CAT:

STATION	READ'G 1	TIME	COMM'S	READ'G 2	REMARKS
3100E	58905				
3000E	59012				
2900E	59135				
2800E	59242				
2700E	59355	14:00			
2600E	59425				
2500E	59483				
2400E	59518				
2300E	59512				
2200E	59517				
2100E	59519				
2000E	59534				
1900E	59540				
1800E	59564				
1700E	59557				
1600E	59535				
1500E	59492				
1400E	59429				
1300E	59318				
1200E	59210				
1100E	59087				

CLIENT: AREA:

LINE: DATE:

OPERATOR: UNIT NO: CAT:

STATION	READ'G 1	TIME	COMM'S	READ'G 2	REMARKS
1000E	58945				
900E	58824				
800E	58725				
700E	58610				
600E	58505				
500E	58411				
400E	58302				
300E	58171				
200E	58046				
100E	57940				
00	57810				

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
B4	57296				
1100E	56761				
1200E	56770				
1300E	56787				
1400E	56768				
1500E	56756				
1600E	56729				
1700E	56685				
1800E	56707				
1900E	56685				
2000E	56669				
2100	56674				
2200	56666				
2300	56668				
2400	56666				
2500	56680				
2600	56714				
2700	56745				
2800	56807				
2900	56926				
3000	57081				

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	59285				
4400	59323				
4500	59316				
4600	59304				
4700	59250				
4800	59203				
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	58110				
6500	58067				
6600	58017				
6700	57978				
6800	57943				
6900	57911				
7000	57881				
	/				
B4	/	57788			

LINE 00 EAST.

CLIENT: BHP AREA: L.Eyre

LINE: 8000N DATE: 10/12/77

OPERATOR: P C R UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
0 BASE	57815				
9800 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	57571				
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	57998				
6700	58011				
6600	58035				
6500	58062				
6400	58081				
6300	58099				
6200	58107				
6100	58109				
6000	58092				
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	57976	-			
5300	57973				
5200	57938	1600			
5100	57951				
5000	57986	1608			
14 BASE	57790				

LINE 8000N

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	57480	1650			
10000E	57470				
101	475				
102	468				
103	450				
104	459				
105	455				
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				
12400E	57566				
Δ4 BASE	57802	1925			

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

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

LINE 8000N

CLIENT: [illegible] AREA: [illegible]

LINE: 8000N DATE: 30.12.77

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	COND'N	READ'G 2	REMARKS
15600E	57815	13:20			
·5	780	13:22			
·4	780	13:23			
·3	760	13:24			
·2	748	13:26			
·1	720	13:27			
14000E	710	13:28			
5000 E	57703	13:29			
·9	674	13:30			
·8	684	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			
14000 E	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	READ'G 1	TIME	COND'N	READ'G 2	REMARKS
15600E	57420	13:41			
·5	416	13:49			
·4	416	13:50			
·3	423	13:51			
·2	446	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/0E	57954	14:20			
Δ 4.8N/0E	57804	15:00			

CLIENT: AREA:

LINE: 8000N DATE:

OPERATOR: UNIT NO: LAT:

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

LINE 8000N

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	791	12.13			
.2	810	12.15			
.1	840	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			TRACK.
19000E	192	12.33			
.9	220	12.35			
.8	260	12.37			
.7	300	12.39			
.6	330	12.40			
.5	369	12.41			
.4	408	12.43			
.3	430	12.44			
.2	471	12.45			
.1	512	12.46			
18000E	534	12.47			
.9	570	12.48			

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	590	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			

LINE 8000N

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
BASE2	57670				
5100E	58581				
5200E	58521				
5300	58457				
5400	58369				
5500	58282				
5600	58217				
5700	58146				
5800	58071				
5900	58022				
6000	57950				
6100	57898				
6200	57838				
6300	57795				
6400	57741				
6500	57704				
6600	57671				
6700	57642				
6800	57618				
6900	57603				
7000	57589				

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	57596				
7900	57607				
8000	57604				
8100	57595				
8200	57625				
8300	57628				
8400	57644				
8500	57638				
8600	57632				
8700	57600				
8800	57590				
8900	57575				
9000	57732				
9100	57720				

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 Neales				River OK
9800					
Base 2		57638			
	contd:				

LINE 10000N

X

053

CLIENT: BHP. AREA: Lake Eyre

LINE: 10000N (S East) DATE: 14/12.

OPERATOR: TH. UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
B(7800)	57917				
7800E	57906				
7890E	57917				
7940E	57938				
10000E	57949				
10100	57955				
10200	57960				
10300	57977				
10400	57983				
10500	57993				
10600	57950				
10700	57950				
10800	57964				
10900	57982				
11000	58008				
11100	58038				
11200	58094				
11300	58164				
11400	58249				
11500	58338				
11600	58443				
11700	58517				
11800	58648				

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	58794				
12700	58761				
12800	58703				
12900	58661				
13000	58620				
13100	58612				
13200	58578				
13300	58586				
13400	58564				
13500	58558				
13600	58553				
13700	58532				
13800	58529				
13900	58516				

CLIENT: AREA:

LINE: 10000N (S 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	58436				
14600	58438				
14700	58429				
14800	58432				
14900	58396				
15000	58398				
15100	58384				
15200	58366				
15300	58350				
15400	58340				
15500	58321				
15600	58317				
15700	58311				
15800	58290				
15900	58294				
15950E	58259				
16000	58243				

LINE 10000N

CLIENT: BHP AREA: Eyre

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

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
35 10000	57948				
100 E	58251				
6200	58259				
6300	58244				
6400	58225				
6500	58211				
16600	58205				
16700	58206				
16800	58188				
16900	58205				
17000	58203				
17100	58202				
17200	58174				
17300	58192				
17400	58182				
17500	58172				
17600	58154				
17700	58170				
17800	58149				
17900	58153				
18000	58171				

CLIENT: AREA:

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

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
18100 E	58130				
18200	58153				
18300	58149				
18400	58144				
18500	58144				
18600	58119				
18700	58128				
18800	58110				
18900	58100				
19000	58107				
19100	58101				
19200	58092				
19300	58096				
19400	58092				
19500	58060				
19600	58095				
19700	58078				
19800	58079				
19900	58087				
20000	58082				

CLIENT: AREA:

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

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
20100 E	58070				
20200	58055				
20300	58053				
20400	58044				
20500	58027				
20600	58007				
20700	58026				
20800	57996				
20900	57992				
21000	57975				
21100	57975				
21200	57987				
21300	57990				
21400	57971				
21500	~~57~~	57953			
31 10000	57950				
31 35					
		Cont			

LINE 10000N

CLIENT: BHP. AREA: L. Eyre.
LINE: 10000N (GRID EAST) DATE: 16/12
OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
B5	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	57651				
23300	57664				
23400	57620				
23500	57631				
23600	57626				
23700	57618				

CLIENT: AREA:
LINE: 10000N (GRID EAST) 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	57593				
24200	57573				
24300	57575				
24400	57574				
24500	57572				
24600	57571				
24700	57563				
24800	57563				
24900	57540				
25000	57544				
25100	57543				
25200	57525				
25300	57527				
25400	57521				
25500	57518				
25600	57512				
25700	57508				
25800	57502				
25900	57504				

CLIENT: AREA:
LINE: 10000N (GRID) 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	57480				
26500	57476				
26600	57474				
26700	57475				
26800	57473				
26900	57458				
27000	57447				
27100	57447				
27200	57446				
27300	57438				
27400	57430				
27500	57427				
27600	57412				
27700	57400				
27800	57402				
27900	57391				
28000	57377				end of line
35	57954				

LINE 10000N

CLIENT: B.H.P. AREA: Y.K.B.

LINE: 12000N G.E/W DATE: 2/72

OPERATOR: J.H. 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	59191				
900E	59096				
1000E	58985				
~	~	~	~	~	~
100W	59154				
200W	59119				
300W	59065				
400W	59017				
500W	58996				
600W	58907				
700W	58714				
800W	58450				
900W	58186				

CLIENT: AREA:

LINE: 12000N (Going W+E) DATE: 2/72

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
1000W	57964				
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: 2/72

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
3100W	57574				
3200W	57556				
3300W	57558				
3400W	57561				
3500W	57570				
3600W	57568				
3700W	57563				
3800W	57544		(PEG) BASE 3		
3900W	57541				
4000W	57546				
BASE 2	57660	pm			
			cont'd		

LINE 12000N

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—				
1200E	58824				
1200E	58724				
1300E	58671				
1400E	58648				
1500E	58667			Too	Boggy
	LINE 10000N				
100W	58068				
200W	57784				
300W	57601				
400W	57491				
500W	57452				
600W	57432				
700W	57399				
800W	57366				
900W	57326				
1000W	57261				
1100W	57201				
1200W	57157				
1300W	57116				

CLIENT: AREA:
LINE: 10000 (Going 60ES T) 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	57934				
3200W	57982				
3300W	58040				
3400W	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	57848				
3900W	57823				
4000W	57803				
BASE 2	57658				

LINE 12000N

CLIENT: BHP. AREA: L. EYRE.
LINE: 12000N (50N-7.5E) DATE: 8/12
OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
BASE 2	57673				
1600E	58720				
1700 E	58726				
1800E	58763				
1900	58810				
2000	58822				
2100	58834				
2200	58834				
2300	58816				
2400	58820				
2500	58901				
2600	58[illegible]3				
2700	58906				
2800	58922				
2900	58924				
3000	58801				
3100	58769				
3200	58661				
3300	58541				
3400	58520				

CLIENT: AREA:
LINE: 12000N (6.5E/SW) DATE: 8/12
OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
3600E	58478				
3700	58437				
3800	58421				
3900	58396				
4000	58348				
4100	58327				
4200	58289				
4300	58244				
4400	58190				
4500	58[illegible]0				
4600	58[illegible]				
4700	58180				
4800	58083				
4900	58060				
5000	58056				
5100	58063				
5200	58065				
5300	58016				
5400	[illegible]				
5500	58023				
5600	58033				

CLIENT: AREA:
LINE: 12000N DATE:
OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
5700E	58006				
5800	57995				
5900	57970				
6000	57949				
BASE 2	57670	1pm			
		cont'd:			

LINE 12000N

CLIENT: B.H.P. AREA: L.EYRE
LINE: 12000N (GRID EAST) DATE: 11/12
OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
ge 2	57691				
~~820~~	5				
100 E	57930				
200	57938				
300	57919				
400	57873				
500	57855				
600	57852				
700	57844				
800	57836				
900	57831				
000	57837				
100	57842				
200	57901				
300	57880				
400	57896				
500	57920				
600	57913				
700	57928				
800	59003				
900	58037				

CLIENT: B.H.P. AREA: L.EYRE
LINE: 12000N (GRID 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	5803				
8500	58132				
8600	58122				
8700	58155				
8800	58174				
8900	58182				
9000	58200				
9100	58205				
9200	58213				
[illegible]	58223				
[illegible]	58226				
[illegible]	58232				
[illegible]	58243				
[illegible]	58275				
[illegible]	583 11				
[illegible]	58330				
[illegible]	58371				

CLIENT: O/set 200m South AREA:
LINE: 12000N DATE: 11/12
OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
10100 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 /			
82	57670				
		Contd			

LINE 12000N

CLIENT: BHP. AREA: Leyne

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

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
B.S.	57458				
11100 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	58356				
12800	58356				
12900	58350				
13000	58342				

CLIENT: AREA:

LINE: 12000N (Grid 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	58248				
14700	58249				
14800	58246				
14900	58232				
15000	58226				
15100	58218				

CLIENT: AREA:

LINE: 12000N (Grid 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	58164				
15900	58140				
16000	58126				end of line

LINE 12000N

CLIENT: The BHP Co AREA: Golden Eye

LINE: 14000N (5162) DATE: 7/12

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
BASE2	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	58403				
1500	58341				
1600	58257				
1700W	58147				
1800W	58014				
1900W	57904				
2000W	57804				

CLIENT: AREA:

LINE: 14000N (5 West) DATE: 7/12

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				
3500W	57976				
3600	57992				
3700	57957				
3800	57942				
3900	57933				
4000W	57910				
[illegible]	--				

CLIENT: AREA:

LINE: 14000N (5 East) DATE: 7/12

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
100E	58551				
200E	58523				Creek
300E	58532				
400	58544				
500	58562				
600	58578				
700	58579				
800	58584				
900	58592				
1000	58613				
1100	58613				
1200	58607				
1300	58603				
1400	58593				
1500	58581				
1600	58572				
1700	58583				
1800	58593				
1900	5860				
2000E	58640				
	[illegible]				

BASE 2 57626 pm

contd →

LINE 14000N

CLIENT: TL + BHP Co. AREA: Ashburton Cpx

LINE: 14000N DATE: 6/12

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	58831				
3600	58853				
3700	58847				
3800	58911				
3900	58959				
4000	59021				

CLIENT: AREA:

LINE: 14000N Going East 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	58390				
5700	58358				
5800	58325				
5900	58301				
6000	58288				
6100	58266				

CLIENT: AREA:

LINE: 14000N (STEAST) DATE: 10/12

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
6200E	58258				
6300	58238				
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	58019				
7700	58010				
7800	58006				
7900	58002				
8000	58005				End of LINE
B2	57644				

LINE 14000N

CLIENT: The BHP Co Ltd AREA: Hunter Expl
LINE: 16000E (N/S) DATE: 2/12
OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
7.5	57950				
900N	58169				
1800	58164				
1700	58227				
1600	58241				
11500	58296				
11400	58308				
11300	58310				
11200	58325				
11100	58316				
11000	58337				
10900	58348				
10800	58344				
10700	58362				
10600	58341				
10500	58329				
10400	58324				
10300	58307				
10200	58302				
10100	58290				
10000	58270	c/f LINE 10000N/5800E			

CLIENT: AREA:
LINE: 16000E (N/S) DATE: 2/12
OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
7900	58259				
9800	58214				
9700	58247				
9600	58243				
9500	58246				
9400	58221				
9300	58222				
9200	58214				
9100	58194				
9000	58190				
8900	58194				
8800	58170				
8700	58158				
8600	58120				
8500	58070				
8400	58044				
8300	58003				
8200	57958				
8100	57904				
8000	57870				
7900	57841				

CLIENT: AREA:
LINE: 16000E (N/S) DATE: 2/12
OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
7800	57798				
7700	57809				
7600	57795				
7500	57840	S/L from swamp - gravel			
7400	57854				was L?
7300	57864				
7200	57885				
7100	57913				
7000	57999				
6900	58051				
6800	58119				
6700	58213				
6600	58314				
6500	58411				
6400	58541				
6300	58660				
6200	58776				
6100	58880				
6000	58911				
BS	57950				

LINE 16000E

CLIENT: AREA:
LINE: 16000E 6KM/S DATE: 8/12
OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
B5	57963				
5900	58968				
5800	58952				
5700	58869				
5600	58877				
5500	58761				
5400	58777				
5300	58661				
5200	58473				
5100	58540	N Edge of Neales O/C			
5000	58619	Kaemi Kite			
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 mud:

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: The B.H.P Co Ltd AREA: Lake Eyre

LINE: 16000E (N/S) DATE: 9/12

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
6400	57810				
3900	58814				
3800	58902				
3700	58910				
3600	59032				
3500	59061				
3400	59116				
3300	59163				
3200	59188				
3100	59102				
3000	59083				
2900	59017				
2800	59080				
2700	59004				
2600	58925				
2500	58920				
2400	58230				
2300	58610				
2200	58537				
2100	58378				
2000	58329				
1900	58225				
1800	58116				

CLIENT: AREA:

LINE: 16000E (N/S) DATE: 7/12

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	57509				
00	57470				
100S	57401				
200S	57380				
300S	57329				
400S	57289				
~~500S~~					

CLIENT: AREA:

LINE: 16000E (N/S) DATE: 7/12

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	56921		end of line		
BL	57184				

LINE 16000E

CLIENT: B.N.P. AREA: LEYRE

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	58759				
400E	59081				
500E	59180				
600E	59240				
700E	59277				
800E	59330				
900E	59317				
1000E	59279				
1100E	59171				
1200E	59076				
1300E	58993				
1400E	58930				
1500E	58916				
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	58394				
2700E	58371				
2800	58412				
2900	58429				
3000	58620				
3100	58705				
3200	58792				
3300	58779				
3400	59733				
3500	59539				
3600	59546				
3700	58459				
3800	58324				
3900	58320				
4000	58293				
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				
4500E	58442				
4600	58526				
4700	58563				
4800	58635				
4900	58642				
5000	58607				
BASE 2	57660				
	cont'd:				

LINE 10000N

CLIENT: B.H.P. AREA:
LINE: 12000N (Grid West) DATE: 3/12
OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
BASE 2	57640				
1800E	3				
1700E	58824				
1600E	58724				
1500E	58671				
1400E	58648				
1300E	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: 12000N (Grid West) DATE: 3/12
OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
1400W	57098				
1500W	57093				
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: 12000N (Grid 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				

LINE 12000N

068

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

AREA: E.L. 369 LAKE EYRE WEST (2)

GRID: NEALES RIVER (CLIMBUM GRID)

SURVEY: GRAVITY WITH LEVELLING

DATE: NOVEMBER AND DECEMBER, 1977

THE BROKEN HILL PROPRIETARY CO. LTD.
HEAD OFFICE LIBRARY

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

SEE PART I FOR MAGNETICS INFORMATION

C O N T E N T S

070

1. CONTENTS
2. REPORT
3. APPENDIX
4. GRID MAP (1:200000)
5. GRID MAP MAGNETICS CONTOUR
6. CULTURAL GRID MAP (1:250000)
7. GRID MAP (approx. 1:20000)
8. MAGNETICS FIELD SHEETS (as per below)
9. MAGNETIC LINE PROFILES (as per below)

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 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:

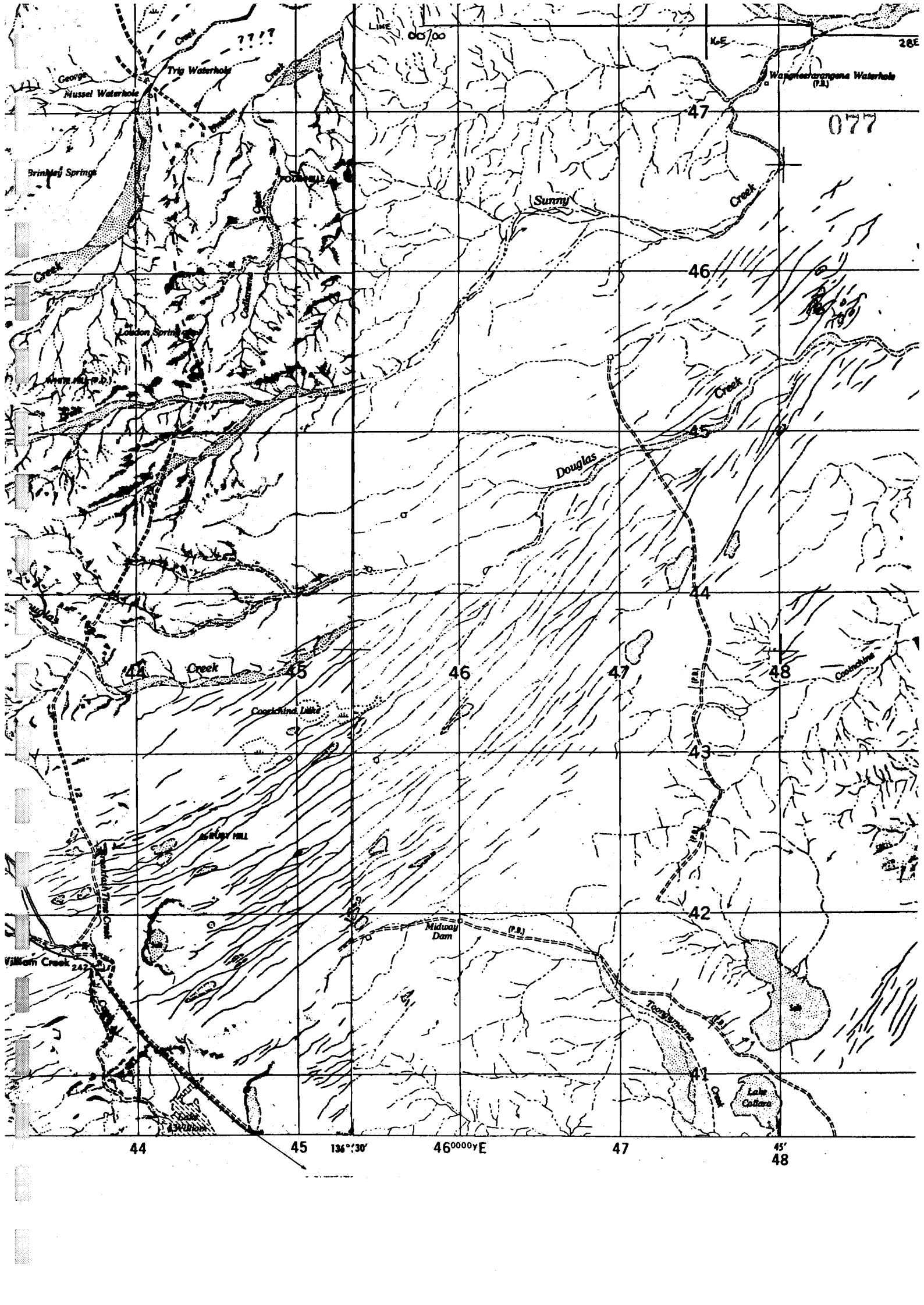
See handwritten notes.

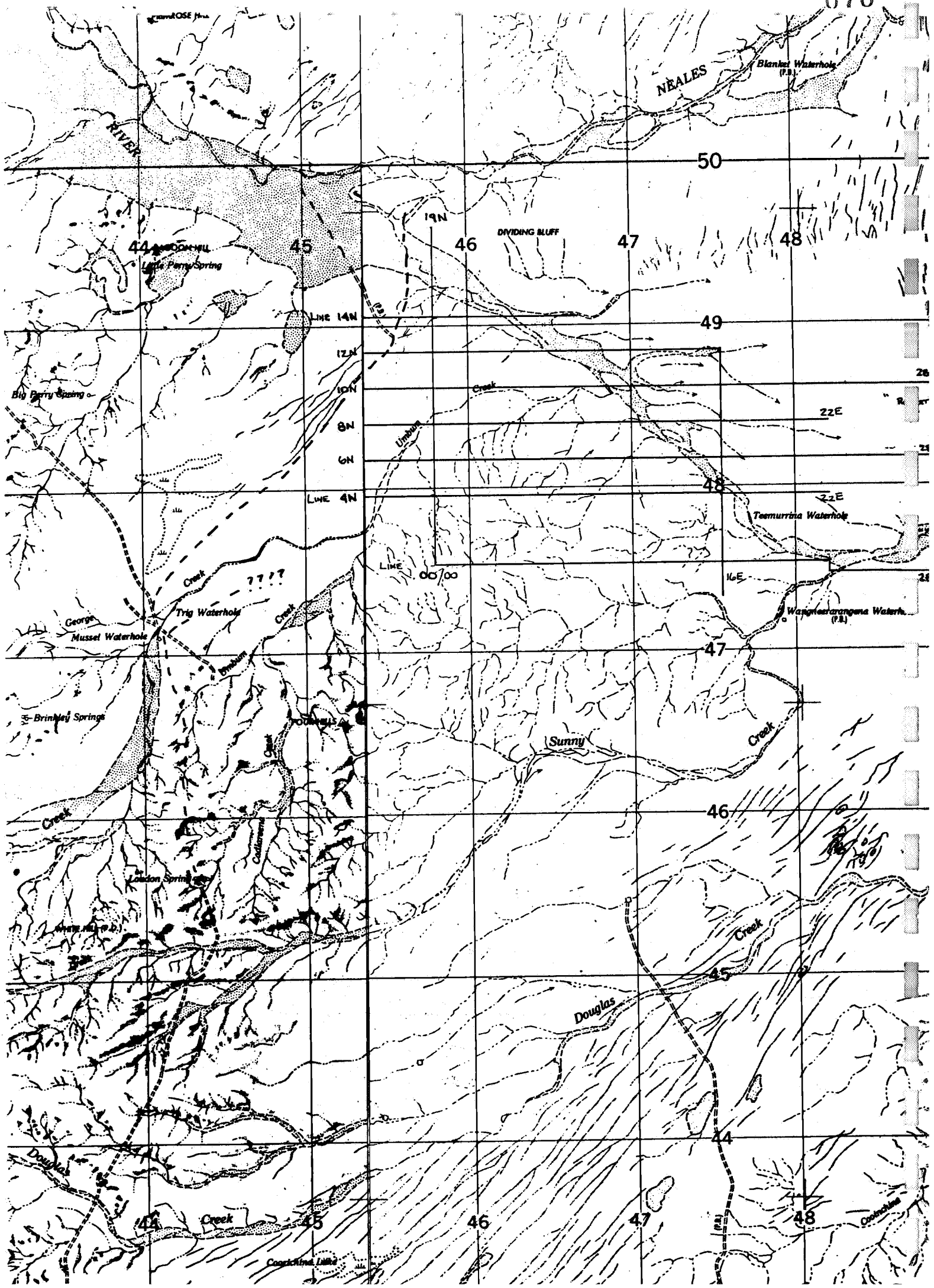
APPENDIX

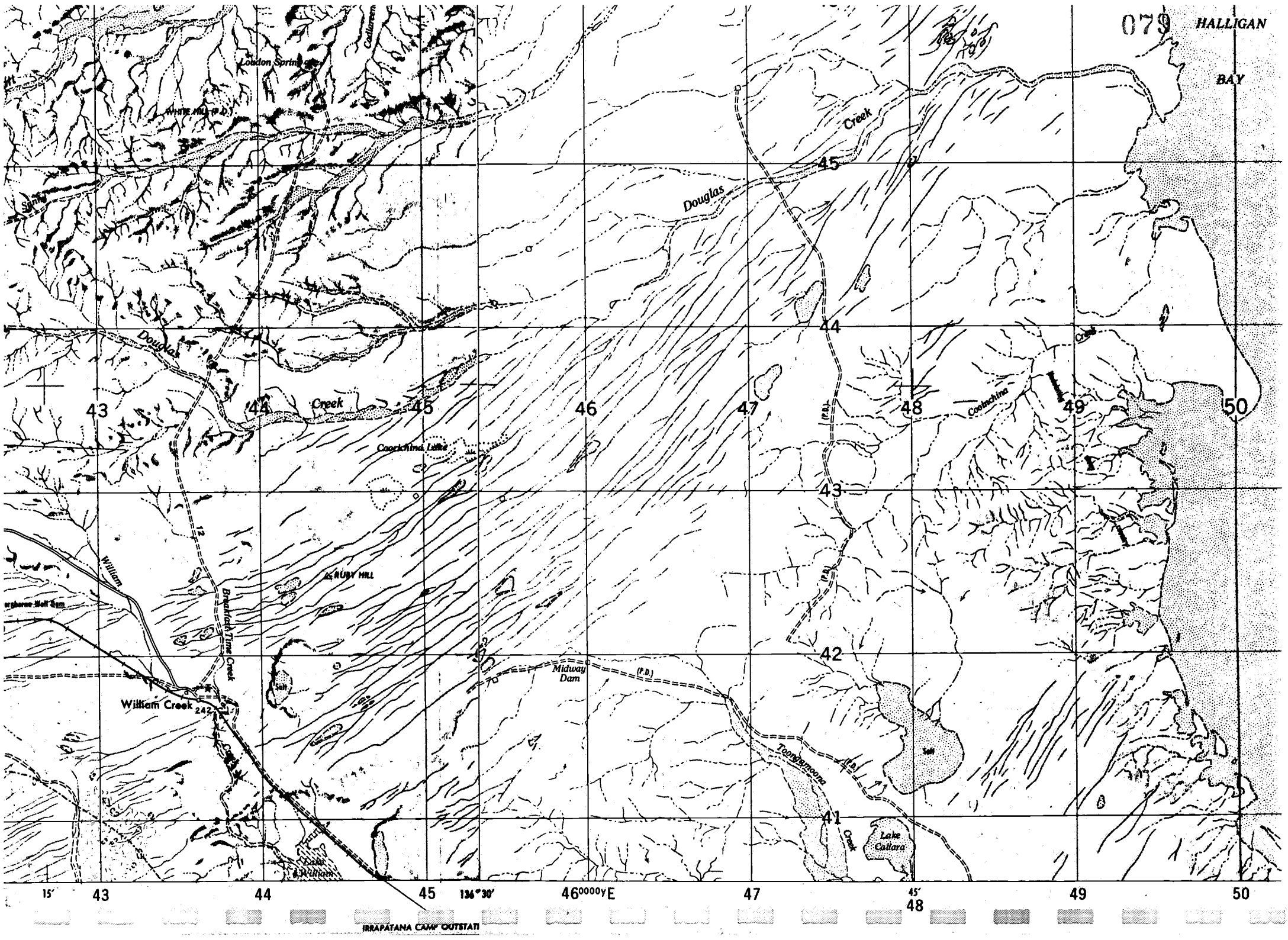
S U R V E Y O R S & E Q U I P M E N T: 076

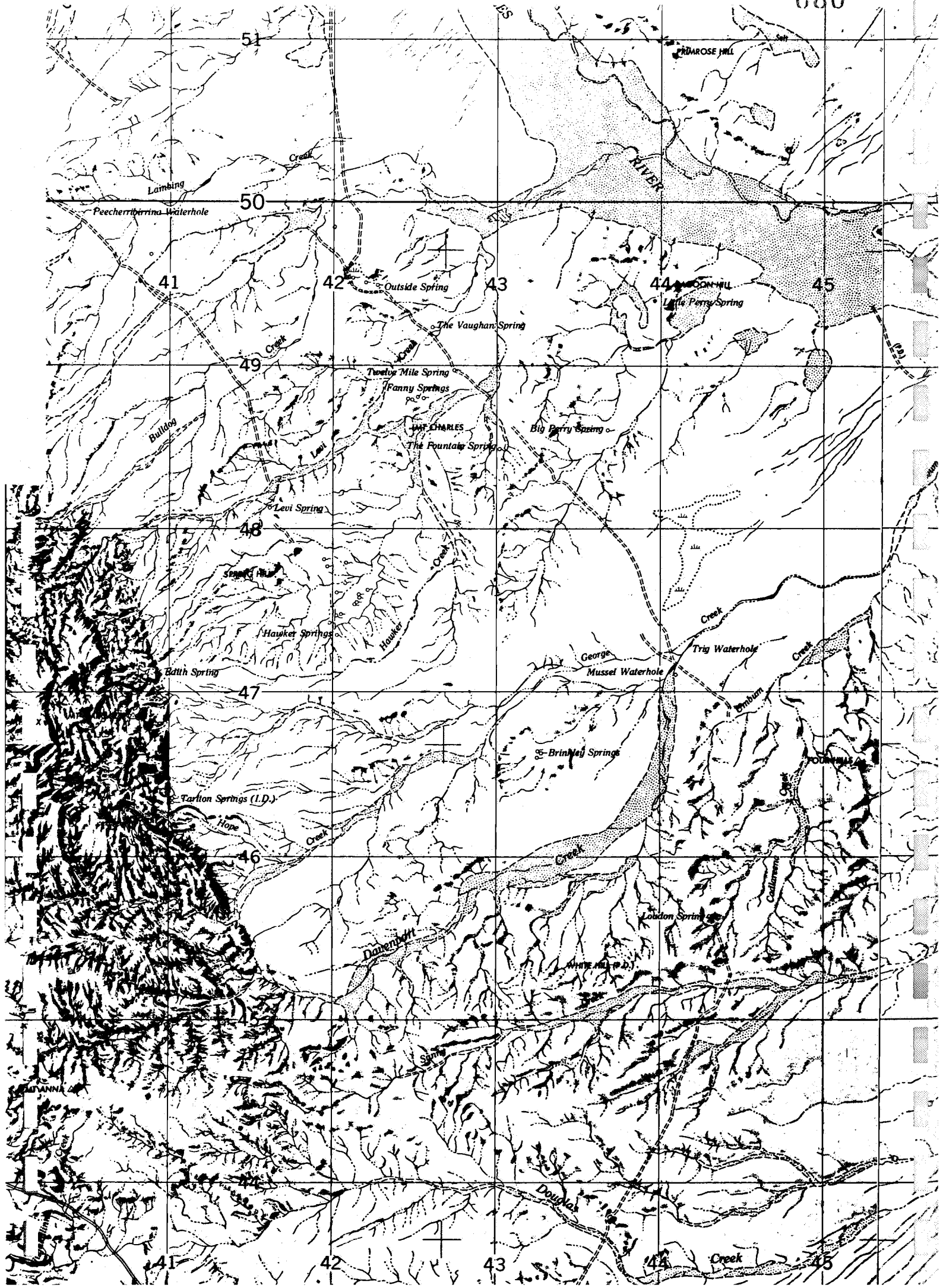
Two crews operated in the grid area. Personnel were Brian Rau and Ted Hansen, Graham Rau and Phillip Rundle. Three four-wheel drive vehicles, a Nissan Patrol, Landrover and Suzuki were used. Tents, camping equipment, lighting generator, deep freezers, R.F.D.S. two-way radio, water and food were necessary 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.

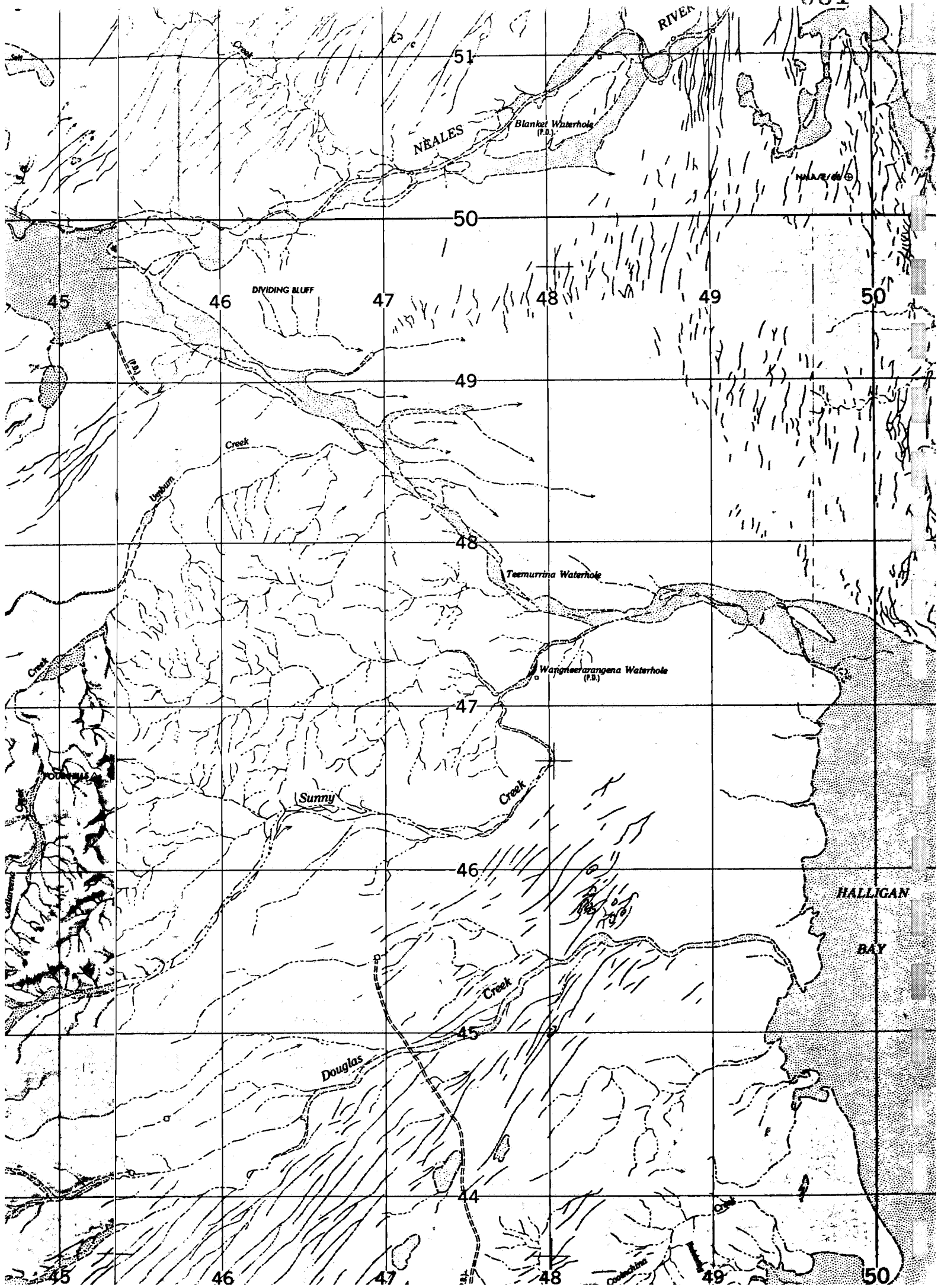
- - - - - -


George
Mussel Waterhole
Trig Waterhole
Creek
Brinkley Springs
Sunny
Creek
Douglas
Creek
Creek
Cooper Kind Lake
Midway Dam
(P.R.)
Tramlynoone
Lake Callara
Creek
William Creek
Lake William
44
45
46
47
48
43
42
41
077
136°30'
46°0000'E
45'

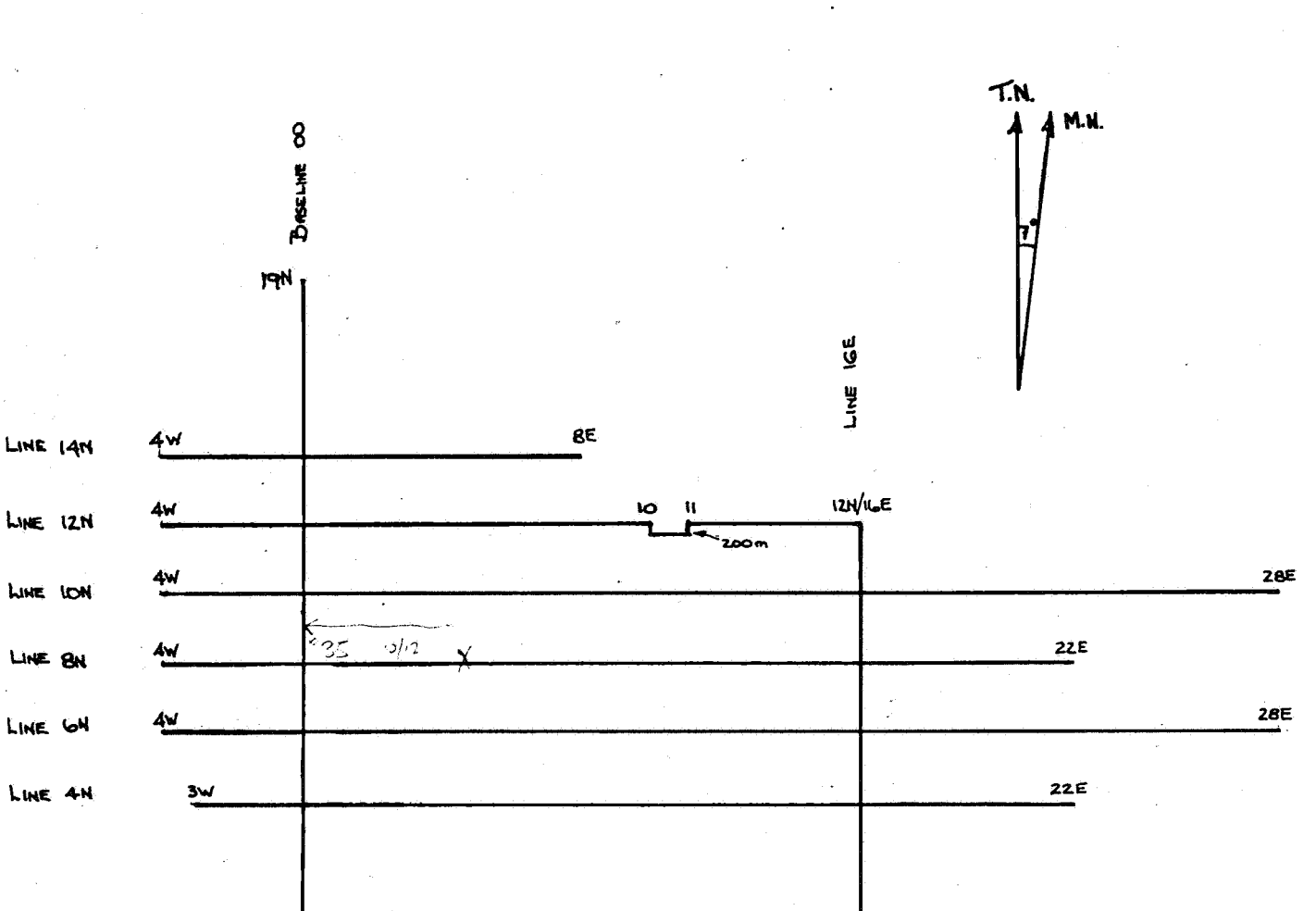

NEALES
Blanket Waterhole
(P.S.)
RIVER
50
19N
DIVIDING BLUFF
44
45
46
47
48
49
Little Perry Spring
LINE 14N
12N
10N
8N
6N
LINE 4N
Big Perry Spring
Limbunya
Creek
22E
Teemurrina Waterhole
LINE 00/00
16E
Wangkestarangana Waterh.
(P.S.)
George
Mussel Waterhole
Trig Waterhole
Creek
Brinkley Springs
Sunny
Creek
Douglas
Creek
Coolibah Lake


079 HALLIGAN
BAY
Creek
Douglas
Douglas
Creek
Coorichina Lake
Coobichina
Creek
RUBY HILL
William
Breakfast Time Creek
William Creek
Midway Dam
Toongamoona
Creek
Lake Cullara
Lake William
IRRAPATANA CAMP OUTSTATI
43
44
45
46
47
48
49
50
42
41
15'
136°30'
46000mE
45'


51
50
49
48
47
46
45
41
42
43
44
PRIMROSE HILL
Salt
RIVER
Creek
Laimbing
Peecherribirrina Waterhole
Outside Spring
The Vaughan Spring
Twelve Mile Spring
Fanny Springs
MT CHARLES
The Fountain Spring
Big Perry Spring
Little Perry Spring
Bulldog
Levi
Levi Spring
Hawker Springs
Hawker
Edith Spring
George
Mussel Waterhole
Trig Waterhole
Brinkley Springs
Tarlton Springs (I.D.)
Hope
Davenport
Loudon Springs
Douglas
Creek


RIVER
Creek
51
NEALES
Blanket Waterhole
(P.D.)
50
45
46
DIVIDING BLUFF
47
48
49
50
(P.D.)
49
Creek
Upham
48
Teemurrina Waterhole
Creek
Wangneerarangena Waterhole
(P.D.)
47
Sunny
Creek
46
HALLIGAN
BAY
Creek
45
Douglas
44
45
46
47
48
49
50

GRID PLAN E.L. 369



0 2 4 6 8 10 12 KM.

SCALE 1:200000

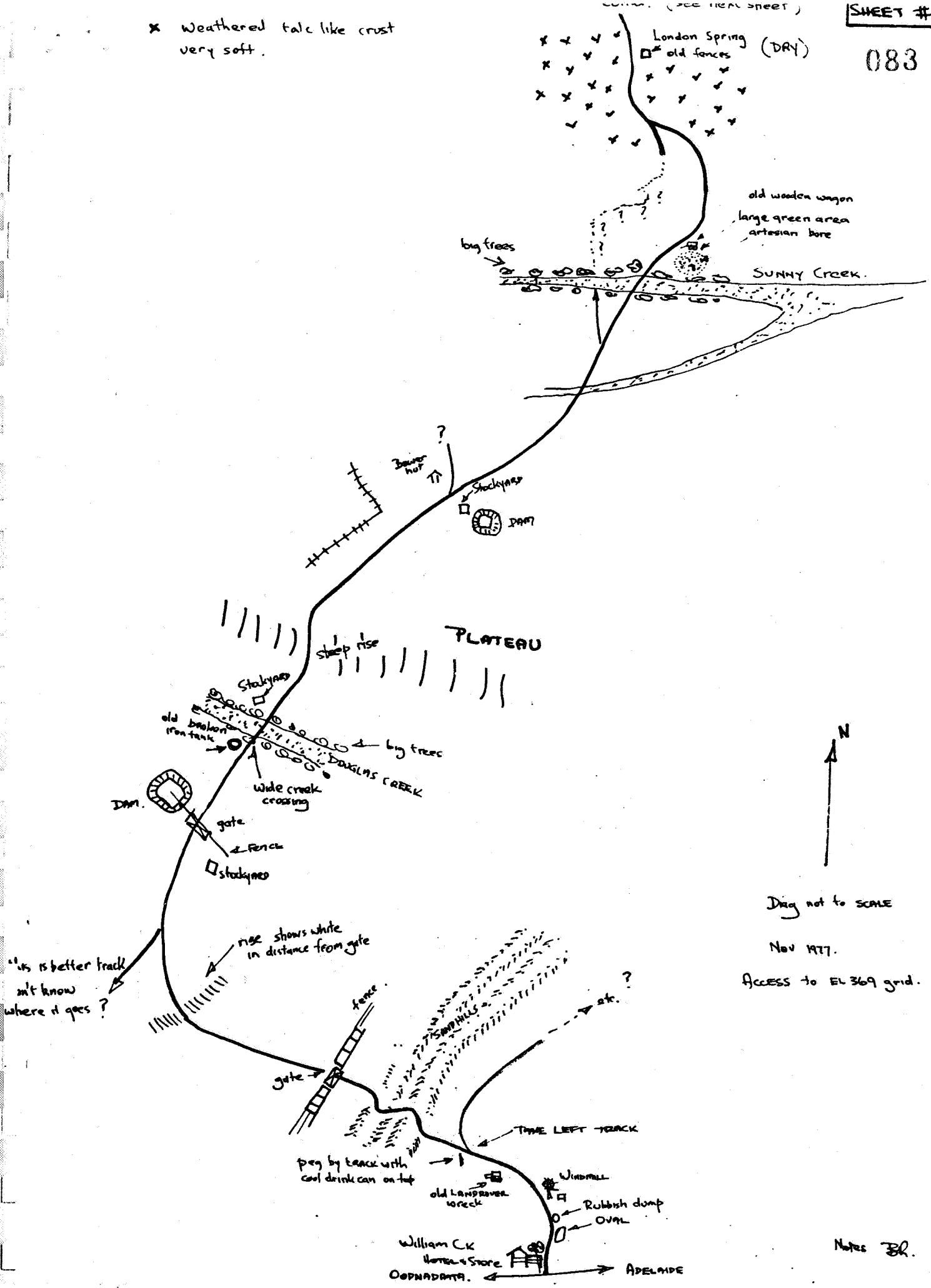
DATE NOVEMBER/DECEMBER 1977.

38

SHEET #1

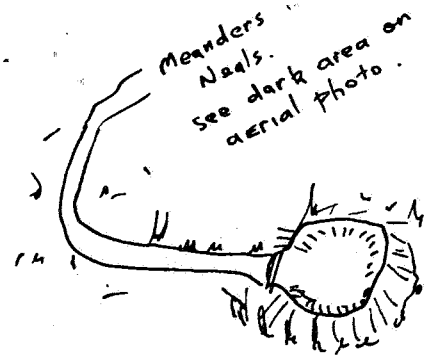
083

× Weathered talc like crust very soft.



Notes BR.

SEE LARGE 1:20000 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 PEAK STATION

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

cairn of stones

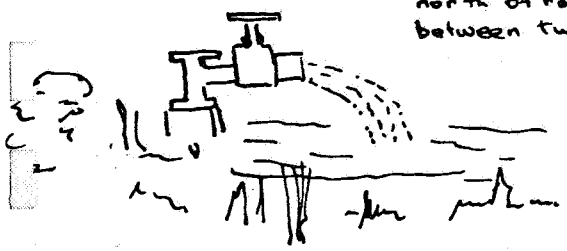
- old chimney (GRAVITY BASE #1 see prog)

our first campsite

stockyard

GEORGE CK

big trees



BORE.

DAWEN POET 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

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 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 = 0.0
	artesian bore about 250 m north of road, look for birds + cattle + green swamp to locate, easy to miss. see diag of bore.	0.4
	George Creek	1.8
	road junction, take right hand track,	
note:	track can become very indistinct from now on unless used regularly, follow carefully	2.5
	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	21.4
	stockyard	23.4
	Total.	76.5

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 100 m S.E of old stock yard, follow 1:20000 diag.

Nov 1977 JR.

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

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

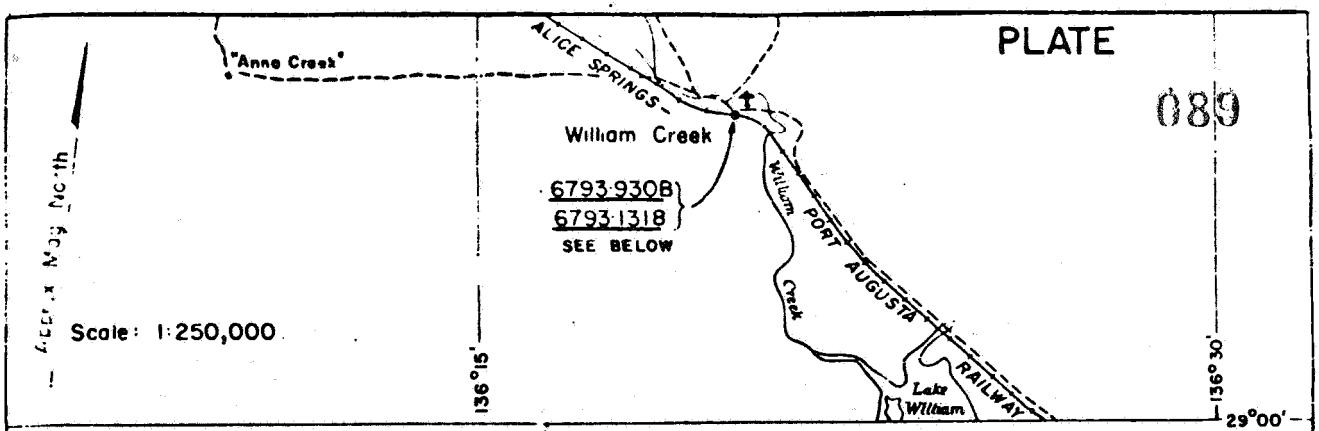
6. Add the product obtained in Step 5 to the Milligal value observed in Step 3. The sum thus obtained is the milligal value for the gravity station.

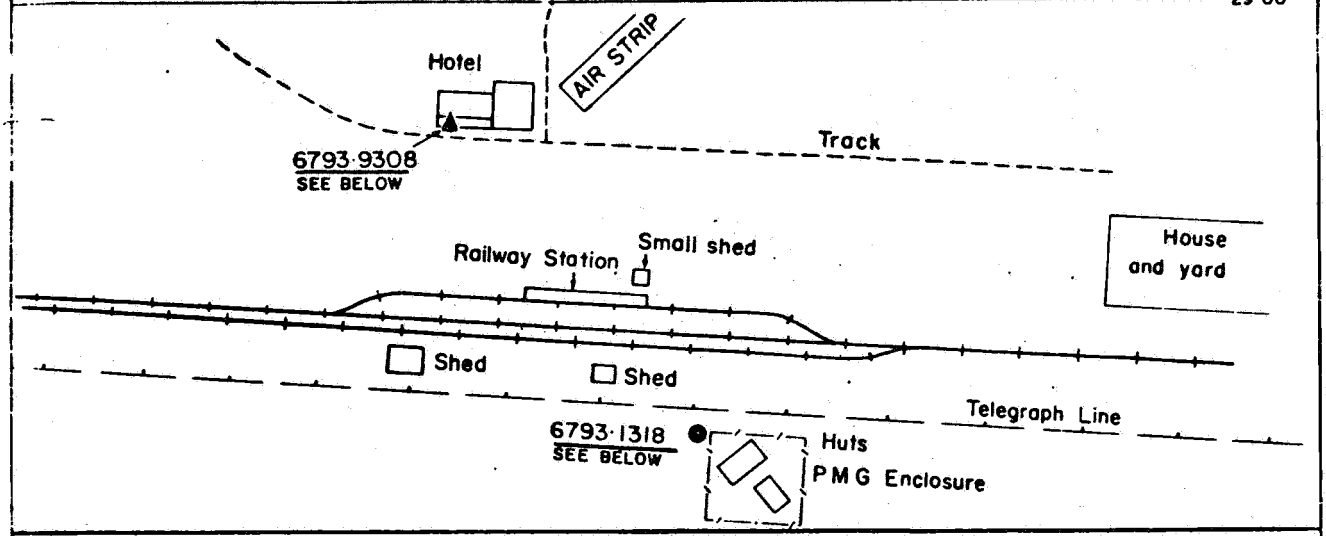
   2731.10 + 57.21 = 2788.31

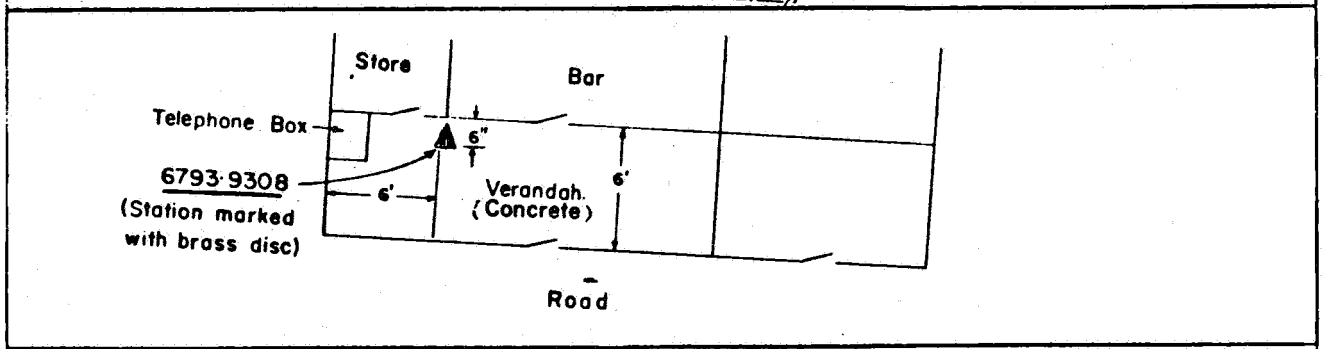
Example Table I

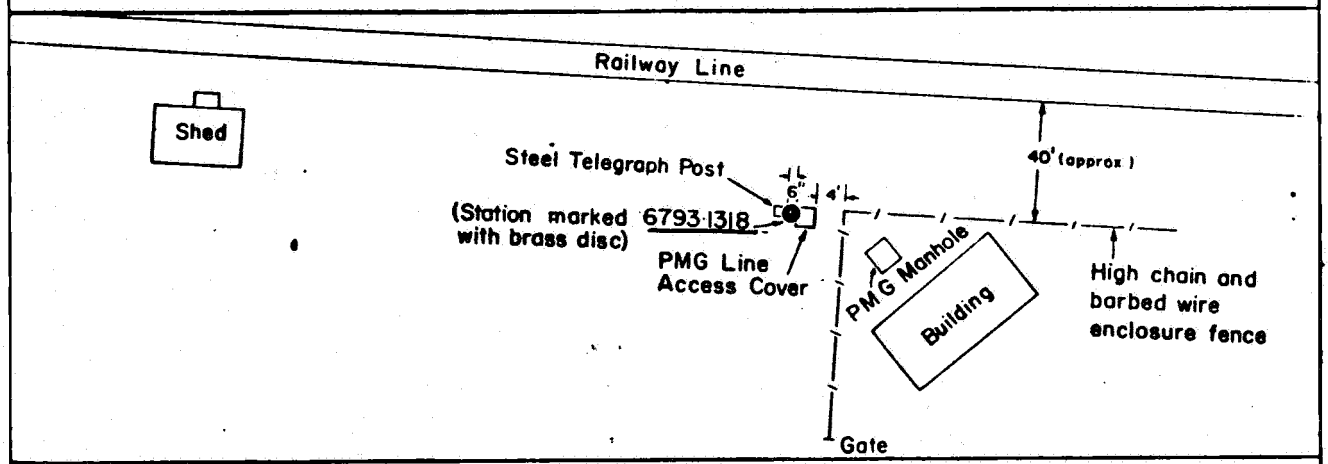
COUNTER READING	VALUE IN MILLIGALS	FACTOR FOR INTERVAL
2500	2625.88	1.05216
2600	2731.10	1.05239
2700	2836.34	1.05262

PLATE 089









S.: 1 : . Obs Grav (1111.y-1))..1

▲ Primary base 6793·9308 979 226 61 :

▲ Secondary base 6793·130? 979 226 3?

● 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

091

CLIENT: The BHP Co LTD
METER: LaCoste #37
AREA: EL369
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: 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 3	2723.91	1540	51.41			
BASE 4	2723.97	1600	53.64			
BASE 3	2723.91	1641	51.41			

Base ties shot 40 reg. 18/12/77

Notes:

BASE TIE EXTRACT (1)

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

092

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 Ham
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 3	2725.40	7[00]	51.41				
BASE 5	2724.25	8[56]	46.45				= 10000N / 10000E
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 without drift correction shows greater variation.

BASE TIE EXTRACT (2)

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

093

CLIENT: The BHP Co LTD
METER: LaCoste #37 U
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: Bkm
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}	—			

OC/860CN } 24/11/77
refer sheet (1)

OC/860CN } 5/12/77
refer sheet 17

Notes:

BASE TIE EXTRACT (3)

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: The BHP Co Ltd
METER: La Costa # 37 & 094
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: BRan
BASE LATITUDE:
DATE: 8/12/77

Station	Obs. Grav. s./divs.	Time	Elevn.	ρ_1 ρ_2 ρ_3 BOUGUER GRAV. ρ_1	ρ_2	ρ_3
BASE 2	2718.69	12^{05}	—			
BASE 1	2721.93	14^{28}	—			
WILLIAM CK	2746.65	16^{20}				
BASE 2	2719.0	20^{14}	—			

Refer sheet 22

} Base No. 6793.9308

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

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 sheets
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION: 7°E
OPERATOR: BRan
DATE: 24-11-77

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3	
BASE 1	2722.00	827	—				
(2)							
BASE 3 00 8600N	25.29	944	51.41				N BANK of CK,
85	26.11		47.83				CREEK BED
84	25.77	1011	49.70	✓			S BANK CK.
83	25.41	1021	51.29				
82	25.37	1028	52.16				
81	25.20	1035	53.38	✓			
8000	25.22	1041	53.64				Steel dropper
79	25.24	1049	53.70				
78	25.34	1055	53.54	✓			
77	25.42	1101	53.60				
76	25.55	1108	53.67				
75	25.70	1115	53.59	✓			
74	25.85	1120	53.60				
73	25.85	1126	54.11				
72	26.06	1132	53.71	✓			
71	26.09	1138	53.90				
7000H	26.25	1147	54.05				wood peg.
69	26.24	1157	54.41	✓			
68	26.34	1203	54.65				
67	26.48	1209	54.56				
66	26.48	1215	54.76	✓			
65	26.50	1221	55.05				
64	26.55	1227	55.59				
63	26.59	1234	55.85	✓			
62	26.75	1240	55.92				
61	26.79	1243	56.22				

Notes: VERY HOT

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

096 (2)

CLIENT: The BHP Co Ltd
AREA: EL 369
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: 7°E
OPERATOR: BRan
DATE: 24-11-77

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3	
6000 N	2726.79	1258	56.44	✓			Steel picket
59	26.86	1304	56.61				
58	26.85	13"	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	1408	59.37				@wood, pg 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	2604	1526	61.09				by CK ⊽
BASE 1	2721.87	1438	—				

Notes:

VERY HOT

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY 097

CLIENT: The BHP Co Ltd
METER: Lacoste #31
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.	P_1 P_2 P_3	BOUGUER GRAV.		
				P_1	P_2	P_3	
BASE 1	27 21.90	7^09	—				
00 3700N	26.25	8^26	60.66				
36	26.23		61.03	✓			
35	26.16	8^40	61.44				middle across CK.
34	26.20	8^48	61.45				
33	26.00	8^53	62.11	✓			
32	25.83	9^00	62.87				
31	25.59	9^05	64.24				
3000N	25.47	9^13	64.55	✓			survey peg
29	25.43	9^19	64.76				
28	25.26	9^24	65.64				
27	25.08	9^30	66.15	✓			
26	24.91	9^36	66.74				
25	24.73	9^43	67.57				
24	24.49	9^51	68.52	✓			
23	24.24	9^57	69.61				
22	23.97	10^03	70.55				
21	24.01	10^10	70.49	✓			
2000N	23.85	10^18	71.28				wood survey peg.
19	23.60	10^25	72.70				
18	23.72	10^32	72.33	✓			
17	23.65	10^38	73.18				
16	23.40	10^45	74.24				
15	23.20	10^52	75.19	✓			
14	23.25	10^58	75.35				
13	23.14	11^04	7593				
12	23.17	11^10	76.02	✓			
1100N	22.85	11^15	77.53				

Notes:

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: 00 + 00 DRIFT CORRECTION:
LINE MAGNETIC BRG: AREA MAGNETIC VARIATION:
BASE STATION: Base 1
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN: OPERATOR: BRan
BASE LATITUDE: DATE: 25-11-77

N/S
LINE 00
173°

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3	BOUGUER GRAV.		
				P_1	P_2	P_3	
00/1000 N	2722.58	1123	78.98				wood survey peg.
900	22.58	1129	80.26	✓			
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 + dead bush.
00/00	17.10	1231	100.00	✓			
00 E/W							
00/100 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	X			wood survey peg.
Base 1	2721.75	1505	—				

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY 099 (5)

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}	—			
00/8700N	24.93	11^{03}	52.77			
88	2490	11^{09}	52.81	✓		
89	24.86	11^{15}	52.93			
9000N	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}	52.73			
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			

~~Steel~~ ~~picket~~. Wood peg.

Steel picket + disc.

Edge large flat.

Notes:

Rain again today.

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY 100

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: Bhan
BASE LATITUDE:
DATE: 27/11/77

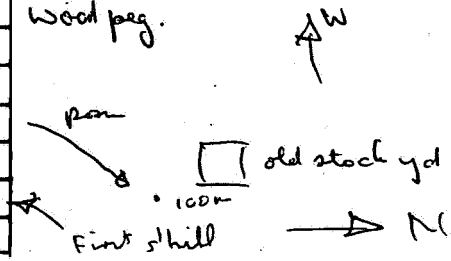
Station	Obs. Grav. s./divs.	Time	Elevn.	ρ_1 ρ_2 ρ_3 BOUGUER GRAV. ρ_1	ρ_2	ρ_3	
11400N	2724.22	1355	52.98				by track to s'yard.
115	24.07	1400	52.68	✓			
116	23.85	1406	52.37				
117	23.72	1411	52.27				
118	23.45	1419	52.50				
119	23.23	1425	52.34				
12000N	23.17	1434	52.17				steel pricket.
121	22.98	1441	51.79				
122	22.90	1447	51.40				
123	22.82	1452	50.67				
124	22.62	1457	50.62				
125	22.40	1502	50.40				sand hill "clumps"
126	22.15	1508	50.32	✓			CK
127	21.87	1513	50.47				op green tree
128	21.61	1517	50.91				
129	21.32	1522	50.54				
13000N	21.15	1529	50.49				
131	20.98	1535	50.32				
132	20.80	1540	50.17				11 water course
133	20.58	1550	50.22				across water from
134	20.42	1556	49.89				bore
135	20.23	1602	49.90				
136	20.04	1607	49.87				
137	19.68	1612	50.32				
138	19.70	1617	49.31				CK.
139	19.43	1623	49.65				
14000N	18.98	1632	49.98				new large tree
BASE 2	2718.73	1656	—				

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: The BHP Co Ltd
METER: Lacoste #51
AREA: EL 369
METER CALIBRATION: see sheets
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: BRam
BASE LATITUDE:
DATE: 2-12-77

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3	
BASE 2	27|18.71	827					
12N|100E	23.35	942	51.99				
2	23.45	949	51.81				
3	23.49	953	51.57	✓			near small ck
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	52.32				
1000W	21.89	1149	52.20				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 sheets
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 (dayfarn?)
19	20.83	1245	53.99				ck
20000W	20.56	1254	54.95				moved 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				
3000W	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 "mill" by road.
39	18.64	1533	56.78				moved 50m ⊥ to S as too much water in way
4000W	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: Naales 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: BRan
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						
18						
19						
2000E						

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

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: The BHP Co Ltd
METER: Lacoste -11 -71
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: 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
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			
1000W	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			
2000W	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			
2800W	22.14	1405	56.00			

400m south of here

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: The BHP Co Ltd
AREA: E.L 369
GRID: Neales River
LINE: 10000N
LINE MAGNETIC BRG: 263
BASE STATION: BASE 2
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:

METER: Lacoste #37
METER CALIBRATION: see sheet.
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION:

OPERATOR: BRan
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	
29000W	27 22.15	1410	55.67				
30000W	21.71	1416	57.57				Wood peg 1st sand dune
31	21.37	1424	59.0				yoke side of hill
32	21.25	1431	59.11				
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				
40000W	20.71	1515	57.48				peg. end of line
BASE 2	18.70	1650					

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: The BHP Co Ltd
AREA: EL 369
GRID: Neales River
LINE: 10000N
LINE MAGNETIC BRG: 83°
BASE STATION: BASE 2
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:

METER: Lacoste # 37
METER CALIBRATION: see sheets.
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION: 7°E
OPERATOR: BRam
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				boggy stopped 280E & found water.
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				
10 00E	26.53	940	51.89				wood 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	50.53				
19	26.42	1036	50.37				
2000E	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.

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: The BHP Co Ltd
METER: LaCoste #37
AREA: EL 369
METER CALIBRATION: per chart
GRID: Neales River
BOUGUER DENSITY:
LINE: 10000N
DRIFT CORRECTION:
LINE MAGNETIC BRG: 88°
AREA MAGNETIC VARIATION:
BASE STATION: BASE 2
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: ~~3-12~~ 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	
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	1244	49.02				Wood proj.
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	48.28				
49	24.53	1347	48.24				
5000E	24.37	1354	48.49				proj.
BASE 2	18.79	1457					

Notes:

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 ~~18.70~~ 24.24	~~844~~ ~~750~~	48.10				
52	24.17	850	48.22				
53	24.03	852	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	93[illegible]	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	49.44				
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 Unbeam.
78	22.47	1126	46.46				

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: The BHP Co Ltd
METER: LaCoste II37
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: ~~4-12~~ BRan
BASE LATITUDE:
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	
7900E	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	1206	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	41.44				
94	24.76	1211	40.75				Boggy walking Neales ck flood plain.
95	24.96	1230	40.13				
96	25.19	1254	39.60				edge Neales River channel.
97			41.26				
BASE 2	2718.76	1520					

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY 110 (16)

CLIENT: The BHP Co Ltd
AREA: EL 369
GRID: Neales River
LINE: 8000N
LINE MAGNETIC BRG: 263°
BASE STATION: Base 2
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:

METER: LaCoste #37
METER CALIBRATION: see sheet
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION: 9E
OPERATOR: BRan
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	2718.67	7[51]	—				
Base 3 00 8000N	25.20	8[15]	51.41				
8000N 00 8000W	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]	55.99				
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:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY 111 (17)

CLIENT: The BHP Co Ltd
AREA: EL 369
GRID: Neales River
LINE: 8000N
LINE MAGNETIC BRG: 263°
BASE STATION: BASE 2
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:

METER: LaCoste #87
METER CALIBRATION: see sheets.
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION:
OPERATOR: BRan
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	11^{42}	55.40			
27	24.15	11^{49}	55.88			
28	24.15	11^{55}	55.73			
29	24.10	12^{01}	55.57			
3000W	23.80	12^{06}	56.83			
31	23.81	12^{13}	56.06			
32	23.59	12^{18}	56.55			
33	23.43	12^{24}	56.56			
34	23.11	12^{28}	57.05			
35	22.88	12^{33}	57.39			
36	22.74	12^{38}	57.41			
37	22.62	12^{44}	57.62			
38	22.37	12^{50}	58.16			
39	22.18	12^{55}	57.98			
4000W	22.09	13^{00}	58.02			
BASE 2	2718.70	13^{45}	—			

Notes:

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 Ram.
BASE LATITUDE:
DATE: 6-12-91

Station	Obs. Grav. s./divs.	Time	Elevn.	ρ_1 ρ_2 ρ_3 BOUGUER GRAV. ρ_1	ρ_2	ρ_3	
BASE 2	2718.13	733					
17000W	18.43	745	50.79				wedge of track.
18	18.33	755	50.94				
19	17.93	8—	51.56				
20000W	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	16.08	900	55.66				
30000W	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				
40000W	15.48	1001	56.24				wood peg

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: The BHP Co Ltd
METER: LaCoste (1137)
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: 6-12-77

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3	
1600W	27 18.54	10^{26}	50.73				
15	18.73	10^{31}	50.33				parallel 10m to old fence east
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	11^{35}	49.56				
1000W	19.0	11^{40}	49.75				
00	—						steel peg.
1000E	19.01	11^{50}	50.14				ex. tracks
2	19.36	11^{55}	48.92				
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}	49.35				
7	19.76	12^{24}	48.50				
8	19.96	12^{32}	48.06	✓			
9	20.12	12^{37}	47.69				
1000E	20.11	12^{43}	47.75				

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: THE BHP CO. LTD
AREA: EL 369 LAKE EYRE WEST
GRID: NEALES RIVER
LINE: 14000 N
LINE MAGNETIC BRG: 83°
BASE STATION: BASE 2.
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:

METER: LACOSTE #137
METER CALIBRATION: PRICHARD
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION: 7°E
OPERATOR: B. RAU,
DATE: 6-12-72

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:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: The BHP Co Ltd
METER: LaCoste #1 37
AREA: EL 369
METER CALIBRATION: See sheet.
GRID: Neales River
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: B.Pa...
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 2	2718.69	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	824	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:

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 #37
METER CALIBRATION: PERCHART
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION: 7°E
OPERATOR: BRan.
DATE: 9/12/77

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^{12}	47.75			
44	22.63	10^{17}	48.09			
45	22.43	10^{24}	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^{16}	48.07			
58	21.59	11^{22}	47.98			
59	21.62	11^{26}	47.52			
6000E	21.49	11^{31}	47.38			
BASE 2	2718.69	12^{05}				
BASE 1	2721.93	11^{18}				
W/CK	2746.65	16^{20}				
BASE 2	2719.0	20^{14}				

wood peg.

BASE 2793.9308

Notes: See misc. detail sheet for William CK base loop.

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: 352°
BASE STATION: BASE No. 2.
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:

METER: LACOSTE #G-57
METER CALIBRATION: P-P. 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	830				
14100N	18.86	910	49.59			
142	18.94	915	48.72			
143	18.47	919	49.85			
144	18.43	924	48.94			
145	18.29	933	48.75			
146	18.09	937	48.73			
147	17.95	942	48.65			
148	17.71	947	48.54			
149	17.59	952	48.33			
15000N	17.37	958	48.18			
151	17.21	1003	48.12			
152	17.0	1009	48.05			
153	16.72	1015	48.17			
154	16.55	1019	47.50			
155	16.38	1023	47.87			
156	16.41	1030	46.57			
157	16.07	1036	47.13			
158	15.69	1042	47.06			
159	15.54	1048	47.06			
16000N	15.43	1053	46.77			
161	15.23	1058	46.57			
162	14.97	1103	46.82			
163	14.68	1109	46.83			
164	14.45	1115	46.76			
165	14.38	1119	46.32			
166	14.08	1124	46.55			

wood pcs

near track to Neales River
wood pcs

Neales River

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: The BHP Co LTD
METER: LaCoste (1127)
AREA: EL 369
METER CALIBRATION: pre-adj.
GRID: Neales River
BOUGUER DENSITY:
LINE: Baseline
DRIFT CORRECTION:
LINE MAGNETIC BRG: 356°
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	27 13.44	1129	48.24				
168	13.30	1134	48.39				
169	13.14	1140	48.14				
17000N	12.94	1145	47.66				wood peg.
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 peg.
181	10.79	1250	47.60				
182	10.48	1254	47.96				
183	09.42	1300	51.66				
184	08.94	1305	52.85				
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	54.42				
19000N	07.55	1333	54.45				wood peg
BASE 2	18.73	1435					

Notes:

V Hot. Track

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: THE B.H.P Co LTD
METER: LACOSTE # 32
AREA: EL 360
METER CALIBRATION:
GRID: Neales River
BOUGUER DENSITY:
LINE: 14000N
DRIFT CORRECTION:
LINE MAGNETIC BRG: 830
AREA MAGNETIC VARIATION: 7°
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					
2100E	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	48.79				
29	20.46	850	48.74				
3000E	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	46.90				
36	20.78	929	46.51				
37	20.82	933	45.97				
38	20.98	938	45.17				
39	20.92	944	45.14				
4000E	20.84	949	45.18				wood peg.
41	20.86	955	45.12				
42	20.89	1000	44.96				L45. Near green line + River Neales River
43	20.94	1005	44.66				—11—
44	20.88	1010	44.51				—11—
45	20.84	1015	44.35				—11—
46	20.85	1020	43.87				

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: THE BHP Co. Ltd
METER:
AREA: EL 369
METER CALIBRATION:
GRID: NEALES RIVER.
BOUGUER DENSITY:
LINE: 14000N
DRIFT CORRECTION:
LINE MAGNETIC BRG: 83°
AREA MAGNETIC VARIATION: 7°E
BASE STATION: BASE 2
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: Blair
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	
4700	2720.88	10 25	43·30				Riverbed Neales River
48	20.74	10 32	42.74				—11—
49	20.64	10 41	42.76				slimy bottom.
5000E	20.28	10 49	43·87				wood peg E edge river
51	19.92	10 54	44·85				
52	19.68	10 59	45·52				
53	19.53	11 05	45·71				
54	19.71	11 11	44·45				
55	19.72	11 15	44·54				
56	19.24	11 20	46·24				
57	18.90	11 25	47·57				
58	18.88	11 30	47·56				
59	18.86	11 36	47·56				
6000E	19.11	11 41	46·67				wood peg
61	19.04	11 45	46·49				
62	19.05	11 51	46·45				
63	19.08	11 56	46·37				
64	18.96	12 01	46·42				
65	18.98	12 05	46·35				
66	19.07	12 09	46·09				
67	18.97	12 14	46·09				
68	19.00	12 17	46·12				
69	18.95	12 22	46·38				
7000E	18.88	12 28	46·41				
7100	18.92	12 35	46·25				
72	19.03	12 48	45·92				
73	19.02	12 52	45·76				
74	19.04	12 57	45·80				

Notes:

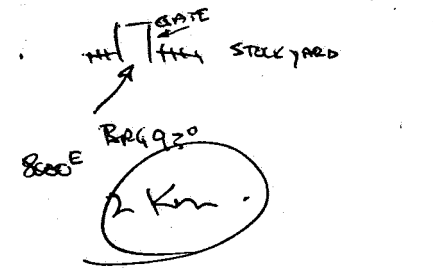
SOLO GEOPHYSICS AND CO. GRAVITY SURVEY 121

CLIENT: THE BHPCo LTD
AREA: EL 364
GRID: NEALES RIVER
LINE: 14000N
LINE MAGNETIC BRG: 83°
BASE STATION: BASE 2
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:

METER: LaCoste
METER CALIBRATION:
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION:
OPERATOR: BRan
DATE:

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3
7500E	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 stockyard



Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY 122

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: BKan

BASE LATITUDE: 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	
~~BASE 2~~	27 1892	8⁰⁶					
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				Neales River
68	22.30	9²⁶	41.49				—11—
69	22.01	9³²	42.51				—11—
7000 E	21.72	9³⁹	43.70				wood peg.
71	21.48	9⁴⁴	44.28				
72	21.33	9⁴⁹	44.40				
73	21.32	9⁵⁴	44.31				
74	21.34	10⁰¹	44.28				
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	43.09				
8000 E	21.34	10³¹	44.03				wood peg.
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				

Notes:

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°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				on 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:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY 124 (30)

CLIENT: THE BHP Co LTD. METER: LACOSTE #32

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

GRID: NEALES RIVER. BOUGUER DENSITY:

LINE: 4000N DRIFT CORRECTION:

LINE MAGNETIC BRG: 263° AREA MAGNETIC VARIATION: 30E'

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				wood peg.
11	25.96	9[49]	63.03				
12	25.83	9[54]	63.40				
13	25.67	10[00]	63.92				
14	25.21	10[10]	65.40				
15	25.05	6[16]	65.78				~~concrete peg~~.
16	25.30	10[22]	63.24				
17	25.39	10[27]	62.28				
18	25.29	10[32]	62.07				
19	25.22	10[41]	61.79				
2000W	25.28	10[47]	60.94				wood 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]	60.67				
25	24.90	11[12]	60.40				
2600W	24.85	11[17]	60.08				

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: THE BHP CO. LTD.
AREA: EA. 369.
GRID: NEALES RIVER.
LINE: 4000N → 6000N
LINE MAGNETIC BRG: 263°
BASE STATION: BASE 4
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:

METER:
METER CALIBRATION:
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION:
OPERATOR: BRam
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	
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}	62.73				
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.
9	27.68	13^{03}	53.43				down —
1000W	27.59	13^{12}	53.84				peg/wood, deep ck.
11	27.00	13^{19}	56.65				
12	26.91	13^{27}	57.19				
13	26.96	13^{32}	57.31				

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY 126

CLIENT: THE BHP CO LTD.
METER: LA COSTE # 37
AREA: EL 369.
METER CALIBRATION: PER CHART
GRID: NEALES. 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: 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:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY 127 (35)

CLIENT: THE BHP Co LTD
AREA: EL 369.
GRID: NEALES RIVER
LINE: 6000N
LINE MAGNETIC BRG: 263°
BASE STATION: BASE 4
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:

METER: LA COSTE # 37
METER CALIBRATION:
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 4	27 25.28	17 53					
2100W	27.66	18 16	53.76				
22	27.65	18 21	53.70				
23	27.63	18 30	52.92				
24	27.41	18 37	53.01				
25	27.22	18 43	53.43				
26	26.42	19 00	56.33				edg Umbum Ck + wks weatedge Umbum
27	26.15	19 07	56.79				
28	25.86	19 12	57.14				
29	25.68	19 16	57.00				
3000W	25.48	19 21	57.05				woodpeg.
31	25.21	19 26	57.55				
32	25.06	19 31	57.25				
33	24.81	19 37	57.27				
34	24.68	19 42	57.37				
35	24.60	19 47	57.13				
36	24.23	19 52	58.09				
37	24.08	19 56	58.18				
38	23.76	20 02	59.33				
39	23.32	20 08	60.49				
4000W	23.70	20 13	58.07				
BASE 4	25.43	20 31					

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY 128

CLIENT: THE BHP CO LTD.
AREA: EL 369
GRID: NEALES RIVER.
LINE: 12000N
LINE MAGNETIC BRG: 83°
BASE STATION: BASE 3
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:

METER: LA COSTE #37
METER CALIBRATION: PER CHART
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION: 7°E
OPERATOR: BRam
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
00/BASE 3	2725.38	8[42]				
11000E	23.14	9[31]	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]	46.07			
12000E	23.68	10[29]	46.37			
121	23.69	10[34]	46.13			
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]	45.90			
129	23.80	10[17]	45.78			
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]	45.58			
134	23.36	10[41]	45.73			
135	23.35	10[46]	45.53			

wood peg.

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: THE BHP. Co LTD. METER: LACOSTE #37

AREA: EL. 369, METER CALIBRATION:

GRID: NEALES RIVER. BOUGUER DENSITY:

LINE: 12000N DRIFT CORRECTION:

LINE MAGNETIC BRG: 330 AREA MAGNETIC VARIATION: 10°E

BASE STATION: BASE 2.

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	
13600E	2723.19	1159	45.45				
137	23.18	1200	45.32				
138	23.10	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	22.25	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				x
153	21.28	1330	44.17				v
154	21.32	1335	44.06				^
155	21.17	1340	43.95				x
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 2	25.19	1522					

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: THE BUP CO LTD
METER: LACOSTE #37
AREA: EX. 367.
METER CALIBRATION: PER MANUAL
GRID: NEALES RIVER.
BOUGUER DENSITY:
LINE: 10000N
DRIFT CORRECTION:
LINE MAGNETIC BRG: 83°
AREA MAGNETIC VARIATION: 0°
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.	ρ_1 ρ_2 ρ_3 BOUGUER GRAV. ρ_1	ρ_2	ρ_3	
BASE 3	27 25.40						
							Neale River
9700E	24.94	812	41.26				left peg on river escarpment @ 9730E
98	23.96	840	46.41				
99	24.07	847	46.64				
BASE 45 10000	24.25	856	46.45				wood peg.
101	24.28	901	46.65				
102	24.53	907	46.39				
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	45.99				
108	25.59	939	44.95				
109	25.69	945	44.48				
11000E	26.00	951	43.86				wood peg.
111	26.37	955	42.51				drainage channel top of escarpment.
112	25.62	1003	46.39				
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 water
117	26.38	1027	45.49				
118	26.36	1037	45.64				
119	26.46	1042	45.51				
12000E	26.40	1047	45.66				
121	26.45	1055	45.54				
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: BRan
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	2726.33	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	46.38				
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	45.82				
145	24.72	1256	45.75				tree
146	24.63	1300	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:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: B.H.P. CO. LTD
AREA: EL-369 LAKE EYRE 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: 14/2

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	23.89	1417	44.29			
159	23.82	1422	44.25			
16000E	23.72	1429	44.22			
BASE 3	24.86	1522				

numerous water peaks

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: PER 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	2725.05	8 08				
BASE NO 5						
10N/10E	23.96	844				
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 93			
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	43.16			
177	23.05	10 45	43.22			
178	22.84	10 52	44.07			
179	22.80	10 57	44.56			
18000E	22.73	11 07	44.74			
181	22.78	11 14	44.84			
182	22.73	11 19	44.82			
183	22.80	11 25	44.74			
184	22.82	11 30	44.60			
185	22.91	1137	44.14			

wood peg.

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: BHP CO LTD
AREA: EL-369 LAKE FYRE WEST
GRID: NEALES RIVER.
LINE: 10000N
LINE MAGNETIC BRG: 83°
BASE STATION: NO 3.
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:

METER: LACOSTE #37
METER CALIBRATION: TERCHART
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION: 7°E
OPERATOR: BRan
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	
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				
195	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	42.92				
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	43.16				
21000E	23.28	1411	42.80				
211	23.41	1418	42.51				
212	23.36	1424	42.56				
213	23.19	1429	42.59				

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: PF ROHART
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.	ρ_1 ρ_2 ρ_3 BOUGUER GRAV.		
				ρ_1	ρ_2	ρ_3
21400E	2723.10	14^{35}	42.62			
215		14^{40}	42.58			
BASE 3	2724.93	15^{56}				

bad seismic winds.

Notes:

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: BRa
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}	42.44				wood peg
221	22.13	10^{42}	42.32				
222	22.06	10^{48}	42.96				
223	21.90	10^{53}	41.88				
224	21.78	10^{59}	41.94				
225	21.63	11^{03}	41.88				
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}	42.09				wood peg.
231	20.75	10^{39}	41.89				
232	20.68	10^{43}	41.89				
233	20.51	11^{49}	41.84				
234	20.41	11^{54}	41.79				
235	20.20	11^{59}	42.02				
236	20.21	12^{04}	41.60				
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
AREA: EL-369 LAKE EYREWEST
GRID: NEALES RIVER
LINE: 10000E
LINE MAGNETIC BRG: 353°
BASE STATION: No 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: 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	12^{18}	41.32				
24000E	19.94	12^{26}	41.02				wood peg.
241	19.87	12^{51}	41.00				
242	19.88	12^{56}	40.89				
243	19.85	13^{00}	40.91				
244	19.76	13^{05}	40.96				
245	19.69	13^{10}	40.88				
246	19.57	13^{17}	40.88				
247	19.48	13^{22}	40.91				
248	19.37	13^{27}	41.16				
249	19.28	13^{34}	40.94				
25000E	19.32	13^{39}	40.30				wood peg.
251	19.26	13^{45}	40.05				
252	19.11	13^{50}	40.17				
253	19.05	13^{55}	40.11				
254	18.90	14^{00}	40.14				
255	18.81	14^{05}	40.03				
256	18.76	14^{10}	40.02				
257	18.64	14^{15}	40.04				
258	18.54	14^{20}	39.87				
259	18.52	14^{26}	39.75				
26000E	18.38	14^{32}	39.99				wood peg.
261	18.37	14^{38}	39.86				
262	18.35	14^{43}	39.74				
263	18.27	14^{48}	39.76				
264	18.16	14^{53}	39.83				
265	18.08	14^{58}	39.75				
266	18.11	15^{08}	39.66				TRACK ? BRG 146°

Notes:

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: TER CHART
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	
26700E	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	17·47	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:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: BHP CO LTD
AREA: EL-369 LAKE EYRE WEST
GRID: NEALES RIVER.
LINE: 16000E
LINE MAGNETIC BRG: 353°
BASE STATION: No. 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: 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	921					clashed 14E to 14E 10N 12N
BASE 5 10N/0E	23.74	1000					
16E/11900N	19.07	1043	44.47				
11800	19.53	1049	43.69				
11700	19.78	1055	43.54				
11600	19.94	1100	43.88				
11500	20.15	1107	43.61				
11400	20.28	1112	44.31				
11300	20.39	1119	44.60				
11200	20.45	1124	45.31				
11100	20.80	1129	44.68				
11000N	20.96	1135	44.77				wood peg.
10900	20.98	1139	45.23				
10800	21.24	1145	45.18				
10700	21.52	1150	44.72				
10600	21.75	1155	44.57				
10500	21.75	1159	45.05				
10400	21.88	1203	44.85				
10300	22.07	1210	44.53				
10200	22.25	1217	44.51				
10100	22.35	1222	44.67				
10000N	22.46	1230	44.81				head line 10N 15800E
9900	22.44	1236	45.22				
9800	22.53	1241	45.42				
9700	22.71	1245	45.29				
9600	22.66	1251	45.72				

Notes:

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: NO3
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	22.96	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	44.49				
8000N	23.78	1434	45.07				wood peg.
79	23.87	1439	45.09				
78	23.88	1444	45.18				
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:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: The B.H.P Co LTD.
AREA: EL-369 LAKE EYRE WEST
GRID: NEALES RIVER.
LINE: 16000E
LINE MAGNETIC BRG: 173°
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: B Ran
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						
67000N	2725.16	1541	44.74			
66	25.31	1545	44.93			
65	25.58	1550	44.68			
64	25.77	1556	44.69			
63	26.02	1602	44.79			
62	26.29	1607	44.61			
61	26.54	1611	44.58			
60000N	26.80	1616	44.56			
BASE 3	23.77	1716				
18/12/77						
BASE 3	23.87	835				
59000N	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			
50000N	31.39	1128	34.76			
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			
44000N	31.67	1250	37.41			

Down to Neales River

Neales River

Notes:

24.92
.1C

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: BHP CO. LTD
METER: LACOSTE #37
AREA: EL-369 LAKE EYRE WEST
METER CALIBRATION: 4 ½ 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	13[03]	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	1641				
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	45.23			
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 Co -70 METER: LaCoste [illegible]

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

GRID: NEALES RIVER. BOUGUER DENSITY:

LINE: 16000E DRIFT CORRECTION:

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

BASE STATION: BASE 4

BASE NOMINAL GRAV:

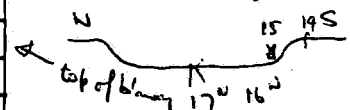
BASE NOMINAL ELEVN: OPERATOR: BRam

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
2500 N	27 31.72	12^{42}	43.63			
22	31.58	12^{47}	44.01			
21	32.53	12^{55}	40.35			
2000 N	31.81	13^{02}	43.61			
19	32.68	13^{14}	39.61			
18	33.03	13^{18}	37.85			
17	31.19	13^{26}	37.88			
16	32.81	13^{33}	37.55			
15	32.80	13^{45}	40.06			
14	31.86	13^{50}	44.57			
13	31.97	13^{59}	44.57			
12	32.01	14^{04}	44.65			
11	32.03	14^{08}	44.75			
1000 N	32.15	14^{15}	44.80			
9	32.54	14^{42}	43.88			
8	32.58	14^{47}	43.67			
7	32.61	14^{51}	43.99			
6	32.54	14^{55}	44.64			
5	32.42	15^{01}	45.62			
4	32.35	15^{06}	46.48			
3	32.39	15^{10}	46.80			
2	32.48	15^{15}	46.81			
100	32.32	15^{20}	47.37			
000 N	32.22	15^{25}	47.93			
1000 S	32.30	15^{30}	47.99			
2	32.38	15^{34}	47.95			
3	32.34	15^{39}	47.95			
4	32.30	15^{44}	48.12			

down b'away
wood peg.

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



wood 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	1658	46.78				
20000S	32.31	1703	45.55				wood peg end of line near creek 300m to south
BASE 2	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 #37
METER CALIBRATION: PER CHART.
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION: 7°E
OPERATOR: BRan
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	78.84				
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:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: THE BHP Co. LTD.
METER: LACOSTE # 37
AREA: EL. 369.
METER CALIBRATION: 1/2 CYCLE
GRID: NEALES RIVER
BOUGUER DENSITY:
LINE: 00 East
DRIFT CORRECTION:
LINE MAGNETIC BRG: 83°
AREA MAGNETIC VARIATION: 70E
BASE STATION: BASE 4
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: BRan
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:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY 147

CLIENT: THE BHP Co LTD
METER: LA COSTE # 37
AREA: EX. 369.
METER CALIBRATION: PER COURT
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: BRan
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	
6500E	2725.0	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				
7000	26.36	1556	61.28				wood peg.
BASE 4	27 24.40	1705					
BASE 4	24.34	857					
7100	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				
8000E	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				
86	25.29	1141	65.65				* seismic noise? repeat took break.
87							
88							

21-12-77

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

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY 148

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	825					
8600E	25.26	925	65.65				
87	25.53	928	64.68				
88	25.68	930	63.76				
89	26.0	933	62.57				
9000	26.30	936	61.62				
91	26.37	942	61.34				
92	26.29	947	61.79				
93	26.30	952	61.62				
94	26.44	957	61.05				
95	26.43	1001	61.17				
96	26.33	1006	62.04				
97	25.87	1012	64.37				up hill
98	26.06	1017	63.65				
99	26.24	1022	62.78				
10000E	25.89	1025	64.58				wood peg
101	26.54	1033	61.81				down hill
102	26.92	1038	59.81				
103	27.36	1044	58.37				
104	27.78	1048	56.91				CK
105	27.88	1054	56.71				
106	28.10	1058	55.84				
107	28.54	1103	54.65				
108	28.45	1108	55.43				
109	28.58	1113	55.04				
11000E	29.11	1118	52.76				wood peg CK
111	28.74	1124	54.56				
112	28.76	1128	54.53				
113	28.88	1133	54.18				steel picket + track

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: 7°E.
OPERATOR: PRam
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				CK
122	29.04	1245	53.42				
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

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	27 24.26	1706					
23/12/77 BASE 4	27 24.26	733					
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:

HOT

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: THE BHP. Co. LTD.
METER: LA COSTE # 37
AREA: EL. 369.
METER CALIBRATION: PER MAP
GRID: NEALES 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: BRain
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 & 37
METER CALIBRATION: [illegible] CHART.
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION: 7°E
OPERATOR: BRan
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.
METER: LACOSTE #37
AREA: EL 369 LAKE EYRE WEST
METER CALIBRATION: PER CHART 2700 RANGE
GRID: NEALES RIVER
BOUGUER DENSITY:
LINE: 8000N
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.RAO
BASE LATITUDE:
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	0800					
16000E	27 24.41	12.10	41.73				B/L.
15900	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				
14900	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	41.73				
200	24.24	12.50	41.89				
100	24.19	12.52	42.02				
14000	24.30	12.57	41.32				
14000E	24.40	13.00	42.32				
13900	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: 8000N
DRIFT CORRECTION:
LINE MAGNETIC BRG: 83°
AREA MAGNETIC VARIATION: 7°E
BASE STATION: No 5. 10000N/10000E
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: GRAV.
BASE LATITUDE:
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	
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	40.84				
700	24.95	15.06	40.33				
800	25.06	15.09	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	39.92				
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				
200	25.30	15.28	40.21				

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: BHP

AREA: [redacted] 369 [redacted] BYRE WEST

GRID: NGANES RIVER

LINE: 8000N

LINE MAGNETIC BRG: 83°

BASE STATION: NOS 10000N/6000E

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.	ρ_1 ρ_2 ρ_3 BOUGUER GRAV.		
				ρ_1	ρ_2	ρ_3
17800E	2729.30	15.70	40.20			—
900	25.34	15.34	40.24			
18000E	25.35	15.36	[illegible]			
[illegible]	25.30	15.38	40.29			
[illegible]	25.29	15.40	40.34			
[illegible]	25.26	15.42	40.35			
[illegible]	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	40.20			
[illegible]000E	25.49	16.01	40.01			
10N/10E	2727.10	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: NRALES 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.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3
A5 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: BHP. METER: LACOSTE #37

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

GRID: NEALES RIVER. BOUGUER DENSITY:

LINE: 8000N + 10000N. 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	1111	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:

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: NOS 100000N/100000E
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
19700E	2731.96	11.37	40.55			
600	31.94	11.79	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:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: BMP. METER: LACOSTE #37

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

GRID: NEALES RIVER. BOUGUER DENSITY:

LINE: 4000N & 6000N. DRIFT CORRECTION:

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

BASE STATION: No 5 6000N/10000E

BASE NOMINAL GRAV:

BASE NOMINAL ELEVN: OPERATOR: G. RAU

BASE LATITUDE: DATE: 25.12.71

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3	
16900E	2732.02	12.52	37.13				
800	32.20	12.55	36.49				
700	32.34	12.59	35.94				
600	32.49	13.03	35.05				
500	32.50	13.30	34.85				} NEALES 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				NEALES 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	14.47	42.39				
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				
▲5 6000N/10000E	2723.07	1552					

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

CLIENT: B.H.P.
AREA: EL 369 LAKE EYREWEST
GRID: NEALES RIVER.
LINE: 6000 N
LINE MAGNETIC BRG: 830°
BASE STATION: Nos 10000N/10000E
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:

METER: LACOSTE #37
METER CALIBRATION: PIER CHART
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION: 7°
OPERATOR: G 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
10000N/10000E	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	42.91			
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: PER CHART
GRID: NEALES RIVER
BOUGUER DENSITY:
LINE: 60000N
DRIFT CORRECTION:
LINE MAGNETIC BRG: 83°
AREA MAGNETIC VARIATION: 7°E
BASE STATION: N05 100000N/100000R.
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	45.02			
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: PERCHART
GRID: NEANES RIVER
BOUGUER DENSITY:
LINE: 60000 N
DRIFT CORRECTION:
LINE MAGNETIC BRG: 83°
AREA MAGNETIC VARIATION: 7°E
BASE STATION: No 5. 60000N/10000E
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 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: NOS. 10000N/10000E
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: GRAO
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
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.
AREA: EL 369 LAKE EYRE WEST
GRID: NEALES RIVER
LINE: 60000N
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°E
OPERATOR: GRAU
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			
2000	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	27.73	15.26	48.51			
16000E	27.68	15.31	48.35			
15900	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:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: BHP
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.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3	
N4 8N/00E	2724.35	0813					
2040E	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	34.82				EDGE OF FLOOD PLAIN
500	35.94	12.26	33.40				
600	35.88	12.32	33.48				
700	35.85	12.42	33.76				
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.
N4 8N/00	2724.24	17.11					

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: B.H.P.
AREA: EL-369 LAKE EYREWEST
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: PER CHART
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION: 7°E
OPERATOR: G RAU.
DATE: 28.12.77

	Station	Obs. Grav. s./divs.	Time	Elevn.	ρ_1 ρ_2 ρ_3 BOUGUER GRAV. ρ_1	ρ_2	ρ_3
Δ4	8N/00E	2724.30	0818				
	10100E	2723.53	0854	45.09			
	200	2723.59	0857	45.23			
	300	2727.63	0931	45.24			
	400	2723.67	0934	45.24			
	500	24.17	0941	43.33			
	600	24.29	0946	43.60			
	200	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	10.07	47.66			
	200	23.69	10.11	48.62			
	300	23.80	10.14	47.96			
	400	23.73	10.20	48.20			
	500	24.65	10.27	44.23			
	600	25.25	10.29	41.17			
	200	25.20	10.32	40.71			
	800	25.20	10.35	40.80			
	900	25.50	10.38	39.76			
	12000E	25.73	10.40	38.72			
	100	25.62	10.56	38.47			
	200	25.76	11.00	38.04			
	300	25.66	11.06	38.53			
	400	25.65	11.10	37.82			
Δ4.	8N/00E	2724.13	12.03				

SMALL HILLS.

↓ SAND DUNES → 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/00E

BASE NOMINAL GRAV:

BASE NOMINAL ELEVN: OPERATOR: G. FAU

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
8N/00E BASE 4	27729.20	735				
22000E	2735.65	1017	36.80			
22100E	2735.84	1024	36.09			
22200E	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	12.09	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. Kr.

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	37.90			
25400	2735.46	13.43	37.93			
25500	2735.43	13.47	37.90			
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	2735.37	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.	ρ_1 ρ_2 ρ_3 BOUGUER GRAV. ρ_1	ρ_2	ρ_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			
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 EYRE WEST
GRID: NEALES RIVER
LINE: 8000 N
LINE MAGNETIC BRG: 83°
BASE STATION: No 4. 8000N/600E
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:

METER: LACOSTE #35
METER CALIBRATION: PER CHART
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION: -/°E
OPERATOR: G. RAY
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
△ 8N/00E	2697.41	8:30				
5000E	2697.14	13:00	50.36			
4900E	2697.30		49.84			
4800E	2697.41		50.23			
4700E	2697.56		50.41			
4600E	2697.72		50.19			
4500E	2697.94		50.10			
4400E	2698.14		49.76			
4300E	2698.33		49.82			
4200E	2698.46		49.59			
4100E	2698.66		49.65			
4000E	2698.98		49.46			
3900E	2698.94		50.31			
3800E	2699.12		50.92			
3700E	2699.35		50.94			
3600E	2699.56		51.18			
3500E	2699.87		51.23			
X 3400E	2700.10		51.16			
X 3300E	2700.30		51.12			
X 3200E	2700.65		51.19			
X 3100E	2700.78		51.50			
X 3000E	2700.96		51.18			
X 2900E	2701.03		51.22			
X 2800E	2700.99		51.37			
X 2700E	2700.82	14:00	51.70			
X 2600E	2700.56		52.25			
X 2500E	2700.40		52.26			

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: BHP.
AREA: EL-369 LAKE EYRE WT SI
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 #H 35
METER CALIBRATION: PARCHAM
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION: 7°E
OPERATOR: G.RAU
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
X 2400 E	2700.[illegible]		51.70			
2300	2699.86		52.48			
2200 E	2699.69		51.92			
2100	2699.55		51.98			
2000	2699.47		52.10			
1900	2699.32		52.13			
1800	2699.28		51.89			
1700	2699.09		51.92			
1600	2699.01		52.12			
1500	2698.89		52.39			
1400	2698.82		52.16			
1300	2698.84		52.27			
1200	2698.81		51.85			
1100	2698.61	1440	52.35			
1000 E	2698.38	15.00	52.52			
900	2698.29		52.92			
800	2698.09		53.02			
700	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: B.H.P.

AREA: E.L. No 369 LAKE FYRE 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: G.RAU.

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
00E/8N	2697.24	7.30				
10000 E	2696.53	14:00	45.26			
9900	2696.53		45.32			
9800	2696.48		45.46			
9700	2696.41		45.62			
9600	2696.33		45.70			
9500	2696.14		45.75			
9400	2696.09		46.18			
9300	2695.94		46.87			
9200	2696.00		46.36			
9100	2695.95		46.34			
9000E	2696.13		46.14			
8900	2696.08		46.06			
8800	2696.19		45.87			
8700	2696.09		46.02			
8600	2696.17		45.89			
8500	2696.24		45.95			
8400	2696.28		46.27			
8300	2696.32		46.48			
8200	2696.36		46.72			
8100	2696.42		46.73			
8000E	2696.61		46.59			
7900	2696.70		46.39			
7800	2696.82		46.72			
7700	2696.76		47.70			
7600	2696.81	1500	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 #55
METER CALIBRATION: PEAK CHART
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION: 7°E
OPERATOR:
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
7300E	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			
No4 8N/00E	2697·38					

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: B.H.P. METER: LACOSTE #135

AREA: E.L. 369 LAKE FYRE WEST METER CALIBRATION: PER 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: G. 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
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		60.48			
D4	8N/00E	2698.23					

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: BHP.
METER: LACOSTE 41.35.
AREA: E.L. No 369 LAKE FYRE WEST.
METER CALIBRATION: FERCHART.
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: G. REID
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
A4	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		60·79			
	1900E	2699·58	1935	61·13			
A4	8N/00E	2698·58	2055				

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: B.H.P.
METER: LACOSTE #35
AREA: EL 369 LAKE EYRE WEST
METER CALIBRATION: PER CHART.
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: G.R.A.
BASE LATITUDE:
DATE: 13.12.

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV.		
				P_1	P_2	P_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	2696.88		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: B.H.P.
AREA: E.L. 369 LAKE EYRE WEST
GRID: NEALES RIVER
LINE: 6000N
LINE MAGNETIC BRG: 83°
BASE STATION: BASE 4 (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: G. R. M.
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	1515	57·30			
8N/00E	2698·48	16·10				

Δ4

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: BHP.

AREA: EL NO-369 LAKE EYRE WEST

GRID: NEALES RIVER

LINE: 6000N

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: G RAU

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
8N/00E	2698.66	6:45				
8100E	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			
9000E	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: EL-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: G.R.E.J
BASE LATITUDE:
DATE: 14/2/77

Station	Obs. Grav. s./divs.	Time	Elevn.	ρ_1 ρ_2 ρ_3 BOUGUER GRAV. ρ_1	ρ_2	ρ_3
10600E	2697.60	10.47	51.88			
700	2697.74	10.54	51.23			
800	2698.05	11.19	49.73			
900	2698.42	12.10	47.60			
[illegible]	2698.49	1500				

Δ 4

Notes: Station 10800 by edge of cliff.

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.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_3
4 8N/00E	2702.73	7.52				
1500E	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	44.03			
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			
1000E	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.		
1100E	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			
1400E	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			
1000E	01.30	14.51	60.42			

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: B.H.P.
METER: LACOSTE #35
AREA: E.L. No 369 LAKE EYRE WEST
METER CALIBRATION: PER CHART 2700 RANGE
GRID: NEALES RIVER.
BOUGUER DENSITY:
LINE: 6000N
DRIFT CORRECTION:
LINE MAGNETIC BRG: 830
AREA MAGNETIC VARIATION: 7°E
BASE STATION: A4 8000N 00E
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
OPERATOR: G.RAO.
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	
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				— CREEK.
400	03.86	16.16	50.89				
500	05.05	16.39	45.61				
600	05.00	16.45	46.08				
700	05.15	16.55	50.26				
A4 BN/00E	2702.65	17.51					

Notes: 13500E IN TRENCH (CREEK)

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: B.H.P.
AREA: EL-369 LAKE EYRE WEST
GRID: NEALES RIVER.
LINE: 4000N
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: G. RAU
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
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	2697·44	9·34	69·44			
1300	2697·24	9·40	70·42			
1400	2697·55	9·46	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	2896·14	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 EYRE WEST
GRID: NEALES RIVER
LINE: 4000 N
LINE MAGNETIC BRG: 83°
BASE STATION: No 4 8000 N/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: 15/12

Station	Obs. Grav. s./divs.	Time	Elevn.	P_1 P_2 P_3 BOUGUER GRAV. P_1	P_2	P_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	12·39	83·49			
300	2692·75	12·45	84·88			
400	2692·89	12·52	83·86			
500	2693·07	1300	82·48			
600	2693·21	1305	81·32			
700	2693·33	1311	80·36			
800	2693·23	1317	80·38			
900	2693·35	1326	79·41			
4000E	2693·50	1333	78·26			
100	2693·61	1340	77·43			
200	2693·52	1348	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	1427	74·99			
900	2694·14	1437	72·82			
5000E	2694·48	1445	70·85			
8N/00E	2698·52					

Δ_g

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

CLIENT: B.H.P.
METER: LACOSTE # 35
AREA: EL-369 LAKE EYRE WEST
METER CALIBRATION: PERCHART
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: GRAV
BASE LATITUDE:
DATE: 16/12/77

Station	Obs. Grav. s./divs.	Time	Elevn.	P1 P2 P3 BOUGUER GRAV. P1	P2	P3
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	1020	64·66			
5800	2696·56	1030	66·33			
5900	2695·90	1036	65·07			
6000E	2696·00	1043	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	2696·97	1235	63·53			
7700	2697·21	12·41	62·40			

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY

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: PER CHART
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION: 7°E
OPERATOR: G.RAU.
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
7800E	2697·42	1245	61·48			
900	2697·58	1253	60·79			
[illegible]E	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	1405	52·18			
8600	2699·34	1413	54·08			
8700	2699·33	1420	54·27			
8800	2699·15	1428	53·34			
8900	2699·73	1438	52·34			
X 9000E	2700·66	1455	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	1537	52·04			
X 9500	2700·17	1545	51·19			
9600	2699·89	1556	52·42			
X 9700	2700·08	1607	51·65			
9800	2699·85	1613	52·71			
9900	2699·77	1618	52·82			
10000E	2699·74	1625	52·81			
A 8N/00E	2698·51	1711				

Notes:

SOLO GEOPHYSICS AND CO. GRAVITY SURVEY 188

CLIENT: BHP
AREA: EL-369 LAKE EYRE WEST
GRID: NEALES RIVER
LINE: 4000N
LINE MAGNETIC BRG: 83°
BASE STATION: No4 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. RAU
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	
Δ4	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
* Δ4	8N/00E	2703.06	12.14					
*	10 100E	2704.22	12.49	52.40				
*	200	2704.23	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	12.56	50.11				
*	500	2705.08	14.02	50.57				
*	600	2705.00	14.08	51.12				

Notes: * RETURNED TO BASE AND STARTED AGAIN.

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: PER CHART 2700 RANGE
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION: 7°E
OPERATOR: G RAU
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
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	1502	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			
900	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:

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: 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. RAU
BASE LATITUDE:
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
×	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			
Δ4 ×	8N/00E	2702.72	18.35				

Notes:

EXPLORATION LICENCE 369

FINAL REPORT

APPENDIX 2

REPORT NO. 78/54 by LOWDER GEOSCIENCE

Lowder Geoscience 192

MERCURY GEOCHEMISTRY

SOUTH AUSTRALIA

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) 442787

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.

EXPLORATION LICENCE 369

FINAL REPORT

APPENDIX 3

GEOLOGICAL LOG OF WLE2

DRILL LOG LEDGEND

QUARTZ	Q
FELDSPAR	F
CHLORITE	Chl.
AMPHIBOLE	Amph.
MAGNETITE	mag.
PYRITE	Py.
RED SPOTS	×
FOSSIL WOOD	
BLEACHED	b
PEBBLES	
SANDSTONE	
SILTSTONE - MUDSTONE	
MAFIC AMPHIBOLITE	
PEGMATITE OR GRANITE	
QF GNEISS	
UNCONFORMITY	
BRECCIATION	
FOLIATION	
DISSEMINATED	diss.
VEIN	
CORE LOSS	

THE BROKEN HILL PTY. CO. LTD. Project. West Lake Eyre DRILL HOLE WLE 2

Location. Brinkley Springs Grid Coordinates, local. 12270E 16040N Geographical E. 136°21'48"

Angle of depression. Vertical Bearing (Mag.) S. 28°31'24"

Drill Co. D↑M↑E Driller. R Felby Drill type. Failing 1500 Commenced. 24 11 79

Sheet 1 of 3 Logged by M Raftt Completed. 14 12 79

Geology	Metres	Graph Log	Core Loss	Mud	fine sand	medium sand	coarse sand	Granule	Sed. struct.	Mineralisation	Sample No.	Analyses		
Yellow clayey siltstone,	10													
Dark grey shale chips and mud.	20													
"	30													
"	40													
"	50													
" (Plus Pyrite)	60													
"	70													
"	80													
"	90													
" (NB Shale contains fine sand)	100													
"	110													
"	120													
"	130													
"	140													
"	150													
	152													
Sandstone and Shale chips	160													
"	167													
	170													
Below 167m see core log.														

Notes

3" steel casing set to 167m.

Sampling on screens

Above 152m interpreted as Bulldog shale.

Below 152m as Algebuckina sandstone

THE BROKEN HILL PTY. CO. LTD. Project. West Lake Eyre DRILL HOLE WLE 2

Location. Brinkley Springs Grid Coordinates, local. 12270E 16040N Geographical E 136° 21' 48"

Angle of depression. Vertical Bearing (Mag.) S 28° 31' 24"

Drill Co. D↑M↑E Driller. R Feby Drill type. Failing 1500 Commenced. 24 11 79

Sheet 2 of 3 Logged by M. KAETZ Completed. 14 12 79

Geology	Metres	Graph Log	Core Loss	Mud	Fine sand	Medium sand	Coarse sand	Granule	Sed. struct.	Mineralisation	Sample No.	Analyses			
	165														
SANDSTONE. Brown silicified mg. Dark carbonaceous patches + minor fossil wood fragments.	167.35														
CONGLOMERATE. Pebbles of rounded qtz set in a siliceous matrix.	167.40														
SANDSTONE. Brown silicified minor carb.	168.00														
LOSS	170.00														
SAND. Clean unconsolidated well rounded mg qtz	170.80														
SANDSTONE. Brown rounded cg qtz + grit. Silica matrix. Trace carb + py.	171.25														
SANDSTONE. White friable mg qtz Brown sandstone, mg. Silic matrix, fossil wood 4mm	171.30														
MUDSTONE. Grey sandy, partly silicified.	171.80														
LOSS	173.30														
MUDDY SANDSTONE. Grey carbonaceous, micaceous fine-mg. sand, xb. and lenticular. Layers 1-5mm (50 115°/100°) occasional. Thin 10mm grit and pebbles.															
SANDSTONE. White mg sorted qtz with occasional qtz pebbles and grit bands (50 100°)	175.19														
SANDSTONE Grey f-mg qtz, cross laminae	175.75														
CONGLOMERATE. Pebbles to 3cm Fe Ox sand matrix Pebbles of cg st, hematite and gneiss. (50 100°)	176.13														
SILICIFIED GNEISS? Chlorite veins	176.6														
GNEISS. Bleached foliated Brecciated as above,	176.9														
Chloritic veins (S1 160°). Upper contact indistinct and gradational	178.3														
	178.5														
AMPHIBOLITE GNEISS Green foliated felds pathic and chloritic Brecciated with chlorite veins. (S1 160°)	180.25														
	181.00														
PEGMATITE K spar 40% qtz 40% Amphibole, chlorite epidote 18% Brown unidentified mineral 2% Brecciated with mm qtz chlorite veins.	182.3									PETROLOGY ONLY.	WLE2 181.8.				
AMPHIBOLITE Green foliated, 45% plag. 50% amph. 5% chlorite, epidote, mag qtz felspar veins 1mm-10cm 10% with chlorite margin. Note. The most prominant foliation is termed S1, this is a layer parallel schistocity also parallel to rock type contact therefore probably also S0 (S1 155°).											WLE 183.5	Cu ppm 100	P ppm <5	Zn ppm 50	Au ppm <0.05
	184.49														
3mm Calcite vein															
PEGMATITE qtz felds 50% mafics, epidote and chlorite 20%	187.3														
AMPHIBOLITE GNEISS S1 (155°) 10% QP veins < 1cm thick	188.45														
	190														

199

THE BROKEN HILL PTY. CO. LTD. Project. West Lake Eyre DRILL HOLE WLE 2

Location. BRINKLEY SPRINGS GRID Coordinates, local. 12270 E 16040 N Geographical E. 136° 21' 48"

Angle of depression. VERTICAL Bearing (Mag.) S. 28° 31' 24"

Drill Co. D & M & E Driller. R. Feeley Drill type. Failing 1500 Commenced. 24-11-79

Sheet 3 of 3 Logged by N. RAE Completed. 14-12-79

Geology	Metres	Graph Log	Core Loss	Mud	fine and modern	ore and gangue	Granule	Sed. struct.	Mineralisation	Sample No.	Analyses Cu ppm	Pb ppm	Zn ppm	Au ppm
Amphibolite Gneiss	190													
As Above										WLE2 191	25	<5	25	<0.05
Contact 155°	191.83													
QUARTZO FELDSPATHIC GNEISS 60% Q, 40% F, 10% biotite, 10% mag (S1 155°) expressed by biotite. Cp trace as patches up to 5mm in late Q									cp ± 0.5% mag ± 10%	WLE2 192.5	70	<5	10	<0.05
micro veinlets. Extremely hard drilling (S1 145°)										WLE2 193.3	45	<5	8	<0.05
										WLE2 193.6	810	<5	10	<0.05
									PETROLOGY SAMPLE	WLE2 193.9				
CHLORITIC fracture veins, "crackle type breccia", chlorite in veins 1-3mm 195-198 approx. 70 per metre, and again 199-201m (chl veins 170°-160°)									chl fractures					
QF veins about 3/m av 3mm wide, later than								193.6	cp + chl vein					
S1 and at 201 one vague example of QF vein cutting chl fracture vein (S1 145)								199.0	cp + mag frac vein					
Note: Tentative Paragenesis								200.4	cp + QF vein					
S1 (mag) - Chl fracture vein - QF + cp veins rare. Most magnetite is early in S1.								201.0	cp - QF vein					
	200													
										WLE2 201.0	20	<5	5	<0.05
Contact parallel to S1 145°	202.3													
Gneiss as above with 10% red spots 202.9-203.0 hematite, or garnets Some look like hematite haloes around magnetite	202.4								PETROLOGY ONLY.	WLE 2 202.9				
Gneiss + peg. Broken core, due to over coring														
(S1 140°)														
QF peg. 1cm vein (160°)	206.2 / 206.8							206.05	cp spec in chl high angle fracture vein					
Chl fracture vein below 201m only about 3/m at 170-160°														
Red spots 208-208.7										WLE2 208.7	40	<5	10	<0.05
End of hole 208.9														

Drilling Notes.

Extremely hard slow coring, maximum penetration achieved was 1.8m/hr. about 198-203m Bits only last for about 10m. Drilling with 4000psi hydraulic plus weight of string. Revs maximum 200 per minute. Bit type longyear stepped.

EXPLORATION LICENCE 369

FINAL REPORT

APPENDIX 4

PETROLOGY AND ANALYSIS OF CORE

Central Mineralogical Services

CMS

221 Main Road
Maylands, S.A. 5069
Telephone +2 5853

Mr. M. Raetz
Geologist
The Broken Hill Proprietary Co. Ltd.
G.P.O. Box 1818
ADELAIDE / S.A. 5001

15th January, 1980

REPORT CMS 79/12/40

YOUR REFERENCE:	Letter dated 18.12.1979 Order No. A 31722
DATE RECEIVED:	19th December, 1979
SAMPLE NOS.:	DDH WLE 2 - 10 Samples
SUBMITTED BY:	M. Raetz
WORK REQUESTED:	Petrology

H.W. Fander, M. Sc.

REPORT CMS 79/12/40

DDH WLE 2 Core Samples

Ten drill-core samples were received for petrological descriptions; thin-sections and five polished sections were prepared.

Many of the rocks are quite similar and are described as a group; in fact, all of them form part of a medium-grade metamorphic sequence believed to be of sedimentary origin, regionally metamorphosed to the upper greenschist or amphibolite facies, but showing retrograde metamorphism. The mineralisation is thought to be related to this retrogressive, low-temperature hydrothermal phase.

WLE 2/181.8 m (T.S. 30530)

Taken in isolation, this rock might almost be considered as igneous, because of its fabric; however, in the context of the others, it is believed to be a coarsely-crystalline lens or band. The rock consists dominantly of coarse (up to 15 mm) albite with unusual interpenetrating twinning and radiating textures. There are coarse, euhedral crystals of largely altered, actinolitic hornblende, and granular to acicular crystals of epidote.

A late-stage, low-temperature, metasomatic phase has selectively replaced the amphibole; it consists of chlorite and carbonate. The epidote is incipiently chloritised.

WLE 2/183.5 m, 191 m (T.S. 30531, 30532)

These two intersections are very similar, differing only in the degree of alteration. Both are altered amphibolites.

The intersection at 191 m is less altered and thus more clearly defined. The evidence indicates that it was a simple amphibolite composed of stubby small crystals of hornblende and polygonal grains of oligoclase. Subsequent to metamorphism, much of the hornblende was replaced by green biotite and the plagioclase was partly replaced by fine zoisite-epidote. Fine magnetite is present, thought to have been released by the conversion of hornblende to biotite.

The intersection at 183.5 m shows more advance alteration, with abundant carbonate in addition to epidote and chlorite. Both rocks show preferred orientation and rather granular fabric. Whilst they are regarded as of sedimentary origin, this interpretation is somewhat tentative,because there is no clear evidence concernin-g origin; perhaps the nature of the contacts may be helpful.

WLE 2/192.5 m - 208.7 m (T.S. 30533 - 30539, P.S. 30533 - 30537)

This is a very uniform series of quartz-albite-magnetite microgneisses, of sedimentary origin, which can be assigned to the upper greenschist/lower amphibolite facies of regional metamorphism.

The rocks are of simple composition and fabric; they consist of only two major minerals, albite and quartz, as fairly evenly-distributed, small, polygonal to interlocking grains; there is minor compositional banding, and occasional lenses and pockets of coarser albite masses. Magnetite occurs as subparallel streaks, accentuating the general preferred orientation of the fabric. Minor or accessory minerals include white, cloudy sphene, shreds of green biotite and occasional epidote patches; not all of these minerals are present in all specimens.

There are crosscutting (i.e. post-metamorphic) veinlets of dolomite, quartz, epidote/chlorite, and biotite/magnetite, as well as sulphides (with associated dolomite, quartz, chlorite). Rare grains of detritally-rounded zircon support a sedimentary origin for this sequence. The strongly sodic composition may reflect a soda-rich sediment, perhaps containing sodic clays.

The polished sections show that the dominant sulphide is chalcopyrite, generally as veinlets ranging from 0.02 mm to 2 mm in width, traversing the rock at various angles to the fabric orientation. Traces of pyrite accompany the chalcopyrite, and occasional bornite is present (as an alteration-product). The chalcopyrite is discontinuous in the veins. The walls of some veins have sharp margins; however, others show intergrowths between chalcopyrite and host-rock minerals.

The genesis is clearly of a low-temperature hydrothermal type, possibly linked withthe alteration seen in the first three cores (181.8 m, 183.5 m, 191 m).

H.W. Fander, M. Sc.

Red spots due to oxidation of relic pyrite.

The plate is unusual; possibly a product of alteration of sodic rich clays.

Magnetite can easily form during sedimentation, diagenesis or metamorphism in a sulphur deficient system.

Copy. for J. Smit. 204

Petrology of 50 mm samples from Nagaoa Hill collected by Doug Price.

Central Mineralogical Services

CMS

231 Magill Road
Maylands, S.A. 5069
Telephone 42 5659

Mr. D. Price
Senior Geologist
The Broken Hill Proprietary Co. Ltd.
G.P.O. Box 1818
ADELAIDE / S.A. 5001

20th June, 1979

REPORT CMS 79/6/15

YOUR REFERENCE:	Field Order No. A 26973
DATE RECEIVED:	7th June, 1979
SAMPLE NOS.:	1132, 1133, 1134
SUBMITTED BY:	D. Price
WORK REQUESTED:	Petrology

H.W. Fander.

H.W. Fander, M. Sc.

205

E-3 GP Final Rep.
Appendix 4

CENTRAL MINERALOGICAL SERVICES PTY. LTD.

Date 20th June, 1979

SAMPLE REPORT (Mineralogy, Petrology, Ore Microscopy)

IDENTIFICATION
1132
Pyroxene Hornfels

Job No. CMS 79/6/15 Date Received: 7.6.1979

Reference Field Order No. A 29673

Sample No. 1132

Nature of Sample: Hand Specimen

DESCRIPTION **SECTION No.** 27837

a. Hand Specimen:

Dark, medium-crystalline rock; distinctly magnetic.

b. Microscopic:

This rock is classified as a pyroxene hornfels and is a product of high-grade (i.e. high temperature) contact-metamorphism of a semi-calcareous sediment.

The major minerals, in order of abundance, are oligoclase, diopsidic augite, and biotite, with minor magnetite and quartz. The oligoclase occurs as small subhedral, poorly twinned crystals comprising about 60 % of the rock; pale diopside-augite (about 25 %) forms stubby subhedral crystals fairly evenly distributed and randomly orientated through the rock, and biotite (10 %) is present as sporadic porphyroblastic flakes up to 3 mm across, also randomly orientated. Magnetite crystals are dispersed through the rock as single crystals averaging 100-200 μ in size and as groups and occasional small poikiloblastic crystals enclosing oligoclase and pyroxene. Magnetite constitutes 3-4 % of the rock and is more or less evenly distributed.

The metamorphic fabric is compatible with a pyroxene granulite, i.e. a regionally metamorphosed rock, but the presence of biotite favours a contact-metamorphic origin.

H.W. Fander, M. Sc.

Location - Line 1 - 9700N - 6 lagoon Kiel grid.

CENTRAL MINERALOGICAL SERVICES PTY. LTD.

Date 20th June, 1979

SAMPLE REPORT (Mineralogy, Petrology, Ore Microscopy)

IDENTIFICATION
1133
Basalt

Job No. CMS 79/6/15 Date Received: 7.6.1979

Reference Field Order No. A 29673

Sample No. 1133

Nature of Sample: Hand Specimen

DESCRIPTION **SECTION No.** 27838

a. Hand Specimen:

Dark grey, fine-grained rock; distinctly magnetic.

b. Microscopic:

This is an amygdaloidal andesine-basalt (also known as hawaiite), i.e. a basalt with andesine instead of more normal labradorite; the rock is remarkably fresh, implying (but not proving) a young age.

The main com-ponent is pale brownish, granular to subhedral augite, comprising about 60 % of the rock; small, clear, fresh laths of andesine (25-30 %) occur interstitially, with random orientation. Fine, euhedral magnetite crystals (2-3 %) are sprinkled evenly through the rock; in view of the magnetic response of this rock, they must be fresh and unoxidised. Interstitial smallpatches of chlorite, and irregular, chlorite-filled amygdales, comprise the remainder of the rock (about 10 %) and represent a deuteric phase.

The fabric of the rock is uniform and lacks flow-banding or other orientational features; this suggests that it was intrusive rather than extrusive, but could be from the relatively undisturbed interior of a flow; this may be resolved from field-relationships.

H.W. Fander, M. Sc.

Northern peak of Lagoon Hill.

CENTRAL MINERALOGICAL SERVICES PTY. LTD.

Date 20th June, 1979

SAMPLE REPORT (Mineralogy, Petrology, Ore Microscopy)

IDENTIFICATION
1134
Hornblende-Granulite (or Hornblende-Hornfels)

Job No. CMS 79/6/15 Date Received: 7.6.1979

Reference Field Order No. A 29673

Sample No. 1134

Nature of Sample: Hand Specimen

DESCRIPTION **SECTION No.** 27839

a. Hand Specimen:

Dark grey, medium-crystalline rock; distinctly magnetic.

b. Microscopic:

This is a hornblende-granulite, but there is little difference between this rock and a hornblende-hornfels formed by contact-metamorphism; in both rock types, temperature is the dominant metamorphic agency, rather than pressure, and there is little to choose between the two types since the mineral assemblage is very similar. Thus, this rock resembles 1132, except that hornblende largely takes the place of biotite.

The major minerals are oligoclase, pale diopsidic augite, and dark brownish-green hornblende, in approximately equal amounts, with minor (3-4 %) magnetite and occasional apatite and quartz, as well as a few porphyroblastic patches of dark biotite. The minerals generally occur as subhedral grains forming a fairly uniform mosaic devoid of banding or other directional features; thus, the fabric is more characteristic of a hornfels.

The magnetite forms granular to subhedral crystals ranging from 20 μ to 300 μand averaging 150 μ; some are poikiloblastic, i.e. containing inclusions of silicates.

The metamorphic grade is the same, regardless whether the rock is classified as a hornblende-granulite or a hornblende-hornfels; if the rock is related to 1132, it should be termed a hornfels.

H.W. Fander, M. Sc.

Line 1 9700mN – Lagoon Hill Road.

Central Mineralogical Services

231 Magill Road
Maylands, S.A. 5069
Telephone 42 5659

Mr. M. Raetz
Geologist
The Broken Hill Proprietary Co. Ltd.
G.P.O. Box 1818
ADELAIDE / S.A. 5001

6th March, 1980

REPORT CMS 80/2/23

YOUR REFERENCE:	Field Order No. A 33944
DATE RECEIVED:	28th February, 1980
SAMPLE NOS.:	ADL 1604 A
SUBMITTED BY:	M. Raetz
WORK REQUESTED:	Petrology

H.W. Fander, M. Sc.

CENTRAL MINERALOGICAL SERVICES PTY. LTD.

Date 6th March, 1980

SAMPLE REPORT (Mineralogy, Petrology, Ore Microscopy)

IDENTIFICATION
ADL 1604A
Quartz-Epidote Rock

Job No. CMS 80/2/23 Date Received: 28.2.1980

Reference Field Order No. A 33944

Sample No. ADL 1604

Nature of Sample: D.D. Core

DESCRIPTION **SECTION No.** 30995

a. Hand Specimen:

Dark, finely-crystalline rock.

b. Microscopic:

This is a quartz-epidote rock with minor chlorite, and resembles the "epidosites" and "epidiorites" which are generally related to basic igneous rocks; it may be a type of vein rather than an altered intrusive.

The rock consists of a mosaic of fairly coarse, interlocking quartz crystals, with numerous small, euhedral epidote crystals showing random distribution and orientation; chlorite forms small subradiating aggregates, and there are occasional patches of cloudy, semi-opaque sphene.

Relict textures are absent, and if the rock represents a (say) replaced dolerite, the process was very thorough, obliterating all evidence of the pre-existing rock; thus, it is more likely to be a vein or similar body.

This rock may be related to WLE/2 at 181.8 m in a general way.

H.W. FAnder; M. Sc.

The Australian
Mineral Development
Laboratories

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

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

210

amdel

AC 3/4/2/0 - 2958/80

NATA CERTIFICATE

29 January 1980

REPORT COMPLETE

Mr M Raetz
The BHP Co. Ltd.
GPO Box 1818
ADELAIDE SA 5001

FROM LULE 2.

REPORT AC 2958/80

YOUR REFERENCE:	B180/500
IDENTIFICATION:	As listed
DATE RECEIVED:	19 December 1979

Enquiries quoting AC 2958/80 to the Manager please

D.K. Rowley
Manager
Analytical Chemistry Division

for Norton Jackson
Managing Director

dam

Pilot Plant: Osman Place
Thebarton S.A.
Telephone 43 8053
Branch Laboratory: Perth

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EXPLORATION LICENCE 369

FINAL REPORT

APPENDIX 5

WATER ANALYSIS OF WLE1

EL 369 FINAL REPORT APPENDIX 5.

05 SEP 1978 NMCL 212

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

.....

30TH AUGUST, 1978.

Mr Smith.

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

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.

LAKE EYRE WEST.

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 per MD.

B.P. Webb,
DIRECTOR-GENERAL

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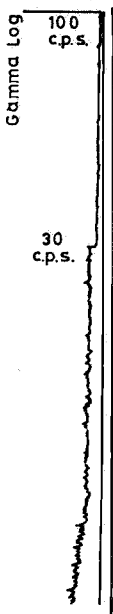


0 Sand & grit
4 Kahki shale
8

Dark grey shale Pine quartz & silt texture. Occasionally very slightly limey

Metres

50 -(Very fine less than 1mm disseminated pyrite)

(Pyrite as above)

100

(Minor fine sand mixture of quartz & black sand)

150 (Below 150m. gradually becoming a fine grained sandy shale)

(Limey shale +ve cold HCl reaction)

200 (199-201m limestone with pyrite in fractures & some quartzite)

-(215m thin limestone band)

Dark grey shale as above 150m.

-(237m. sandy)

-(241m. minor limestone)

250

- 267m. hard band

273

279

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.
$5\frac{5}{8}$" to 279m. cemented to surface.

Water:

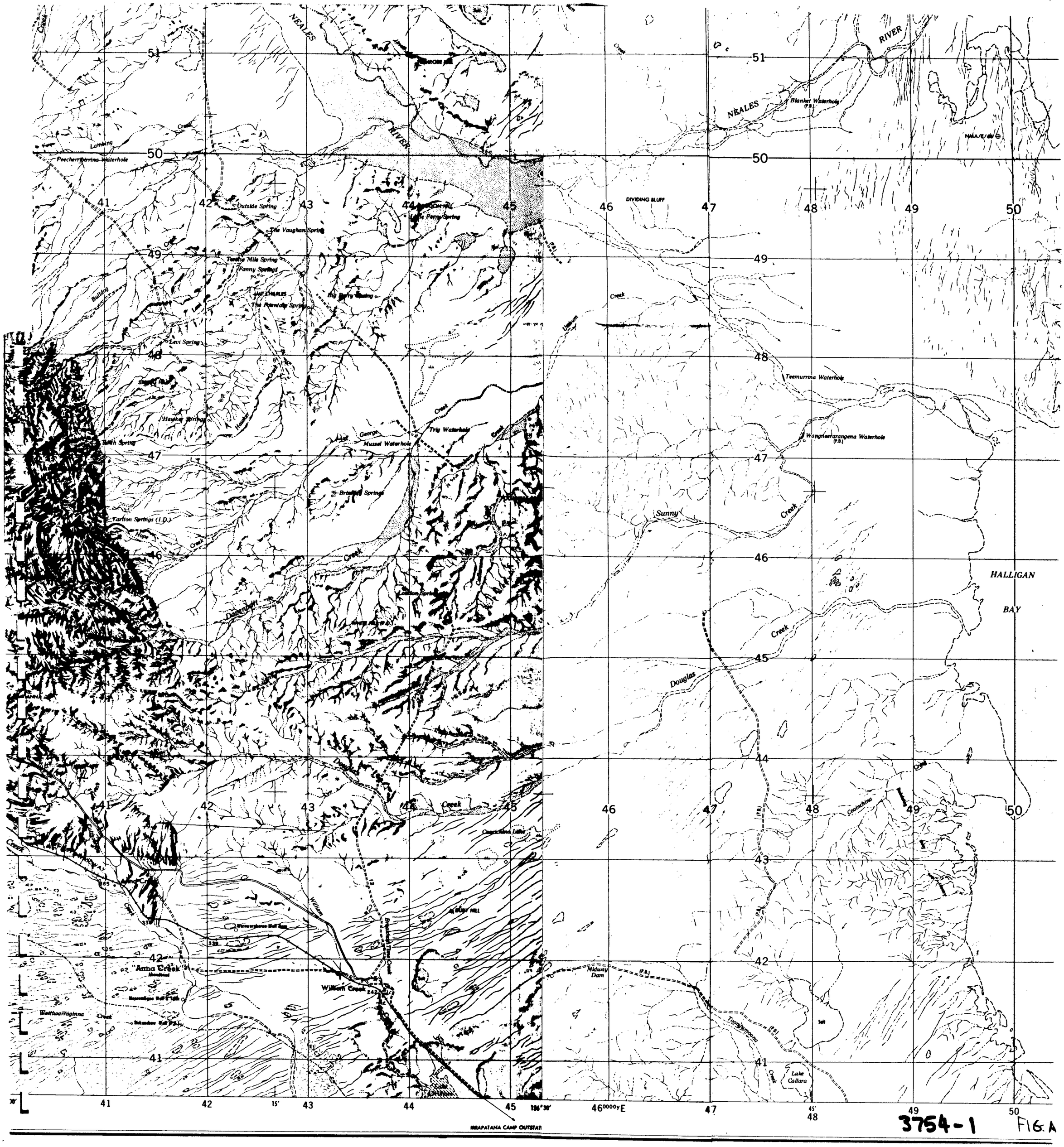
Artesian flow at 273m. Shut in pressure over 60 p.s.i.
Water sample sent to Mines Dept.

CADNA-OWIE FORMATION

ALGEBUCKINA SANDSTONE

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

A4- 2


NEALES
RIVER
Blanket Waterhole (P.B.)
Peechenberrina Waterhole
Outside Spring
The Vaughan Spring
Twelve Mile Spring
Fanny Springs
Mt. CHARLES
The Fountain Spring
Levi Spring
Big Perry Spring
Little Perry Spring
DIVIDING BLUFF
Creek
Teemurrina Waterhole
Wangneetarangena Waterhole (P.B.)
Hayley Springs
Bath Spring
George
Mussel Waterhole
Trig Waterhole
Tarlton Springs (I.D.)
Hope
Creek
Danenbum
Sunny
HALLIGAN
BAY
Douglas
Coolnahina
Coolnahina Lakes
William
William Creek
Anna Creek
Wertuwarragina
Midway Dam (P.B.)
Toonyarnoona (P.B.)
Lake Callara
Salt
MIRAPATANA CAMP OUTSTATION
136°30'
46°00'00"E

3754-1 FIG. A

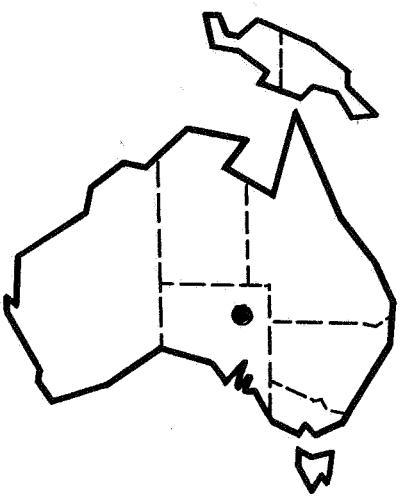
[redacted]

C. R. _____

214

Exploration Department

EXPLORATION LICENCE 369
AND
EXPLORATION LICENCE 583
WEST LAKE EYRE, SOUTH AUSTRALIA
FINAL REPORT
APPENDIX 1 VOL. 2



CR 2151

Exc. 3757(iii)

215

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

AREA: E.L. 369 LAKE EYRE WEST

GRID: BRINKLEY SPRINGS

SURVEY: MAGNETICS

DATE: APRIL AND MAY, 1979

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

SEE PART II FOR GRAVITY INFORMATION.

CONTENTS

217

1. REPORT

2. APPENDIX

3. GRID MAP (1:100000)

4. CULTURAL GRID MAP (1:250000)

5. MAGNETICS FIELD SHEETS (as per below)

6. MAGNETICS LINE PROFILES (as per below)

LINE NUMBERS

10000E	13000N	to	28000N	BRG	$353\frac{1}{2}^{0}/173\frac{1}{2}^{0}$
14000N	5000W	to	18000E	BRG	$83^{0}/263^{0}$
16000N	4000W	to	17000E	BRG	$83^{0}/263^{0}$
18000N	3000W	to	16000E	BRG	$83^{0}/263^{0}$
20000N	3000W	to	15000E	BRG	$83^{0}/263^{0}$
22000N	3000W	to	15000E	BRG	$83^{0}/263^{0}$
24000N	3000W	to	13000E	BRG	$83^{0}/263^{0}$
26000N	2000W	to	13000E	BRG	$83^{0}/263^{0}$

Separate cover, original field sheets.

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

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

218

DATE: APRIL and MAY, 1979

- - - - - - - - - - - - - - -

A combined survey of 206 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 kilometres north of William Creek and south 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-existent 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.

Three 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 three inches of rain experienced during the survey period. Two 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 20°C to 34°C, averaging about 30°C.

The Survey:

Two four-wheel drive vehicles and a large trailer were used to mobilize food supplies and petrol from Adelaide to the area.

One base camp was used for all survey areas as frequent rain made it impossible to move a load across country nearer to the northern grid. Severial periods of thunderstorm activity made access to the grid impossible for about one week. Thereafter, the ground was very wet and unstable, and survey progress was slow. Eventually, by working long hours, the crew completed the area and

2...

departed during the build up of another storm, which completely flooded the grids again.

A grid was established by using special calibrated odometers in the vehicles for distance measuring. Gridding at 300 meter intervals was done simultaneously with magnetics gravity and levelling. The base line was established in a true north-south direction using the George Creek intersection with a proposed grid line as the origin. This point by scale distance was 23400N on base line 10000E. This line was continued south to point 13000N and northward from 23400N to 28000N. Steel pegs were placed at origins of each line and white painted pegs at intermediate 300 meter intervals. The baseline has a bearing of $353\frac{1}{2}^{o}/173\frac{1}{2}^{o}$ magnetic. Grid lines were then established east and west from this line at a bearing of $83^{o}/263^{o}$. The baseline was optically sighted due to large magnetic deviations in the area.

The lines are	14000N	from	5000W	to	18000E
	16000N	from	4000W	to	17000E
	18000N	from	3000W	to	16000E
	20000N	from	3000W	to	15000E
	22000N	from	3000W	to	15000E
	24000N	from	3000W	to	13000E
	26000N	from	2000W	to	13000E
	10000E	from	13000N	to	28000N

Magnetics Survey:

Measurements were taken at a 100 metre station interval along all survey lines using two Scintrex MP-2 proton magnetometers. A sensing head height of 2.5 metres above ground level was used to give good resolution especially in regions of strong magnetic gradient. A compass deviation of 5^{o} - 10^{o} was observed over these large gradients of 800nT per 100 metres.

A main base at 26000N 13000E was established for 57371nT on Brinkley Springs grid, and was the origin for all magnetic levels during the survey. A series of bases were carried along the grid baseline to each crossline and further sub-bases coincided with gravity base loops along each line.

Data Presentation:

All field data was corrected for diurnal drift during each loop and corrections completed on the field sheets. Line profiles of corrected data at 1:50000 scale and 1 cm = 500nT vertical were produced in the field.

Summary:

The combined Brinkley Springs, Lagoon Hill survey took a period of six weeks to complete 206 line kilometres. The first grid was completed in two weeks, however, thunderstorms and flooding reduced progress when access was impossible for over one week to the latter grid. In dry weather two weeks would have been sufficient to complete the area.

for SOLO GEOPHYSICS AND CO.

B. A Rau.

BRIAN RAU
MANAGER

APPENDIX

Communications:

A telephone is available at the William Creek Hotel-Store. Anna Creek homestead has a regular radio schedule at 7:45 a.m., 11:45 a.m., 6:45 p.m. using Flying Doctor Radio frequency 2020, Dick Nunn the manager. R.F.D.S. at Port Augusta is available for operators of equipment on their frequencies 4010 and 6890.

Petrol and Food:

Petrol is available from pump or bulk in 44 gallon drums from William Creek. Fresh food supplies not carried at William Creek store, very limited stock. Can be ordered by telephone from Maree and delivered by train. Fresh meat available from Anna Creek.

Water:

Three hot flowing artesian bores are on the grid area plus numerous hot springs. All surface water can be assumed to be saline. Mussel waterhole in Davenport Creek had a good supply of water after creeks stopped flowing. The main Neales River was almost fresh water, but not easily accessible to water-trucks. Dams in the area were all full after the rains. See diagram for location of bores and dam.

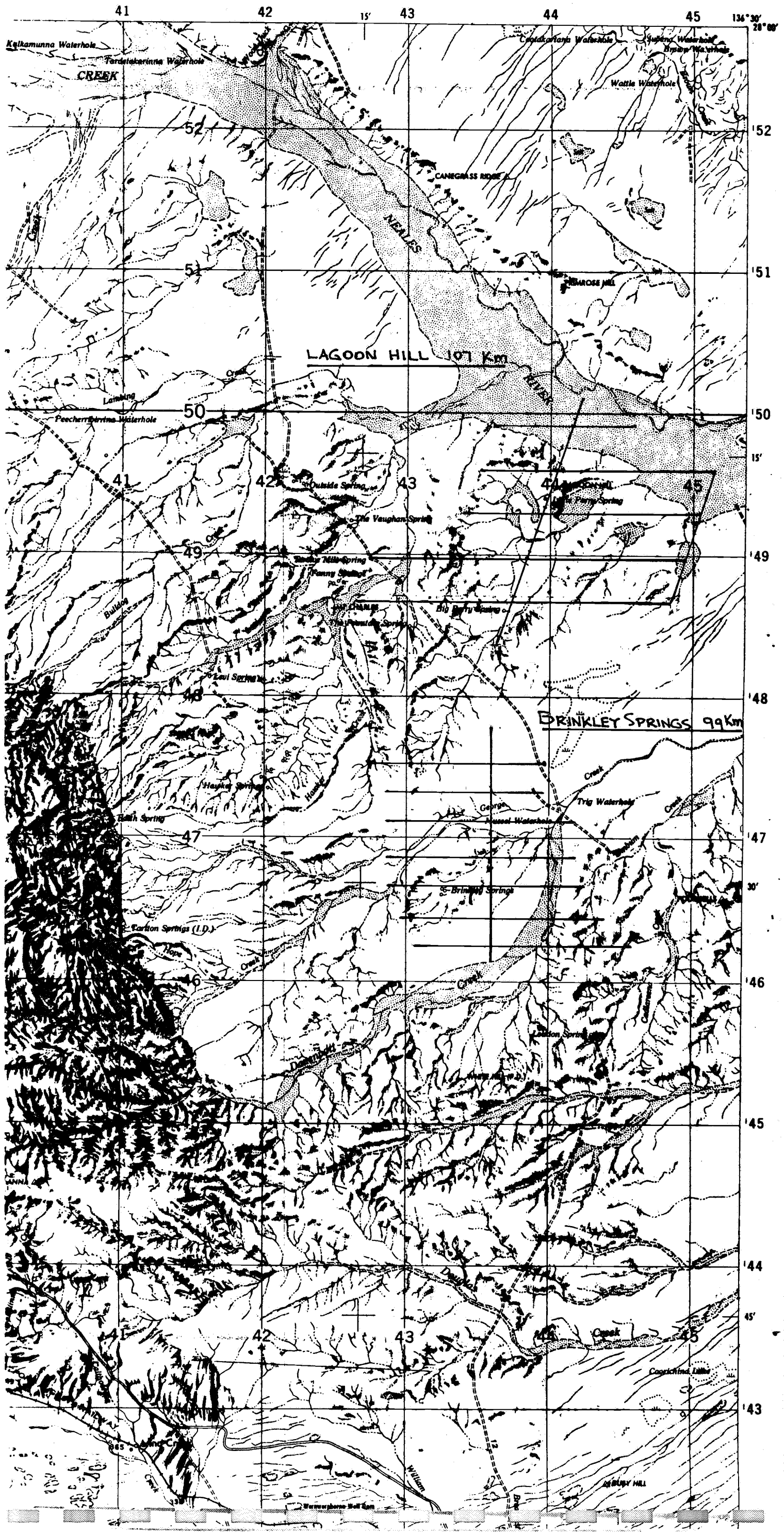
Access:

Access to grid area is by station tracks from William Creek as described in the notes. However, sandy creek crossings may not be easily negotiated by heavy drill trucks unless some preparation of the track is made.

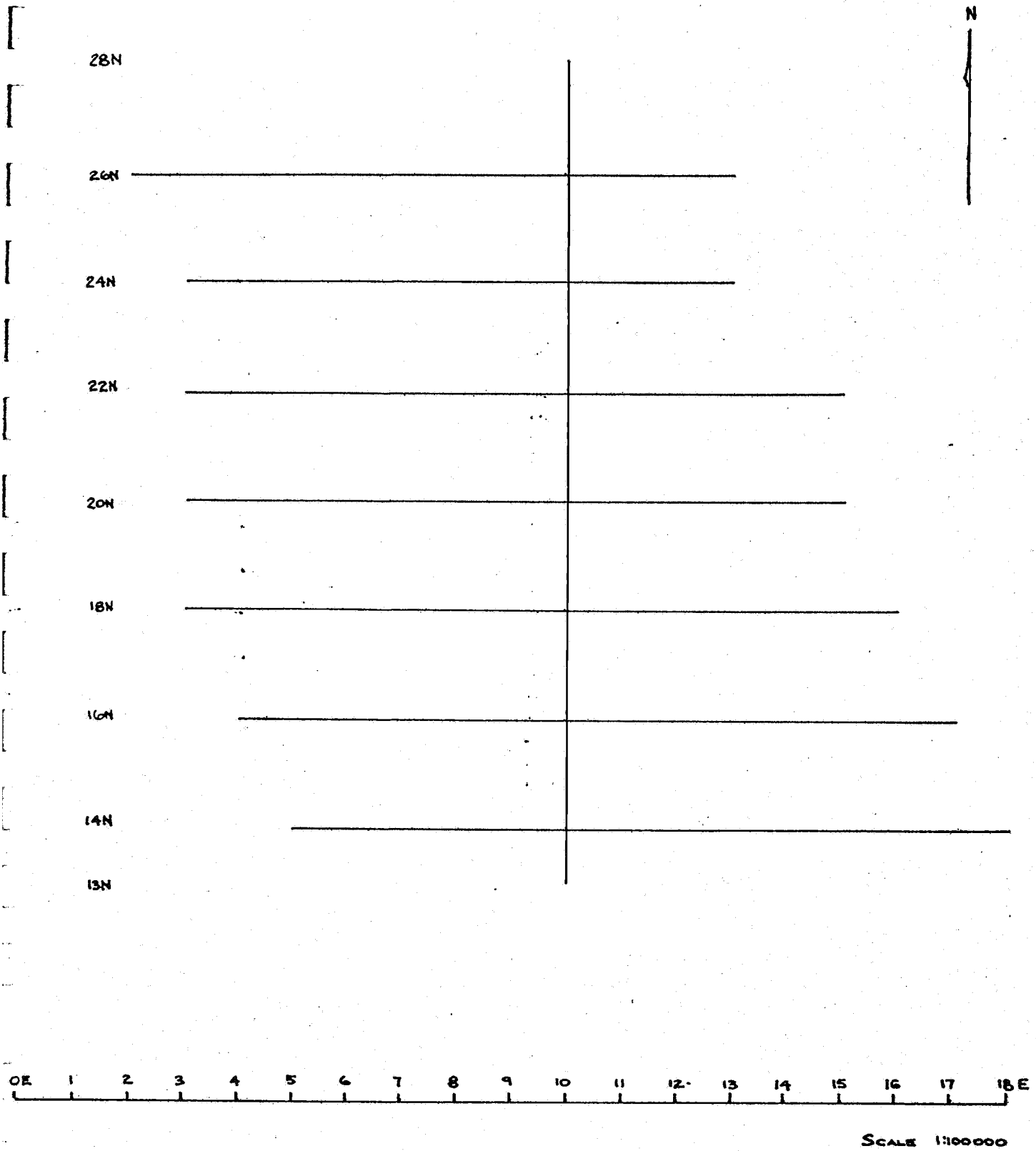
Grid access across country is more difficult as there are numerous small creeks and very soft surface soils to negotiate. Heavy vehicles would bog in this soil and grading would not be very successful as there seems to be no bottom to it. If the vegetation supports the topsoil after the rain, access may be better.

Surveyors and Equipment:

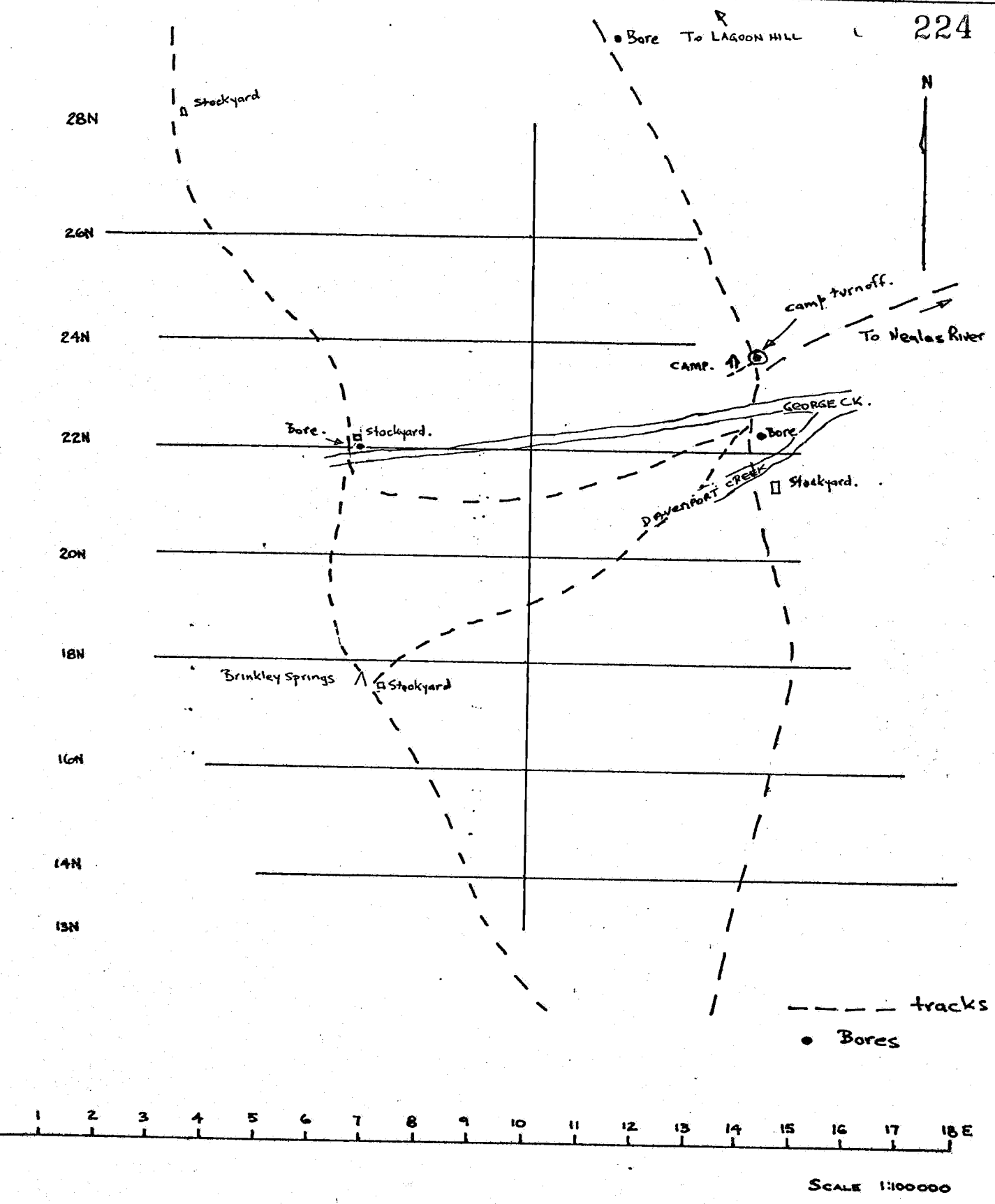
Two crews operated in the grid area. Personnel were Brian Rau, Charles Collogan, Phillip Rundle and John Gowland. Two Nissan Patrol four-wheel drive vehicles were used. Tents, camping equipment, lighting generator, deep freezers, R.F.D.S. two-way radio, water and food were necessary to support the crew in this isolated area. Two La Coste and Romberg temperature compensated gravity meters, No. G35 and No. G505 were used. Two precision automatic Sokkisha B-1 levels were used and staffs for optical levels.


41
42
15'
43
44
45
136°30'
28°00'
Kalkamunna Waterhole
Tardatakerinna Waterhole
CREEK
Wattle Waterhole
52
CANEGRASS RIDGE
NEALES
51
LAGOON HILL 107 Km
RIVER
50
Peecherrtarrina Waterhole
15'
41
42
43
44
45
Outside Spring
The Vaughan Spring
49
Bulldog
48
BRINKLEY SPRINGS 99Km
Trig Waterhole
47
30'
Carlton Springs (I.D.)
46
45'
Creek
William
Warrenpberra Well 6m
145
144
143

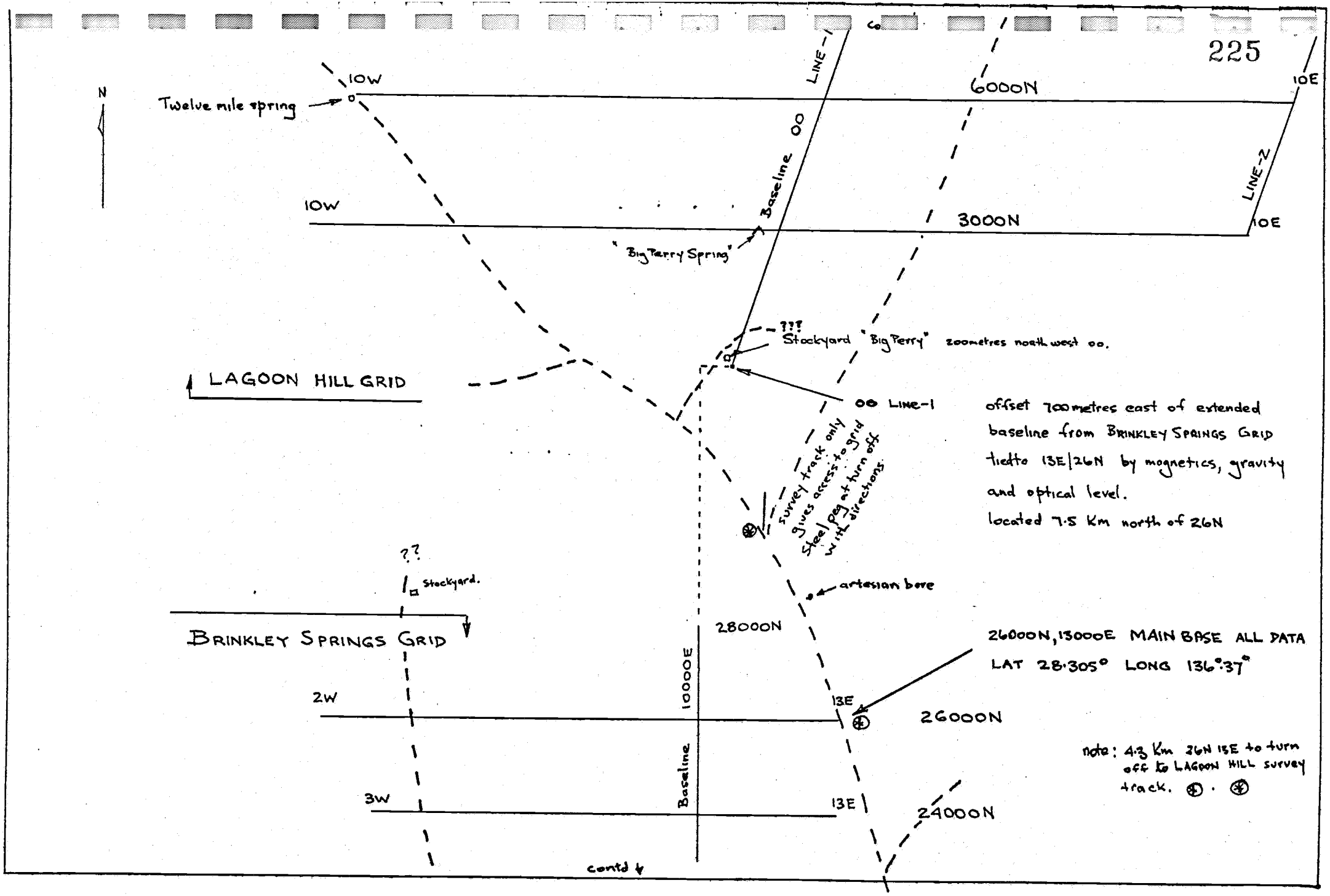
MT ANGLESTON
MT ROBINSON
MT TOGOLEY
ORANGE HILL
KIRRAWEE HILL
Dun Creek
Peake Creek
Peake
Pinnacle
Pinnacle Creek
Dungowan
Dungowan Creek
Bluff
Bluff River
Bluff River
Bluff River



BRINKLEY SPRINGS GRID



BRINKLEY SPRINGS GRID


N
10W
Twelve mile spring
0
LINE-1
6000N
10E
Baseline 00
LINE-2
10W
3000N
10E
"Big Perry Spring"
??? Stockyard "Big Perry" 200metres north west 00.
LAGOON HILL GRID
00 LINE-1
offset 700 metres east of extended baseline from BRINKLEY SPRINGS GRID tied to 13E/26N by magnetics, gravity and optical level.
located 7.5 Km north of 26N
survey track only gives access to grid steel peg at turn off with directions.
??
Stockyard.
artesian bore
BRINKLEY SPRINGS GRID
28000N
26000N, 13000E MAIN BASE ALL DATA
LAT 28·305° LONG 136°37°
2W
10000E
13E
26000N
note: 4.3 Km 26N 13E to turn off to LAGOON HILL survey track.
Baseline
3W
13E
24000N
contd ↓

Permanent Steel Grid Pegs:

1. BRINKLEY SPRINGS

On baseline 10000E @ 13N, 14N, 16N, 18N, 20N, 22N, 24N, 26N and 28N.

Around grid at track crossings and end of lines.

26N	@	2W,	13E
24N	@	3W,	13E
22N	@	3W,	15E
20N	@	3W,	15E
18N	@	3W,	16E
16N	@	4W,	17E
14N	@	5W,	18E

2. LAGOON HILL

On baseline line - 1 @ 00, 2N, 3N, 6N, 9N, 12N, 15N, 16.4N

line - 2 @ 3N, 6N, 9N, 12N

Around grid at track crossings and end of lines

3N	@	10W,	10E	6.5W *
6N	@	10W,	10E	
9N	@	5W,	10E	
12N	@	5W,	10E	
15N	@	5W,	14E	

3. Turn off to Lagoon Hill, survey track, 8.5 km to line 3000N on tag.

4. Base Station 26000N 13000E

Rain prevented locating some steel pegs due to hasty departure from the area.

5. All pegs flagged with red and yellow tape and a permanent identity tag is attached.

Main Base Station 26000N 13000E

is datum for all data reductions.

Location: On east side of track;
4 km north from Umbum artesian bore taking left track after George Creek crossing.

Identification: 1 metre high steel picket with plastic dumpy peg located at base and ring of white quartz rocks around gravity datum.

Aluminium labels on picket:	SOLO GEOPHYSICS GRAVITY BASE APRIL, MAY 1979	BRINKLEY SPRINGS GRID E.L. 369	LAGOON HILL GRID E.L. 369

Assumed Elevation: 100.00 metres.

Latitude: 28.305°

Longitude: 136.37°

Magnetics Base Level - wood peg. 57371 nT

See diagrams for location.

SHEET 3

228

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 parallel fence line	21.29
boxer hut, stockyard dam	25.0
small creek	32.5
road junction (take left fork)	34.4
Sunny Creek	
artesian bore, old curt.	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 rt side track	47.1
side track	48.0
Bump	48.8
Stockyards, + sidetrack to left.	53.3
old chimney + ruin.	54.0 ⊛
Continue 2Km across George Ck to steel peg, camp turn off. (take left track over. George Ck.)	Stop, see next page.

reset

Contd. to Naples River 1977 Grid

⊛	take sidetrack to Davenport Ck	53.3
	artesian bore about 150m north of road, look for birds + cattle + green swamp to locate, easy to miss. see diag of bore.	
	GEORGE CREEK	
	road junction, take right hand track,	
note:	track can become very indistinct from now on unless used regularly, follow carefully	
	stockyard across creek to left of track + trees. dead cow, skeleton on right hand side of track.	
	steel grid peg	
	base station steel peg	
	stockyard	
Contd:	Turn off to baseline see wooden peg markers just before stockyard on side of track.	Total.
	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

M # 5

SOLO GEOPHYSICS AND CO. GROUND MAGNETICS SURVEY.

229

CLIENT: The BHP Co Ltd AREA: BRINKLEY
LINE: ~~14000~~ 10000E B/L DATE: 9/4/78
OPERATOR: BR UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
14000N	56048	10 31		56046	Base Δ
13000N	56412	11 23		56417	
131	56386	11 33		56392	
132	56344	11 36		56350	
133	56301	1140		56308	
134	56253	1143		56260	
135	56216	1146		56224	draining
136	56174	1150		56182	
137	56136	1154		56145	
138	56104	1157		56113	
139	56076	1200		56079	
14000N	56036	1204		56046	Base Δ

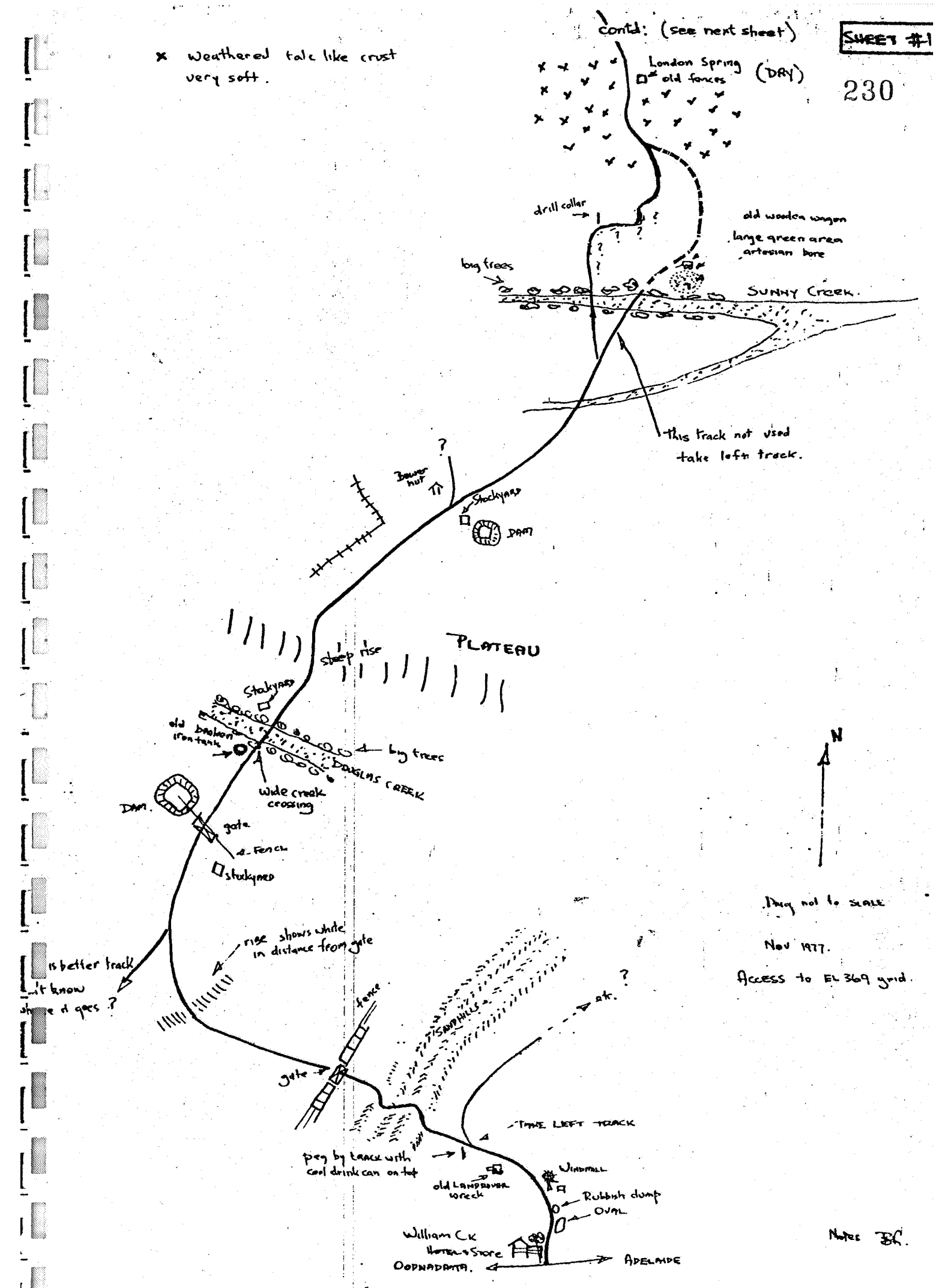
CLIENT: AREA:
LINE: 10000E B/LINE DATE: 9/4/78
OPERATOR: BR. UNIT NO: LAT:

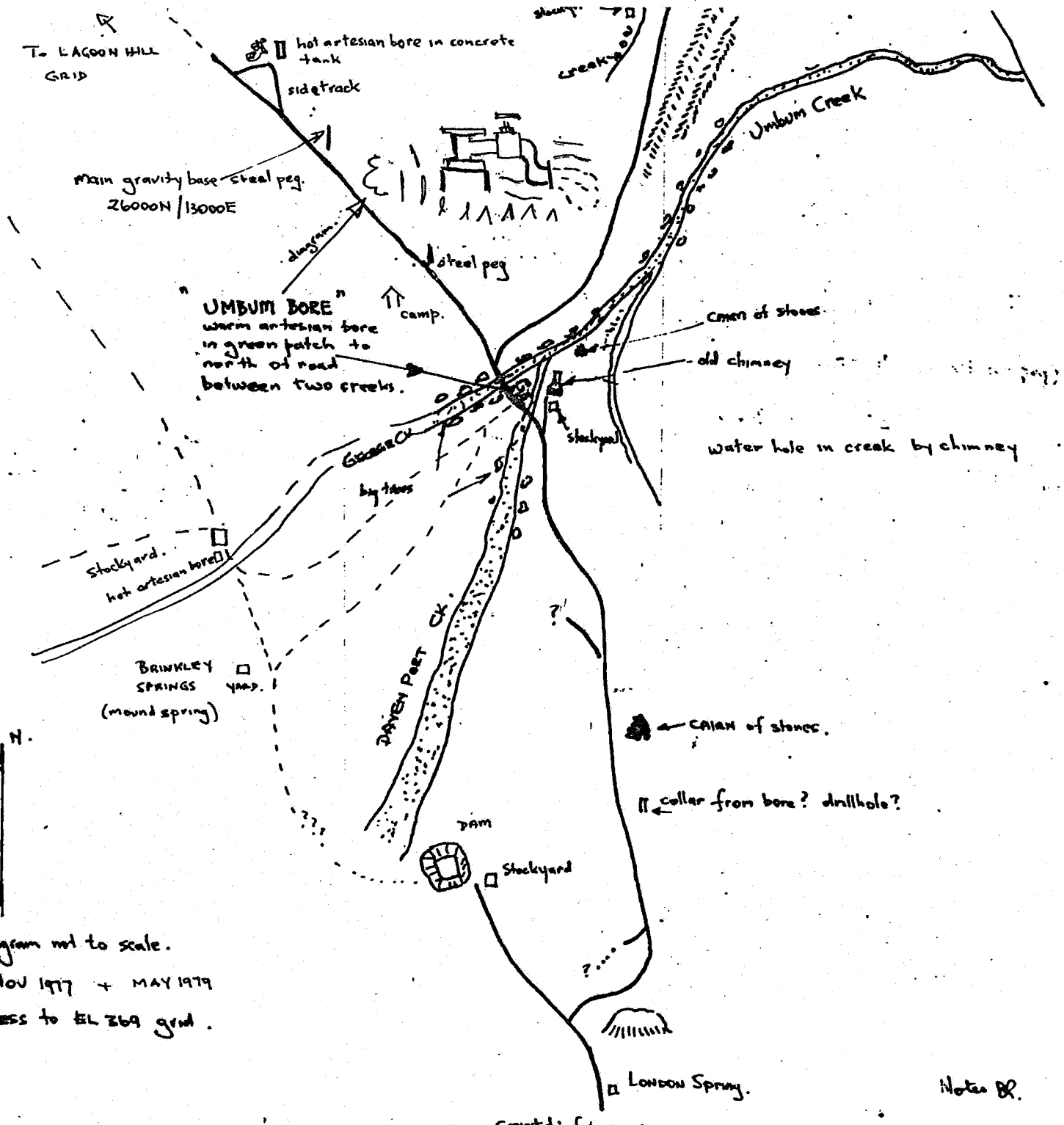
STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
SB					
14000N	56038	1237		56046	Base Δ
141	55998	1240		56006	
142	55963	1245		55971	
143	55946	1248		55954	
144	55952	1252		55960	
145	55963	1255		55971	
146	55963	1300		55971	
147	55961	1303		55969	
148	55973	1306		55981	
149	55972	1309		55988	
15000N	55974	1312		55982	
151	55976	1316		55984	
152	55983	1319		55990	
153	56014	1322		56021	
154	56036	1326		56043	
155	56066	1329		56073	
156	56084	1332		56091	
157	56118	1335		56125	
158	56172	1338		56179	
159	56233	1342		56240	
16000N	56312	1346		56319	CK.
14000N	56039	1357			Base Δ

CLIENT: AREA:
LINE: 10000E DATE: 9/4/78
OPERATOR: BR. UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
16000N	56319	14 11		56319	Base Δ11
161	56419	1415		56419	
162	56508	1418		56507	
163	56594	1421		56593	
164	56666	1425		56665	
165	56725	1429		56724	
166	56760	1432		56758	
167	56778	1435		56776	
168	56779	1439		56777	
169	56809	1443		56806	
17000N	56859	1446		56856	
171	56947	1450		56944	
172	57039	1453		57036	
173	57101	1457		57097	
174	57159	1502		57155	
175	57228	1505		57224	
176	57325	1508		57820	
177	57451	1512		57446	
178	57648	1515		57643	
179	57872	1518		57866	
18000N	58134	1523		58128	Δ10
16000N	56326	1535		56319	Δ11

230


contd: (see next sheet)
× Weathered talc like crust very soft.
London Spring (DRY)
old fences
drill collar
old wooden wagon
large green area artesian bore
big trees
SUNNY Creek.
this track not used take left track.
Bower hut
Stockyard
DAM
PLATEAU
steep rise
Stockyard
old Baloon iron tank
big trees
DOUGLAS CREEK
wide creek crossing
DAM.
gate
fence
Stockyard
N
Drwg not to SCALE
Nov 1977.
Access to EL 369 grid.
rise shows white in distance from gate
is better track
it know
where it goes ?
fence
gate
SANDHILLS
etc.
TAKE LEFT TRACK
peg by track with cool drink can on top
old LANDROVER wreck
WINDMILL
Rubbish dump
OVAL
William Ck
Hotel & Store
OODNADATTA.
ADELAIDE
Notes BC.



iagram not to scale.

NOV 1977 + MAY 1979

ess to EL 369 grid.

Notes BR.

contd: from previous page

FIELD DATA SHEETS FOR MAGNETOMETER SURVEY USING SCINTREX MP-2 PROTON MAGNETOMETERS No. 804371 AND 608198

ALL DATA REDUCED TO MAIN BASE 26000N 13000E, LEVEL 57371nT

m#6

SOLO GEOPHYSICS AND CO. GROUND MAGNETICS SURVEY.

233

CLIENT: The BHP Co Ltd (~~BHP~~) AREA: Brinkleys

LINE: B/L 10000E DATE: 11/4/71

OPERATOR: BLau UNIT NO: MP-2 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
22000N	57943 57932	939 1142		57938	Δ Base = Δ8
219	57899	942		57894	
218	57866	945		57862	
217	57851	949		57848	
216	57849	952		57846	
215	57857	956		57855	
214	57875	959		57873	
213	57887	1003		57886	
212	57885	1006		57884	
211	57873	1010		57873	
21000N	57863	1014		57864	
209	57867	1017		57868	
208	57872	1022		57874	
207	57852	1026		57855	
206	57834	1029		57837	
205	57871	1032		57875	
204	57949	1036		57953	top "small hill
203	58044	1040		58049	
202	58108	1046		58114	
201	58147	1049		58153	
20000N	58200	1054		58207	Δ9
22000N	57929	1105		57938	ΔBase

CLIENT: AREA:

LINE: 10000E DATE: 11/4/71

OPERATOR: BLau UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
20000N	58197	1115		58207	Δ9
199	58227	1121		58237	
198	58290	1125		58300	
197	58399	1129		58409	
196	58550	1132		58560	
195	58757	1137		58767	
194	59064	1140		59075	track steelpost
193	59495	1143		59506	
192	60060	1147		60071	
191	60872	1151		60883	
19000	61795	1154		61806	
189	62651	1200		62662	top of ridge
188	62926	1203		62937	
187	62374	1206		62385	62769@18750
186	61238	1212		61249	1208
185	60210	1214		60221	= 62780
184	59520	1218		59531	
183	59071	1222		59082	
182	58765	1225		58776	
181	58447	1229		58459	
18000N	58116	1233		58128	Δ10
20000N	58195	1251		58207	Δ9

CLIENT: AREA:

LINE: DATE:

OPERATOR: UNIT NO: LAT:

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

SOLO GEOPHYSICS AND CO. GROUND MAGNETICS SURVEY.

CLIENT: The BH.P Co LTD. AREA: BRUNKLEYS.
LINE: 26000 N DATE: 5/4/79
OPERATOR: BRan UNIT NO: MP-2/1 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
3300E	57666	1040		57678	Δ6
32	57606	1046		57619	
31	57549	1051		57562	
3000E	57491	1055		57505	
29	57442	1059		57456	
28	57401	1102		57416	
27	57364	1107		57379	
26	57330	1111		57346	
25	57308	1115		57324	
24	57298	1119		57315	
23	57292	1123		57309	
22	57292	1127		57310	CK, greengrass
21	57271	1131		57289	
2000E	57247	1135		57266	
3300E	57658	1147		57678	Δ6

CLIENT: AREA:
LINE: 10000E B/L DATE: 5/4/79
OPERATOR: CC. UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
26000N	58755	1535		58728	Δ3
259	59059	1540		59032	
258	59224	1543		59197	
257	59289	1546		59262	
256	59273	1550		59246	
255	59189	1554		59162	
254	59067	1558		59040	
253	58921	1601		58894	
252	58832	1605		58805	
251	58789	1609		58762	
25000N	58778	1612		58751	
249	58772	1616		58745	
248	58768	1619		58741	
247	58789	1622		58762	
246	58833	1626		58806	
245	58905	1630		58878	
244	58994	1633		58966	
243	59066	1637		59038	
242	59096	1640		59068	
241	59106	1644		59078	
24000N	59132	1648		59104	

CLIENT: AREA:
LINE: 10000E DATE: 5/4/79
OPERATOR: CC UNIT NO: MP-2/1 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
239	59199	1654		59171	
238	59407	1657		59379	
237	59817	1700		59789	
236	60302	1704		60274	
235	60386	1708		66358	
23400N	59586	1711		59558	Δ7 Δ5
26000N	58756	1726		58728	Δ3

M #4.

235

SOLO GEOPHYSICS AND CO. GROUND MAGNETICS SURVEY.

BRUNKLEY

CLIENT: The B.H.P. Co Ltd. **AREA:** SPRING

LINE: B/L 10000 E **DATE:** 6-4-79

OPERATOR: BRan **UNIT NO:** mp-2/1 **LAT:**

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
23400N	59580	1040		59558	Δ7
233	58477	1043		58477	
232	57741	1046		57741	
231	57321	1049		57321	
23000N	57116	1052		57116	
229	57018	1055		57018	
228	57009	1058		57009	
227	57093	1102		57093	
226	57226	1105		57226	
225	57454	1109		57454	
224	57714	1113		57714	N edge George ck
223	57903	1117		57903	S edge -11-
222	57960	1120		57960	
221	57949	1123		57949	
22000N	57938	1129		57938	Δ8
23400N	59578	1141		59578	Δ7

CLIENT: **AREA:**

LINE: 10000E B/L **DATE:** 6/4/79

OPERATOR: CC **UNIT NO:** **LAT:**

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
26000N	58739	1325		58728	Δ3
28000N	58024	1431		58011	
279	57945	1435		57932	
278	57842	1438		57829	
277	57735	1440		57722	
276	57649	1443		57635	
275	57561	1446		57547	
274	57514	1449		57500	
273	57534	1452		57520	
272	57617	1455		57603	
271	57774	1458		57760	
27000N	57867	1501		57853	
269	57812	1505		57798	
268	57676	1508		57662	
267	57627	1511		57613	
266	57677	1513		57663	
265	57812	1516		57797	
264	57995	1519		57980	
263	58188	1522		58178	
262	58403	1525		58388	
261	58609	1528		58594	
26000N	58745	1631		58728	Δ3

CLIENT: **AREA:**

LINE: **DATE:**

OPERATOR: **UNIT NO:** **LAT:**

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

SOLO GEOPHYSICS AND CO. GROUND MAGNETICS SURVEY.

CLIENT: THE BKN CO LTD. AREA: BRINKLEY
LINE: 14000N DATE: 17/4/79.
OPERATOR: CC UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
5000E	56290	13.31		56290	Δ
51	56284	13.36		56284	
52	56272	13.40		56272	
53	56256	13.44		56256	
54	56244	13.47		56243	track
5500E	56243	13.51		56242	
56	56259	13.54		56258	
57	56290	13.58		56289	
58	56316	14.01		56315	
59	56335	14.04		56334	
6000E	56337	14.08		56336	
61	56336	14.11		56335	
62	56336	14.15		56334	
63	56325	14.17		56323	
64	56308	14.21		56306	
6500E	56289	14.24		56287	
66	56270	14.28		56268	
67	56252	14.32		56250	
68	56247	14.35		56245	
69	56243	14.38		56240	
7000E	56230	14.41		56227	

CLIENT: AREA:
LINE: DATE: 17/4/79
OPERATOR: CC UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
7100E	56228	14.44		56225	
72	56224	14.47		56221	
73	56224	14.50		56221	
74	56226	14.54		56223	
75	56221	14.56		56218	
76	56227	14.59		56224	
77	56225	15.03		56223	
5000E	56294	15.18		56290	Δ

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

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

SOLO GEOPHYSICS AND CO. GROUND MAGNETICS SURVEY.

CLIENT: THE BHP CO LTD. AREA: BRINKLEY
LINE: 14000N DATE: 17/4/79.
OPERATOR: CC UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
7200E	56227	15.36		56223	Δ
78	56219	15.39		56219	
79	56207	15.42		56207	
8000E	56192	15.46		56191	
81	56191	15.49		56190	
82	56198	15.52		56197	
83	56202	15.55		56201	
84	56200	15.59		56199	
8500	56201	16.03		56199	
86	56214	16.06		56212	
87	56239	16.09		56237	Track
88	56271	16.12		56269	
89	56302	16.15		56299	
9000E	56317	16.19		56314	
91	56310	16.22		56307	
92	56272	16.28		56269	Missing Level
93	56222	16.32		56218	
94	56175	16.36		56171	
9500	56145	16.39		56141	
96	56120	16.42		56116	
97	56100	16.45		56095	

CLIENT: THE BHP CO LTD. AREA: BRINKLEY
LINE: 14000N DATE: 17/4/79
OPERATOR: CC UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
98	56085	16.47		56080	
99	56040	16.50		56035	
10000E	56056	16.53		56046	
7200E	56233	17.06		56223	Δ
10000E	56056	16.18		56046	

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

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

SOLO GEOPHYSICS AND CO. GROUND MAGNETICS SURVEY.

CLIENT: BHP & CO PM LTD AREA: BRINKLEY SPRINGS
LINE: 14000 N DATE: 19/04/79.
OPERATOR: J H. UNIT NO: #1 MP-2 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
10000E	56063	9:03		56046	Δ
10100	56019	9:07		56002	
10200	55992	9:10		55976	
10300	55964	9:13		55948	
10400	55949	9:16		55933	
10500	55933	9:21		55918	
10600	55903	9:24		55888	
10700	55848	9:28		55833	
10800	55788	9:32		55774	
10900	55726	9:35		55712	
11000	55705	9:39		55691	
11100	55704	9:43		55691	
11200	55731	9:46		55718	
11300	55783	9:51		55770	
11400	55807	9:54		55794	
11500	55797	9:58		55785	
11600	55765	10:02		55757	
11700	55726	10:05		55718	
11800	55704	10:09		55696	
11900	55709	10:13		55702	
12000	55735	10:15		55727	

CLIENT: AREA:
LINE: 14000 N DATE: 19/04/79
OPERATOR: UNIT NO: #2 MP-2 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
10000E	56052	10:28		56046	Δ
12000E	55732	10:39		55727	ΔΔ
12100	55763	10:42		55758	
12200	55802	10:45		55797	
12300	55843	10:50		55838	
12400	55885	10:54		55880	
12500	55941	10:57		55936	
12600	55986	10:59		55982	
12700	56022	11:05		56019	
12800	56039	11:08		56036	
12900	56040	11:10		56037	
13000	56036	11:13		56033	
13100	56053	11:18		56050	
13200	56054	11:23		56051	
13300	56071	11:25		56068	
13400	56091	11:28		56088	
13500	56122	11:31		56119	
13600	56170	11:35		56167	
13700	56223	11:38		56220	
13800	56301	11:41		56299	
13900	56387	11:45		56385	

CLIENT: AREA:
LINE: 14000N DATE: 19/04/79
OPERATOR: UNIT NO: #2 MP-2 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
14000E	56460	11:48		56458	
12000E	55729	11:58		55727	ΔΔ
14000E	56457	12:08		56458	-
14000E	56457	13:08		56458	ΔΔΔ
14100E	56538	13:21		56540	
14200	56598	13:24		56600	
14300	56687	13:27		56689	
14400	56784	13:32		56786	
14500	56918	13:35		56920	
14600	57091	13:39		57094	
14700	57240	13:43		57243	
14800	57350	13:46		57353	
14900	57413	13:50		57416	
15000	57447	13:54		57451	
14000	56452	14:00		56455	ΔΔΔ
15000	57446	14:06		57451	
16300	57072	15:02		57074	ΔΔΔΔ
16200	57014	15:15		57013	
16300	57016	15:09		57015	-
16000	57052	15:12		57051	

SOLO GEOPHYSICS AND CO. GROUND MAGNETICS SURVEY.

CLIENT: BHP HCO Pty Ltd AREA: BRINKLEY SPRINGS
LINE: 14000 N DATE: 19/04/79
OPERATOR: UNIT NO: #2 MP-2 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
15400	57090	15:15		57089	
15800	57107	15:18		57106	
15700	57120	15:23		57118	
15600	57157	15:26		57155	
15500	57236	15:29		57234	
15400	57326	15:33		57324	
15300	57385	15:36		57383	
15200	57425	15:40		57422	
15100	57451	15:43		57448	
15000	57454	15:48		57451	
16300	57077	15:55		57074	ΔΔΔΔ

CLIENT: AREA:
LINE: DATE: 19/04/79.
OPERATOR: UNIT NO: #2 MP-2 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
16300	57079	10:08		57074	
16400	57212	10:11		57207	
16500	57367	10:16		57362	
16600	57530	10:19		57526	
16700	57697	10:23		57693	
16800	57832	10:27		57828	
16900	57920	10:31		57917	
17000	57972	10:35		57969	
17100	57974	10:39		57971	
17200	57939	10:43		57936	
17300	57880	10:45		57878	
17400	57819	10:50		57817	
17500	57778	10:53		57776	
17600	57748	10:57		57746	
17700	57729	11:01		57730	
17800	57719	11:05		57721	
17900	57730	11:09		57732	
18000	57779	11:12		57781	
16300	57071	11:25		57074	

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

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

SOLO GEOPHYSICS AND CO. GROUND MAGNETICS SURVEY.

CLIENT: The BHP Co Ltd AREA: 3 Springs
LINE: 16000N DATE: 16/4/79
OPERATOR: BRan UNIT NO: MP-2/1 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
4000E	56352	13^{50}		56350	Δ
41	56387	13^{53}		56385	
42	56407	13^{57}		56405	
43	56403	14^{01}		56401	
44	56393	14^{05}		56390	
45	56376	14^{09}		56373	edge breakaway
46	56382	14^{14}		56379	
47	56394	14^{18}		56391	
48	56378	14^{22}		56375	
49	56333	14^{25}		56330	
5000 E	56296	14^{29}		56293	
51	56284	14^{33}		56281	
52	56286	14^{36}		56282	
53	56277	14^{40}		56273	
54	56269	14^{44}		56265	
55	56265	14^{47}		56261	
56	56262	14^{50}		56258	
57	56258	14^{54}		56254	
58	56260	14^{55}		56256	
59	56252	15^{00}		56248	
6000E	56241	15^{04}		56236	

CLIENT: AREA:
LINE: 16000N DATE: 16/4/79
OPERATOR: BRan UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
6100	56224	15^{08}		56219	
6200	56212	15^{11}		56207	
63	56201	15^{15}		56196	
64	56201	15^{20}		56196	
65	56195	15^{23}		56190	
66	56188	15^{27}		56183	
67	56176	15^{30}		56175	
4000E	56356	15^{46}		56350	Δ

CLIENT: AREA:
LINE: 16000N DATE: 16/4/79
OPERATOR: BRan UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
6700E	56178	16^{02}		56175	track Δ
68	56161	16^{05}		56161	
69	56142	16^{09}		56141	
7000E	56134	16^{12}		56133	
71	56127	16^{16}		56126	
72	56120	16^{19}		56118	
73	56109	16^{24}		56107	
74	56085	16^{28}		56082	
75	56069	16 31		56066	
76	56047	16 34		56044	
77	56014	16 39		56007	track
6700E	56183	16^{49}		56175	Δ

"RAIN"

SOLO GEOPHYSICS AND CO. GROUND MAGNETICS SURVEY.

CLIENT: The BHP Co Ltd AREA: BRINKLEY
LINE: 16000N DATE: 18/4/79
OPERATOR: BR UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
10000E	56324	954		56319	△
99	56345	957		56340	
98	56351	1000		56346	
97	56350	1008		56346	
96	56337	1012		56333	
95	56326	1016		56323	
94	56296	1019		56293	
93	56250	1023		56247	
92	56225	1027		56222	
91	56213	1032		56211	
9000E	56218	1035		56216	
89	56211	1038		56209	
88	56190	1042		56188	
87	56158	1046		56157	
86	56104	1049		56103	
85	56031	1053		56030	
84	55973	1058		55972	
83	55931	1101		55931	
82	55912	1105		55912	
81	55913	1108		55913	
8000E	55931	1110		55931	

CLIENT: The BHP Co, Ltd AREA: BRINKLEY
LINE: 16000N DATE: 18/4/79
OPERATOR: Ted BRam UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
7900E	55953	1114		55953	
78	55969	1117		55970	
7700E	56006	1120		56007	
10000E	56317	1136		56319	△
7700E	56003	1153			

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

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

SOLO GEOPHYSICS AND CO. GROUND MAGNETICS SURVEY.

CLIENT: BHP & CO PTY LTD AREA: BRINKLEY SPRINGS
LINE: 16000 N DATE: 18/04/79
OPERATOR: UNIT NO: #2 MP-2 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
10000E	56334	8:59		56319	Δ
10100	56342	9:03		56332	
10200	56353	9:07		56343	
10300	56343	9:14		56334	
10400	56333	9:18		56324	
10500	56364	9:21		56355	
10600	56436	9:25		56428	
10700	56496	9:28		56488	
10800	56536	9:33		56527	
10900	56570	9:37		56563	
11000	56567	9:40		56560	
11100	56515	9:44		56509	
11200	56457	9:47		56451	
11300	56435	9:50		56429	
11400	56430	9:53		56425	
11500	56417	9:57		56412	
11600	56391	10:01		56391	
11700	56389	10:04		56389	
11800	56448	10:07		56448	
11900	56724	10:11		56725	
12000	57960	10:14		57961	

CLIENT: AREA:
LINE: 16000N DATE: 18/04/79
OPERATOR: UNIT NO: #2 MP-2 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
10000E	56317	10:25		56319	Δ
12000E	57954	10:35		57961	ΔΔ
12100	59323	10:40		59331	
12200	60840	10:45		60848	
12300	61473	10:48		61482	
12400	61729	10:52		61738	
12500	62065	10:55		62074	
12600	62336	11:00		62351	
12700	62298	11:03		62313	
12800	61585	11:06		61600	
12900	60140	11:11		60156	
13000	58651	11:14		58667	
13100	58159	11:19		58176	
13200	57832	11:21		57849	
13300	57633	11:24		57650	
13400	57510	11:28		57528	
13500	57425	11:33		57443	
13600	57371	11:36		57390	
13700	57338	11:40		57357	
13800	57303	11:45		57323	
13900	57288	11:48		57308	

CLIENT: AREA:
LINE: 16000N DATE: 18/04/79
OPERATOR: UNIT NO: #2 MP-2 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
14000E	57294	11:52		57315	
12000E	57934	12:06		57961	ΔΔ
14000	57291	12:35		57315	ΔΔΔ
14100	57300	12:39		57324	
14200	57326	12:43		57350	
14300	57365	12:46		57389	
14400	57383	12:49		57407	
14500	57377	12:52		57400	
14600	57348	12:56		57371	
14700	57325	13:00		57347	
14800	57328	13:03		57350	
14900	57362	13:06		57387	
15000	57411	13:09		57432	
15100	57487	13:13		57508	
15200	57583	13:16		57604	
15300	57697	13:19		57718	
15400	57814	13:22		57835	
15500	57914	13:26		57935	
15600	58002	13:30		58023	
15700	58073	13:33		58094	
15800	58102	13:37		58122	

Contd.*

SOLO GEOPHYSICS AND CO. GROUND MAGNETICS SURVEY.

CLIENT: BHP + CO PTY LTD **AREA:** BRIMSLEY SPRINGS

LINE: 16000 N **DATE:** 18/04/72

OPERATOR: **UNIT NO:** #2 MP-3 **LAT:**

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
15900	58088	13 39		58108	
16000	58037	13 45		58057	
16100	57971	13:48		57991	
16200	57905	13:52		57925	
16300	57866	13:55		57886	
16400	57879	13:59		57899	
16500	57915	14:02		57933	
16600	57954	14 05		57972	
16700	57972	14:09		57990	
16800	57994	14:12		58012	
16900	58028	14 15		58046	
17000	58106	14:19		58124	
14000	57248	14:38		57315	ΔΔΔ

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

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SOLO GEOPHYSICS AND CO. GROUND MAGNETICS SURVEY.

CLIENT: THE BHP CO LTD AREA: BRINKLEY
LINE: 18000 N DATE: 14/4/79
OPERATOR: CC UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
5000E	56622	14.11		56611	△
49	56657	14.15		56646	
48	56689	14.18		56677	
47	56712	14.22		56700	
46	56720	14.25		56708	
45	56748	14.29		56736	
44	56795	14.32		56782	
43	56839	14.36		56826	
42	56866	14.40		56853	
41	56845	14.43		56832	
4000E	56815	14.49		56801	
39	56799	14.52		56785	
38	56796	14.56		56782	
37	56786	15.00		56771	
36	56798	15.06		56783	Lge Ck
35	56761	15.10		56745	
34	56675	15.13		56659	
33	56597	15.16		56581	Ck
32	56547	15.20		56531	
31	56529	15.23		56512	
3000E	56516	15.27		56499	EOL

CLIENT: AREA:
LINE: 18000E DATE:
OPERATOR: CC UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
5000E	56629	15.41		56611	△

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

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

SOLO GEOPHYSICS AND CO. GROUND MAGNETICS SURVEY.

CLIENT: The BHP Co Ltd **AREA:** Brinkley
LINE: 18000 N **DATE:** 14/4/79
OPERATOR: CC **UNIT NO:** **LAT:**

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
10000E	58138	9.26		58128	△
9900	57983	9.33		57973	
9800	57727	9.35		57717	
9700	57534	9.39		57525	
9600	57391	9.43		57382	
9500	57279	9.45		57270	
9400	57189	9.49		57180	
9300	57163 5103	9.52.		57094	
9200	57013	9.55		57004	EDGE PLATEau.
9100	56955	10.00		56947	STEEP DECENT.
9000 E	56928	10.04		56920	
8900	56905	10.08		56897	
8800	56880	10.11		56872	
8700	56890	10.15		56972	
8600	56934	10.18		56926	
8500	56965	10.21		56957	
8400	56946	10.24		56939	
8300	56905	10.31		56898	
8200	56853	1034		56846	
8100	56800	10.37		56793	
8000 E	56735	10.41		56728	

CLIENT: THE BHP Co LTD. **AREA:** Brinkley
LINE: 18000N **DATE:** 14/4/79
OPERATOR: CC **UNIT NO:** **LAT:**

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
7900	56677	1044		56670	
7800	56621	10.48		56615	
7700	56572	10.52		56566	
7600E	56523	10.55		56517	
7500	56485	10.58		56479	
7400E	56466	11.02		56460	
10000E	58133	11 18		58128	△
7400E	56466	11.34		56460	△
7300	56455	11.41		56449	
7200	56456	11.45		56450	
7100	56441	11.48		56436	
7000	56416	11.52.		56411	
6900	56385	11.55		56380	
6800	56359	12.00		56354	
6700	56346	12.03		56341	
6600	56349	12.07		56344	
6500	56342	12.10		56337	
6400	56344	12.14		56340	
6300	56342	12.17		56338	

CLIENT: THE BHP Co LTD. **AREA:** Brinkley
LINE: 18000N. **DATE:** 14/4/79
OPERATOR: CC **UNIT NO:** **LAT:**

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
6200	56346	12.21		56342	
6100	56384	12.25		56380	
6000	56434	12.28		56430	
5900	56488	12.32.		56484	
5800	56526	12.36		56522	
5700	56516	12.39		56511	
5600	56504	12.41		56501	
5500	56504	12.45		56501	
5400	56518	12.49		56515	
5300	56533	12.52.		56530	
5200	56556	12.54		56553	
5100	56581	12.57		56578	
5000	56614	13.01		56611	△
7400	56462	13.19	△	56460	△
5000	56619	13.34	△	56618	△

SOLO GEOPHYSICS AND CO. GROUND MAGNETICS SURVEY.

CLIENT: BHP & CO PTY LTD AREA: BRIMELLA SPRINGS
LINE: 18000 N DATE: 16/04/79
OPERATOR: UNIT NO: #2 MP-2 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
10000E	58120	14:22		58128	△
10100	58915	14:26		58973	
10200	59776	14:31		59784	
10300	60852	14:36		60860	
10400	62045	14:40		62052	
10500	63133	14:43		63140	
10600	63833	14:46		63840	
10700	63936	14:49		63943	
10800	63681	14:52		63688	
10900	63355	14:55		63362	
11000	62843	15:00		62853	
11100	62300	15:03		62305	
11200	61623	15:06		61628	
11300	61041	15:09		61046	
11400	60555	15:12		60560	
11500	60211	15:15		60216	
11600	59885	15:19		59890	
11700	59682	15:23		59687	
11800	59534	15:26		59539	
11900	59426	15:29		59430	
12000	59324	15:32		59328	

CLIENT: AREA:
LINE: 18000 N DATE: 16/04/79
OPERATOR: UNIT NO: #2 MP-2 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
10000E	58124	15:43		58128	△
12000	59325	16:08		59328	△△
12100	59255	16:12		59258	
12200	59155	16:15		59158	
12300	59043	16:18		59046	
12400	58916	16:21		58919	
12500	58804	16:24		58807	
12600	58726	16:27		58729	
12700	58678	16:30		58678	
12800	58654	16:33		58657	
12900	58641	16:36		58644	
13000	58661	16:40		58664	
13100	58669	16:42		58672	
13200	58677	16:46		58680	
13300	58665	16:49		58668	
13400	58634	16:53		58637	
13500	58582	16:56		58585	
13600	58514	17:00		58517	
13700	58434	17:03		58437	
13800	58353	17:06		58356	

CLIENT: AREA:
LINE: 18000 N DATE: 16/04/79
OPERATOR: UNIT NO: #2 MP-2 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
13900	58289	17:10		58292	
14000E	58275	17:13		58278	
12000E	59325	17:23		59328	△△
14000E	58265	17:34		58278	

SOLO GEOPHYSICS AND CO. GROUND MAGNETICS SURVEY.

CLIENT: BHP & CO PTY LTD AREA: BRINKLEY SPRINGS
LINE: 18000 N DATE: 18/04/79.
OPERATOR: UNIT NO: #2 MP-2 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
14000E	58263	14:50		58278	△
14100	58254	14:53		58269	
14200	58260	14:58		58275	
14300	58271	15:02		58284	
14400	58291	15:05		58304	
14500	58315	15:09		58328	
14600	58346	15:12		58359	
14700	58354	15:15		58367	
14800	58351	15:19		58363	
14900	58351	15:23		58363	
15000	58381	15:26		58395	
15100	58434	15:30		58446	
15200	58516	15:33		58528	
15300	58585	15:36		58547	
15400	58652	15:39		58614	
15500	58709	15:42		58721	
15600	58751	15:45		58762	
15700	58776	15:48		58787	
15800	58777	15:52		58788	
15900	58736	15:55		58747	
16000	58651	15:58		58662	

CLIENT: AREA:
LINE: 18000 N DATE: 18/04/79
OPERATOR: UNIT NO: #2 MP-2 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
14000E	58269	16:10			△

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

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

SOLO GEOPHYSICS AND CO. GROUND MAGNETICS SURVEY.

CLIENT: THE BHP CO LTD. AREA: BRINKLEY
LINE: 20000N DATE: 18/4/79
OPERATOR: CC UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
△ 6000E	56898	12.47		56908	
59	56950	12.51		56960	
58	56987	12.57		56996	
57	57050	13.00		57059	
56	57051	13.04		57060	
5500	56954	13.09		56963	
54	56827	13.12		56835	
53	56756	13.17		56764	
52	56762	13.21		56770	
51	56794	13.27		56801	
5000	56808	13.32		56815	
49	56808	13.38		56815	
48	56832	13.42		56838	
47	56877	13.46		56883	
46	56921	13.50		56927	
4500	56935	13.53		56941	
44	56962	13.57		56967	
43	57055	14.00		57060	
42	57204	14.05		57209	
41	57282	14.08		57287	
4000E	57187	14.13		57191	
6000E	56905	1431		56908	

CLIENT: THE BHP CO LTD. AREA: Brinkley
LINE: 20000N DATE: 18/4/79
OPERATOR: CC UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
4000E	57190	14.42		57191	
39	57059	14.46		57059	
38	57000	14.49		57000	
37	56977	14.52		57976	
36	56923	14.56		57922	
35	56886	14.59		56884	
34	56902	15.03		56900	
33	56924	15.07		56921	
32	56922	15.09		56919	
31	56928	15.13		56924	
3000E	56933	15.17		56928	
4000E	53197	15.24		57191	

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

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

M#7

SOLO GEOPHYSICS AND CO. GROUND MAGNETICS SURVEY.

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CLIENT: The BHP Co Ltd. AREA: Brinkley Springs
LINE: 20000N DATE: 11/4/79
OPERATOR: BRam UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
10000E	58197	13 29		58207	
99	58189	13 32		58198	
98	58177	13 36		58186	
97	58154	13 39		58162	
96	58124	13 43		58131	
95	58056	13 53		58061	
94	57948	13 56		57953	
93	57840	13 59		57844	
92	57792	14 02		57795	
91	57790	14 05		57793	
9000E	57772	1408		57774	
89	57693	14 12		57695	
88	57548	14 15		57544	
87	57363	14 19		57363	
86	57207	14 24		57206	
85	57117	1426		57116	
84	57089	14 30		57087	
83	57100	14 33		57097	
82	57129	14 36		57126	
81	57146	14 39		57142	
8000E	57140	1443		57135	
10000E	58214	14 55		58207	

CLIENT: AREA:
LINE: 20000N DATE: 11/9/79
OPERATOR: BRam UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
8000E	57145	15 07		57135	
79	57136	15 12		57125	
78	57121	15 15		57110	
77	57105	15 19		57094	
76	57090	15 22		57078	
75	57062	15 25		57050	
74	57012	15 29		57000	
73	56951	15 32		56938	
72	56898	15 35		56885	
71	56844	15 39		56831	
7000E	56798	15 42		56784	
69	56755	15 45		56740	
68	56741	15 48		56727	
67	56744	15 51		56729	
66	56750	15 55		56735	
65	56765	15 58		56750	
64	56781	16 00		56766	
63	56809	1604		56793	
62	56841	1607		56825	
61	56882	16 10		56866	
6000E	56925	16 15		56908	
8000E	57153	16 25		57135	

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

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

SOLO GEOPHYSICS AND CO. GROUND MAGNETICS SURVEY.

CLIENT: BHP & CO PTY AREA: BRINKLEY SPRINGS
LINE: 20,000 N DATE: 16/04/79
OPERATOR: UNIT NO: #2 MP-2 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
10000E	58213	9:28		58207	△
10100	58149	9:36		58143	
10200	58090	9:58		58085	
10300	58061	10:02		58057	
10400	58066	10:06		58062	
10500	58097	10:11		58093	
10600	58119	10:14		58115	
10700	58144	10 16		58140	
10800	58179	10:19		58175	
10900	58216	10:23		58212	
11000	58245	10:26		58242	
11100	58261	10:30		58258	
11200	58261	10:33		58258	
11300	58248	10:37		58245	
11400	58242	10:45		58239	
11500	58244	10:48		58241	
11600	58266	10:52		58263	
11700	58307	10:55		58304	
11800	58348	11:00		58347	
11900	58390	11:03		58389	
12000	58438	11:07		58437	

CLIENT: AREA:
LINE: 20,000 N DATE: 16/04/79.
OPERATOR: UNIT NO: #2 MP-2 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
10000E	58208	11:18		58207	△
12000E	58436	11:28		58437	
12100	58457	11:33		58458	△△
12200	58480	11:37		58481	
12300	58458	11:40		58459	
12400	58430	11:43		58432	
12500	58387	11:46		58389	
12600	58371	11:51		58373	
12700	58357	11:54		58359	
12800	58355	11:57		58351	
12900	58347	12:00		58345	
13000	58314	12:03		58317	
13100	58286	12:07		58290	
13200	58252	12:11		58256	
13300	58217	12:14		58221	
13400	58178	12:17		58182	
13500	58135	12:20		58139	
13600	58113	12:24		58117	
13700	58084	12:29		58088	
13800	58062	12:34		58066	

CLIENT: AREA:
LINE: 20000N DATE: 16/04/79
OPERATOR: UNIT NO: #2 MP-2 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
13900	58035	12:38	/	58040	
14000E	58011	12:41		58016	
12000E	58432	12:51		58437	△△
14000E	58005	13:17		58016	△△△
14100E	57951	13:21		57962	
14200	57909	13:25		57920	
14300	57843	13:29		57854	
14400	57781	13:32		57791	
14500	57736	13:35		57746	
14600	57698	13:40		57708	
14700	57669	13:43		57679	
14800	57640	13:46		57650	
14900	57615	13:50		57625	
15000	57556	13:53		57606	
14000	57008	14:00		57016	△△△

SOLO GEOPHYSICS AND CO. GROUND MAGNETICS SURVEY.

CLIENT: BHP & CO PTY LTD AREA: BRINKLEY SPRINGS
LINE: 22000N DATE: 12/04/79
OPERATOR: UNIT NO: #2 MP-2 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
4300	57300	13:24		57297	
4400	57326	13:28		57323	
4500	57339	13:32		57336	
4600	57374	13:35		57371	
4700	57419	13:38		57416	
4800	57405	13:41		57402	
4900	57332	13:47		57329	
5000	57254	13:51		57251	
5100	57195	13:54		57191	
5200	57161	13:59		57157	
5300	57138	14:04		57134	
5400	57119	14:07		57115	
5500	57103	14:10		57098	
5600	57101	14:13		57096	
5700	57096	14:17		57091	
5800	57076	14:20		57091	
5900	57110	14:23		57105	
6000	57128	14:27		57123	
4300	57302	14:37		57297	

CLIENT: AREA:
LINE: 22000N DATE: 12/04/79
OPERATOR: UNIT NO: #2 MP-2 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
6000	57128	14:47		57123	
6100	57150	14:51		57145	
6200	57182	14:55		57177	
6300	57212	14:58		57207	
6400	57238	15:02		57234	
6500	57223	15:05		57219	
6600	57176	15:08		57172	
6700	57128	15:11		57124	
6800	57085	15:15		57081	
6900	57059	15:18		57055	
7000	57039	15:22		57035	
7100	57024	15:25		57020	
7200	57003	15:28		56999	
7300	56990	15:33		56986	
7400	57005	15:37		57001	
7500	57070	15:41		57066	
7600	57144	15:47		57140	
7700	57160	15:50		57156	
7800	57134	15:54		57130	
7900	57142	15:57		57138	
8000	57183	16:01		57181	

CLIENT: AREA:
LINE: 22000N DATE: 12/04/79
OPERATOR: UNIT NO: #2 MP-2 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
6000	57126	16:14		57123	
8000	57184	16:30		57181	

SOLO GEOPHYSICS AND CO. GROUND MAGNETICS SURVEY.

CLIENT: BHP & CO PTY LTD AREA: BRINKLEY SPRINGS
LINE: 22000 N DATE: 14/04/79
OPERATOR: UNIT NO: #2 MP-2 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
Δ 8000	57180	10'18		57181	
~~81~~	2				
8100	57234	10'23		57253	
8200	57318	10'27		57319	
8300	57403	10'30		57404	
8400	57476	10'33		57477	
8500	57538	10'37		57539	
8600	57591	10'42		57593	
8700	57618	10'45		57620	
8800	57621	10'48		57623	
8900	57626	10'53		57628	
Δ 9000	57633	11'00		57637	
Δ 9000	57638	9:50		57637	
9100	57621	11:05		57629	
9200	57605	11:08		57609	
9300	57592	11:12		57596	
9400	57600	11:15		57605	
9500	57636	11:18		57641	
9600	57676	11:22		57681	
9700	57705	11:25		57710	
9800	57752	11:29		57757	

CLIENT: AREA:
LINE: 22000N DATE: 14/04/79
OPERATOR: UNIT NO: #2 MP-2 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
9900	57825	11'33		57830	
10000	57933	11'36		57938	
10100	58129	11'40		58135	
10200	58272	11'43		58278	
10300	58330	11'47		58336	
10400	58276	11'51		58282	
10500	58168	11'54		58174	
10600	58053	11'57		58059	
10700	57895	12'02		57904	
10800	57780	12'06		57788	
10900	57668	12'10		57677	
Δ 11000	57565	12'14		57574	
Δ 9000	57622	12'22		57637	
Δ 11000	57568	12'50		57574	
11100	57487	12'53		57493	
11200	57424	12'57		57430	
11300	57377	13'02		57381	
11400	57335	13'07		57339	
11500	57302	13'12		57306	
11600	57281	13'15		57285	
11700	57269	13'18		57272	

CLIENT: AREA:
LINE: 22000N DATE: 14/04/79
OPERATOR: UNIT NO: #2 MP-2 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
11800	57274	13'21		57277	
11900	57294	13'24		57297	
12000	57331	13'27		57334	
12100	57384	13'30		57387	
12200	57462	13'34		57465	
12300	57501	13'37		57504	
12400	57534	13'41		57537	
12500	57532	13'44		57534	
12600	57517	13'47		57519	
12700	57492	13'51		57494	
12800	57442	13'55		57444	
12900	57393	13'59		57395	
Δ 13000	57354	14'01		57354	
Δ 11000	57574	14'08		57574	
Δ 13000	57356	14'21		57354	
13100	57324	14'25		57327	
13200	57312	14'28		57310	
13300	57298	14'32		57298	
13400	57280	14'37		57277	
13500	57262	14'40		57264	
13600	57264	14'43		57260	

SOLO GEOPHYSICS AND CO. GROUND MAGNETICS SURVEY.

CLIENT: BHP & CO PTY LTD AREA: BRINKLEY SPRINGS
LINE: 22000 N DATE: 13/04/79
OPERATOR: UNIT NO: #2 MP-2 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
8000	57643	9:30			
8000	57640	15:40			
7900	57639	9:40			
7900	57639	15:45			
7700	57625	9:52			
7700	57625	15:20			

CLIENT: BHP AREA:
LINE: 24000 DATE:
OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
12600E	57832				
12700E	57843				
12800E	57832				
8000	57638				
7300	56981				

CLIENT: BHP AREA:
LINE: 22000 N DATE: 14/04/79
OPERATOR: UNIT NO: #2 MP-2 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
13700	57274	14:47		57270	
13800	57282	14:51		57277	
13900	57299	14:54		57294	
14000	57335	14:58		57330	
14100	57380	15:02		57371	
14200	57413	15:05		57404	
14300	57442	15:09		57432	
(14339)/14400	57456	15:13		57446	CREEK BANK
14500	57475	15:23		57464	
14600	57468	15:26		57457	
14700	57477	15:31		57465	
14800	57492	15:35		57480	
14900	57480	15:38		57468	
15000	57452	15:40		57440	
13000	57382	15:59		57354	

SOLO GEOPHYSICS AND CO. GROUND MAGNETICS SURVEY.

CLIENT: BHP CO PTY LTD AREA: BRINKLEY SPRINGS
LINE: 24000N DATE: 9/4/79.
OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
10500E	58328	9:47		58323	△
10400E	58420	9:50		58415	
10300E	58575	9:54		58571	
10200E	58789	9:58		58785	
10100E	59008	10'02		59008	
BASELINE 10000E	59104	10:08		59104	
9900	59059	10:12		59060	
9800	58978	10:16		58979	
9700	58795	10:20		58796	
9600	58667	10'23		58669	
9500	58543	10'27		58545	
9400	58436	10'31		58438	
9300	58348	10:35		58351	
9200	58267	10'41		58270	
9100	58199	10'44		58203	
9000	58134	10:49		58142	
10500	58318	10'58		58323	△
9000	58133	11:08		58142	

CLIENT: AREA:
LINE: 24000N DATE: 9/4/79
OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
9000E	58133	11:08		58142	△△
7300	57922	12:12		57933	
7400	57927	12'17		57938	
7500	57925	12'21		57936	
7600	57912	12'24		57923	
7700	57900	12'27		57911	
7800	57881	12'31		57892	
7900	57868	12'34		57879	
8000	57855	12'37		57867	
8100	57847	12'41		57859	
8200	57830	12'44		57842	
8300	57821	12'47		57833	
8400	57830	12'51		57842	
8500	57869	12'55		57881	
8600	57919	12'57		57931	
8700	57967	1300		57980	
8800	58012	13'04		58025	
8900	58064	13'07		58077	
9000	58129	13'12		58142	△△

CLIENT: AREA:
LINE: 24000N DATE: 9/4/79
OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
7300	57923	13'45		57933	△△△
5600	56771	15:00		56775	
5700	56880	15:07		56884	
5800	56985	15:12		56989	
5900	57080	15'15		57083	
6000	57148	15:18		57151	
6100	57215	15:23		57218	
6200	57273	15:27		57276	
6300	57318	15:30		57321	
6400	57358	15'33		57361	
6500	57326	15:36		57339	
6600	57441	15'39		57443	
6700	57519	15'42		57521	
6800	57605	15'45		57607	
6900	57720	15'48		57722	
7000	57797	15'52		57799	
7100	57858	15'54		57860	
7200	57912	15:57		57914	
7300	57933	16:00		57933	△△△

SOLO GEOPHYSICS AND CO. GROUND MAGNETICS SURVEY.

CLIENT: BHP & CO PTY LTD AREA: BRINKLEY SPRINGS
LINE: 24000N DATE: 12/04/79
OPERATOR: UNIT NO: #2 MP-2 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
5600	56773	~~16~~ 9:35		56775	
5500	56692	9:39		56700	
5400	56673	9:45		56675	
5300	56675	9:49		56677	
5200	56715	9:53		56717	
5100	56789	9:57		56792	
5000	56864	10:00		56868	
4900	56943	10:03		56947	
4800	57010	10:07		57014	
4700	57073	10:09		57077	
4600	57141	10:12		57145	
4500	57190	10:16		57194	
4400	57210	10:19		57214	
4300	57219	10:22		57223	
4200	57222	10:26		57226	
4100	57228	10:29		57232	
4000	57245	10:41		57250	
3900	57270	10:44		57275	
3800	57301	10:47		57306	
3700	57328	10:52		57333	

CLIENT: AREA:
LINE: 24000N DATE: 12/04/79
OPERATOR: UNIT NO: #2 MP-2 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
3600	57349	10:55		57354	
3500	57362	10:58		57373	
3400	57384	11:02		57390	
3300	57404	11:03		57410	
3200	57426	11:17		57432	
3100	57444	11:20		57451	
3000	57452	11:24		57459	
5600	57768	11:40		57775	

CLIENT: AREA:
LINE: 22000N DATE: 12/04/79
OPERATOR: UNIT NO: #2 MP-2 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
4300	57300	11:51		57297	
4200	57260	11:55		57257	
4100	57245	11:58		57247	
4000	57243	12:01		57240	
3900	57250	12:04		57247	
3800	57250	12:14		57247	
3700	57242	12:30		57240	
3600	57245	12:33		57243	
3500	57265	12:36		57263	
3400	57302	12:38		57300	
3300	57328	12:42		57326	
3200	57333	12:45		57331	
3100	57333	12:48		57336	
3000	57356	12:52		57354	
4300	57299	13:00		57297	

SOLO GEOPHYSICS AND CO. GROUND MAGNETICS SURVEY.

CLIENT: BHP & CO PTY LTD AREA: BRINKLEY SPRINGS

LINE: 24000 N DATE: 7/04/79

OPERATOR: mp-2 UNIT NO: #2 mp-2 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
Δ 13000 E	57760	9:12		57755	
11600 E	58412	10:14		58416	
117	58335	10:20		58339	
118	58226	10:23		58230	
119	58107	10:27		58111	
12000 E	57983	10:31		57987	
121	57878	10:35		57881	
122	57818	10:39		57821	
123	57793	10:43		57796	
124	57793	10:47		57796	
125	57803	10:50		57805	
12600	57823	10:55		57826	
127	57837	11:00		57839	
128	57828	11:05		57830	
129 E	57794	11:08		57796	
Δ 13000 E	57754	11:12		57755	

CLIENT: AREA:

LINE: 24000 N DATE: 7/04/79

OPERATOR: UNIT NO: #2 mp-2 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
Δ 11600 E	58411	14:25		58416	
11600 E	58415	11:24		58416	
11500	58464	14:32		58469	
11400	58473	14:37		58478	
11300	58441	14:41		58446	
11200	58382	14:43		58387	
11100	58311	14:48		58316	
11000	58277	14:52		58282	
10900	58254	14:55		58259	
10800	58227	14:58		58232	
10700	58241	15:02		58246	
10600	58268	15:05		58273	
10500 E	58317	12:30		58323	
Δ 10500	58318	1512		58323	

CLIENT: AREA:

LINE: DATE:

OPERATOR: UNIT NO: LAT:

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

SOLO GEOPHYSICS AND CO. GROUND MAGNETICS SURVEY.

CLIENT: The B.H.P Co Ltd **AREA:** BRINKLEY
LINE: 26000N **DATE:** 3/4/79
OPERATOR: CC. **UNIT NO:** mp-2/1 **LAT:**

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
9000E	58816	16^{38}	58°	58804	contd.
91	58784	16^{43}		58771	
92	58762	16^{47}		58749	
93	58777	16^{51}		58764	
94	58800	16^{55}		58787	
95	58841	16^{59}		58827	
96	58856	17^{03}		58842	
97	58877	17^{07}		58863	
98	58851	17^{11}		58836	
99	58802	17^{14}		58787	
10000E	58743	17^{17}		58728	Δ3

CLIENT: **AREA:**
LINE: 26000N **DATE:** 4/4/79
OPERATOR: BR. **UNIT NO:** **LAT:**

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
7000E	57948	12^{52}		58006	Δ4
5300E	57624	13^{09}		57678	Δ5
54	57639	13^{16}		57692	
55	57686	13^{20}		57738	Rises — Valley.
56	57782	13^{25}		57833	
57	57881	13^{29}		57931	"t" ck.
58	57951	13^{35}		58000	
59	57934	13^{39}		57982	edge breakaway.
6000E	57904	13^{44}		57951	top —
61	57862	13^{50}		57907	plateau
62	57838	13^{55}		57882	
63	57870	13^{58}		57914	
64	57958	14^{03}		58000	
65	58088	14^{07}		58130	
66	58229	14^{11}		58270	
67	58340	14^{15}		58380	
68	58350	14^{19}		58389	
69	58197	14^{23}		58235	
7000E	57969	14^{28}		58006	Δ4

CLIENT: **AREA:**
LINE: 26000N **DATE:**
OPERATOR: BR. **UNIT NO:** **LAT:**

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
5300E	57696	14^{40}		57678	Δ
52	57679	14^{49}		57709	
51	57752	14^{55}		57781	
5000E	57950	14^{58}		57809	
49	58388	15^{03}		58415	
48	58854	15^{07}		58880	
47	59050	15^{12}		59075	edge breakaway
46	58805	15^{16}		58829	
45	58520	15^{18}		58544	
44	58311	15^{24}		58334	
43	58152	15^{27}		58174	
42	58018	15^{32}		58039	
41	57918	15^{35}		57938	
4000E	57862	15^{39}		57882	
39	57829	15^{45}		57847	Track.
38	57797	15^{49}		57815	
37	57775	15^{52}		57792	
36	57749	15^{58}		57765	
35	57720	16^{01}		57735	
34	57679	16^{05}		57693	
33	57638	16^{10}		57678	Δ6
5300E	57668	16^{25}			Δ5

"Rain" washed out

Check DRIFT

SOLO GEOPHYSICS AND CO. GROUND MAGNETICS SURVEY.

CLIENT: The B.HP Co Ltd AREA: BRINKLEY SPRING

LINE: 26000N DATE: 3/4/79

OPERATOR: BR. UNIT NO: MP-2/1 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
13000E	57351	10 35		57371	Δ_1
129	57373	10 47		57376	
128	57377	10 57		57382	
127	57383	11 10		57390	
126	57391	11 17		57400	
125	57402	11 24		57412	
124	57413	11 31		57425	
123	57429	11 38		57442	
122	57445	11 46		57460	
121	57463	11 53		57479	
12000	57482	12 00		57500	Δ_2
13000	57351	12 10		57371	Δ_1
12000	57475	12 18			

CLIENT: AREA:

LINE: 26000 N DATE: 3/4/79

OPERATOR: B C.C. UNIT NO: MP-2/1 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
12000E	57475	12 49		57500	Δ_2
119	57504	13 02		57526	
118	57534	13 05		57555	
117	57573	13 09		57593	
116	57606	13 14		57625	
115	57637	13 18		57655	
114	57684	13 22		57701	
113	57722	13 26		57738	
112	57771	13 30		57786	
111	57819	13 33		57834	
11000E	57867	13 37		57881	
109	57922	13 41		57935	
108	57976	13 45		57988	
107	58051	13 49		58062	
106	58127	13 53		58137	
105	58217	13 57		58226	
104	58320	14 01		58328	
103	58416	14 04		58423	
102	58530	14 08		58536	
101	58641	14 12		58646	
10000E	58724	14 17		58728	Δ_3
12000E	57499	14 31		57500	Δ_2

CLIENT: AREA:

LINE: 26000 N DATE: 3/4/79

OPERATOR: CC UNIT NO: MP-2/1 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
10000E	58732	14 46		58728	Δ_3
7000E	58012	15 16		58006	Δ_4
71	57928	15 20		57922	
72	57863	15 25		57856	
73	57826	15 28		57819	
74	57817	15 32		57810	
75	57845	15 36		57837	
76	57905	15 40		57897	
77	57986	15 45		57978	
78	58064	15 49		58055	
79	58147	15 53		58138	
8000E	58220	15 57		58211	
81	58318	16 01		58309	
82	58430	16 05		58420	
83	58569	16 10		58559	
84	58686	16 14		58676	
85	58759	16 19		58748	
86	58813	16 22		58802	
87	58837	16 26		58826	
88	58849	16 30		58837	
89	58838	16 34		58826	contd:

CR 2452

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

AREA: E.L. 369 LAKE EYRE WEST

GRID: BRINKLEY SPRINGS

SURVEY: GRAVITY WITH LEVELLING

DATE: APRIL AND MAY, 1979

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

SEE PART I FOR MAGNETICS INFORMATION.

CONTENTS

1. REPORT

2. APPENDIX

3. GRID MAP (1:100000)

4. CULTURAL GRID MAP (1:250000)

5. FIELD SHEETS (as per below)

6. LINE PROFILES (as per below)

LINE NUMBERS

10000E	13000N	to	28000N	BRG	353½°/173½°
14000N	5000W	to	18000E	BRG	83°/263°
16000N	4000W	to	17000E	BRG	83°/263°
18000N	3000W	to	16000E	BRG	83°/263°
20000N	3000W	to	15000E	BRG	83°/263°
22000N	3000W	to	15000E	BRG	83°/263°
24000N	3000W	to	13000E	BRG	83°/263°
26000N	2000W	to	13000E	BRG	83°/263°

Separate cover, original field sheets.

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

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

DATE: APRIL and MAY, 1979

- - - - - - - - - - - - - - -

A combined survey of 206 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 kilometres north of William Creek and south 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-existent 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.

Three 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 three inches of rain experienced during the survey period. Two 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 20°C to 34°C, averaging about 30°C.

The Survey:

Two four-wheel drive vehicles and a large trailer were used to mobilize food supplies and petrol from Adelaide to the area.

One base camp was used for all survey areas as frequent rain made it impossible to move a load across country nearer to the northern grid. Severial periods of thunderstorm activity made access to the grid impossible for about one week. Thereafter, the ground was very wet and unstable, and survey progress was slow. Eventually, by working long hours, the crew completed the area and

2...

departed during the build up of another storm, which completely flooded the grids again.

A grid was established by using special calibrated odometers in the vehicles for distance measuring. Gridding at 300 meter intervals was done simultaneously with magnetics gravity and levelling. The base line was established in a true north-south direction using the George Creek intersection with a proposed grid line as the origin. This point by scale distance was 23400N on base line 10000E. This line was continued south to point 13000N and northward from 23400N to 28000N. Steel pegs were placed at origins of each line and white painted pegs at intermediate 300 meter intervals. The baseline has a bearing of $353\frac{1}{2}^{o}/173\frac{1}{2}^{o}$ magnetic. Grid lines were then established east and west from this line at a bearing of $83^{o}/263^{o}$. The baseline was optically sighted due to large magnetic deviations in the area.

The lines are	14000N	from	5000W	to	18000E
	16000N	from	4000W	to	17000E
	18000N	from	3000W	to	16000E
	20000N	from	3000W	to	15000E
	22000N	from	3000W	to	15000E
	24000N	from	3000W	to	13000E
	26000N	from	2000W	to	13000E
	10000E	from	13000N	to	28000N

Gravity Survey:

The optically levelled gravity stations were at 100 metre intervals along all survey lines. All stations were levelled to gravity dish height and 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, sub-base stations were carried from the main base station located at 26000N 13000E on Brinkley Springs grid. These are described in the appendix. The permanent base was located alongside a track, using a steel picket with permanent identity disc attached as described in appendix. Station readings were taken using two La Coste and Romberge temperature compensated gravity meters, No. G35 and No. G505. These were operated using closure loops not exceeding two hours. Instrument drift reflected tidal movements only. Accumulative level errors carrying loops was not adjusted out as poor access after rain reduced mobility on the grid and cross ties were not possible in a reasonable period of time. An instrument reading accuracy of .01 milligals was possible, however, wet unstable ground and the use of two gravity meters showed an error of .07 m.gal misclosure on a 38 km loop where 20 sub-bases were involved. The extra bases were necessary to tie around flooded areas not negotiable to a vehicle.

A calibration chart for each gravity meter is enclosed for any data checks.

Data Presentation:

All data was reduced in the field on the gravity field sheets. Station elevation was computed separately in a levels book.

As no datum for levels or an isogal station was conveniently located in the area an assumed datum level was made for main base station 26000N 13000E. All data was reduced relative to this zero level for both grids.

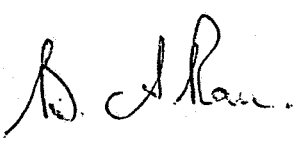
Data calculations incorporated drift corrections, latitude, and Bouguer free air elevation corrections at densities of 1.9, 2.4, 2.67 gms/cc and 1.9 selected for profiling.

Line profiles at 1:50000 scale and 1 cm = 1 milligal vertical were plotted.

Summary:

The combined Brinkley Springs, Lagoon Hill survey took a period of six weeks to complete 206 line kilometres. The first grid was completed in two weeks, however, thunderstorms and flooding reduced progress when access was impossible for over one week to the latter grid. In dry weather, two weeks would have been sufficient to complete the area.

for SOLO GEOPHYSICS AND CO.



BRIAN RAU
MANAGER

APPENDIX

Communications:

A telephone is available at the William Creek Hotel-Store. Anna Creek homestead has a regular radio schedule at 7:45 a.m., 11:45 a.m., 6:45 p.m. using Flying Doctor Radio frequency 2020, Dick Nunn the manager. R.F.D.S. at Port Augusta is available for operators of equipment on their frequencies 4010 and 6890.

Petrol and Food:

Petrol is available from pump or bulk in 44 gallon drums from William Creek. Fresh food supplies not carried at William Creek store, very limited stock. Can be ordered by telephone from Maree and delivered by train. Fresh meat available from Anna Creek.

Water:

Three hot flowing artesian bores are on the grid area plus numerous hot springs. All surface water can be assumed to be saline. Mussel waterhole in Davenport Creek had a good supply of water after creeks stopped flowing. The main Neales River was almost fresh water, but not easily accessible to water-trucks. Dams in the area were all full after the rains. See diagram for location of bores and dam.

Access:

Access to grid area is by station tracks from William Creek as described in the notes. However, sandy creek crossings may not be easily negotiated by heavy drill trucks unless some preparation of the track is made.

Grid access across country is more difficult as there are numerous small creeks and very soft surface soils to negotiate. Heavy vehicles would bog in this soil and grading would not be very successful as there seems to be no bottom to it. If the vegetation supports the topsoil after the rain, access may be better.

Surveyors and Equipment:

Two crews operated in the grid area. Personnel were Brian Rau, Charles Collogan, Phillip Rundle and John Gowland. Two Nissan Patrol four-wheel drive vehicles 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. G35 and No. G505 were used. Two precision automatic Sokkisha B-1 levels were used and staffs for optical levels.

TABLE 1

MILLIGAL VALUES FOR LACOSTE & ROMBERG, INC. MODEL G GRAVITY METER #G- 505

COUNTER READING*	VALUE IN MILLIGALS	FACTOR FOR INTERVAL	COUNTER READING*	VALUE IN MILLIGALS	FACTOR FOR INTERVAL
000	000.00	1.02491			
100	102.49	1.02461	3600	3686.28	1.02434
200	204.95	1.02439	3700	3788.71	1.02436
300	307.39	1.02423	3800	3891.15	1.02437
400	409.81	1.02410	3900	3993.58	1.02439
500	512.22	1.02400	4000	4096.02	1.02440
600	614.62	1.02392	4100	4198.46	1.02442
700	717.02	1.02385	4200	4300.90	1.02442
800	819.40	1.02379	4300	4403.35	1.02441
900	921.78	1.02375	4400	4505.79	1.02440
1000	1024.16	1.02372	4500	4608.23	1.02438
1100	1126.53	1.02369	4600	4710.67	1.02436
1200	1228.90	1.02366	4700	4813.10	1.02433
1300	1331.26	1.02365	4800	4915.53	1.02430
1400	1433.63	1.02365	4900	5017.96	1.02427
1500	1535.99	1.02365	5000	5120.39	1.02422
1600	1638.36	1.02364	5100	5222.81	1.02415
1700	1740.72	1.02364	5200	5325.23	1.02408
1800	1843.09	1.02365	5300	5427.64	1.02399
1900	1945.45	1.02367	5400	5530.04	1.02387
2000	2047.82	1.02370	5500	5632.42	1.02377
2100	2150.19	1.02373	5600	5734.80	1.02365
2200	2252.56	1.02377	5700	5837.16	1.02353
2300	2354.94	1.02383	5800	5939.52	1.02339
2400	2457.32	1.02388	5900	6041.86	1.02324
2500	2559.71	1.02394	6000	6144.18	1.02309
2600	2662.10	1.02399	6100	6246.49	1.02290
2700	2764.50	1.02404	6200	6348.78	1.02271
2800	2866.91	1.02409	6300	6451.05	1.02246
2900	2969.31	1.02413	6400	6553.30	1.02221
3000	3071.73	1.02417	6500	6655.52	1.02195
3100	3174.14	1.02421	6600	6757.71	1.02165
3200	3276.57	1.02424	6700	6859.88	1.02133
3300	3378.99	1.02427	6800	6962.01	1.02095
3400	3481.42	1.02428	6900	7064.11	1.02060
3500	3583.84	1.02432	7000	7166.17	

* Note: Right-hand wheel on counter indicates approximately 0.1 milligal.

7-12-78
CR

TABLE I

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	1.05218
2600	2731.10	1.05239
2700	2836.34	1.05262

B R I N K L E Y S P R I N G S G R I D

LACOSTE AND ROMBERG METER NO. G-505 GRAVITY SUB-BASES

1. Main Gravity Base 26000N 13000E (assumed to be zero level).

2. All sub-base levels are those required to equate these bases to main base level.

3. All levels are shown in instrument scale divisions and milligals.

		Scale Divisions	Milligals
LINE 10000E (Baseline)	26000N	- .38	- .39
	24000N	- 4.75	- 4.86
	23400N	- 6.95	- 7.12
	22000N	- 9.56	- 9.79
	20000N	-12.76	-13.07
	18000N	-12.35	-12.65
	16000N	-12.98	-13.29
	14000N	-12.15	-12.44
	13000N	-11.92	-12.21
LINE 26000N	13000E	0	0
	12000E	1.04	1.07
	10000E	- .38	- .39
	7000E	- 4.59	- 4.70
	5300E	- 6.27	- 6.42
	3300E	- 2.94	- 3.01
	2000E	- 4.53	- 4.64
LINE 20000N	10000E	-12.76	-13.07
	8000E	- 9.06	- 9.28
	6000E	- 7.02	- 7.19
	4000E	- 8.41	- 8.61
	3000E	- 8.36	- 8.56
LINE 18000N	10000E	-12.35	-12.65
	7400E	-12.11	-12.40
	5000E	- 9.02	- 9.24
	3000E	- 7.85	- 8.04

2/...

		Scale Divisions	Milligals
LINE 16000N	10000E	-12.98	-13.29
	7700E	- 9.04	- 9.26
	6700E	-11.07	-11.34
	4000E	-5.68	- 5.82
LINE 14000N	10000E	-12.15	-12.44
	7700E	- 9.85	-10.09
	5000E	- 5.92	- 6.06

B R I N K L E Y S P R I N G S G R I D

LACOSTE AND ROMBERG METER NO. G-35 GRAVITY SUB-BASES

1. Main Gravity Base 26000N 13000E (assumed to be zero level).

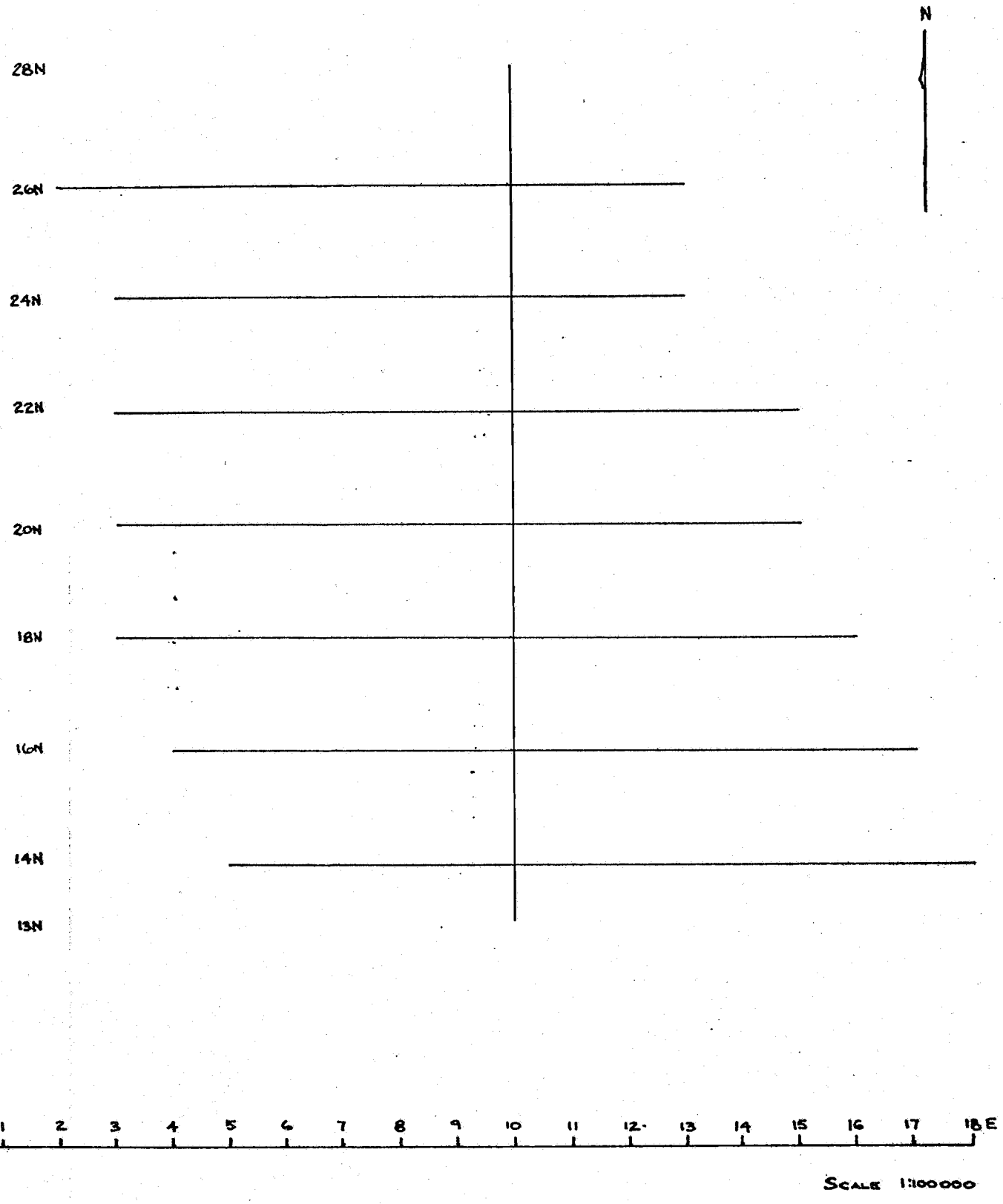
2. All sub-base levels are those required to equate these bases to main base level.

3. All levels are shown in instrument scale divisions and milligals.

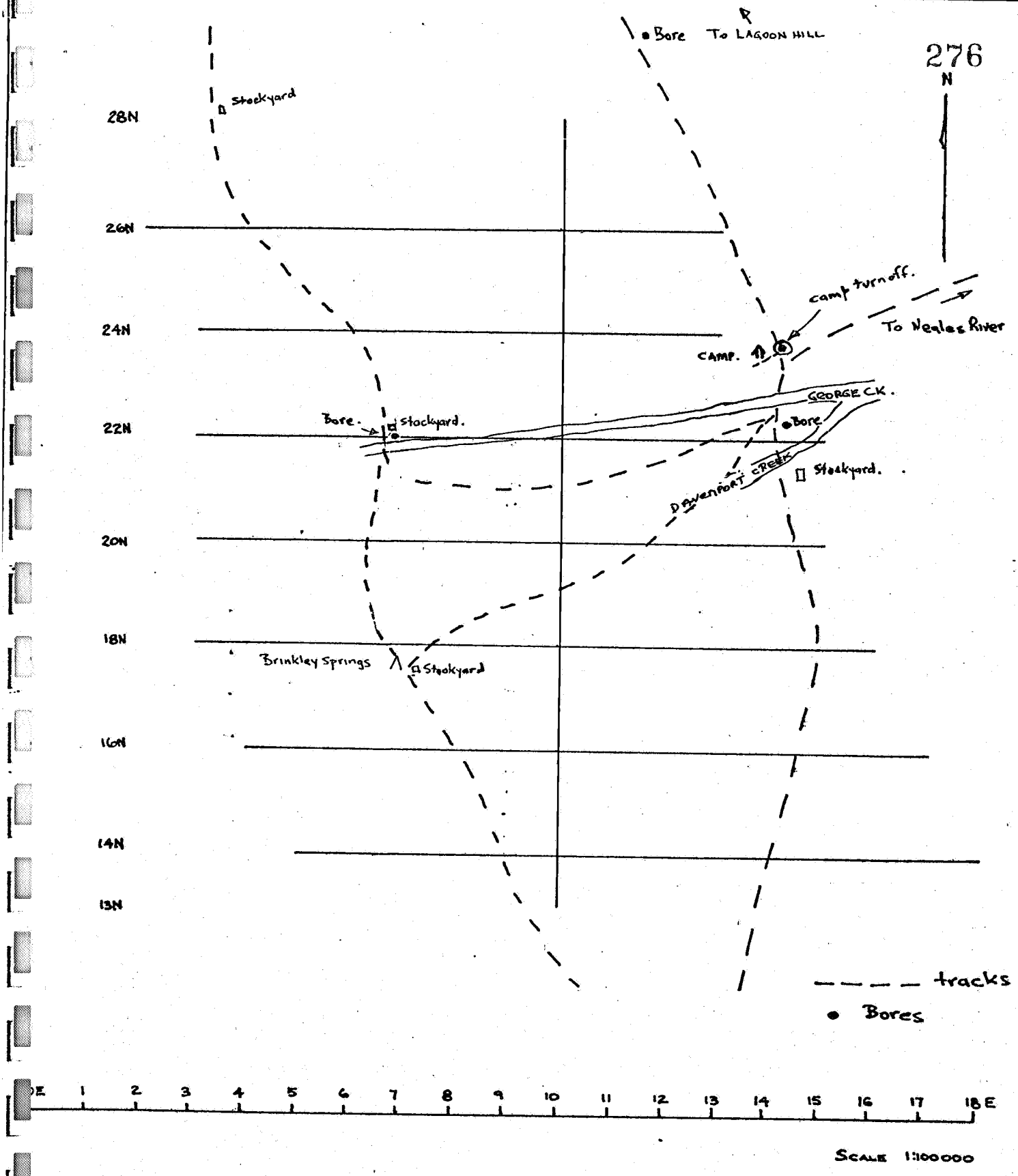
		Scale Divisions	Milligals
LINE 10000E (Baseline)	26000N	- .37	- .39
	24000N	- 4.65	- 4.86
	23400N	- 6.81	- 7.12
	22000N	- 9.36	- 9.79
	20000N	-12.50	-13.07
	18000N	-12.10	-12.65
	16000N	-12.71	-13.29
	14000N	-11.90	-12.44
	13000N	-11.67	-12.20
LINE 24000N	13000E	- 3.21	- 3.36
	11600E	- 4.53	- 4.74
	10500E	- 4.49	- 4.69
	10000E	- 4.65	- 4.86
	9000E	- 4.71	- 4.92
	7300E	- 5.54	- 5.79
	5600E	- 5.94	- 6.21
	3000E	- 3.77	- 3.94
LINE 22000N	13000E	- 7.07	- 7.39
	11000E	- 8.86	- 9.26
	10000E	- 9.36	- 9.79
	9000E	- 9.41	- 9.84
	8000E	-10.13	-10.59
	6000E	- 6.11	- 6.39
	4300E	- 5.4[illegible]	- 5.68

2/...

		Scale Divisions	Milligals
LINE 20000N	10000E	-12.50	-13.07
	12000E	- 9.86	-10.31
	14000E	- 8.41	- 8.79
LINE 18000N	10000E	-12.10	-12.65
	12000E	-12.45	-13.02
	14000E	-11.24	-11.75
LINE 16000N	10000E	-12.71	-13.29
	12000E	-16.84	-17.61
	14000E	-14.27	-14.92
LINE 14000N	10000E	-11.90	-12.44
	12000E	-14.13	-14.77
	14000E	-14.74	-15.41
	15000E	-13.39	-14.00
	16300E	-12.33	-12.89



BRINKLEY SPRINGS GRID

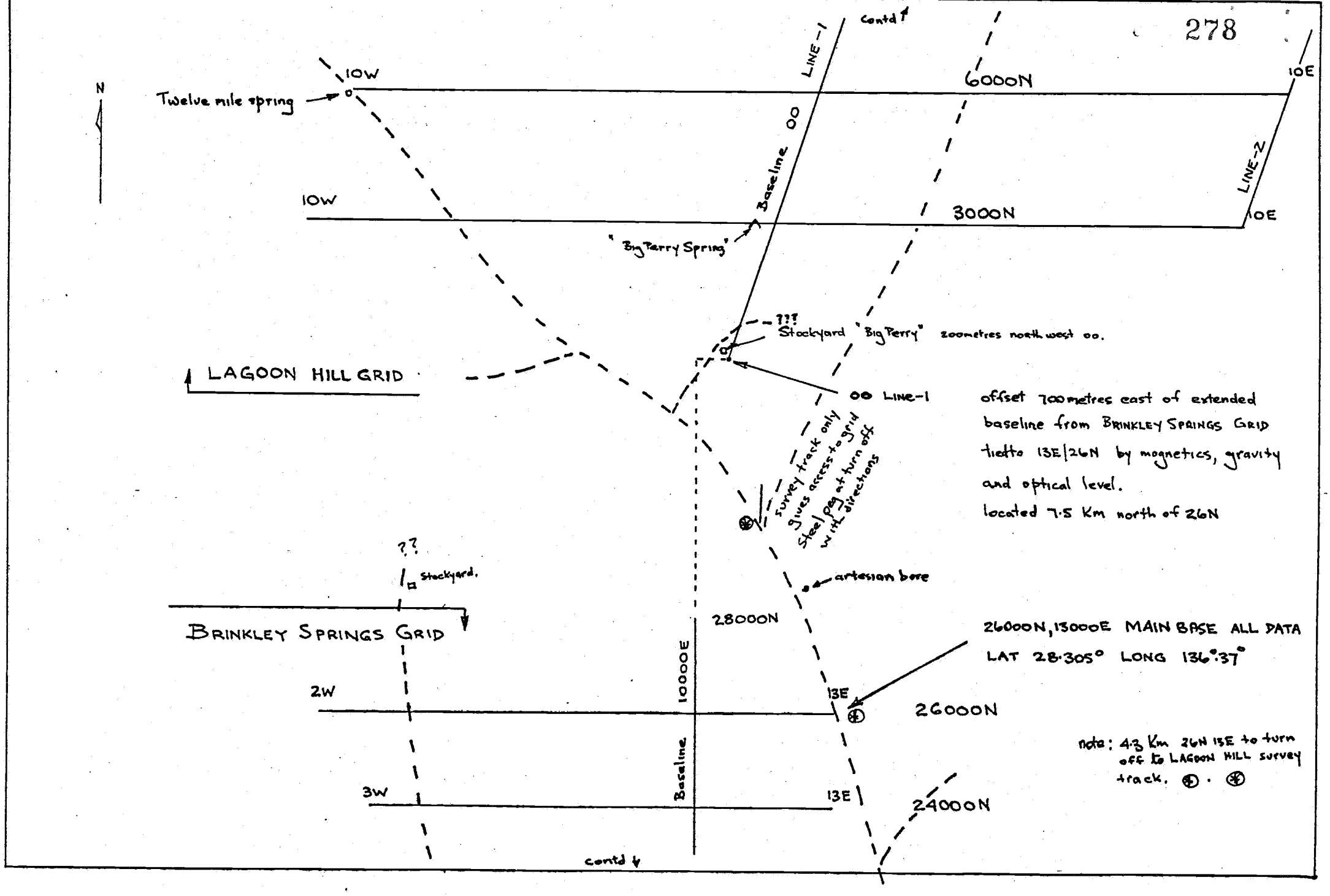


BRINKLEY SPRINGS GRID

EDITION 1 DNR WARRINA 1:250000 SHEET REFER TO THIS MAP AS: SH 53-3
EDITION 1
SERIES R 502
277

41 42 15' 43 44 45 136°30'
28°00'

Kalkamunna Waterhole
Tardalakarinna Waterhole
CREEK
Cooldoolanna Waterhole
Jupiter Waterhole
Wattle Waterhole
52
52
CANEGRASS RIDGE
Creek
NEALES
51
51
ROSS HILL
LAGOON HILL 107 Km
Lambing
50
50
Peschera Spring Waterhole
41 42 43 44 45
Outside Spring
The Vaughan Spring
49
49
Bulloo
Bulloo Mills Spring
Fanny Spring
Big Dusty Spring
Levi Spring
48
48
BRINKLEY SPRINGS 99Km
Hayden Spring
Creek
Trig Waterhole
Creek
George
Russel Waterhole
47
47
Brinkley Springs
Tarlton Springs (I.D.)
Creek
46
46
Creek
Dashwood Creek
45
45
Creek
42 43 45
Coopichina Lake
43
43
William
Brindle
Warrenghorne Well (Dry)
ASHBY HILL
136°30'
28°00'


N
Twelve mile spring
10W
LINE-1
Contd ↑
6000N
10E
Baseline 00
LINE-2
10W
3000N
10E
"Big Perry Spring"
??? Stockyard "Big Perry" 200metres north west 00.
LAGOON HILL GRID
00 LINE-1
offset 700 metres east of extended baseline from BRINKLEY SPRINGS GRID tieto 13E|26N by magnetics, gravity and optical level.
located 7.5 Km north of 26N
survey track only gives access to grid Steel peg at turn off with directions
??
stockyard.
artesian bore
BRINKLEY SPRINGS GRID
28000N
26000N, 13000E MAIN BASE ALL DATA
LAT 28·305° LONG 136°·37°
2W
10000E
13E
26000N
note: 4·3 Km 26N 13E to turn off to LAGOON HILL survey track.
Baseline
3W
13E
24000N
contd ↓

Permanent Steel Grid Pegs:

1. BRINKLEY SPRINGS

On baseline 10000E @ 13N, 14N, 16N, 18N, 20N, 22N, 24N, 26N and 28N.

Around grid at track crossings and end of lines.

26N	@	2W,	13E
24N	@	3W,	13E
22N	@	3W,	15E
20N	@	3W,	15E
18N	@	3W,	16E
16N	@	4W,	17E
14N	@	5W,	18E

2. LAGOON HILL

On baseline line - 1 @ 00, 2N, 3N, 6N, 9N, 12N, 15N, 16.4N

line - 2 @ 3N, 6N, 9N, 12N

Around grid at track crossings and end of lines

3N	@	10W,	10E	6.5W *
6N	@	10W,	10E	
9N	@	5W,	10E	
12N	@	5W,	10E	
15N	@	5W,	14E	

3. Turn off to Lagoon Hill, survey track, 8.5 km to line 3000N on tag.

4. Base Station 26000N 13000E

Rain prevented locating some steel pegs due to hasty departure from the area.

5. All pegs flagged with red and yellow tape and a permanent identity tag is attached.

Main Base Station 26000N 13000E

is datum for all data reductions.

Location: On east side of track;
4 km north from Umbum artesian bore taking left track after George Creek crossing.

Identification: 1 metre high steel picket with plastic dumpy peg located at base and ring of white quartz rocks around gravity datum.

Aluminium labels on picket:	SOLO GEOPHYSICS GRAVITY BASE APRIL, MAY 1979	BRINKLEY SPRINGS GRID E.L. 369	LAGOON HILL GRID E.L. 369

Assumed Elevation: 100.00 metres.

Latitude: 28.305°

Longitude: 136.37°

Magnetics Base Level - wood peg. 57371 nT

See diagrams for location.

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	8.0
Gate (closed)	
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 parallel fence line	21.29
bower hut, stockyard dam	25.0
small creek	32.5
road junction (take left 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, + side track to left.	53.3
old chimney + ruin.	54.0 ⊛

Continue 2Km across George Ck to steel peg, camp turn off. (take left track over George Ck.) Stop, see next page.

Contd. to Naales River 1977 Grid

		reset dist
⊛	take sidetrack to Davenport Ck	53.3 = 0
	artesian bore about 250m north of road, look for birds & cattle & green swamp to locate, easy to miss. see diag of bore.	0
	George Creek	1.8
	road junction, take right hand track,	
note:	track can become very indistinct from now on unless used regularly; follow carefully	2.
	stockyard across creek to left of track + trees. dead cow, skeleton on right hand side of track.	10
	steel grid peg	
	base station steel peg	21
	stockyard	23

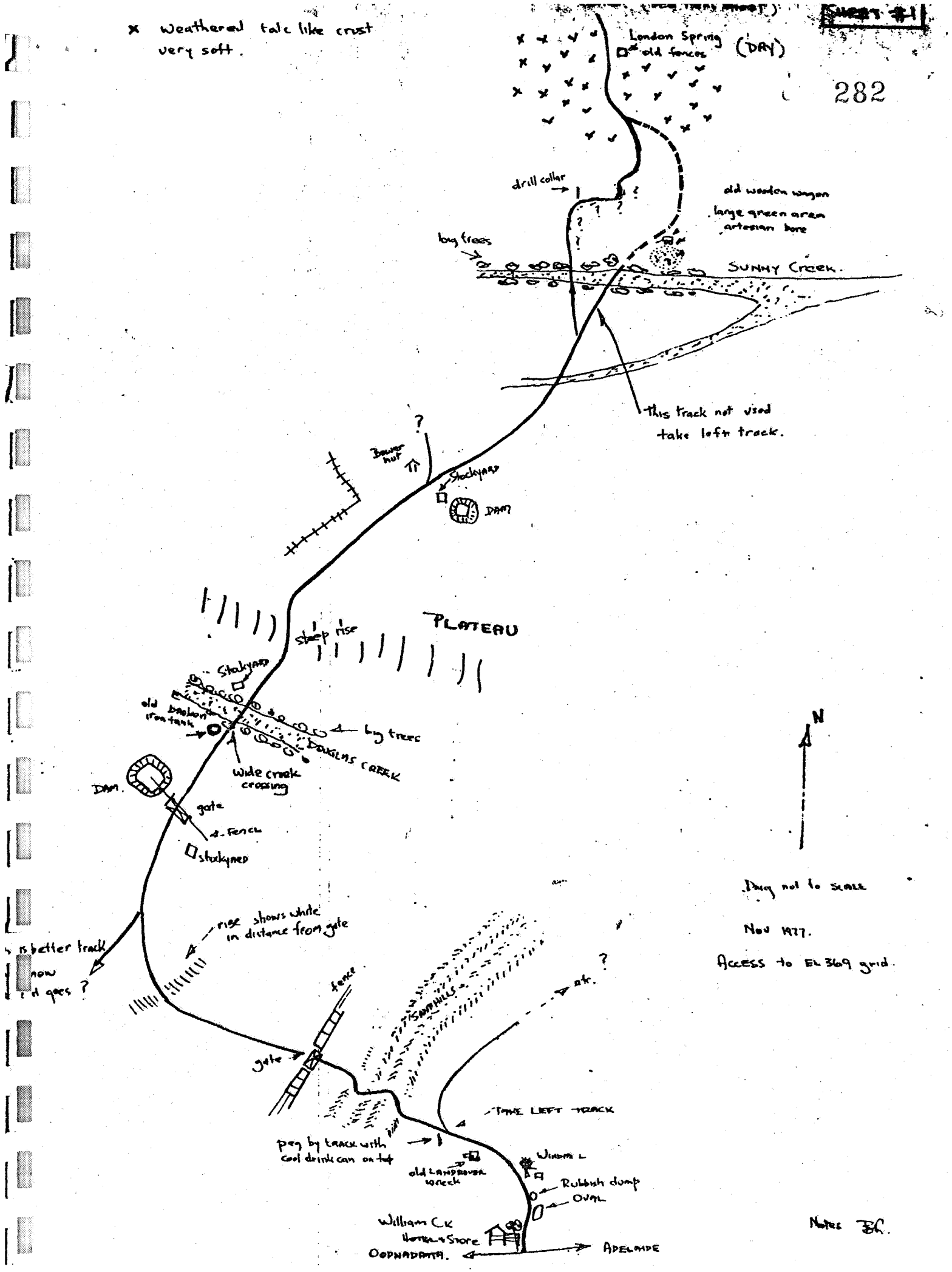
Contd: Total. 76

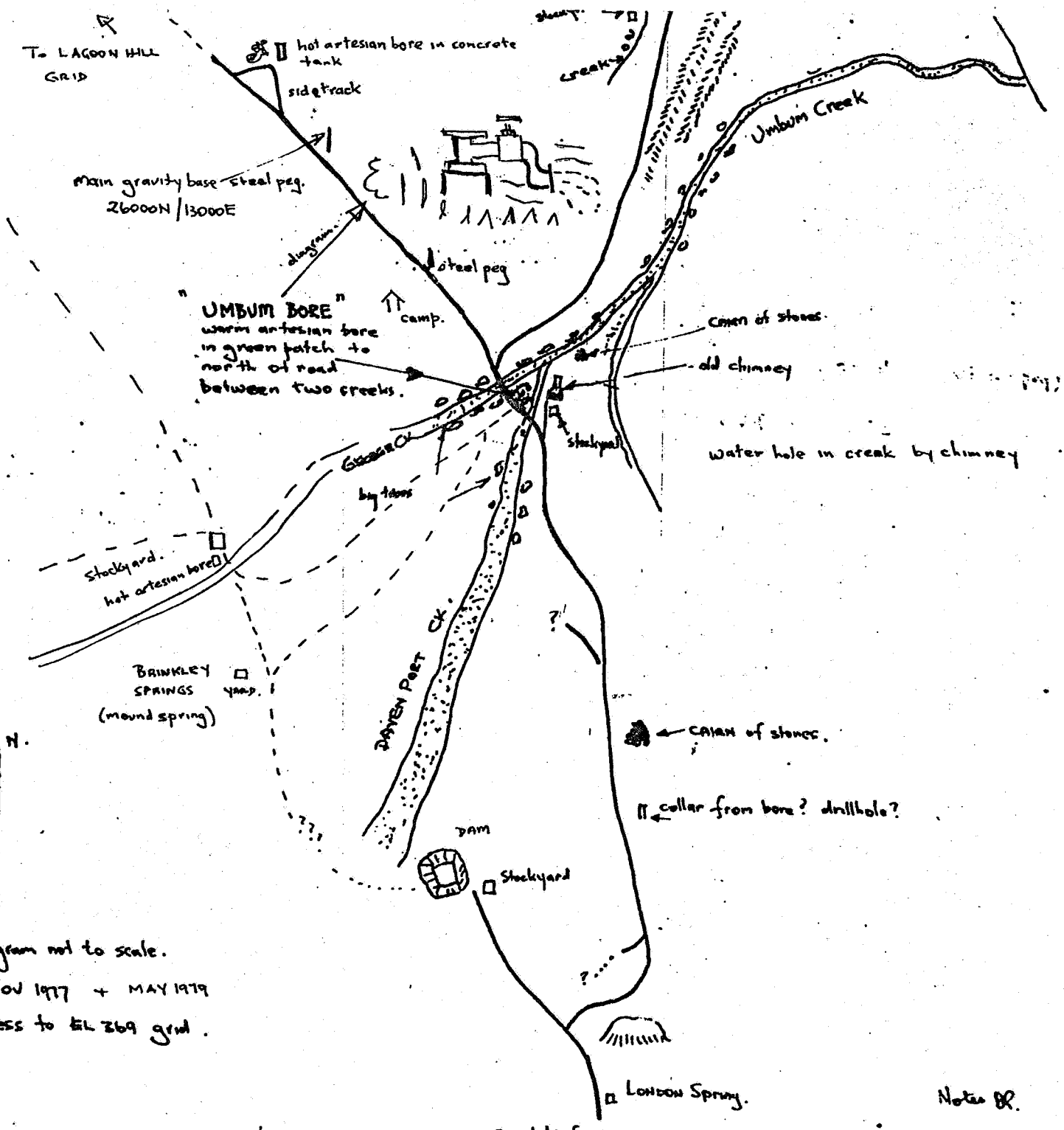
Turn off to baseline see wooden peg markers just before stockyard on side of track.

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.

× Weathered talc like crust very soft.





agram not to scale.

Nov 1977 + MAY 1979

ess to EL 269 grid.

contd: from previous page

FIELD DATA SHEETS FOR GRAVITY SURVEY USING
LACOSTE AND ROMBERG METERS Nos. G-35 AND G-505.

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE BHP Co LTD.
AREA:
GRID: BRUNKLEY SPRINGS
LINE: 10,000 E BASELINE
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LACOSTE # 505
METER CALIBRATION:
BOUGUER DENSITY:
DRIFT CORRECTION: -0.01
AREA MAGNETIC VARIATION:

OPERATOR: C callaghan
DATE: 9/4/79

Notes:

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV.		
						Δ_1	Δ_2	Δ_3
14000 N			2726.24	10.32	108.179	6.16	5.99	5.90
13000 N			726.02	11.17	108.510	5.32	5.15	5.05
13160			726.04	11.33	108.255	5.35	5.18	5.08
13200			726.24	11.36	107.275	5.40	5.25	5.16
13300			726.16	11.40	107.512	5.44	5.28	5.20
13400			726.20	11.43	107.399	5.52	5.37	5.28
13500N			726.36	11.46	106.767	5.61	5.47	5.39
13600			726.30	11.50	107.051	5.66	5.53	5.45
13700			726.33	11.53	107.138	5.80	5.65	5.57
13800			726.48	11.57	106.949	5.92	5.78	5.70
13900N			726.48	12.00	106.924	6.04	5.89	5.81
1"								
14000N			726.26	12.04	108.179	6.16	5.99	5.90

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE BHP Co LTD.
AREA: LAKE EYRE WEST E.L.
GRID: BRINKLEY SPRINGS.
LINE: 10000E BASELINE
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: Lacoste #9 505.
METER CALIBRATION:
BOUGUER DENSITY:
DRIFT CORRECTION: -0.07 SD Per hour.
AREA MAGNETIC VARIATION:

OPERATOR: M C Gilligan
DATE: 9/4/79.

Notes:

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV.		
						Δ_1	Δ_2	Δ_3
14000N			2726.25	12.37	108.179	6.16	5.99	5.90
14100			726.22	12.41	108.545	6.28	6.10	6.01
14200			726.41	12.45	108.666	6.42	6.25	6.16
143			726.41	12.48	108.121	6.51	6.34	6.24
144			726.42	12.52	108.281	6.62	6.44	6.35
145			726.23	12.56	109.314	6.72	6.53	6.42
146			726.07	13.00	110.488	6.89	6.67	6.55
147			726.30	13.03	109.742	7.02	6.82	6.71
148			726.35	13.06	109.725	7.13	6.93	6.82
149			726.44	13.10	109.609	7.26	7.06	6.95
15000N			726.47	13.13	109.570	7.35	7.15	7.04
151			726.59	13.17	109.082	7.42	7.23	7.13
152			726.59	13.20	109.072	7.48	7.29	7.19
153			726.70	13.23	108.722	7.58	7.40	7.30
154			726.66	13.26	108.814	7.63	7.44	7.34
155			726.68	13.29	108.766	7.70	7.52	7.42
156			726.78	13.32	108.444	7.79	7.62	7.52
157			726.70	13.36	108.863	7.87	7.68	7.58
158			726.87	13.39	108.278	7.98	7.80	7.71
159			726.99	13.43	107.744	8.04	7.88	7.79
16000N			2727.16	13.46	107.209	8.16	8.00	7.92
14000N			726.34	13.58	108.179	6.16	5.99	5.90

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: The B.H.P Co Ltd
AREA: LAKE EYRE WEST E.L.
GRID: BRINKLEY SPRINGS
LINE: B/L 10000E
LINE MAGNETIC BRG: 353½°
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste # G505
METER CALIBRATION:
BOUGUER DENSITY:
DRIFT CORRECTION: -0.02.
AREA MAGNETIC VARIATION:

OPERATOR: C Gallagan.
DATE: 9/4/79

Notes:

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV		
						Δ_1	Δ_2	Δ_3
16000N			2727.18	14.12	107.209	8.15	8.00	7.92
161			727.22	14.15	107.096	8.23	8.09	8.00
162			727.15	14.19	107.369	8.29	8.14	8.05
163			727.00	14.22	107.906	8.33	8.16	8.07
164			727.16	14.26	107.248	8.41	8.26	8.17
165			727.15	14.29	107.171	8.45	8.30	8.21
166			727.14	14.33	107.068	8.48	8.33	8.25
167			727.13	14.36	107.223	8.57	8.42	8.34
168			727.07	14.40	107.484	8.64	8.48	8.39
169			727.04	14.44	107.494	8.66	8.52	8.43
17000N			727.00	14.47	107.724	8.75	8.59	8.50
171			727.03	14.51	107.614	8.84	8.68	8.59
172			726.99	14.54	107.932	8.92	8.76	8.67
173			726.97	14.58	108.089	9.01	8.84	8.74
174			726.96	15.01	108.227	9.09	8.92	8.83
175			726.90	15.05	108.521	9.17	8.99	8.89
176			726.75	15.09	109.001	9.19	9.00	8.90
177			726.63	15.13	109.382	9.22	9.02	8.92
178			726.59	15.16	109.369	9.24	9.05	8.94
179			726.52	15.18	109.453	9.26	9.06	8.95
18000N			726.57	15.24	109.325	9.34	9.15	9.04
16000N.			2 727.21	15.36	107.209	8.17	8.02	7.94
18000N			2726.59	16.04	109.325			

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: The B.H.P. Co Ltd.
AREA:
GRID: BRINKLEY SPRINGS.
LINE: B/L 10000 E
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste # G 505
METER CALIBRATION:
BOUGUER DENSITY:
DRIFT CORRECTION: -.01 s.d per hour
AREA MAGNETIC VARIATION:

OPERATOR: CC
DATE: @ 11/9/79.

Notes:

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV.		
						Δ_1	Δ_2	Δ_3
20000N			2726.92	11.18	96.342	8.16	8.23	8.27
199			727.12	11.24	96.137	8.25	8.33	8.37
198			727.21	11.27	96.382	8.32	8.40	8.44
197			727.21	11.30	97.066	8.41	8.48	8.51
196			727.20	11.35	97.885	8.52	8.57	8.59
195			727.06	11.39	99.386	8.65	8.67	8.67
194			727.34	11.43	99.048	8.79	8.81	8.82
193			727.38	11.45	99.832	8.94	8.95	8.95
192			727.49	11.49	100.632	9.17	9.16	9.15
191			727.40	11.52	102.181	9.37	9.32	9.30
19000N			727.20	11.56	103.929	9.49	9.41	9.37
189			726.32	12.00	108.613	9.59	9.41	9.32
188			726.62	12.05	107.980	9.69	9.52	9.43
187			726.86	12.08	107.327	9.72	9.56	9.48
186			726.65	12.13	108.683	9.74	9.56	9.46
185			726.64	12.17	108.766	9.68	9.50	9.40
184			726.59	12.21	109.030	9.62	9.43	9.33
183			726.53	12.24	109.443	9.59	9.39	9.28
182			726.49	12.27	109.674	9.53	9.33	9.22
181			726.51	12.31	109.570	9.46	9.26	9.15
18000N			726.53	12.35	109.325	9.36	9.16	9.05
20000N			726.94	12.53	96.342	8.16	8.23	8.27

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: The B.H.P. Co Ltd.
AREA:
GRID: BRINKLEY SPRINGS.
LINE: B/L 10000 E
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: La Coste # G 505
METER CALIBRATION:
BOUGUER DENSITY:
DRIFT CORRECTION: -.01 s.d per hour
AREA MAGNETIC VARIATION:

OPERATOR: cc
DATE: 11/4/79.

Notes:

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV. Δ_1	Δ_2	Δ_3
20000N			2726.92	11.18	96.342	8.16	8.23	8.27
199			727.12	11.24	96.137	8.25	8.33	8.37
198			727.21	11.27	96.382	8.32	8.40	8.44
197			727.21	11.30	97.066	8.41	8.48	8.51
196			727.20	11.35	97.885	8.52	8.57	8.59
195			727.06	11.39	99.386	8.65	8.67	8.67
194			727.34	11.43	99.048	8.79	8.81	8.82
193			727.38	11.45	99.832	8.94	8.95	8.95
192			727.49	11.49	100.632	9.17	9.16	9.15
191			727.40	11.52	102.181	9.37	9.32	9.30
19000N			727.20	11.56	103.929	9.49	9.41	9.37
189			726.32	12.00	108.613	9.59	9.41	9.32
188			726.62	12.05	107.980	9.69	9.52	9.43
187			726.86	12.08	107.327	9.72	9.56	9.48
186			726.65	12.13	108.683	9.74	9.56	9.46
185			726.64	12.17	108.766	9.68	9.50	9.40
184			726.59	12.21	109.030	9.62	9.43	9.33
183			726.53	12.24	109.443	9.59	9.39	9.28
182			726.49	12.27	109.674	9.53	9.33	9.22
181			726.51	12.31	109.570	9.46	9.26	9.15
18000N			726.53	12.35	109.325	9.36	9.16	9.05
20000N			726.94	12.53	96.342	8.16	8.23	8.27

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: The B.H.P. Co Ltd
AREA:
GRID: "Brinkley Springs"
LINE: BL 10000E
LINE MAGNETIC BRG: 353½°
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste # G505
METER CALIBRATION: see sheets
BOUGUER DENSITY:
DRIFT CORRECTION: .03 s.d per hour
AREA MAGNETIC VARIATION:

OPERATOR: CC.
DATE: 11/4/79

Notes:

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV. ρ_1	ρ_2	ρ_3
22000N			2.723.79	9.38	96.904	6.37	6.43	6.47
219			723.96	9.44	97.082	6.52	6.58	6.61
218			724.16	9.47	97.054	6.65	6.71	6.74
217			724.37	9.51	96.95	6.77	6.84	6.87
216			724.52	9.54	96.807	6.83	6.89	6.93
215			724.72	9.57	96.693	6.94	7.01	7.05
214			724.87	10.01	96.688	7.03	7.10	7.13
213			725.01	10.05	96.676	7.10	7.17	7.21
212			724.93	10.08	97.801	7.21	7.26	7.28
211			724.52	10.12	100.113	7.25	7.25	7.25
21000N			724.60	10.16	100.555	7.37	7.36	7.35
209			724.23	10.19	102.786	7.44	7.38	7.35
208			724.89	10.24	100.578	7.54	7.53	7.52
207			725.38	10.28	98.936	7.60	7.62	7.64
206			725.60	10.31	98.366	7.63	7.66	7.68
205			725.14	10.35	101.021	7.70	7.68	7.67
204			724.67	10.40	103.744	7.77	7.70	7.65
203			725.77	10.44	99.670	7.90	7.91	7.91
202			726.03	10.47	99.145	7.98	8.00	8.01
201			726.71	10.51	96.798	8.08	8.14	8.18
20000N			2 726.95	10.56	96.342	8.15	8.23	8.27
22000N			2 723.75	11.07	96.904	6.37	6.43	6.47
20000N			2 726.92	11.18	96.342			

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE BHP CO LTD.
AREA:
GRID: BRUNDLEY SPRINGS
LINE: 10000 E BASE LINE
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LACOSTE & Romberg # 505
METER CALIBRATION:
BOUGUER DENSITY:
DRIFT CORRECTION: 0.61 SD 14 R.
AREA MAGNETIC VARIATION:

OPERATOR: a collegan.
DATE: 6/4/79.

Notes:

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV		
						Δ_1	Δ_2	Δ_3
△△6 22000N			723.63	9 45	96.904	6.37	6.43	6.47
23400N			721.00	10 39	100.330	5.41	5.41	5.40
233			721.20	10 44	100.06	5.49	5.49	5.49
232			721.25	10 47	99.974	5.45	5.45	5.45
231			721 39	10 50	99.723	5.47	5.48	5.48
23000N			721.48	10 54	99.498	5.44	5.45	5.46
229			721.76	10 57	98.554	5.45	5.48	5.49
228			722.00	11 00	97.899	5.48	5.52	5.54
227			722 12	11 04	97.622	5.47	5.52	5.54
226			722 34	11 07	97.197	5.53	5.59	5.62
225			722 50	11 11	97.177	5.62	5.68	5.71
224			722.70	11 14	97.138	5.75	5.81	5.84
223			722.90	11 18	97.313	5.93	5.98	6.01
222			723.14	11 21	97.193	6.08	6.13	6.17
221			723.43	11 25	96.988	6.26	6.32	6.36
△△ 22000N			723.62	11 30	96.904	6.37	6.43	6.47
23400N			721.01	11 44	100.330			

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: The B.H.P. Co Ltd
AREA:
GRID: Brinkley Springs.
LINE: 10000E Baseline
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste # G505
METER CALIBRATION:
BOUGUER DENSITY:
DRIFT CORRECTION: 0 s.d per hour.
AREA MAGNETIC VARIATION:

OPERATOR: B Shaw.
DATE: 5/4/79.

Notes:

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV. Δ_1	Δ_2	Δ_3
26000N			2714.49	1535	105.187	1.58	1.47	1.41
259			714.73	1540	105.474	1.82.	1.71	1.64
258			715.04	1544	105.472	2.07	1.95	1.89
257			715.35	1547	105.429	2.31	2.20	2.13
256			715.61	1551	105.636	2.56	2.44	2.37
255			716.11	1555	104.981	2.85	2.75	2.69
254			716.24	1600	105.649	3.07	2.95	2.89
253			716.35	1602	105.837	3.16	3.03	2.97
252			716.56	1606	105.954	3.33	3.20	3.14
251			716.75	1610	106.012	3.47	3.34	3.28
25000N			716.88	1614	106.222	3.58	3.45	3.38
249			716.98	1617	106.541	3.69	3.55	3.48
248			717.07	1620	106.750	3.76	3.62	3.54
247			717.27	1623	106.54	3.85	3.71	3.64
246			717.38	1626	106.742	3.94	3.80	3.72
245			717.46	1631	106.928	4.00	3.86	3.78
244			717.60	1635	106.822	4.05	3.91	3.83
243			717.86	1637	106.372	4.15	4.01	3.94
242			718.40	1640	104.793	4.27	4.17	4.11
241			718.72	1645	104.087	4.37	4.28	4.24
24000N			718.76	1649	104.694	4.48	4.38	4.33
239			718.96	1654	104.592	4.59	4.50	4.44
238			719.49	1657	103.246	4.76	4.69	4.66
237			719.54	1701	103.984	4.91	4.83	4.78
236			720.18	1705	102.511	5.16	5.11	5.08
235			720.66	1708	101.281	5.30	5.28	5.26
234			721.06	1712	100.330	5.43	5.42	5.42
26000N			714.49	1727	105.187	1.58	1.73	1.41

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: The B.H.P Co Ltd.
AREA:
GRID: Brinkley Springs
LINE: 10000E Baseline
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: G505
METER CALIBRATION:
BOUGUER DENSITY:
DRIFT CORRECTION: -0.02.
AREA MAGNETIC VARIATION:

OPERATOR: B Pan.
DATE: 6/4/79

Notes:

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV.		
						Δ_1	Δ_2	Δ_3
26000N			2714.51	13[27]	105.187	1.58	1.47	1.41
25000N			713.04	14[32]	102.658	0.82	0.77	0.74
279			713.05	14[37]	102.795	0.79	0.74	0.70
278			713.07	14[39]	102.826	0.75	0.69	0.66
277			713.09	14[41]	102.737	0.69	0.63	0.60
276			713.11	14[44]	102.962	0.69	0.63	0.59
275			713.02	14[48]	103.283	0.60	0.53	0.49
274			712.99	14[51]	103.455	0.54	0.47	0.43
273			713.03	14[54]	103.354	0.49	0.42	0.38
272			713.00	14[57]	103.551	0.43	0.36	0.32
271			712.94	15[00]	103.917	0.39	0.30	0.26
27000N			712.97	15[03]	104.010	0.37	0.29	0.24
269			713.01	15[07]	104.093	0.36	0.27	0.23
268			713.09	15[09]	104.281	0.42	0.33	0.28
267			713.11	15[11]	104.251	0.36	0.27	0.22
266			713.29	15[14]	104.299	0.49	0.40	0.35
265			713.44	15[17]	104.464	0.61	0.52	0.47
264			713.64	15[20]	104.516	0.76	0.66	0.61
263			713.85	15[23]	104.572	0.92	0.82	0.77
262			714.04	15[26]	104.969	1.13	1.03	0.97
261			714.31	15[29]	104.934	1.33	1.23	1.17
26000N			2714.56	15[32]	105.187	1.58	1.47	1.41

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: The BHP Co Ltd.
AREA:
GRID: Brinkley Springs.
LINE: 10000E
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: G505.
METER CALIBRATION:
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION:

OPERATOR:
DATE: 12/4/79

Notes:

level checks.

OK.

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV. Δ_1	Δ_2	Δ_3
18000N			27.26.78	16⁰⁶				
16000N			27.43	16¹⁷				
14000N			26.61	16²⁶				
16000N			27.46	16⁴⁶				

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE BHP CO LTD.
AREA:
GRID: BRINKLEY SPRINGS
LINE: 10000 E BASELINE
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: Lacoste and Romberg 505
METER CALIBRATION:
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION:

OPERATOR: C Colleyan
DATE: 10/4/79

Notes:

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV 295		
						Δ_1	Δ_2	Δ_3
△ 10000E 22000N		SIESMIC	ACTIVITY	1145				
21900N								
218								
217								
216								
215								
214								
213								
R12								
211								
21000N								
		NO GRAVITY — CONTINUED LEVELLING						

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: The B.H.P. Co Ltd.
AREA:
GRID: Brinkley Springs.
LINE: 14000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: G505 LaCoste.
METER CALIBRATION:
BOUGUER DENSITY:
DRIFT CORRECTION: .01 s.d per Hour.
AREA MAGNETIC VARIATION:

OPERATOR: Brian
DATE: 17/4/79

Notes:

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV. A_1	A_2	A_3
5000E			2720.525	1331	124.66	3.56	3.04	2.76
4951			20.25	1336	126.24	3.64	3.09	2.79
52			20.23	1340	126.41	3.66	3.11	2.81
53			20.47	1344	125.61	3.72	3.19	2.90
54			21.27	1347	122.35	3.80	3.33	3.07
55			21.69 c	1351	120.83	3.88	3.44	3.21
56			22.12	1354	119.29	3.97	3.56	3.34
57			22.40	1357	118.45	4.06	3.67	3.47
58			22.59	1401	118.07	4.17	3.79	3.59
59			22.68	1404	118.12	4.27	3.89	3.69
6000E			22.87	1407	117.74	4.38	4.01	3.81
61			22.99	1411	117.52	4.46	4.09	3.89
62			23.02	1413	117.43	4.47	4.10	3.90
63			23.17	1417	117.05	4.53	4.18	3.98
64			23.18	1420	117.25	4.59	4.23	4.03
65			23.33	1424	116.95	4.68	4.32	4.13
66			23.39	1428	117.06	4.76	4.41	4.21
67			23.43	1431	117.11	4.82	4.46	4.26
68			23.60	1435	116.63	4.88	4.53	4.34
69			23.73	1437	116.36	4.95	4.61	4.42
7000E			23.84	1440	116.18	5.02	4.69	4.50
71			23.98	1443	115.90	5.10	4.77	4.59
72			24.05	1447	115.84	5.16	4.83	4.65
73			24.14	1450	115.68	5.22	4.89	4.71
74			24.21	1453	115.45	5.24	4.91	4.74
75			24.28	1456	115.28	5.27	4.95	4.78
76			24.40	1459	115.01	5.33	5.02	4.85
77			24.43	1503	115.03	5.37	5.05	4.88
5000E			2720.505	1519	124.66			

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: The B.H.P Co Ltd
AREA:
GRID: Brinkley Springs.
LINE: 14000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste G505
METER CALIBRATION: "Dingo"
BOUGUER DENSITY:
DRIFT CORRECTION: −.01 s.d per hour.
AREA MAGNETIC VARIATION:

OPERATOR: BRan
DATE: 17/4/79

Notes:

Station			Obs. Grav. s./dive.	Time	Elevn.	BOUGUER GRAV		
						Δ_1	Δ_2	Δ_3
A 7700E			27 24.43	15^{35}	115.03	5.38	5.06	4.89
78			24.55	15^{38}	114.74	5.43	5.12	4.96
79			24.71	15^{42}	114.27	5.49	5.19	5.03
8000E			24.81	15^{45}	114.10	5.55	5.26	5.10
81			24.90	15^{48}	113.89	5.60	5.30	5.15
82			24.92	15^{52}	113.79	5.59	5.30	5.15
83			25.05	15^{56}	113.26	5.60	5.32	5.17
84			25.11	16^{00}	113.09	5.62	5.35	5.20
85			25.18	16^{03}	112.76	5.62	5.35	5.21
86			25.21	16^{05}	112.79	5.66	5.39	5.24
87			25.34	16^{08}	112.39	5.70	5.44	5.30
88			25.47	16^{11}	112.04	5.75	5.50	5.36
89			25.68	16^{15}	111.55	5.85	5.61	5.48
9000E			25.84	16^{18}	110.86	5.86	5.63	5.51
91			26.02	16^{22}	110.20	5.89	5.68	5.56
92			25.97	16^{29}	?110.28	5.86	5.64	5.52
93			25.94	16^{32}	110.42	5.86	5.64	5.52
94			25.72	16^{36}	111.44	5.86	5.62	5.49
95			25.87	16^{38}	110.78	5.87	5.64	5.52
96			26.19	16^{41}	109.80	5.97	5.76	5.65
97			26.40	16^{44}	109.09	6.02	5.83	5.73
98			26.53	16^{47}	108.81	6.09	5.90	5.80
99			26.51	16^{49}	109.15	6.14	5.95	5.85
10000E			26.76	16^{54}	108.18	6.18	6.01	5.91
AA 7700E			24.45	17^{06}	115.03	5.38	5.06	4.89
10000E			26.75	17^{18}	108.18	6.16	5.99	5.90

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: Bitp & CO pty LTD
AREA:
GRID: BRINKLEY SPRINGS
LINE: 14000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCosre & Romb. #G-35
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION: -0·02 sd/hr
AREA MAGNETIC VARIATION:

OPERATOR: P.C RUNDLE
DATE: 19/04/79.

Notes:

	Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV. Δ_1	Δ_2	Δ_3
Δ	10000E			2710·59	9:07	108·18	6·16	5·99	5·90
	101			2711·00	9:11	106·55	6·22	6·08	6·01
	102			2711·17	9:15	106·06	6·28	6·16	6·09
	103			2711·27	9:18	106·00	6·37	6·25	6·18
	104			2711·37	9:22	105·72	6·41	6·29	6·23
	10500E			2711·47	9:25	105·51	6·47	6·35	6·29
	106			2711·54	9:29	105·20	6·47	6·36	6·30
	107			2711·55	9:33	105·28	6·49	6·38	6·32
	108			2711·54	9:36	105·42	6·52	6·40	6·34
	109			2711·70	9:40	104·90	6·56	6·46	6·40
	11000E			2711·83	9:43	104·49	6·60	6·51	6·46
	111			2711·97	9:47	104·26	6·69	6·61	6·56
	112			2712·03	9:52	104·17	6·74	6·65	6·66
	113			2712·24	9:56	103·63	6·83	6·75	6·71
	114			2712·37	9:59	103·50	6·93	6·86	6·82
	11500E			2712·50	10:03	103·28	7·02	6·95	6·91
	116			2712·55	10:06	103·38	7·09	7·02	6·98
	117			2712·58	10:10	103·44	7·14	7·06	7·03
	118			2712·52	10:13	103·99	7·20	7·11	7·07
	119			2712·57	10:17	104·03	7·26	7·17	7·13
Δ	12000E			2712·85	10:20	103·13	7·34	7·28	7·24
Δ	10000E			2710·62	10:31	108·18	6·16	5·99	5·90

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: DHP & CO PTY LTD
AREA:
GRID: BRUKKLEY SPRINGS
LINE: 14000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste & Romb. #G-35
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION: −.02 s.d per hour.
AREA MAGNETIC VARIATION:

OPERATOR: P C. RUNDLE
DATE: 19/04/79.

Notes:

	Station			Obs. Grav. s./divs.	Time	Elevn.	Bouguer Grav. Δ_1	Δ_2	Δ_3
Δ	12000E			2712·85	10:43	103·13	7·34	7·28	7·24
	121			2712·95	10:48	103·03	7·42	7·36	7·32
	122			2713·08	10:52	102·82	7·51	7·45	7·42
	123			2713·18	10:55	102·70	7·58	7·53	7·50
	124			2713·33	10:58	102·41	7·67	7·62	7·60
	12500E			2713·44	11:00	102·31	7·76	7·72	7·69
	126			2713·53	11:04	102·20	7·83	7·79	7·76
	127			2713·61	11:08	102:00	7·87	7·83	7·80
	128			2713·77	11:12	101·58	7·94	7·91	7·89
	129			2714·00	11:15	100·69	7·97	7·96	7·95
	13000E			2713·98	11:18	101·00	8·02	8·00	7·99
	131			2713·98	11:22	101·25	8·08	8·05	8·04
	132			2713·65	11:26	102·84	8·10	8·04	8·01
	133			2713·53	11:29	103·60	8·15	8·07	8·03
	134			2713·52	11:32	103·71	8·16	8·08	8·04
	13500E			2713·59	11:35	103·75	8·24	8·16	8·12
	136			2713·54	11:39	104·24	8·30	8·21	8·16
	137			2713·53	11:42	104·61	8·37	8·28	8·23
	138			2713·58	11:45	104·77	8·46	8·36	8·31
	139			2713·22	11:48	106·99	8·59	8·45	8·37
Δ	14000E			2713·47	11:52	106·17	8·67	8·54	8·47
Δ	12000E			2712·87	12:01	103·13	7·34	7·27	7·24
Δ	14000E			2713·47	12:11	106·17	8·66	8·53	8·46

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: the BHP & Co Pty LTD
AREA:
GRID: Brinkley Springs
LINE: 14000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste & Romb. #G-35
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION: 0.01 sd/hr.
AREA MAGNETIC VARIATION:

OPERATOR: P.C. RUNDLE
DATE: 19/04/79.

Notes:

	Station			Obs. Grav. s./dive.	Time	Elevn.	BOUGUER GRAV 300		
							Δ_1	Δ_2	Δ_3
Δ	14000E			2713·47	12:11	106·17	8·66	8·53	8·46
Δ	14000E			2713·45	13:12	106·17	8·66	8·53	8·46
	141			2713·68	13:26	105·20	8·68	8·57	8·51
	142			2713·79	13:29	104·81	8·71	8·61	8·55
	143			2713·72	13:34	105·48	8·79	8·67	8·61
	144			2713·63	13:37	106·23	8·87	8·73	8·66
	14500E			2713·52	13:40	107·11	8·95	8·80	8·72
	146			2713·45	13:43	107·77	9·03	8·87	8·78
	147			2713·27	13:47	108·67	9·05	8·87	8·77
	148			2712·70	13:51	111·32	9·06	8·82	8·69
	149			2711·83	13:54	114·98	8·99	8·67	8·50
Δ	15000E			2712·10	13:58	113·40	8·91	8·63	8·47
Δ	14000E			2713·45	14:04	106·17	8·66	8·53	8·46
Δ	15000E			2712·10	14:10	113·40	8·91	8·63	8·47

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: BHP & CO PTY LTD
AREA:
GRID: BRINKLEY SPRINGS
LINE: 14000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste + Romb. #G-35
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION: 0·01 sd/hr
AREA MAGNETIC VARIATION:

OPERATOR: P.C.RUNDLE
DATE: 19/04/79

Notes:

	Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV. Δ_1	Δ_2	Δ_3
Δ	15000E			2712·10	14:10	113·40	8·91	8·63	8·47
Δ	16300E			2711·03	15:05	113·83	7·90	7·61	7·45
	162			2711·59	15:10	111·44	7·94	7·70	7·57
	161			2711·73	15:13	110·88	7·96	7·73	7·61
	16000E			2712·19	15:16	108·90	7·98	7·80	7·70
	159			2712·53	15:20	107·37	7·99	7·84	7·75
	158			2712·61	15:23	106·94	7·98	7·83	7·75
	157			2712·89	15:26	106·04	8·06	7·94	7·87
	156			2712·67	15:30	107·35	8·13	7·98	7·90
	15500E			2712·78	15:33	107·36	8·25	8·10	8·01
	154			2712·77	15:37	108·06	8·40	8·23	8·14
	153			2712·67	15:41	109·15	8·55	8·36	8·25
	152			2712·38	15:44	111·08	8·69	8·46	8·33
	151			2712·28	15:47	112·09	8·82	8·56	8·43
Δ	15000E			2712·08	15:51	113·40	8·91	8·63	8·47
Δ	16300E			2711·02	15:58	113·83	7·90	7·61	7·45

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: BHP & CO PTY LTD
AREA:
GRID: BRUNKLEY SPRINGS
LINE: 14000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste & Romb. #G-35
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION: 0
AREA MAGNETIC VARIATION:

OPERATOR: P.C. RUNDLE
DATE: 20/04/79

Notes:

	Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV Δ_1	Δ_2	Δ_3
A	16300E			2711·04	10:11	113·83	7·90	7·61	7·45
	164			2710·80	10:15	114·34	7·76	7·46	7·30
	16500E			2710·42	10:20	115·75	7·69	7·36	7·18
	166			2710·77	10·23	113·51	7·56	7·28	7·13
	167			2711·76	10:27	108·75	7·49	7·30	7·20
	168			2711·67	10:32	108·48	7·33	7·15	7·06
	169			2711·65	10:36	108·14	7·23	7·06	6·97
	17000E			2711·37	10:39	108·60	7·04	6·86	6·77
	171			2711·23	10:43	108·81	6·95	6·76	6·66
	172			2711·03	10:47	109·02	6·79	6·60	6·49
	173			2711·38	10:50	107·03	6·70	6·55	6·47
	174			2711·69	10:53	105·11	6·58	6·47	6·42
	17500E			2711·74	10:58	104·35	6·46	6·37	6·32
	176			2711·83	11:02	104·01	6·47	6·39	6·35
	177			2711·84	11:05	103·66	6·41	6·33	6·29
	178			2711·97	11:09	103·15	6·42	6·36	6·32
	179			2711·93	11:13	103·32	6·42	6·35	6·31
	18000E			2711·99	11:16	103·27	6·47	6·40	6·37
A	16300E			2711·04	11:28	113·83	7·90	7·61	7·45

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: The B.H.P Co Ltd.
AREA:
GRID: Brinkley Springs.
LINE: 6000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste G505.
METER CALIBRATION:
BOUGUER DENSITY:
DRIFT CORRECTION: 0.00 s.d per hour.
AREA MAGNETIC VARIATION:

OPERATOR: CC
DATE: 16/4/79.

Notes: Some Rain.

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV. Δ_1	Δ_2	Δ_3
ΔΔ 4000E			2720.22.	13.55	125.64	4.90	4.36	4.07
41			720.34	13.59	125.39	4.96	4.43	4.14
42			720.36	14.04	125.40	4.99	4.45	4.17
43			720.38	14.08	125.53	5.04	4.50	4.21
Top Plateau 44			720.26	14.11	126.34	5.10	4.55	4.25
45			721.65	14.16	120.29	5.14	4.71	4.48
Bottom " 46			722.46	14.20	116.83	5.17	4.82	4.63
47			722.64	14.24	115.85	5.13	4.80	4.62
48			722.83	14.28	114.90	5.11	4.80	4.63
49			722.97	14.31	114.02	5.05	4.76	4.60
5000E			723.17	14.35	112.93	5.01	4.74	4.59
51			723.44	14.39	111.91	5.05	4.80	4.67
52			723.67	14.42	110.97	5.07	4.84	4.72
53			723.91	14.46	110.10	5.12	4.91	4.79
54			724.07	14.50	109.78	5.21	5.00	4.89
55			724.25	14.53	109.11	5.24	5.05	4.94
56			724.29	14.56	109.13	5.28	5.09	4.99
57			724.45	15.00	108.74	5.36	5.18	5.08
58			724.57	15.03	108.59	5.45	5.27	5.17
59			724.65	15.07	108.49	5.51	5.33	5.23
6000E			724.50	15.11	109.74	5.64	5.43	5.32
61			724.27	15.14	111.10	5.71	5.48	5.36
62			72388	15.18	113.15	5.78	5.51	5.36
63			72430	15.22	111.39	5.81	5.57	5.44
64			724.53	15.25	110.54	5.85	5.63	5.51
65			725.15	15.29	108.96	5.92	5.75	5.66
66			725.50	15.33	106.65	5.96	5.82	5.74
67			725.61	15.37	106.53	6.04	5.90	5.83
ΔΔ 4000E			720.22	15.52	125.64			

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: The B.H.P. Co Ltd.
AREA:
GRID: Brinkley Springs.
LINE: 16000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: G505.
METER CALIBRATION:
BOUGUER DENSITY:
DRIFT CORRECTION: −.01 s.d. per hour.
AREA MAGNETIC VARIATION:

OPERATOR: CC.
DATE: 16/4/79

Notes:

	Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV		
							Δ_1	Δ_2	Δ_3
ΔΔ	6700E			2725.62	16.07	106.53	6.04	5.90	5.83
	68			725.76	16.11	106.28	6.13	5.99	5.92
	69			725.76	16.15	106.71	6.22	6.08	6.01
	70			725.71	16.19	107.09	6.26	6.11	6.03
	71			725.43	16.22	108.47	6.29	6.11	6.01
	72			724.98	16.27	110.48	6.29	6.07	5.95
	73			724.67	16.30	111.68	6.24	6.00	5.87
	74			724.35	16.34	113.02	6.22	5.95	5.80
	75			723.78	16.37	115.89	6.29	5.96	5.78
	76			723.55	16.41	116.97	6.30	5.95	5.76
Δ	7700E			723.60	16.46	116.84	6.32	5.97	5.78
				7					
ΔΔ	6700E			725.63	16.55	106.53	6.04	5.90	5.83
	7700E			723.61	17.04	116.53			

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: Otter Co Pty LTD
AREA:
GRID: DRINKLEY SPRINGS
LINE: 16000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste + Romb. #G-35.
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION: 0.02 gd/hr
AREA MAGNETIC VARIATION:

OPERATOR: P.C. RUNDLE
DATE: 18/04/79.

Notes:

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV Δ_1	Δ_2	Δ_3
14000E			2713·04	12'38	99·11	7·93	7·94	7·95
141			2712·62	12'43	100·58	7·82	7·81	7·81
142			2712·24	12'47	101·92	7·74	7·70	7·67
143			2711·94	12'50	103·03	7·68	7·61	7·58
144			2711·58	12'54	104·26	7·58	7·49	7·45
14500E			2711·18	12'57	105·61	7·48	7·36	7·29
146			2710·55	13:00	108·04	7·37	7·21	7·11
147			2709·74	13:04	112·21	7·48	7·23	7·09
148			2709·38	13:07	113·59	7·42	7·14	6·99
149			2709·42	13:11	112·94	7·32	7·05	6·90
15000E			2710·04	13:14	109·97	7·26	7·05	6·93
151			2710·45	13:18	107·87	7·24	7·07	6·98
152			2711·00	13'21	104·82	7·11	7·01	6·96
153			2711·02	13:24	104·52	7·07	6·97	6·92
154			2711·24	13:28	103·17	6·99	6·92	6·89
15500E			2711·44	13'31	101·99	6·93	6·89	6·87
156			2711·60	13'34	100·53	6·76	6·75	6·75
157			2711·60	13:38	100·01	6·65	6·65	6·65
158			2711·57	13:42	99·41	6·48	6·49	6·50
159			2711·54	13'45	98·71	6·29	6·32	6·33
16000E			2711·38	13'49	98·41	6·05	6·09	6·10
161			2711·13	13:53	98·59	5·83	5·86	5·88
162			2710·99	13:56	98·52	5·67	5·70	5·72
163			2710·84	13'59	98·41	5·49	5·53	5·54
164			2710·48	14'03	99·48	5·36	5·37	5·38
16500E			2710·19	14'06	100·40	5·27	5·26	5·26

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: BHP & CO PTY LTD
AREA:
GRID: BRINKLEY SPRINGS
LINE: 16000N.
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste & Romb. # G-35
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION: -.01 s.d per hour.
AREA MAGNETIC VARIATION:

OPERATOR: P.C. RUNDLE
DATE: 18/04/79

Notes:

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV. ρ_1	ρ_2	ρ_3
△ 12000 E			2715·60	10:41	103·47	11·61	11·54	11·50
121			2715·80	10:45	103·17	11·75	11·68	11·65
122			2716·23	10'50	101·45	11·80	11·77	11·76
123			2716·22	10'53	100·74	11·63	11·62	11·61
124			2716·07	10'57	100·13	11·33	11·33	11·33
12500E			2715·87	10:00	99·88	11·07	11·07	11·07
126			2715·55	11'04	100·01	10·76	10·76	10·76
127			2715·28	11:07	99·95	10·46	10·47	10 47
128			2715·00	11'11	99·47	10·06	10 07	10·08
129			2714·62	11'15	99·51	9·67	9·68	9·69
13000 E			2714·30	11:19	98·90	9·20	9·22	9·23
131			2714·02	11·23	99·14	8·96	8·98	8 99
132			2713·91	11·26	99·80	8·76	8·79	8·80
133			2713·87	11·30	98·37	8·62	8·66	8·68
134			2713·70	11·33	98·64	8·51	8·53	8·55
13500 E			2713·80	11·37	97·73	8·40	8·45	8·47
136			2713·52	11:41	98·58	8·30	8·33	8·35
137			2713·31	11·44	99·02	8·18	8·20	8·21
138			2713·60	11·49	97·25	8·08	8·14	8·17
139			2713·15	11·53	98·98	8·00	8·03	8·04
△ 14000E			2713·04	11·56	99·109	7·92	7·94	7·95
△ 12000E			2715·62	12:08	103·47	11·61	11·54	11·50

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: BHP & CO PTY LTD
AREA:
GRID: BRINKLEY SPRINGS
LINE: 16000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste & Romb # G-35
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION: -.01 s.d per hour.
AREA MAGNETIC VARIATION:

OPERATOR: P C. RUNDLE
DATE: 18/04/79.

Notes:

	Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV. Δ_1	Δ_2	Δ_3
Δ	10000E			2711.45	9:04	107.21	8.15	8.00	7.92
✓	101			2711.38	9:08	108.13	8.29	8.12	8.02
	102			2711.56	9:12	107.95	8.43	8.27	8.18
	103			2711.77	9:19	108.03	8.67	8.50	8.41
	104			2711.92	9:24	108.07	8.83	8.66	8.57
	10500E			2712.12	9:27	107.90	9.00	8.84	8.75
	106			2712.44	9:30	107.59	9.26	9.11	9.02
	107			2712.61	9:34	107.59	9.44	9.28	9.20
	108			2712.87	9:38	107.14	9.61	9.46	9.38
	109			2713.19	9:42	106.47	9.79	9.65	9.58
	11000E			2713.37	9:45	106.20	9.92	9.79	9.72
	111			2713.41	9:48	106.33	9.99	9.85	9.78
	112			2713.61	9:52	105.79	10.07	9.95	9.88
	113			2713.88	9:55	105.05	10.18	10.08	10.02
	114			2714.14	9:58	104.52	10.33	10.24	10.19
	11500E			2714.35	10:02	104.19	10.48	10.39	10.34
	116			2714.71	10:05	103.61	10.72	10.64	10.60
	117			2714.74	10:09	104.23	10.89	10.80	10.75
	118			2714.98	10:12	104.12	11.12	11.03	10.98
	119			2715.21	10:16	104.02	11.33	11.25	11.20
Δ	12000E			2715.60	10:20	103.47	11.61	11.54	11.50
Δ	10000E			2711.47	10:30	107.21	8.15	8.00	7.92

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: The B.H.P Co Ltd
AREA:
GRID: Brinkley Springs.
LINE: 16000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: G505
METER CALIBRATION:
BOUGUER DENSITY:
DRIFT CORRECTION: -.02 s.d per hour.
AREA MAGNETIC VARIATION:

OPERATOR: CC
DATE: 18/4/79

Notes:

	Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV. Δ_1	Δ_2	Δ_3
ΔΔ	10000E			2727.64	9.55	107.21	8.15	8.00	7.92
	99			727.27	10.00	107.89	7.93	7.76	7.67
	98			727.09	10.03	108.08	7.79	7.62	7.53
	97			726.88	10.11	108.69	7.71	7.53	7.43
	96			726.68	10.15	108.79	7.53	7.34	7.24
	95			726.32	10.19	109.87	7.40	7.20	7.08
	94			726.19	10.22	109.94	7.28	7.08	6.96
	93			726.05	10.26	110.05	7.17	6.95	6.84
	92			725.85	10.30	110.42	7.04	6.83	6.71
	91			725.51	10.34	111.50	6.94	6.70	6.57
	9000 E			725.40	10.38	111.68	6.87	6.62	6.49
	89			725.24	10.41	111.99	6.78	6.52	6.39
	88			724.99	10.45	112.56	6.65	6.39	6.24
	87			724.74	10.49	113.18	6.53	6.26	6.11
	86			724.62	10.52	113.74	6.54	6.25	6.09
	85			724.54	10.57	113.82	6.47	6.18	6.03
	84			724.41	11.00	113.95	6.37	6.08	5.92
	83			724.38	11.04	114.17	6.39	6.09	5.93
	82			724.25	11.07	114.34	6.29	5.99	5.83
	81			724.27	11.10	114.34	6.31	6.01	5.85
	8000			724.13	11.13	114.80	6.27	5.96	5.80
	79			723.93	11.16	115.64	6.26	5.93	5.75
	78			723.77	11.20	116.50	6.29	5.95	5.76
	7700E			723.73	11.25	116.84	6.33	5.97	5.78
ΔΔ	10000E			727.67	11.40	107.21	8.15	8.00	7.92
	7700E			723.71	11.56	116.84			

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: BHP CO PTY LTD
AREA:
GRID: BRINKLEY SPRINGS
LINE: 1600N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste & Romb. #G-35
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION: 0.02 sd/hr
AREA MAGNETIC VARIATION:

OPERATOR: P.C. RUNDLE
DATE: 18/04/79.

Notes:

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV. Δ_1	Δ_2	Δ_3
16600E			2709.93	14:10	101.09	5.16	5.14	5.12
167			2709.73	14:13	101.67	5.08	5.05	5.03
168			2709.11	14:17	104.31	5.04	4.95	4.90
169			2708.40	14:20	107.47	5.02	4.87	4.78
17000E			2708.55	14:23	106.49	4.96	4.82	4.75
14000E			2713.00	14:42	99.11	7.93	7.94	7.95

E.O.L.

Δ

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: The B.H.P. Co Ltd
AREA:
GRID: Brinkley Springs
LINE: 18000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: G505 LaCoste.
METER CALIBRATION:
BOUGUER DENSITY:
DRIFT CORRECTION: −.05 s.d per hour. Dapck.
AREA MAGNETIC VARIATION:

OPERATOR: BRam.
DATE: 14/4/79

Notes:

Station			Obs. Grav. s./dive.	Time	Elevn.	BOUGUER GRAV. Δ_1	Δ_2	Δ_3
5000E			27 23 40	14[10]	110.015	6.10	5.89	5.78
49			23 22	14[16]	111.024	6.14	5.91	5.78
48			22.49	14[19]	114.54	6.19	5.89	5.73
47			21.95	14[23]	117.23	6.25	5.89	5.70
46			21.23	14[26]	120.65	6.30	5.86	5.63
45			21 35	14[30]	120.23	6.32	5.90	5.67
44			21.67	14[34]	119.01	6.37	5.97	5.75
43			21.33	14[38]	120.49	6.35	5.92	5.69
42			21.46	14[41]	119.689	6.30	5.89	5.66
41			21.75	14[44]	118.120	6.23	5.85	5.65
4000E			22.00	14[50]	116.79	6.18	5.83	5.64
39			21.46	14[54]	118.88	6.10	5.71	5.49
38			21.04	14[57]	120.45	6.03	5.60	5.37
37			21.83	15[03]	116.42	5.91	5.57	5.38
36			22.78	15[07]	111.88	5.84	5.59	5.46
35			22.96	15[10]	111.04	5.83	5.60	5.47
34			22.64	15[14]	111.87	5.69	5.44	5.30
33			22.67	15[17]	111.42	5.61	5.37	5.24
32			22.58	15[21]	111.50	5.54	5.29	5.16
31			22.38	15[24]	112.30	5.51	5.25	5.11
3000E			27 22.29	15[27]	112.67	5.50	5.24	5.09
5000E			27 23.48	15[42]	110.015	6.10	5.89	5.78

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE BHP CO LTD.
AREA:
GRID: BRINKLEY SPRINGS
LINE: 18000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste G 505
METER CALIBRATION:
BOUGUER DENSITY:
DRIFT CORRECTION: .02 s.d per hour.
AREA MAGNETIC VARIATION:

OPERATOR: BRan
DATE: 14/4/79

Notes:

	Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV. Δ_1	Δ_2	Δ_3
ΔΔ	7400E			.27 26.51	1137	100.81	7.16	7.14	7.13
	7300			26.45	1142	100.88	7.11	7.09	7.08
	72			26.29	1146	101.21	7.02	7.00	6.99
	71			26.26	1150	101.36	7.03	7.00	6.99
	7000E			26.19	1154	101.64	7.02	6.99	6.97
	69			26.19	1157	101.92	7.09	7.05	7.03
	68			26.20	1201	102.11	7.14	7.10	7.07
	67			26.21	1205	102.08	7.15	7.10	7.08
	66			26.06	1208	102.25	7.03	6.99	6.96
	65			25.92	1211	102.35	6.91	6.86	6.84
	64			25.77	1215	102.49	6.79	6.74	6.71
	63			25.62	1218	102.63	6.67	6.62	6.59
	62			25.48	1222	102.79	6.57	6.51	6.48
	61			25.40	1225	102.84	6.50	6.44	6.41
	6000E			25.29	1229	103.07	6.44	6.37	6.34
	59			25.21	1233	103.43	6.44	6.37	6.33
	58			25.00	1236	104.04	6.37	6.28	6.24
	57			24.83	1239	104.54	6.31	6.21	6.16
	56			24.73	1243	105.01	6.31	6.21	6.15
	55			24.64	1246	105.32	6.29	6.18	6.12
	54			24.41	1250	106.03	6.22	6.10	6.03
	53			24.20	1253	106.84	6.19	6.05	5.97
	52			24.00	1255	107.57	6.16	6.00	5.91
	51			23.63	1259	109.10	6.13	5.94	5.83
Δ	5000E			27 23.40	1305	110.02	6.11	5.90	5.78
ΔΔ	7400E			27 26.48	1320	100.81	7.16	7.14	7.13
Δ	5000E			27 23.40	1335	110.02			

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE BHP Co LTD.
AREA:
GRID: BRINKLEY SPRINGS
LINE: 18000 N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LACOSTE & Romberg #505
METER CALIBRATION:
BOUGUER DENSITY:
DRIFT CORRECTION: .05 s.d per hour.
AREA MAGNETIC VARIATION:

OPERATOR: Blan
DATE: 14/4/79

Notes:

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV. Δ_1	Δ_2	Δ_3
10000 E			27 26.85	9^{27}	109.33	9.35	9.16	9.05
99			26.65	9^{33}	109.80	9.26	9.05	8.94
98			26.59	9^{37}	109.81	9.20	9.00	8.89
97			26.48	9^{40}	109.88	9.11	8.90	8.79
96			26.34	9^{44}	109.97	8.99	8.78	8.67
95			26.14	9^{47}	110.20	8.84	8.63	8.51
94			25.90	9^{50}	110.81	8.74	8.51	8.39
93			25.55	9^{53}	111.72	8.59	8.34	8.21
92			25.88	9^{57}	109.64	8.45	8.25	8.14
91			26.61	10^{01}	105.72	8.31	8.19	8.12
9000E			26.59	10^{06}	105.05	8.14	8.03	7.97
8900			26.32	10^{09}	105.37	7.94	7.82	7.76
88			26.48	10^{12}	103.98	7.78	7.70	7.66
87			26.56	10^{15}	103.01	7.65	7.58	7.55
86			26.67	10^{19}	101.84	7.49	7.46	7.44
85			26.65	10^{22}	101.52	7.40	7.37	7.35
84			26.46	10^{29}	101.90	7.30	7.26	7.24
83			26.65	10^{32}	100.62	7.21	7.19	7.19
82			26.68	10^{36}	100.36	7.18	7.17	7.17
81			26.67	10^{38}	100.21	7.14	7.13	7.13
8000 E			26.69	10^{42}	100.17	7.15	7.15	7.15
79			26.62	10^{46}	100.24	7.10	7.09	7.09
78			26.61	10^{50}	100.22	7.09	7.08	7.08
77			26.57	10^{53}	100.43	7.10	7.09	7.08
76			26.58	10^{56}	100.56	7.14	7.13	7.12
75			26.54	11^{00}	100.74	7.14	7.13	7.12
7400			26.53	11^{04}	100.81	7.15	7.14	7.13
10000E			26.76	11^{20}	109.33	9.35	9.16	9.05
7400			27 26.51	11^{37}	100.81			

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE BHP CO PTY LTD.
AREA:
GRID: BRINKLEY SPRINGS
LINE: 18000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste + Romb. # G-35
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION: -.02 s.d per hour.
AREA MAGNETIC VARIATION:

OPERATOR: P.C. RUNDLE
DATE: 16/04/79.

Notes:

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV Δ_1	Δ_2	Δ_3
Δ 10000 E			2710·72	14 22	109.33	9.36	9.16	9.05
101			2711·04	14:28	108 39	9·47	9.30	9.20
102			2711·12	14 :32	108·27	9.53	9·35	9.26
103			2711·39	14' 36	107·54	9.64	9·48	9·40
104			2711·60	14:40	106·74	9.68	9.53	9.46
10500 E			2711·68	14:43	106·43	9.69	9.55	9.48
106			2711·72	14:46	106·21	9.68	9.55	9.48
107			2711·71	14:49	105·998	9.62	9.49	9.42
108			2711·65	14:53	105·59	9.46	9·34	9.28
109			2711·73	14·56	104·70	9·34	9.24	9.19
11000 E			2711·54	15:00	104·75	9.15	9.05	9.00
111			2711·55	15:03	104·14	9.02	8·93	8·89
112			2711·59	15·07	103·31	8·81	8·80	8·76
113			2711·33	15 10	103·996	8·75	8·67	8·62
114			2711·55	15:13	102·46	8·63	8·58	8·55
11500 E			2711·74	15:16	101·02	8·50	8·48	8·47
116			2711·35	15:20	102·53	8·44	8·38	8·35
117			2711·43	15:23	101·82	8·36	8·32	8·30
118			2711·44	15:26	101·61	8·32	8·28	8·26
119			2711·27	15:29	102·01	8·23	8·19	8·16
12000 E			2711·10	15:32	102·25	8·11	8·06	8·03
Δ 10000 E			2710·75	15:43	109·33	9·36	9.16	9.05

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE BHP CO FTY LTD
AREA:
GRID: BRINKLEY SPRINGS
LINE: 18000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste & Romb. #G-35
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION: -0·02.
AREA MAGNETIC VARIATION:

OPERATOR: P.C. RUNDLE
DATE: 16/04/79

Notes:

	Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV Δ_1	Δ_2	Δ_3
	10000E			2710·75	15'43	109·33			
	12000E			2711·11	16'09	102·25	8·10	8·05	8·03
	121			2711·01	16:13	102·53	8·06	8·01	7·98
	122			2710·94	16:15	102·39	7·95	7·90	7·88
	123			2710·92	16:19	102·11	7·87	7·82	7·80
	124			2710·83	16:22	102·00	7·75	7·70	7·68
	12500E			2710·64	16:24	102·10	7·57	7·52	7·50
	126			2710·56	16:27	102·00	7·45	7·41	7·39
	127			2710·74	16:30	100·58	7·32	7·31	7·30
	129			2710·80	16:33	99·34	7·10	7·11	7·12
	129			2711·15	16:37	97·17	6·97	7·03	7·06
	13000E			2711·07	16:40	96·65	6·76	6·83	6·87
	131			2710·99	16:43	96·37	6·61	6·69	6·73
	132			2710·91	16:47	96·12	6·47	6·55	6·60
	133			2710·84	16:50	95·93	6·35	6·44	6·49
	134			2710·64	16'53	96·29	6·23	6·30	6·35
	13500E			2710·61	16·57	95·70	6·06	6·15	6·20
	136			2710·52	17:00	95·56	5·93	6·02	6·07
	137			2710·31	17:03	95·88	5·78	5·87	5·92
	138			2710·23	17:06	95·65	5·65	5·74	5·79
	139			2710·10	17:09	95·60	5·50	5·59	5·64
	14000E			2709·92	17:12	95·91	5·38	5·46	5·51
Δ	12000E			2711·14	17:23	102·25	8·10	8·05	8·03
Δ	14000E			2709·92	17:33	95·91	5·37	5·46	5·50

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE BHP CO PTY LTD
AREA:
GRID: BRINKLEY SPRINGS
LINE: 18000N.
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste + Romb #G-35
METER CALIBRATION: per chart
BOUGUER DENSITY:
DRIFT CORRECTION: 0 s d per hour.
AREA MAGNETIC VARIATION:

OPERATOR: P. C. RUNDLE
DATE: 18/04/79.

Notes:

	Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV Δ_1	Δ_2	Δ_3
Δ	14000E			2709·95	14:55	95·91	5·38	5·47	5·52
	141			2709·92	15:00	95·50	5·26	5·35	5·40
	142			2709·82	15:03	95·34	5·12	5·22	5·27
	143			2709·70	15:06	95·24	4·97	5·07	5·12
	144			2709·50	15:10	95·38	4·79	4·89	4·94
	14500E			2709·27	15:13	95·96	4·68	4·77	4·81
	146			2709·07	15:16	96·47	4·59	4·67	4·71
	147			2708·82	15:19	96·98	4·45	4·51	4·55
	148			2708·60	15:24	97·69	4·38	4·43	4·45
	149			2708·31	15:27	98·59	4·28	4·31	4·33
	15000E			2707·95	15:30	100·03	4·24	4·24	4·24
	151			2707·65	15:33	100·77	4·09	4·08	4·07
	152			2707·78	15:37	99·86	4·02	4·02	4·02
	153			2707·88	15:40	98·99	3·93	3·95	3·96
	154			2707·93	15:43	98·18	3·79	3·83	3·85
	15500E			2708·09	15:46	97·12	3·72	3·78	3·81
	156			2707·82	15:50	97·96	3·63	3·67	3·69
	157			2708·18	15:53	96·06	3·57	3·65	3·69
	158			2708·45	15:57	94·27	3·44	3·56	3·63
	159			2708·53	16:00	93·33	3·31	3·45	3·52
E.O.L.	16000E			2708·47	16:03	92·92	3·15	3·30	3·38
Δ	14000E			2709·95	16:12	95·91	5·38	5·47	5·52

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: The B.H.P. Co Ltd.
AREA:
GRID: Brinkley Springs.
LINE: 20000 N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: G505.
METER CALIBRATION:
BOUGUER DENSITY:
DRIFT CORRECTION: .03 s.d per hour.
AREA MAGNETIC VARIATION:

OPERATOR: BKlan
DATE: 18/4/79

Notes:

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV Δ_1	Δ_2	Δ_3
4000E			2723.01	14^{42}	108.53	6.49	6.31	6.22
39			23.01	14^{46}	108.45	6.48	6.30	6.20
38			23.06	14^{49}	108.57	6.56	6.38	6.28
37			23.13	14^{52}	108.68	6.65	6.47	6.37
36			23.15	14^{56}	108.88	6.72	6.54	6.44
35			23.08	15^{00}	109.13	6.71	6.52	6.42
34			22.98	15^{04}	109.42	6.68	6.48	6.37
33			22.92	15^{06}	109.66	6.67	6.47	6.36
32			22.87	15^{10}	110.10	6.72	6.51	6.40
31			22.90	15^{13}	110.49	6.84	6.62	6.51
3000E			22.95	15^{16}	110.75	6.96	6.73	6.61
4000E			22.99	15^{23}	108.53	6.49	6.31	6.22

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: The BHP Co Ltd.
AREA: Brinkley Springs
GRID:
LINE: 20000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: 450S Lacoste.
METER CALIBRATION:
BOUGUER DENSITY:
DRIFT CORRECTION: .01 c.d per hour.
AREA MAGNETIC VARIATION:

OPERATOR: B Ram.
DATE: 18/4/79.

Notes:

	Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV		
							Δ_1	Δ_2	Δ_3
A	6000E			27 21.65	12^{48}	115.87	6.75	~~6.42~~	6.24
	59			21.76	12^{51}	115.26	6.72	6.40	6.23
	58			22.19	12^{57}	? 113.32	6.72	6.44	6.29
	57			22.05	13^{00}	114.47	6.84	6.54	6.37
	56			22.83	13^{05}	? 111.43	6.94	6.71	6.58
	55			23.53	13^{11}	108.55	7.00	6.82	6.73
	54			23.12	13^{13}	109.96	6.91	6.70	6.59
	53			23.62	1317	107.29	6.81	6.66	6.57
	52			23.59	13^{23}	? 107.10	6.74	6.59	6.51
	51			23.73	13^{28}	106.32	6.70	6.57	6.50
	5000			23.63	13^{34}	106.22	6.58	6.45	6.38
	49			23.66	13^{39}	105.56	6.46	6.34	6.28
	48			23.23	13^{42}	107.08	6.37	6.22	6.14
	47			23.09	1345	107.31	6.28	6.12	6.04
	46			23.02	13^{50}	107.44	6.23	6.08	5.99
	45			23.25	1353	106.14	6.17	6.04	5.98
	44			23.00	1357	107.39	6.20	6.05	5.97
	43			22.87	14^{01}	108.36	6.29	6.12	6.02
	42	Repeat	22 89 1420	~~22.87~~	~~1405~~	108.67	6.39	6.21	6.11
	41			22.98	14^{09}	108.75	6.50	6.31	6.22
	4000E			23.02	1413	108.53	6.49	6.31	6.21
A	6000E			2721.63	14^{30}	115.87	6.75	6.42	6.24
				Wrong base	cows moved pegs.				

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: The B.H.P Co Ltd
AREA:
GRID: BRINKLEY SPRINGS
LINE: 20000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste #G-505
METER CALIBRATION:
BOUGUER DENSITY:
DRIFT CORRECTION: -.05 s.d per hour
AREA MAGNETIC VARIATION:

OPERATOR: CC
DATE: 11/4/79

Notes:

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV		
						Δ_1	Δ_2	Δ_3
8000E			2723.32	15 09	111.49	7.84	7.60	7.47
79			723.01	15.14	112.16	7.67	7.41	7.28
78			722.89	15.17	112.27	7.57	7.31	7.17
77			722.76	15.20	112.16	7.41	7.15	7.01
76			722.40	15.24	113.09	7.25	6.97	6.83
75			722.26	15.27	113.25	7.14	6.86	6.71
74			722.10	15.30	113.54	7.04	6.76	6.60
73			722.14	15.34	113.00	6.95	6.68	6.53
72			722.31	15.37	112.12	6.92	6.67	6.53
71			721.85	15.40	114.22	6.93	6.63	6.47
7000E			721.70	15.43	114.57	6.86	6.55	6.39
69			721.67	15.47	114.56	6.82	6.51	6.35
68			721.52	15.50	114.59	6.67	6.36	6.20
67			721.47	15.54	114.53	6.60	6.30	6.13
66			721.32	15.56	114.95	6.54	6.23	6.06
65			721.20	15.59	115.57	6.56	6.23	6.06
64			721.05	16.02	115.97	6.50	6.16	5.98
63			721.00	16.06	116.18	6.49	6.15	5.97
62			721.11	16.09	116.02	6.56	6.23	6.05
61			721.20	16.12	115.94	6.63	6.30	6.12
6000E			721.33	16.16	115.87	6.75	6.42	6.24
8000E			723.38	16.28	111.49	7.84	7.60	7.47

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: The B.H.P. Co Ltd
AREA:
GRID: Brinkley Springs.
LINE: 20000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste # G-505
METER CALIBRATION:
BOUGUER DENSITY:
DRIFT CORRECTION: -.05 s.d per hour.
AREA MAGNETIC VARIATION:

OPERATOR: CC.
DATE: 11/4/79

Notes:

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV Δ_1	Δ_2	Δ_3
10000E			2726.95	13.30	96.34	8.16	8.23	8.27
99			727.04	13.34	96.47	8.27	8.35	8.39
98			727.16	13.37	96.48	8.40	8.47	8.51
97			727.23	13.41	96.63	8.50	8.57	8.61
96			727.24	13.45	97.05	8.60	8.66	8.70
95			727.30	13.54	97.16	8.68	8.74	8.77
94			727.26	13.58	97.71	8.76	8.81	8.84
93			727.08	14.01	98.74	8.81	8.84	8.85
92			727.04	14.04	98.98	8.82	8.85	8.86
91			726.90	14.07	99.69	8.84	8.85	8.85
9000E			726.60	14.11	100.98	8.83	8.81	8.79
89			726.05	14.14	103.27	8.78	8.72	8.68
88			724.94	14.18	107.67	8.65	8.49	8.40
87			724.31	14.21	110.51	8.66	8.43	8.32
86			724.32	14.25	109.98	8.54	8.33	8.22
85			724.89	14.28	107.03	8.45	8.30	8.22
84			724.83	14.31	106.81	8.33	8.19	8.11
83			724.70	14.35	107.14	8.27	8.12	8.04
82			723.85	14.38	110.30	8.12	7.91	7.79
81			723.60	14.41	110.83	7.98	7.76	7.64
8000E			723.31	14.44	111.49	7.84	7.60	7.47
10000E			2 727.02	14 57	96.54	8.16	8.23	8.27
8000 E			2 723.32	15 09				

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE BHP CO PTY LTD
AREA:
GRID: BRINKLEY SPRINGS.
LINE: 20000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste & Romb #G-35
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION: 0·02.
AREA MAGNETIC VARIATION:

OPERATOR: P.C. Rundle
DATE: 16/04/79

Notes:

	Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV Δ_1	Δ_2	Δ_3
Δ	10000E			2711·23	9:32	96·34	8·16	8·24	8·28
	101			2711·10	9:38	96·32	8·02	8·10	8·14
	102			2711·05	9:59	96·11	7·93	8·01	8·05
	103			2711·01	10:03	95·85	7·83	7·92	7·96
	104			2710·96	10:07	95·78	7·76	7·85	7·90
	10500E			2710·67	10:11	96·68	7·65	7·73	7·76
	106			2710·45	10:14	97·10	7·53	7·59	7·63
	107			2710·24	10:17	97·56	7·42	7·47	7·50
	108			2710·04	10:20	98·08	7·33	7·37	7·39
	109			2710·26	10:24	96·71	7·25	7·32	7·36
	11000E			2710·22	10:28	96·42	7·14	7·22	7·26
	111			2710·15	10:32	96·51	7·09	7·17	7·20
	112			2710·07	10:35	96·48	7·00	7·08	7·12
x	113			2708·77	10:38	102·17	6·95	6·90	6·88
	114			2708·56	10:46	102·79	6·87	6·81	6·78
	11500E			2708·62	10:50	102·15	6·79	6·75	6·72
	116			2708·90	10:53	100·25	6·65	6·64	6·64
	117			2709·12	10:56	98·65	6·51	6·54	6·56
	118			2709·43	11:00	96·62	6·38	6·45	6·48
	119			2709·10	11:04	97·12	6·15	6·21	6·24
Δ	12000E			2708·55	11:07	98·77	5·95	5·98	5·99
Δ	10000E			2711·19	11:18	96·34	8·16	8·24	8·28

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE BHP CO PTY LTD
AREA:
GRID: BRINKLEY SPRINGS.
LINE: 20000N.
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste + Romb. #G-35
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION: C3 s.d per hour.
AREA MAGNETIC VARIATION:

OPERATOR: P.C. RUNDLE
DATE: 16/04/79

Notes:

	Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV Δ_1	Δ_2	Δ_3
Δ	10000E			2711·19	11:18	96·34	8·16	8·24	8·28
Δ	12000E			2708·56	11:30	98·77	5·95	5·98	5·99
	121			2708·23	11:34	99·53	5·79	5·80	5·80
	122			2707·93	11:38	99·96	5·57	5·57	5·57
	123			2707·70	11:41	100·19	5·39	5·38	5·38
	124			2707·56	11:44	100·24	5·25	5·25	5·25
	12500E			2707·42	11:47	100·18	5·09	5·09	5·09
	126			2707·50	11:51	99·01	4·91	4·93	4·94
	127			2707·55	11:55	98·17	4·77	4·81	4·83
	128			2708·20	11:58	94·68	4·66	4·77	4·83
	129			2707·97	12:02	95·27	4·55	4·65	4·71
	13000E			2707·15	12:05	98·11	4·35	4·39	4·41
	131			2706·98	12:08	99·33	4·45	4·46	4·47
	132			2706·76	12:12	99·66	4·30	4·30	4·31
	133			2706·51	12:15	100·16	4·15	4·15	4·15
	134			2706·42	12:18	100·04	4·03	4·03	4·03
	13500E			2707·34	12:21	95·45	3·94	4·04	4·09
	136			2707·68	12:25	93·47	3·85	3·99	4·06
	137			2707·57	12:30	93·46	3·73	3·87	3·94
	138			2707·35	12:34	93·96	3·62	3·75	3·82
	139			2707·30	12:38	93·62	3·49	3·63	3·70
Δ	14000E			2707·08	12:41	93·82	3·31	3·44	3·51
Δ	12000E			2708·82	12:52	98·77	5·95	5·98	5·99
Δ	12000E			2708·52	12:54	98·77	5·95	5·98	5·99

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE BHP COPTY LTD
AREA:
GRID: BRINKLEY SPRINGS.
LINE: 20000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste a Romb. # G-35
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION: -0.01 s.d/hr
AREA MAGNETIC VARIATION:

OPERATOR: P.C. RUNDLE
DATE: 16/04/79.

Notes:

	Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV		
							Δ_1	Δ_2	Δ_3
Δ	12000E			2708·52	12:54	98·77	5·95	5·98	5·99
Δ	14000E			2707·07	13:18	93·88	3·32	3·45	3·52
	141			2706·91	13:22	93·94	3·16	3·29	3·36
	142			2706·77	13:26	94·06	3·04	3·17	3·24
	143			2706·65	13:30	94·13	2·93	3·06	3·12
	144			2706·50	13:33	94·27	2·81	2·93	2·99
	14500E			2706·32	13:37	94·35	2·64	2·76	2·82
	146			2705·96	13:40	95·43	2·51	2·60	2·66
	147			2705·73	13:43	9608	2·42	2·50	2·54
	148			2705·70	13:47	95·71	2·30	2·39	2·44
	149			2705·53	13:51	95·80	2·14	2·23	2·28
	15000E			2705·04	13:53	97·61	2·04	2·09	2·12
E.O.L. Δ	14000E			2707·08	14:00	93·88	3·32	3·45	3·52

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: BHP&CO PTY LTD
AREA:
GRID: BRINKLEY SPRINGS
LINE: 22000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste & Romb. #G-35
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION: 0·02.
AREA MAGNETIC VARIATION:

OPERATOR: P.C. RUNDLE
DATE: 12/04/79.

Notes:

Station			Obs. Grav. s./dlvs.	Time	Elevn.	BOUGUER GRAV. 323		
						Δ_1	Δ_2	Δ_3
4300E			2704·03	11:51	116·440	6·73	6·38	6·20
4200E			2703·47	11 55	118·892	6·70	6·31	6·09
4100E			2702·73	11 58	122·222	6·69	6·23	5·98
4000E			2702·85	12:01	121·718	6·70	6·25	6·00
3900E			2702·99	12:04	121·188	6·73	6·29	6·05
3800E			2702·98	12:14	121·264	6·74	6·30	6·05
3700E			2702·90	12:30	121·860	6·80	6·34	6·09
3600E			2702·78	12:33	122·939	6·92	6·44	6·18
3500E			2702·48	12:36	124·951	7·07	6·55	6·26
3400E			2702·46	12:38	125·425	7·16	6·62	6·34
3300E			2702·54	12:42	125·453	7·25	6·71	6·43
3200E			2702·68	12:45	125·254	7·35	6·82	6·54
3100E			2702·99	12:48	125·252	7·67	7·15	6·86
3000E			2703·07	12:52	126·122	7·96	7·41	7·12
4300E			2704·01	13:00	116·440	6·73	6·38	6·20

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: BHPG CO PTY LTD
AREA:
GRID: BRINKLEY SPRINGS
LINE: 22000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste & Rhomb. #G-35
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION: −0·05
AREA MAGNETIC VARIATION:

OPERATOR: P.C.RUNDLE
DATE: 12/04/79

Notes:

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV.		
						Δ_1	Δ_2	Δ_3
4300 E			2704·01	13:24	116·440	6·73	6·38	6·20
4400 E			2704·29	13:28	115·280	6·75	6·43	6·26
4500 E			2704·38	13:32	114·642	6·70	6·39	6·22
4600 E			2704·20	13:35	115·168	6·62	6·31	6·14
4700 E			2704·48	13:38	113·742	6·59	6·30	6·15
4800 E			2704·62	13:41	112·817	6·52	6·25	6·11
4900 E			2704·61	13:47	112·441	6·42	6·16	6·02
5000 E			2704·68	13:51	111·943	6·37	6·12	5·99
5100 E			2704·71	13:54	111·522	6·31	6·07	5·94
5200 E			2704·69	13:59	111·465	6·27	6·03	5·90
5300 E			2904·70	14:04	111·451	6·27	6·03	5·90
5400 E			2704·75	14:07	111·283	6·28	6·05	5·92
5500 E			2704·85	14:10	110·758	6·26	6·04	5·92
5600 E			2704·84	14:13	111·040	6·32	6·08	5·96
5700 E			2704·88	14:17	111·005	6·35	6·12	5·99
5800 E			2704·94	14:20	110·761	6·35	6·13	6·00
5900 E			2704·87	14:23	111·345	6·41	6·17	6·04
6000 E			2704·74	14:27	111·945	6·41	6·16	6·02
4300 E			2704·07	14:37	116·440			
6000 E			2704·75	14:47	111·945			

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: BHP & CO PTY LTD
AREA:
GRID: BRINKLEY SPRINGS
LINE: 22000 N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste + Rhomb. #G-35
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION: 0·02
AREA MAGNETIC VARIATION:

OPERATOR: P.C. RUNDLE
DATE: 12/04/79.

Notes: Tare of −0·12 s.divs at 7500E
1st Rdg − 2708·66 s.divs.
2nd Rdg − 2708·54 s.divs

7400E 2nd Rdg − 2708·49 s.divs.

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV		
						Δ_1	Δ_2	Δ_3
6000E			2704·75	14:47	111·945	6·41	6·16	6·02
6100E			2705·10	14:51	110·593	6·47	6·24	6·12
6200E			2705·75	14:55	107·512	6·44	6·28	6·20
6300E			2706·37	14:58	105·077	6·53	6·43	6·37
6400E			2706·96	15:02	102·884	6·65	6·59	6·56
6500E			2707·10	15:05	102·581	6·73	6·67	6·64
6600E			2707·35	15:08	102·151	6·89	6·85	6·82
6700E			2707·44	15:11	102·273	7·02	6·97	6·94
6800E			2707·74	15:15	101·700	7·20	7·16	7·14
6900E			2707·79	15:18	102·309	7·39	7·34	7·32
7000E			2708·05	15:22	101·846	7·56	7·52	7·50
7100E			2708·20	15:25	101·802	7·71	7·67	7·65
7200E			2708·43	15:28	101·685	7·92	7·89	7·87
7300E			2708·96	15:33	100·062	8·11	8·10	8·10
7400E		"	2708·61	15:37	101·563	8·09	8·05	8·04
7500E		"	2708·66	15:41	101·374	8·10	8·07	8·05
7600E		−·12	2708·63	15:47	101·189	7·99	7·96	7·95
7700E		−·12	2708·75	15:50	100·733	8·01	8·00	7·99
7800E		−·12	2708·76	15:54	100·472	7·97	7·96	7·95
7900E		−·12	2708·65	15:57	100·686	7·91	7·89	7·89
8000E		−·12	2708·64	16:01	100·430	7·97	7·96	7·96
6000E		−·12	2704·72	16:14	111·945	6·41	6·16	6·02
8000E			2708·65	16:30	100·430	7·97	7·96	7·96

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: BHP & CO Pty LTD
AREA:
GRID: BRINKLEY SPRINGS
LINE: 2200N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste & Rbmb. #G-35
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION: 0.04 +
AREA MAGNETIC VARIATION:

OPERATOR: P.C. RUNDLE
DATE: 14/04/79.

Notes:

	Station			Obs. Grav. s./divs.	Time	Elevn	BOUGUER GRAV		
							Δ_1	Δ_2	Δ_3
Δ	9000E			2707.92	9'50	98.604	6.80	6.83	6.85
Δ.8	8000E			2708.62	10'.18	100.430	7.98	7.97	7.96
	81			2708.60	10'.23	100.176	7.90	7.90	7.89
	82			2708.53	10'.27	99.991	7.79	7.79	7.79
	83			2708.47	10'.30	99.810	7.69	7.69	7.69
	84			2708.36	10'.33	99.657	7.54	7.54	7.55
	8500E			2708.27	10'.37	99.435	7.40	7.41	7.41
	86			2708.17	10'.42	99.218	7.25	7.26	7.27
	87			2708.15	10'.45	98.779	7.13	7.15	7.17
	88			2708.17	10'.48	98.314	7.04	7.08	7.10
	89			2708.01	10'.53	98.631	6.95	6.98	7.00
Δ	9000E			2707.87	11'.00	98.604	6.80	6.83	6.85
	91			2707.86	11'.05	98.370	6.74	6.78	6.80
	92			2707.91	11'.08	97.701	6.65	6.69	6.72
	93			2707.87	11'.12	97.493	6.56	6.61	6.64
	94			2707.85	11'.15	97.498	6.54	6.59	6.62
	9500E			2707.96	11'.18	96.681	6.47	6.54	6.58
	96			2708.01	11'.22	96.457	6.48	6.55	6.59
	97			2708.06	11'.25	96.074	6.44	6.52	6.57
	98			2708.00	11'.29	96.267	6.43	6.51	6.55
cJ	99			2707.85	11'.33	96.748	6.38	6.45	6.49
B/L	10000E			2707.80	11'.36	96.904	6.37	6.43	6.47
	101			2707.77	11'.40	96.985	6.36	6.42	6.46
	102			2707.71	11'.43	96.880	6.27	6.34	6.38
	103			2707.69	11'.47	96.845	6.25	6.31	6.35
	104			2707.69	11'.51	96.496	6.17	6.25	6.28
	10500E			2707.58	11'.54	96.402	6.04	6.11	6.15

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: BHP ELO PTY LTD
AREA:
GRID: BRINKLEY SPRINGS
LINE: 22000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste + Romb. #G-35
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION:

OPERATOR: P.C. RUNDLE
DATE: 14/04/79.

Notes:

	Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV Δ_1	Δ_2	Δ_3
	10600E			2707·58	11·57	96·171	5·99	6·07	6·11
	107			2707·50	12:02	96·026	5·87	5·96	6·00
	108			2707·48	12:06	95·792	5·80	5·89	5·94
	109			2707·40	12:10	95·560	5·67	5·70	5·81
Δ	11000E			2707·28	12:14	95·294	5·48	5·58	5·64
Δ	9000E			2707·82	12:22	98·604	6·81	6·84	6·86
Δ	11000E			2707·29	12:50	95·294			

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: BHP & CO PTY LTD
AREA:
GRID: BRINKLEY SPRINGS
LINE: 22000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER LaCoste + Romb. #G-35
METER CALIBRATION per chart.
BOUGUER DENSITY:
DRIFT CORRECTION: 0·03
AREA MAGNETIC VARIATION

OPERATOR P.C. RUNDLE
DATE 14/04/79

Notes:

	Station			Obs. Grav. s./divs.	Time	Elev.	BOUGUER GRAV		
Δ	11000E			2707·29	12:50	95·294	5·47	5·57	5·62
	111			2707·14	12:53	95·198	5·29	5·39	5·45
	112			2706·98	12:57	95·058	5·10	5·20	5·26
	113			2706·82	13:02	94·940	4·91	5·01	5·07
	114			2706·68	13:07	94·933	4·76	4·87	4·92
	11500E			2706·59	13:12	94·891	4·66	4·77	4·82
	116			2706·49	13:15	94·798	4·53	4·64	4·70
	117			2706·44	13:18	94·683	4·46	4·57	4·63
	118			2706·40	13:21	94·473	4·37	4·49	4·55
	119			2706·34	13:24	94·439	4·30	4·42	4·48
	12000E			2706·31	13:27	94·219	4·22	4·34	4·41
	121			2706·25	13:30	94·167	4·15	4·27	4·34
	122			2706·16	13:34	94·720	4·07	4·19	4·25
	123			2706·07	13:37	94·366	4·01	4·13	4·19
	124			2706·02	13:41	93·884	3·85	3·98	4·05
	12500E			2705·96	13:44	93·360	3·67	3·81	3·88
	126			2705·87	13:47	93·151	3·53	3·67	3·75
	127			2705·75	13:51	92·958	3·36	3·51	3·59
	128			2705·64	13:55	92·764	3·20	3·35	3·44
	129			2705·54	13:58	92·516	3·04	3·20	3·28
	13000E			2705·465	14:01	92·116	2·87	3·04	3·13
Δ	11000E			2707·25	14:08	95·294	5·47	5·57	5·62
Δ	13000E			2705·47	14:21	92·116	2·89	3·05	3·14

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: BHP & CO PTY LTD
AREA:
GRID: BRINKLEY SPRINGS
LINE: 22000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste & Romb # G-35
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION: −0.15
AREA MAGNETIC VARIATION:

OPERATOR: P.C. RUNDLE
DATE: 14/04/79.

Notes:

Tare of 0.19 mgals at 14700E

	Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV		
							Δ_1	Δ_2	Δ_3
Δ	13000E			2705·47	14:21	92·116	2·87	3·04	3·13
	131			2705·27	14:25	92·468	2·73	2·89	2·98
	132			2705·19	14:28	92·108	2·56	2·73	2·81
	133			2705·16	14:32	91·376	2·35	2·53	2·63
	134			2705·08	14:37	91·086	2·19	2·37	2·48
	13500E			2704·99	14:40	90·976	2·06	2·25	2·35
	136			2704·88	14:43	91·044	1·95	2·14	2·24
	137			2704·71	14:47	91·125	1·78	1·97	2·07
	138			2704·53	14:51	91·224	1·61	1·79	1·89
	139			2704·31	14:54	91·246	1·38	1·56	1·66
	14000E			2704·15	14:58	90·935	1·13	1·32	1·42
	141			2704·15	15:02	90·201	0·95	1·15	1·26
	142			2704·10	15:05	89·986	0·89	1·04	1·16
	143			2705·97	15:09	89·976	0·69	0·90	1·01
	144			2704·11	15:13	88·979	0·60	0·83	0·95
	14500E			2703·86	15:23	90·044	0·56	0·76	0·88
	146			2703·85	15:26	89·915	0·51	0·72	0·83
	147			2703·94	15:31	90·403	0·70	0·90	1·01
	148			2703·56	15:35	91·601	0·57	0·74	0·84
	149			2703·38	15:38	92·005	0·46	0·63	0·72
	15000E			2703·00	15:40	93·095	0·31	0·46	0·53
Δ	13000E			2705·91	15:59	92·116	2·87	3·04	3·13

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

Δ_6

CLIENT: BHP & CO Pty LTD
AREA:
GRID: BRINKLEY SPRINGS
LINE: 24000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste + Romb. #G-35
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION: 0·04
AREA MAGNETIC VARIATION:

OPERATOR: P.C. RUNDLE
DATE: 10/04/79. 12/04/79

Notes: Seismic Activity at 11:25 am.

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV		
						Δ_1	Δ_2	Δ_3
5600E			2704·38	9:35	109·782	7·09	6·89	6·78
5500E			2704·34	9:39	110·448	7·21	6·99	6·87
5400E			2704·18	9:45	111·217	7·22	6·98	6·86
5300E			2704·07	9:49	111·895	7·26	7·01	6·88
5200E			2703·82	9:53	112·858	7·22	6·95	6·81
5100E			2703·30	9:57	114·887	7·15	6·84	6·67
5000E			2702·85	10:00	116·627	7·08	6·73	6·54
4900E			2702·20	10:03	119·394	7·03	6·63	6·41
4800E			2702·04	10:07	120·006	7·01	6·59	6·36
4700E			2702·08	10:09	119·749	6·99	6·58	6·36
4600E			2701·79	10:12	121·078	7·00	6·55	6·32
4500E			2701·72	10:16	121·275	6·97	6·53	6·28
4400E			2701·64	10:19	121·679	6·98	6·53	6·28
→ 4300E			2701·55	10:22	121·878	6·94	6·48	6·23
4200E			2701·61	10:26	121·645	6·95	6·49	6·25
4100E			2701·61	10:29	121·809	6·99	6·53	6·28
4000E			2701·61	10:41	121·890	7·01	6·56	6·31
3900E			2701·64	10:44	121·962	7·06	6·60	6·35
3800E			2701·68	10:47	121·943	7·10	6·64	6·39
3700E			2701·71	10:52	121·947	7·14	6·68	6·43
3600E			2701·72	10:55	121·936	7·15	6·69	6·44
3500E			2701·81	10:58	121·754	7·20	6·75	6·50
3400E			2701·85	11·02	121·671	7·23	6·77	6·53
3300E			2701·91	11·13	121·290	7·21	6·77	6·52
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SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: BRUNKLEY SPRINGS
AREA:
GRID: BHP & CO PTY LTD
LINE: 24000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste + Romb. # G-35
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION: 0·04
AREA MAGNETIC VARIATION:

OPERATOR: P.C. RUNDLE
DATE: 10/04/79.

Notes:

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV		
						Δ_1	Δ_2	Δ_3
3200E			2702·06	11:17	120·730	7·24	6·81	6·57
3100E			2702·17	11:20	120·298	7·26	6·84	6·61
			"	"				
E.O.L. 3000E			2702·14	11:24	120·659	7·31	6·88	6·65
Δ_6 5600E			2704·30	11:40	109·782	7·09	6·89	6·78

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: BHP GCO PTY LTD
AREA:
GRID: BRINKLEY SPRINGS
LINE: 24000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste + Romb. #G-35
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION: -0.09
AREA MAGNETIC VARIATION:

OPERATOR: P.C. RUNDLE
DATE: 9/04/78.

Notes:

	Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV Δ_1	Δ_2	Δ_3
Δ_5	7300E			2703·89	13·45	110·356			
Δ_6	5600E			2704·33	15:00	109·782	7·09	6·89	6·78
	5700E			2704·37	15:07	109·320	7·03	6·83	6·73
	5800E			2704·19	15:12	109·500	6·88	6·68	6·57
	5900E			2704·04	15:15	109·788	6·79	6·58	6·47
	6000E			2704·03	15:18	109·427	6·69	6·50	6·39
	6100E			2703·97	15:23	109·262	6·59	6·40	6·29
	6200E			2704·04	15:27	108·650	6·52	6·34	6·24
	6300E			2704·09	15:30	108·418	6·52	6·34	6·25
	6400E			2704·12	15:33	107·868	6·43	6·26	6·17
	6500E			2704·16	15:36	107·980	6·49	6·33	6·24
	6600E			2704·18	15:39	107·738	6·46	6·30	6·21
	6700E			2704·28	15:42	107·447	6·49	6·34	6·25
	6800E			2704·32	15:45	107·456	6·54	6·38	6·30
	6900E			2704·29	15:48	107·758	6·57	6·41	6·32
	7000E			2704·32	15:52	108·066	6·67	6·51	6·41
	7100E			2704·29	15:54	108·592	6·76	6·58	6·49
	7200E			2704·04	15:57	109·868	6·79	6·59	6·47
Δ_5	7300E			2703·97	16:00	110·356	6·83	6·61	6·50
Δ_6	5600E			2704·35	16:12	109·782	7·09	6·89	6·78

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: BHP & Co PTY LTD
AREA:
GRID: DRINKLEYS SPRINGS
LINE: 24000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste + Romb. #G85
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION: -0.02
AREA MAGNETIC VARIATION:

OPERATOR: P.C. RUNDLE
DATE: 9/04/79.

Notes:

	Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV		
							Δ_1	Δ_2	Δ_3
Δ_5	7300E			2703.86	12:12	110.356	6.81	6.59	6.47
	7400E			2703.91	12:17	110.179	6.82	6.60	6.49
	7500E			2703.96	12:21	109.962	6.82	6.61	6.50
	7600E			2703.96	12:24	109.776	6.77	6.57	6.46
	7700E			2703.90	12:27	109.823	6.72	6.52	6.40
	7800E			2703.87	12:31	109.582	6.63	6.43	6.32
	7900E			2703.82	12:34	109.654	6.60	6.39	6.29
	8000E			2703.79	12:37	109.543	6.54	6.34	6.23
	8100E			2703.80	12:41	109.189	6.47	6.27	6.17
	8200E			2703.71	12:44	109.243	6.38	6.19	6.09
	8300E			2703.73	12:47	109.156	6.38	6.19	6.09
	8400E			2703.73	12:51	108.874	6.32	6.13	6.03
	8500E			2703.71	12:55	108.492	6.21	6.03	5.93
	8600E			2703.59	12:57	108.353	6.05	5.88	5.78
	8700E			2703.47	13:00	108.302	5.91	5.74	5.64
	8800E			2703.41	13:04	108.361	5.86	5.69	5.59
	8900E			2703.24	13:07	108.430	5.70	5.52	5.43
Δ_4	9000E			2703.05	13:12	108.475	5.51	5.33	5.24
Δ_5	7300E			2703.89	13:45	110.356	6.81	6.59	6.47

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: BHP & CO PTY LTD
AREA:
GRID: BRUNKLEY SPRINGS
LINE: 24000 N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste & Romb. #935
METER CALIBRATION: per chart
BOUGUER DENSITY:
DRIFT CORRECTION: 0·02
AREA MAGNETIC VARIATION:

OPERATOR: P.C.RUNDLE
DATE: 9/04/79

Notes:

	Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV		
							Δ_1	Δ_2	Δ_3
Δ_3	10500E			2702·33	9:47	103·384	4·11	4·04	4·00
	10400E			2702·65	9:50	104·382	4·15	4·06	4·01
	10300E			2702·49	9:54	105·422	4·23	4·11	4·05
	10200E			2702·55	9:58	105·617	4·33	4·22	4·15
	10100E			2702·96	10:02	104·208	4·44	4·35	4·31
	10000E			2702·98	10:08	104·694	4·58	4·48	4·42
	9900E			2702·72	10:12	106·367	4·69	4·55	4·48
	9800E			2702·69	10:15	106·705	4·73	4·59	4·52
	9700E			2702·72	10:20	107·064	4·85	4·70	4·62
	9600E			2702·68	10:23	107·627	4·94	4·78	4·69
	9500E			2702·71	10:27	107·717	4·99	4·83	4·77
	9400E			2702·70	10:31	108·012	5·05	4·88	4·79
	9300E			2702·78	10:35	108·162	5·17	5·00	4·90
	9200E			2702·85	10:41	108·445	5·31	5·13	5·04
	9100E			2702·93	10:44	108·412	5·38	5·21	5·11
Δ_4	9000E			2703·03	10:49	108·475	5·51	5·33	5·23
Δ_3	10500E			2702·81	10:58	103·384	4·11	4·04	4·00
Δ_4	9000E			2703·04	11·08	108·475	5·52	5·34	5·25

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: BHP & CO PTY LTD
AREA:
GRID: BRINKLEY SPRINGS
LINE: 24000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste & Romb. #G-35
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION: −0·003
AREA MAGNETIC VARIATION:

OPERATOR: P.C. RUNDLE
DATE: 7/04/79.

Notes:

	Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV Δ_1	Δ_2	Δ_3
Δ_2	11600E			2702·84	11:24	100·347			
Δ_3	10500E			2702·89	12:16	103·384	4·11	4·04	4·00
Δ_2	11600E			2702·94	14:26	100·347	3·46	3·45	3·45
	11500E			2702·50	14:32	102·292	3·45	3·40	3·37
	11400E			2702·38	14:37	104·005	3·71	3·63	3·58
	11300E			2702·91	14:40	101·833	3·77	3·73	3·71
	11200E			2703·02	14:43	101·668	3·85	3·81	3·79
	11100E			2702·87	14:48	102·652	3·91	3·86	3·83
	11000E			2702·68	14:52	103·879	4·00	3·92	3·87
	10900E			2702·53	14:55	104·859	4·06	3·96	3·91
	10800E			2702·45	14:58	105·225	4·06	3·95	3·90
	10700E			2702·45	15:02	105·388	4·10	3·99	3·93
	10600E			2702·58	15:05	104·395	4·01	3·92	3·87
	10500E			2702·90	15:12	103·384	4·11	4·04	4·00
Δ_3	10500E			2702·90	15:12	103·384	4·11	4·04	4·00

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE B.H.P. Co. Pty Ltd.
AREA:
GRID: Brinkley Springs
LINE: 24000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste + Romb. #G-35
METER CALIBRATION: per chart
BOUGUER DENSITY:
DRIFT CORRECTION: 0
AREA MAGNETIC VARIATION:

OPERATOR: P.C. RUNDLE
DATE: 7/04/79

Notes:

	Station			Obs. Grav. s./dlvs.	Time	Elevn.	BOUGUER GRAV Δ_1	Δ_2	Δ_3
Δ_1	24000N/13000E			2701·52	9:10	95·412	0·95	1·04	1·10
	11600E			2702·84	10:12	100·347	3·46	3·45	3·45
	11700E			2702·85	10:20	99·437	3·26	3·27	3·28
	11900E			2702·69	10:23	99·259	3·05	3·07	3·08
	11900E			2702·43	10:27	99·084	2·74	2·76	2·77
	12000E			2702·43	10:31	98·450	2·60	2·63	2·65
	12100E			2702·33	10:35	97·794	2·34	2·39	2·41
	12200E			2702·16	10:39	97·789	2·16	2·21	2·23
	12300E			2702·01	10:43	97·645	1·97	2·02	2·05
	12400E			2701·92	10:47	97·317	1·80	1·86	1·89
	12500E			2701·79	10:50	97·155	1·63	1·69	1·72
	12600E			2701·71	10:55	96·968	1·50	1·57	1·60
	12700E			2701·68	11:00	96·521	1·37	1·44	1·48
	12800E			2701·67	11:05	95·913	1·22	1·31	1·35
	12900E			2701·66	11:08	95·596	1·14	1·23	1·28
Δ_1	13000E			2701·52	11:12	95·412	0·95	1·04	1·10

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE BHP CO LTD.
AREA:
GRID: BRINKLEY SPRINGS
LINE: 26000 N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LACOSTE & Romberg # 505.
METER CALIBRATION:
BOUGUER DENSITY:
DRIFT CORRECTION: - 0.04 SD Per hour.
AREA MAGNETIC VARIATION:

OPERATOR: C Colligan
DATE: 5/4/79

Notes:

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV Δ_1	Δ_2	Δ_3
33005			716.99	10.42	117.800	7.09	6.71	6.51
32005			717.98	10.47	113.206	7.05	6.77	6.62
31			718.71	10.52	109.834	7.02	6.81	6.70
30005			718.56	10.55	110.568	7.03	6.81	6.69
29			717.96	11.00	113.171	7.01	6.73	6.58
28			717.04	11.04	116.995	6.94	6.58	6.39
27			717.73	11.09	113.885	6.93	6.64	6.48
26			718.74	11.13	109.279	6.91	6.71	6.61
25005			718.71	11.17	109.518	6.90	6.70	6.60
24			718.87	11.21	108.834	6.94	6.75	6.65
23			718.55	11.25	110.214	6.92	6.71	659
22			719.46	11.29	106.468	6.99	6.86	6.78
21			719.35	11.32	107.249	7.06	6.91	6.82
20005			718.61	11.36	110.541	7.05	6.83	6.71
33005			717.03	11.50	117.800	7.09	6.71	6.51

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: The B.H.P Co Ltd
AREA:
GRID: Brinkley Springs.
LINE: 26000 N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste # G505
METER CALIBRATION:
BOUGUER DENSITY:
DRIFT CORRECTION: −0.01 SD per Hr.
AREA MAGNETIC VARIATION:

OPERATOR: c/collogan
DATE: 4/4/79

Notes:

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV. Δ_1	Δ_2	Δ_3
5300E			2720.29	1443	103.447	7.21	7.14	7.10
5200E			720.10	14.49	104.911	7.35	7.25	7.19
51			719.97	14.53	106.158	7.50	7.37	7.30
5000E			719.71	14.57	107.976	7.65	7.48	7.39
49			719.38	15.01	110.360	7.86	7.64	7.52
48			718.58	15.06	114.817	8.06	7.75	7.58
47			717.62	15.10	119.596	8.17	7.76	7.54
46			717.60	15.15	120.242	8.30	7.87	7.64
4500E			717.68	15.20	120.054	8.34	7.92	7.69
44			717.59	15.24	120.034	8.24	7.82	7.59
43			717.46	15.28	120.094	8.12	7.70	7.47
42			717.40	15.32	119.845	8.06	7.58	7.36
41			717.28	15.36	119.655	7.83	7.42	7.20
4000E			717.12	15.39	119.659	7.67	7.26	7.04
39			717.08	15.44	119.494	7.54	7.13	6.91
38			716.86	15.49	119.566	7.38	6.97	6.75
37			716.84	15.53	119.387	7.32	6.91	6.69
3600E			716.87	15.57	119.091	7.28	6.88	6.67
35			717.07	16.01	117.898	7.21	6.84	6.64
34			717.40	16.05	116.195	7.16	6.82	6.64
3300E			716.97	16.10	117.800	7.09	6.72	6.51
5300E			720.30	16.29	103.447	7.21	7.14	7.10
5300E								

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: The B.H.P Co Ltd
AREA:
GRID: Brinkley Springs.
LINE: 26000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER:
METER CALIBRATION:
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION:

OPERATOR: CC
DATE: 4/9/79

Notes:
"Rain"

Station			Obs. Grav. s./dive.	Time	Elevn.	BOUGUER GRAV. Δ_1	Δ_2	Δ_3
7000E			2718.58	12^{48}	103.432	5.48	5.41	5.37
5300E			720.27	13^{10}	103.447	7.21	7.14	7.10
54			720.40	13^{16}	102.221	7.07	7.02	6.99
55			720.57	13^{21}	101.082	6.98	6.95	6.94
56			720.65	13^{25}	100.298	6.88	6.87	6.87
57			720.51	13^{30}	100.609	6.80	6.79	6.79
58			720.28	13^{34}	101.647	6.81	6.77	6.75
59			719.71	13^{39}	103.905	6.74	6.66	6.61
6000E			718.45	13^{44}	109.208	6.66	6.47	6.36
61			718.77	13^{50}	107.547	6.61	6.45	6.36
62			719.21	13^{54}	105.278	6.54	6.43	6.37
63			719.49	13^{58}	103.771	6.48	6.40	6.36
64			718.93	14^{03}	105.886	6.39	6.26	6.20
65			718.78	14^{07}	106.076	6.28	6.15	6.08
66			718.74	14^{11}	105.731	6.15	6.03	5.97
67			718.92	14^{15}	104.404	6.03	5.94	5.89
68			719.82	14^{19}	99.562	5.85	5.85	5.86
69			719.52	14^{24}	100.065	5.65	5.65	5.65
7000E			2718.61	14^{28}	103.432	5.49	5.42	5.38
5300E			2720.29	14^{43}	103.447			

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: The B.H.P. Co Ltd

AREA:

GRID: Brinkley Springs.

LINE: 26000N

LINE MAGNETIC BRG:

BASE STATION:

BASE NOMINAL GRAV:

BASE NOMINAL ELEVN:

BASE LATITUDE:

METER:

METER CALIBRATION:

BOUGUER DENSITY:

DRIFT CORRECTION: .004 s.d. per hour.

AREA MAGNETIC VARIATION:

OPERATOR: Blair.

DATE: 3/4/79

Notes:

	Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV 340		
							Δ_1	Δ_2	Δ_3
Δ_3	6000E			2714.38	1449	105.187	1.58	1.47	1.41
Δ_4 x	7000E			718.58	15 18	103.432	5.48	5.41	5.37
	71			717.99	15 21	104.985	5.23	5.13	5.07
	72			717.82	15 25	104.905	5.04	4.93	4.88
x	73			718.23	15 29	102.173	4.83	4.79	4.76
	74			717.52	15 34	104.901	4.73	4.63	4.57
	75			717.41	15 38	104.811	4.60	450	4.44
x	76			717.26	15 42	104.851	4.45	4.35	4.30
	77			717.10	1547	104.825	4.28	4.18	4.13
	78			716.94	15 50	105.054	4.17	4.07	4.01
	79			716.71	1555	105.606	4.06	3.95	3.88
x	8000E			716.48	1559	106.139	3.95	3.82	3.75
	81			716.30	16 02	106.439	3.83	3.70	3.63
	82			715.99	16 06	107.337	3.72	3.57	3.49
x	83			715.83	16 11	107.509	3.60	3.44	3.36
	84			715.74	16 16	107.499	3.50	3.35	3.26
	85			715.67	16 20	107.346	3.40	3.24	3.16
x	86			715.57	1623	107.407	5.31	315	3.07
x	87			715.50	16 26	107.363	3.23	3.07	2.99
	88			715.52	16 32	106.826	3.13	2.98	2.91
	89			715.47	16 36	106.748	3.06	2.92	2.84
x	9000E			715.44	16 40	106.435	2.96	2.82	2.75
	91			715.32	16 45	106.516	2.85	2.72	2.64
	92			715.23	16 48	106.506	2.76	2.62	2.55
	93			715.16	1652	106.534	2.69	2.56	2.48
	94			715.09	1657	106.313	2.57	2.44	2.37
	95			715.13	17 00	105.617	2.45	2.33	2.27

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: The B.H.P. Co Ltd.
AREA:
GRID: Brinkley Springs.
LINE: 26000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste # G 505
METER CALIBRATION:
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION:

OPERATOR: B Ran
DATE: 3/4/79

Notes:

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Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV. Δ_1	Δ_2	Δ_3
9600			2715.03	1705	105.387	2.30	2.18	2.12
97			714.94	1708	105.020	2.12.	2.02.	1.96
98			714.72	1711	105.415	1.99	1.87	1.81
99			714.55	1715	105.364	1.80	1.69	1.63.
10000E			714.37	1719	105.187	1.58	1.47	1.41

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: The B.H.P. Co Ltd
AREA:
GRID: Brinkley Springs.
LINE: 26000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste # G 505
METER CALIBRATION:
BOUGUER DENSITY:
DRIFT CORRECTION: -.01 s.d per hour.
AREA MAGNETIC VARIATION:

OPERATOR: BPau
DATE: 3/4/79

Notes:

	Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV. Δ_1	Δ_2	Δ_3
Δ_2	12000E			2 712.94	1258	102.139	-0.58	-.62	-.64
	119			712.95	1304	102.01	-0.60	-.64	-.66
	118			712.97	1307	101.918	-0.60	-.64	-.66
	117			713.05	1311	101.973	-0.50	-0.54	-0.57
	116			713.00	1315	102.277	-0.48	-0.53	-0.56
	115			712.90	1320	102.768	-0.47	-0.53	-0.56
	114			712.88	1323	102.988	-0.44	-0.51	-0.54
	113			712.88	1327	103.064	-0.43	-0.49	-0.53
	112			712.87	1330	103.287	-0.39	-0.46	-0.49
	111			712.85	1334	103.610	-0.33	-0.41	-0.45
	11000E			712.90	1338	103.963	-0.20	-0.29	-0.33
	109			712.97	1343	104.122	-0.10	-0.18	-0.23
	108			713.09	1347	103.909	-0.02	-0.10	-0.15
	107			713.25	1352	103.918	0.14	0.06	0.02
	106			713.42	1355	103.992	0.33	0.25	0.21
	105			713.58	1359	104.121	0.53	0.44	0.39
	104			713.72	1402	104.401	0.73	0.64	0.59
	103			713.82	1406	104.644	0.89	0.79	0.74
	102			714.01	1409	104.837	1.13	1.03	0.97
	101			714.20	1412	105.045	1.37	1.27	1.21
Δ_3	10000E			714.37	1419	105.187	1.58	1.47	1.41
Δ_2	12000E			712.95	1434	102.139	-0.58	-0.62	-0.64
Δ_3	10000E			714.38	1449	105.187	1.59	1.48	1.42

JLO GEOPHYSICS AND CO.

GRAVITY SURVEY

A1

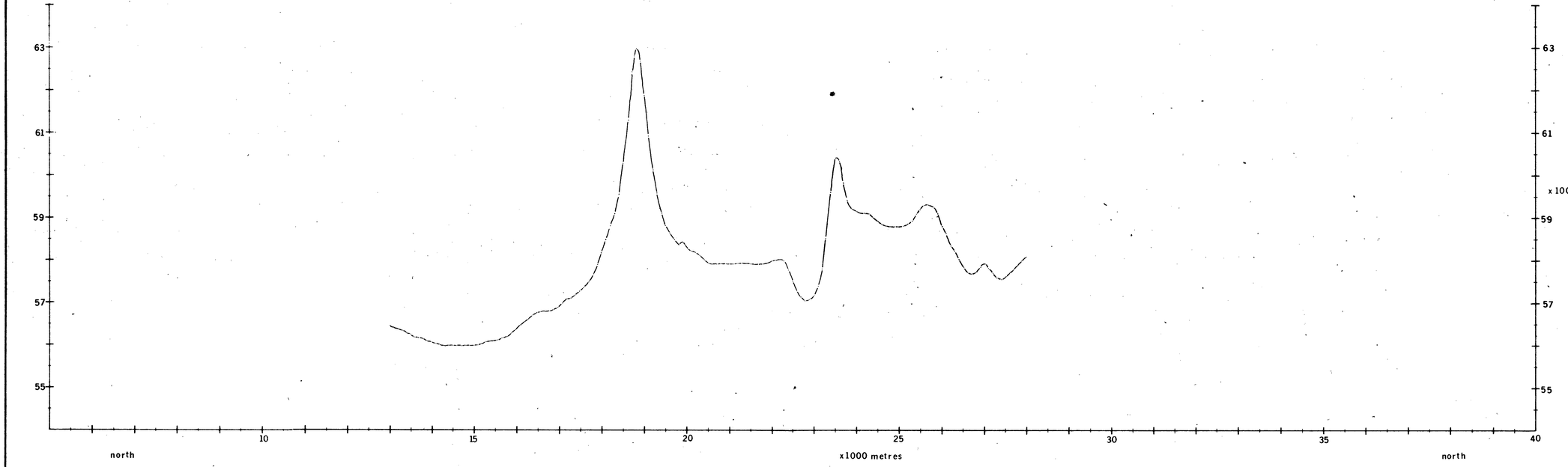
CLIENT: THE BH.P CO LTD.
AREA:
GRID: BRINKLEY SPRINGS
LINE: 26000 N
LINE MAGNETIC BRG: 83.5°
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste # G 505
METER CALIBRATION:
BOUGUER DENSITY:
DRIFT CORRECTION: -.02 s.d per hour
AREA MAGNETIC VARIATION:

OPERATOR: C. COLLOGAN
DATE: 3/4/79

Notes:

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV.		
						Δ_1 1.9	Δ_2 2.4	Δ_3 2.67
13000E			2713.99	10 23				
			713.97	10.37	100.00	00.00	.00.00	0.00
129			713.62	10 52	101.427	-.04	-.07	-.08
128			713.53	11 05	101.578	-.10	-.13	-.15
127			713.50	11.13	101.569	-.13	-.17	-.18
126			713.45	11.20	101.580	-.18	-.22	-.24
125			713.33	11.26	101.760	-.27	-.31	-.33
124			713 18	11 35	101.959	-.38	-.42	-.44
123			713.09	11.41	101.982	-.47	-.51	-.53
122			713.04	11 47	102.061	-.50	-.55	-.57
121			712.99	11.55	102.148	-.54	-.58	-.61
12000			2 712 96	12 02	102.139	-0.57	-0.62	-0.64
13000E			2 714.00	12 11	100.00	0.00	0.00	0.00
12000			2 712.95	12 21	102.139			

3764-2



SOLO GEOPHYSICS AND CO.

MAGNETOMETER SURVEY

CLIENT THE BHP CO LTD

AREA E.L 369 LAKE EYRE WEST

GRID BRINKLEY SPRINGS

LINE BASELINE 10000E BRG 353·5

METER SCINTREX MP-2 PROTON

CALIBRATION

DATA SCALE 1:50000

SURVEYORS B.RAU PR

DATE OF SURVEY MARCH/APRIL 1979

PLOTTED BY BR

3754-3

SOLO GEOPHYSICS AND CO.

MAGNETOMETER SURVEY

CLIENT THE BHP CO LTD

AREA E.L 369 LAKE EYRE WEST

GRID BRINKLEY SPRINGS

LINE 14000N BRG 83/263

METER SCINTREX MP-2 PROTON

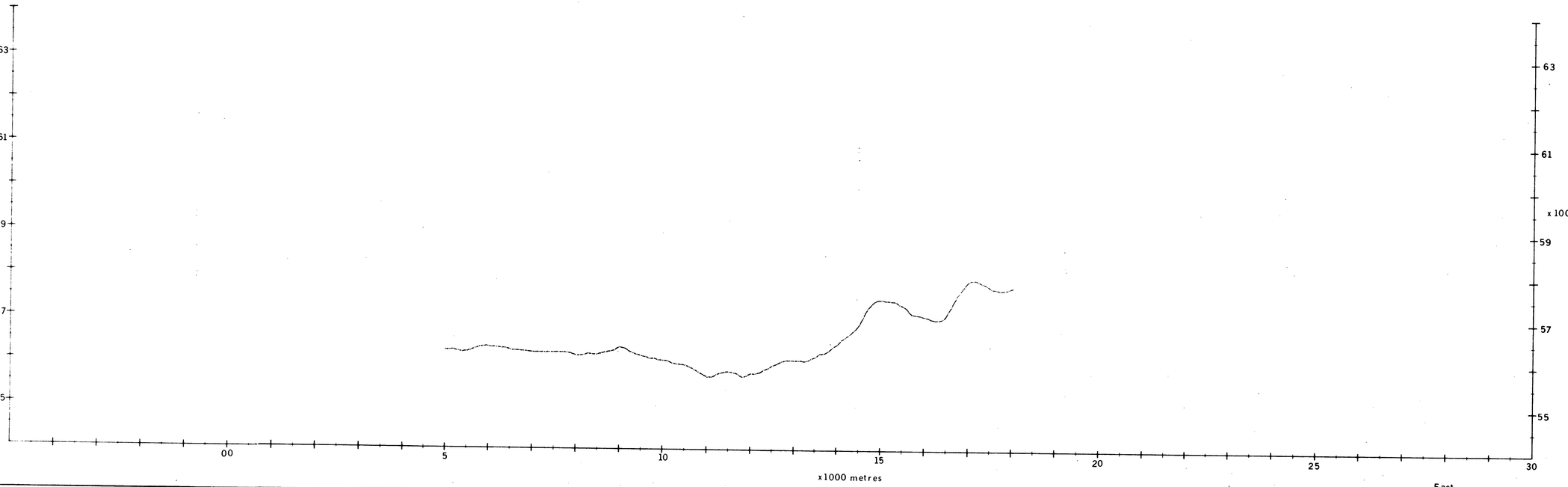
CALIBRATION

DATA SCALE 1:50000

SURVEYORS B.RAU PR

DATE OF SURVEY MARCH/APRIL 1979

PLOTTED BY BR



3754-4

SOLO GEOPHYSICS AND CO.

MAGNETOMETER SURVEY

CLIENT THE BHP CO LTD

AREA E.L 369 LAKE EYRE WEST

GRID BRINKLEY SPRINGS

LINE 16000N BRG 83/263

METER SCINTREX MP-2 PROTON

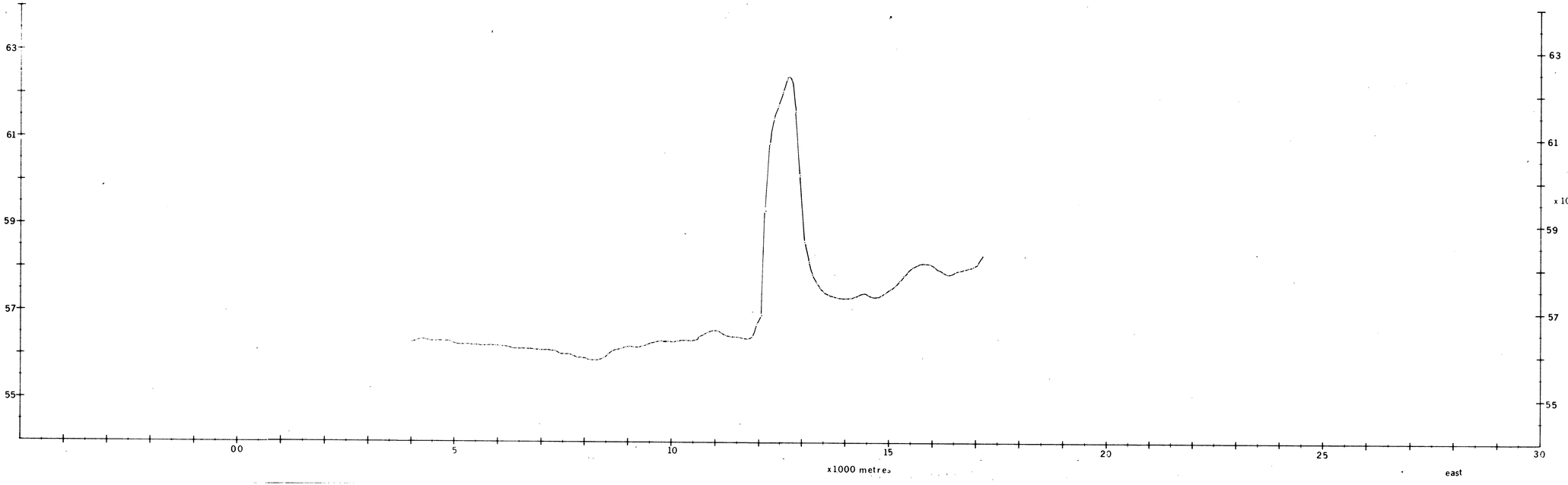
CALIBRATION

DATA SCALE 1:50000

SURVEYORS B RAU PR

DATE OF SURVEY MARCH/APRIL 1979

PLOTTED BY BR



3754-5

SOLO GEOPHYSICS AND CO.

MAGNETOMETER SURVEY

CLIENT THE BHP CO LTD

AREA E.L 369 LAKE EYRE WEST

GRID BRINKLEY SPRINGS

LINE 18000N BRG 83/263

METER SCINTREX MP-2 PROTON

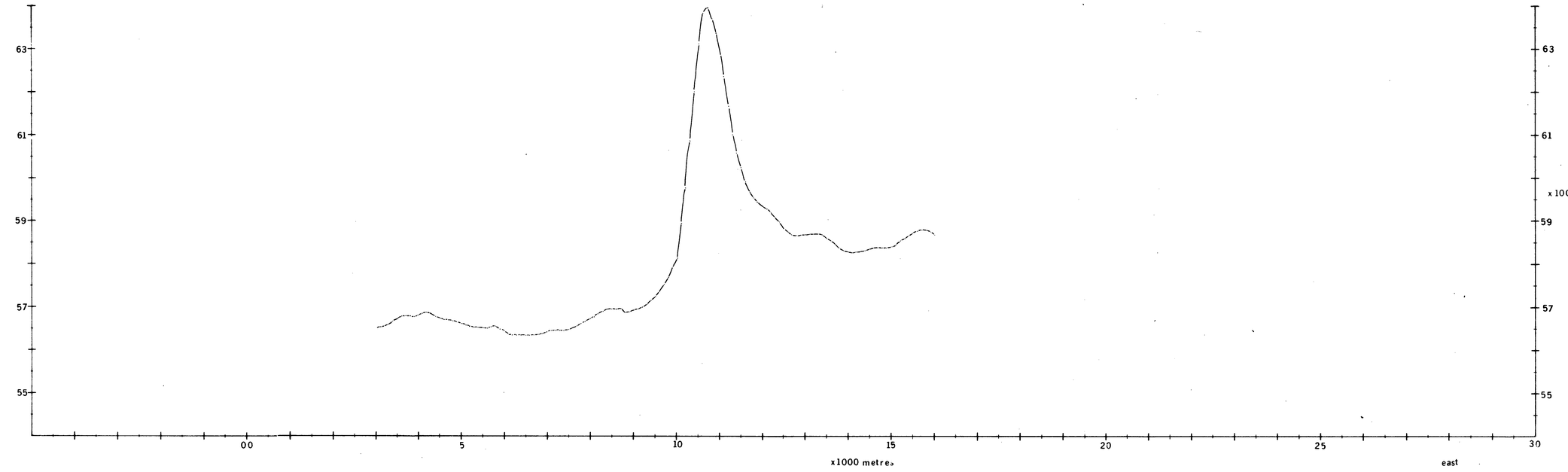
CALIBRATION

DATA SCALE 1:50000

SURVEYORS B.RAU. PR

DATE OF SURVEY MARCH/APRIL 1979

PLOTTED BY BR



3764-6

SOLO GEOPHYSICS AND CO.

MAGNETOMETER SURVEY

CLIENT THE BHP CO LTD

AREA E.L 369 LAKE EYRE WEST

GRID BRINKLEY SPRINGS

LINE 20000N BRG 83/263

METER SCINTREX MP-2 PROTON

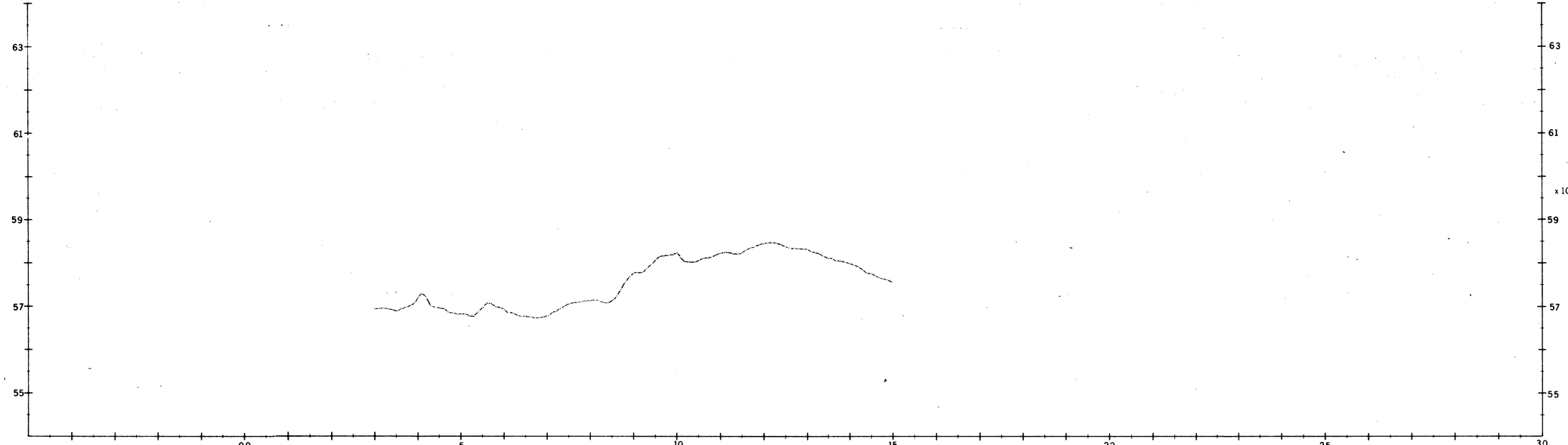
CALIBRATION

DATA SCALE 1:50000

SURVEYORS B.RAU PR

DATE OF SURVEY MARCH/APRIL 1979

PLOTTED BY BR



3754-7

SOLO GEOPHYSICS AND CO.

MAGNETOMETER SURVEY

CLIENT THE BHP CO LTD

AREA E.L 369 LAKE EYRE WEST

GRID BRINKLEY SPRINGS

LINE 22000N BRG 83/263

METER SCINTREX MP-2 PROTON

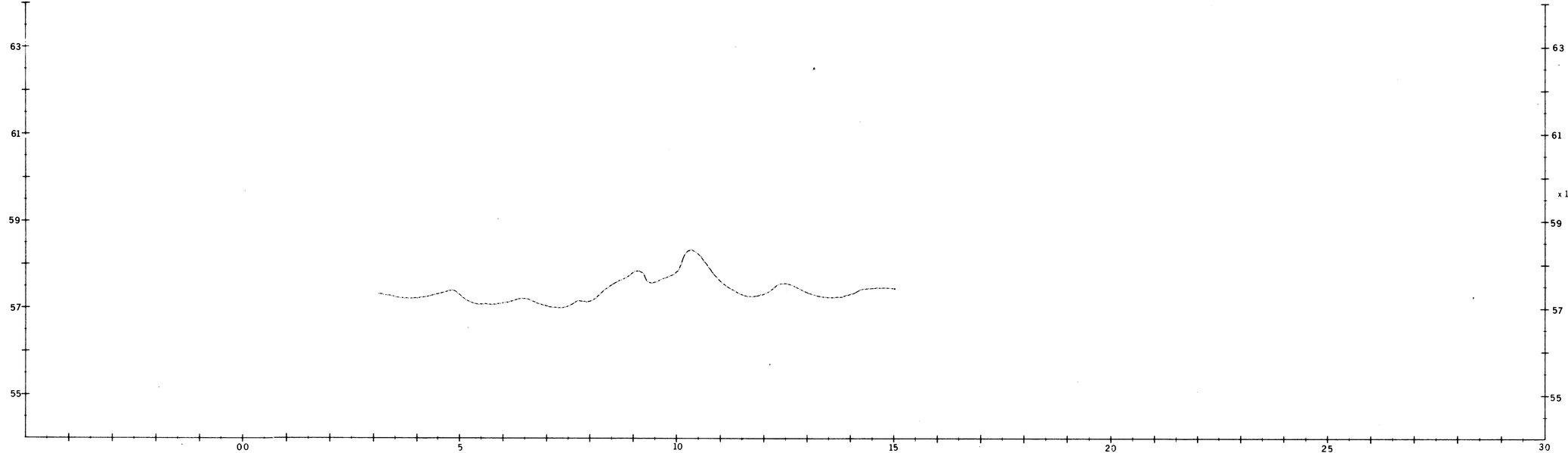
CALIBRATION

DATA SCALE 1:50000

SURVEYORS B.RAU PR

DATE OF SURVEY MARCH/APRIL 1979

PLOTTED BY BR



3754-8

SOLO GEOPHYSICS AND CO.

MAGNETOMETER SURVEY

CLIENT THE BHP CO LTD

AREA E.L 369 LAKE EYRE WEST

GRID BRINKLEY SPRINGS

LINE 24000N BRG 83/263

METER SCINTREX MP-2 PROTON

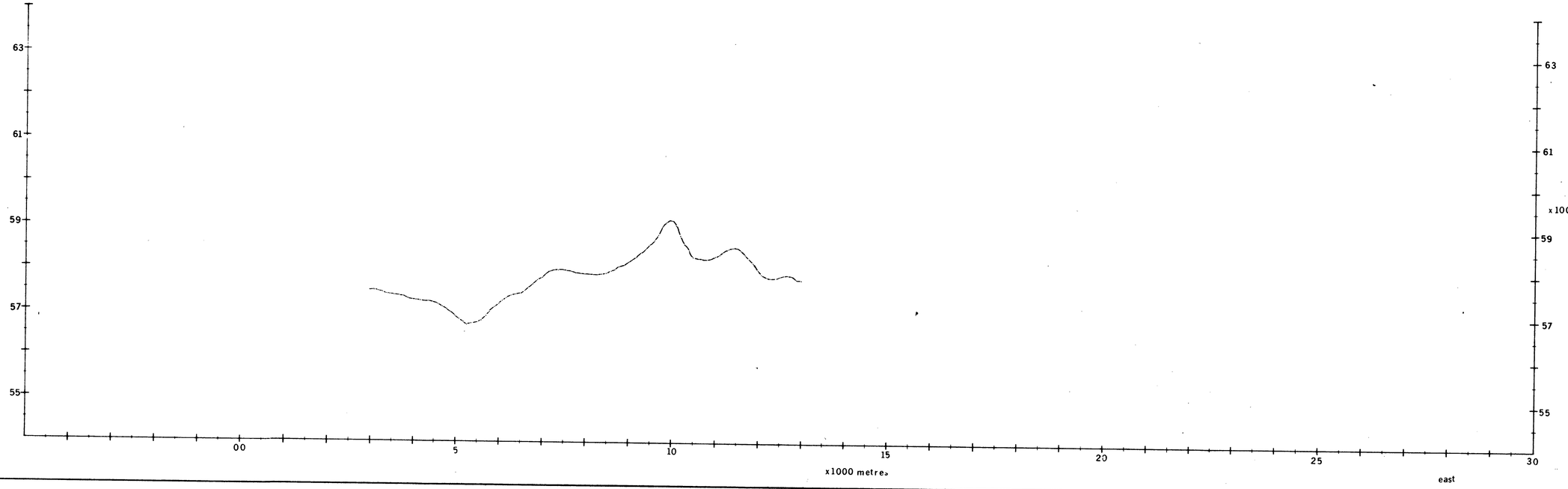
CALIBRATION

DATA SCALE 1:50000

SURVEYORS B.RAU PR

DATE OF SURVEY MARCH/APRIL 1979

PLOTTED BY BR



3754-9

SOLO GEOPHYSICS AND CO.

MAGNETOMETER SURVEY

CLIENT THE BHP CO LTD

AREA E.L 369 LAKE EYRE WEST

GRID BRINKLEY SPRINGS

LINE 26000N BRG 83/263

METER SCINTREX MP-2 PROTON

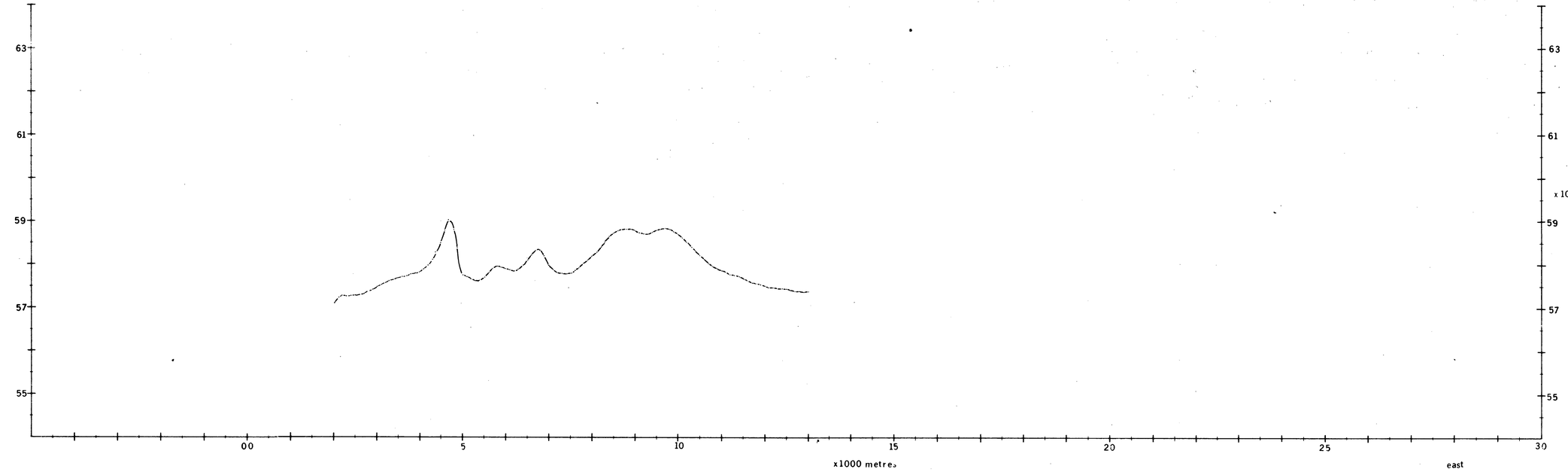
CALIBRATION

DATA SCALE 1:50000

SURVEYORS B.RAU PR

DATE OF SURVEY MARCH/APRIL 1979

PLOTTED BY BR



3754-10

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY WITH LEVELLING

CLIENT THE BHP CO LTD

AREA EL 369 LAKE EYRE WEST

GRID BRINKLEY SPRINGS

LINE BASELINE 10000E BRG 353·5°

GRAVITY METER LA COSTE

CALIBRATION PER CAL CHART

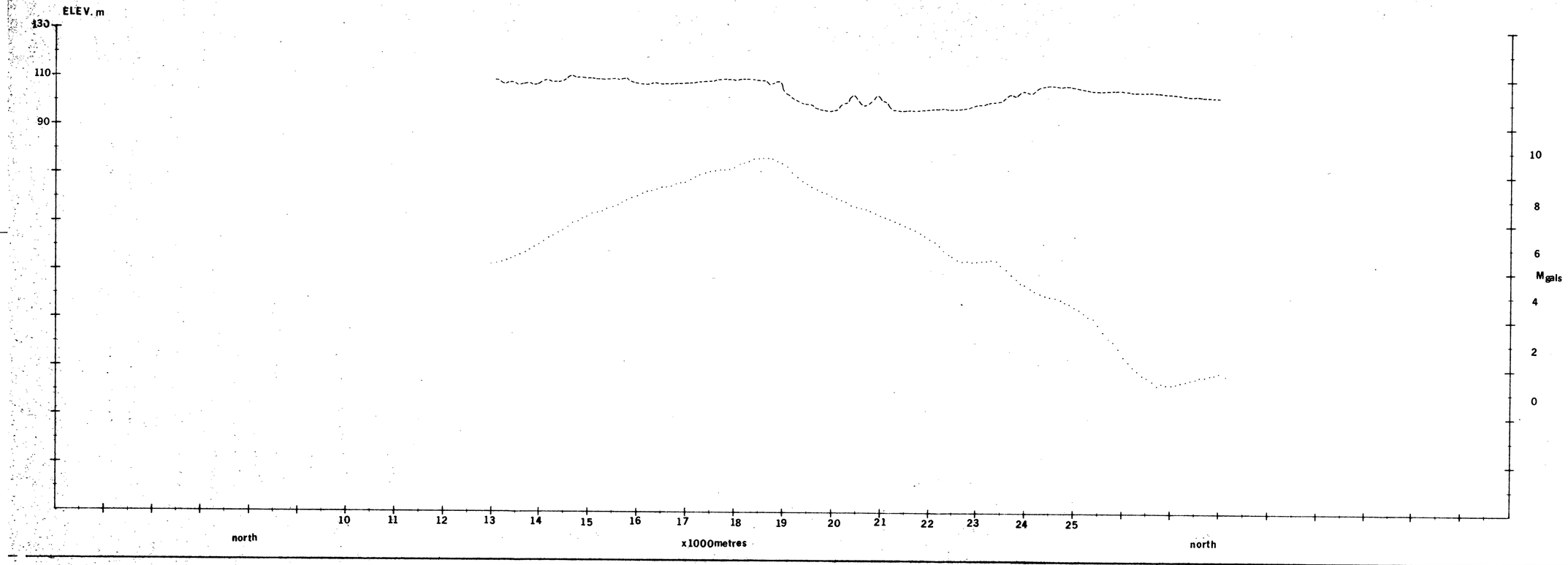
DATA SCALE 1:50000

SURVEYORS BR PR CC

DATE OF SURVEY MARCH/APRIL 1979

PLOTTED BY BR

DENSITY 1·9 gms/cc.



3754-11

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY WITH LEVELLING

CLIENT THE BHP CO LTD

AREA EL369 LAKE EYRE WEST

GRID BRINKLEY SPRINGS

LINE 14000 N BRG 83/263

GRAVITY METER LA COSTE

CALIBRATION PER CAL CHART

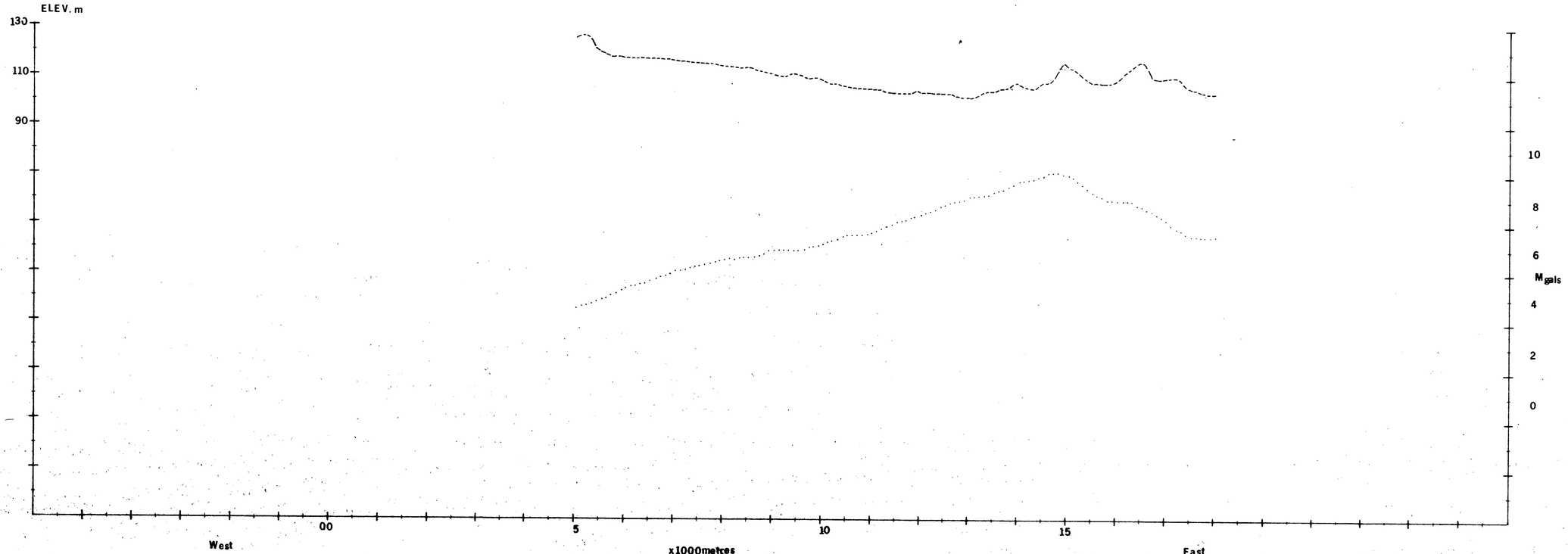
DATA SCALE 1:50000

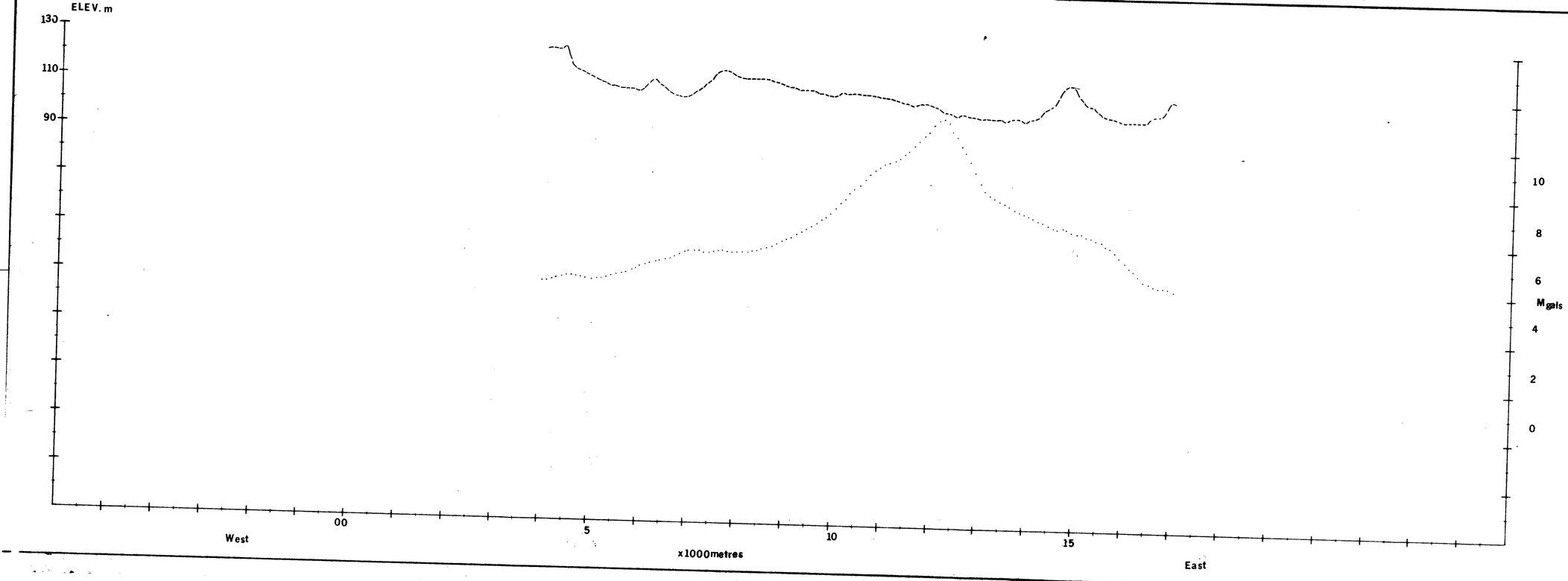
SURVEYORS BR PR CC

DATE OF SURVEY MARCH/APRIL 1979

PLOTTED BY BR

DENSITY 1·9 gms/cc.





3754-12

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY WITH LEVELLING

CLIENT THE BHP CO LTD

AREA EL 369 LAKE EYRE WEST

GRID BRINKLEY SPRINGS

LINE 16000 N BRG 83/263

GRAVITY METER LA COSTE

CALIBRATION PER CAL CHART

DATA SCALE 1:50000

SURVEYORS BR PR CC

DATE OF SURVEY MARCH/APRIL 1979

PLOTTED BY BR

DENSITY 1·9 gms/cc.

3754-13

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY WITH LEVELLING

CLIENT THE BHP CO LTD

AREA EL 369 LAKE EYRE WEST

GRID BRINKLEY SPRINGS

LINE 18000 N BRG 83/263°

GRAVITY METER LA COSTE

CALIBRATION PER CAL CHART

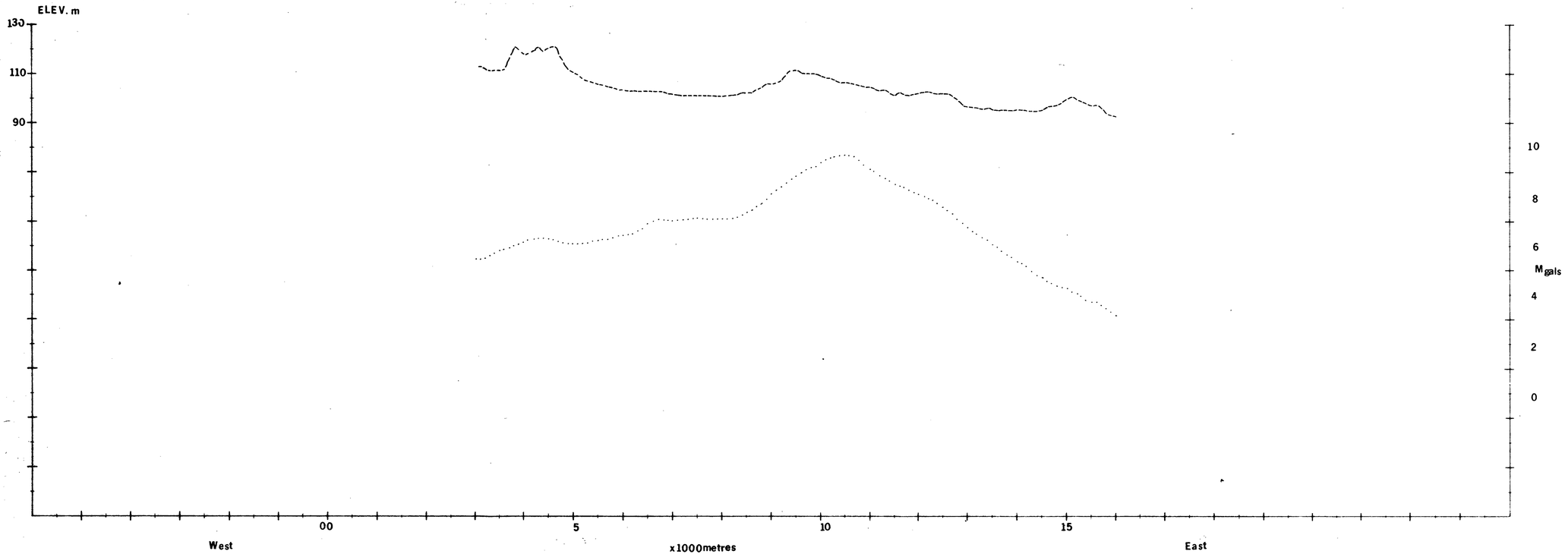
DATA SCALE 1:50000

SURVEYORS BR PR CC

DATE OF SURVEY MARCH/APRIL 1979

PLOTTED BY BR

DENSITY 1·9 gms/cc.



3754-14

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY WITH LEVELLING

CLIENT THE BHP CO LTD

AREA EL 369 LAKE EYRE WEST

GRID BRINKLEY SPRINGS

LINE 20000 N BRG 83/263

GRAVITY METER LA COSTE

CALIBRATION PER CAL CHART

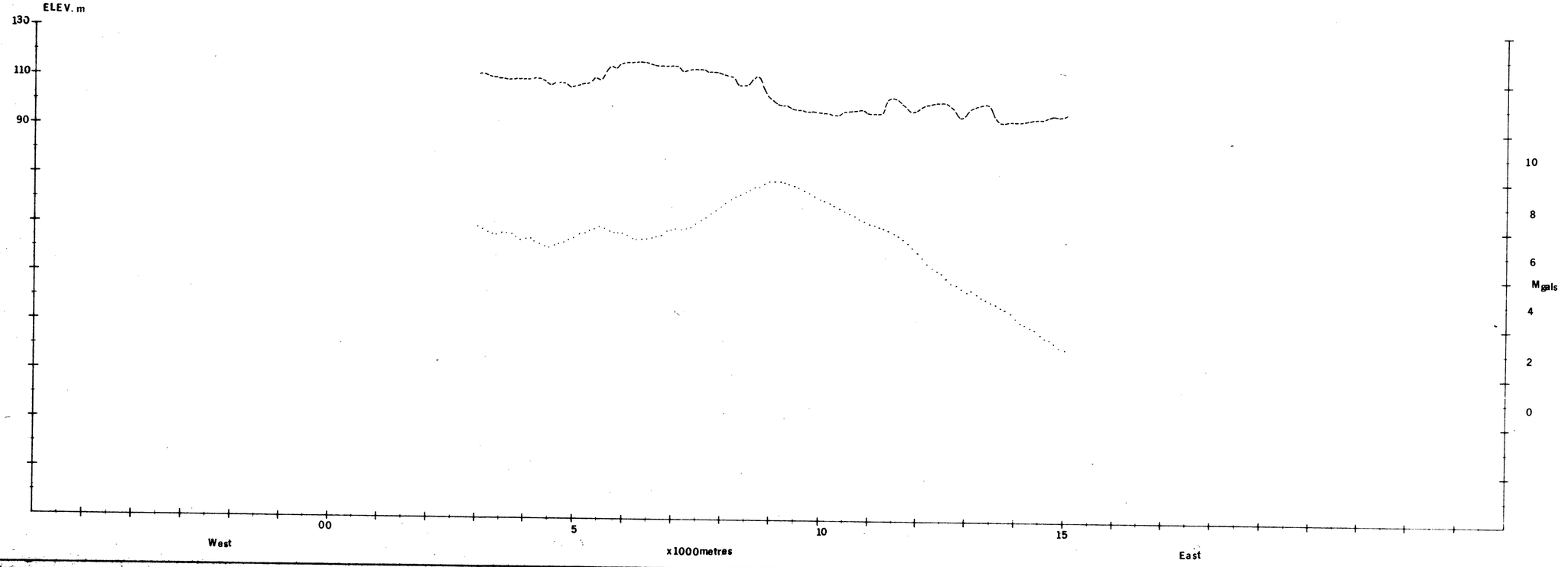
DATA SCALE 1:50000

SURVEYORS BR PR CC

DATE OF SURVEY MARCH/APRIL 1979

PLOTTED BY BR

DENSITY 1·9 gms/cc.



3754-15

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY WITH LEVELLING

CLIENT THE BHP CO LTD

AREA EL369 LAKE EYRE WEST

GRID BRINKLEY SPRINGS

LINE 22000N BRG 83/263

GRAVITY METER LA COSTE

CALIBRATION PER CAL CHART

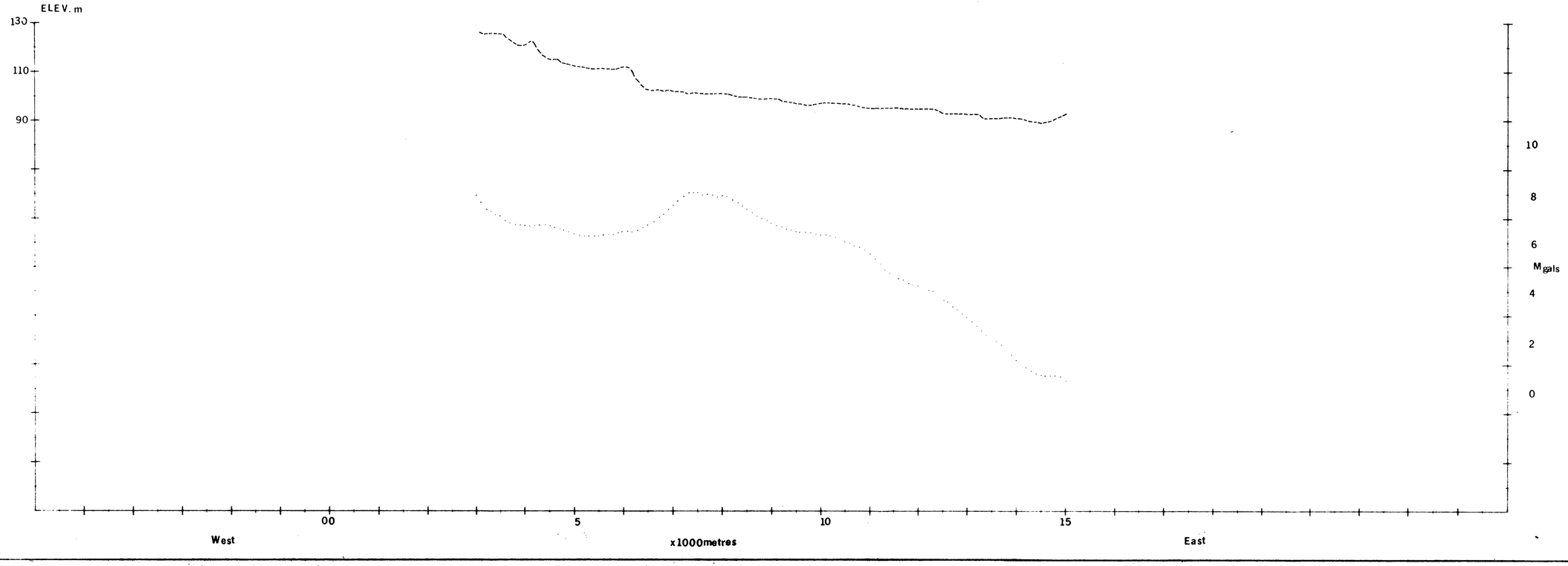
DATA SCALE 1:50000

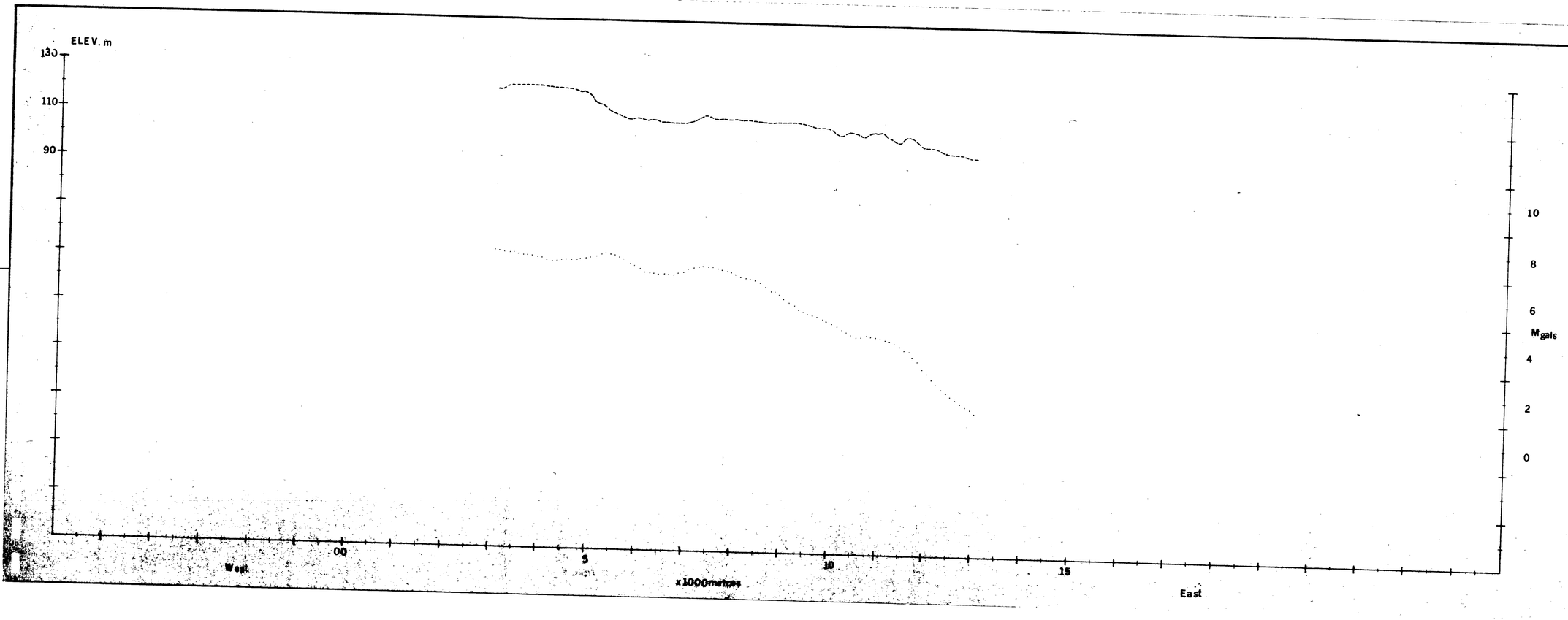
SURVEYORS BR PR CC

DATE OF SURVEY MARCH/APRIL 1979

PLOTTED BY BR

DENSITY 1·9 gms/cc.





3754-16

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY WITH LEVELLING

CLIENT THE BHP CO LTD

AREA EL 369 LAKE EYRE WEST

GRID BRINKLEY SPRINGS

LINE 24000 N BRG 83/263

GRAVITY METER LA COSTE

CALIBRATION PER CAL CHART

DATA SCALE 1:50000

SURVEYORS BR PR CC

DATE OF SURVEY MARCH/APRIL 1979

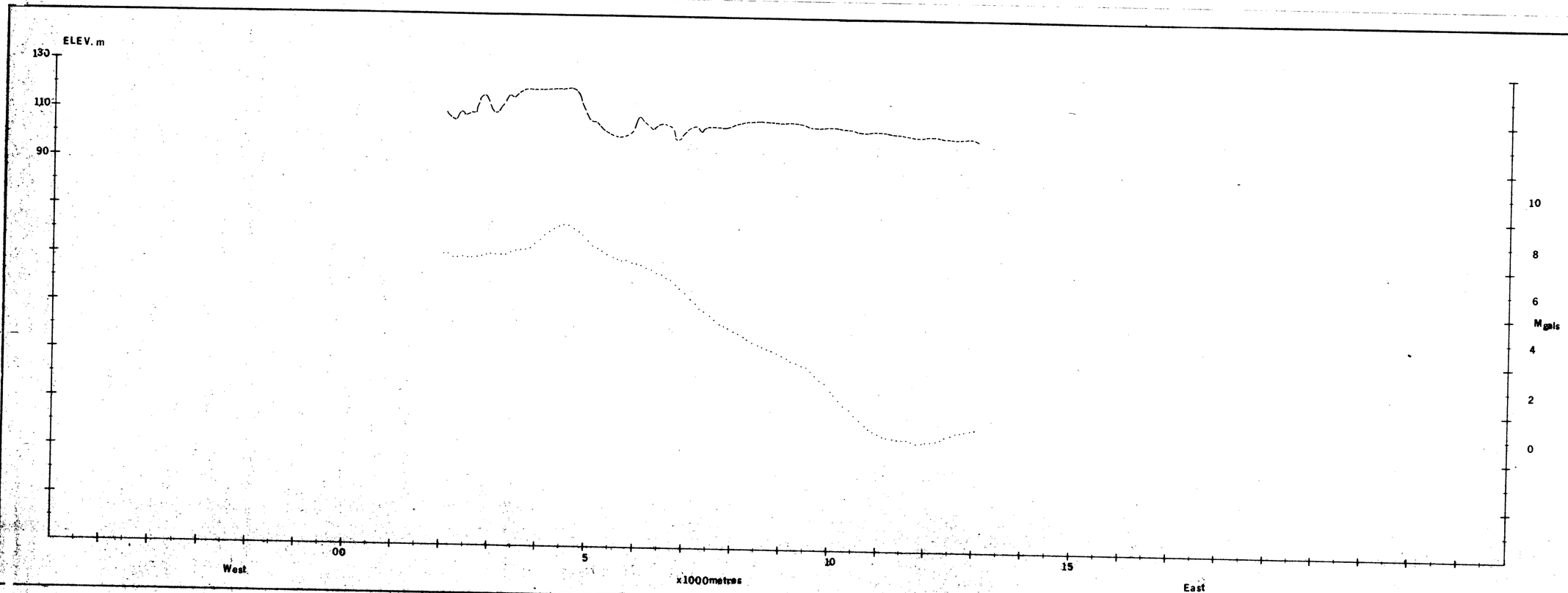
PLOTTED BY BR

DENSITY 1·9 gms/cc.

3754-17

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY WITH LEVELLING



CLIENT THE BHP CO LTD

AREA EL 369 LAKE EYRE WEST

GRID BRINKLEY SPRINGS

LINE 26000 N BRG 83/263

GRAVITY METER LA COSTE

CALIBRATION PER CAL CHART

DATA SCALE 1:50000

SURVEYORS BR PR CC

DATE OF SURVEY MARCH/APRIL 1979

PLOTTED BY BR

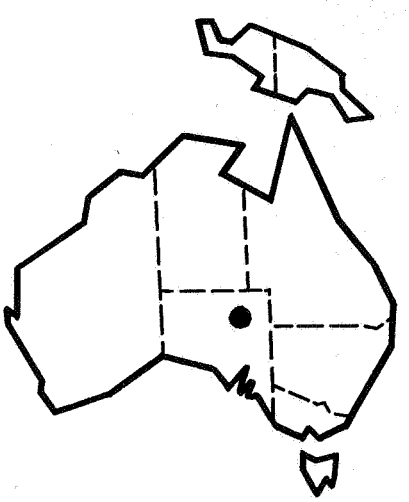
DENSITY 1·9 gms/cc.

C. R. _____

344

Exploration Department

EXPLORATION LICENCE 369
AND
EXPLORATION LICENCE 583
WEST LAKE EYRE, SOUTH AUSTRALIA
FINAL REPORT
APPENDIX 1 VOL. 3



CR 2454

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

AREA: E.L. 369 LAKE EYRE WEST

GRID: LAGOON HILL

SURVEY: MAGNETICS

DATE: APRIL AND MAY, 1979

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

SEE PART II FOR GRAVITY INFORMATION.

C O N T E N T S

1. REPORT 347

2. APPENDIX

3. GRID MAP (1:100000)

4. CULTURAL GRID MAP (1:250000)

5. MAGNETICS FIELD SHEETS (as per below)

6. MAGNETICS LINE PROFILES (as per below)

LINE NUMBERS

LINE - 1	00	- 16500N	BRG.	14°/194°
LINE - 2	3000N	- 12000N	BRG.	14°/194°
3000N	10000W	- 10000E	BRG.	84°/264°
6000N	10000W	- 10000E	BRG.	84°/264°
9000N	5000W	- 10000E	BRG.	84°/264°
12000N	5000W	- 10000E	BRG.	84°/264°
15000N	5000W	- 14000E	BRG.	84°/264°

Separate cover, original field sheets

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

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

DATE: APRIL and MAY, 1979

- - - - - - - - - - - - - - -

A combined survey of 206 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 kilometres north of William Creek and south 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-existent 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.

Three 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 three inches of rain experienced during the survey period. Two 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 20°C to 34°C, averaging about 30°C.

The Survey:

Two four-wheel drive vehicles and a large trailer were used to mobilize food supplies and petrol from Adelaide to the area. One base camp was used for all survey areas as frequent rain made it impossible to move a load across country nearer to the northern grid. Several periods of thunderstorm activity made access to the grid impossible for about one week. Thereafter the ground was very wet and unstable, and survey progress was slow. Eventually, by working long hours, the crew completed the area and departed during the build up of another storm, which completely flooded the grids again.

A grid was established by using special calibrated odometers in the vehicles for distance measuring. Gridding at 300 meter intervals was done simultaneously with magnetics gravity and levelling. The base line was established in a north-south direction, and grid origin line -1, 2000N was located four hundred metres due east of "Big Perry" spring. This baseline was continued south to 00 near "Big Perry" stockyard and north to 16500N on the edge of the Neales River. Steel pegs were located at the origin of each line and white timber pegs at 300 metre intervals along all lines. Line -1 and Line -2 had a bearing of $14^{o}/194^{o}$ magnetic and grid lines $84^{o}/264^{o}$ magnetic.

These lines are:

LINE -1	00	to	16500N
LINE -2	3000N	to	12000N
3000N	10000W	to	10000E
6000N	10000W	to	10000E
9000N	5000W	to	10000E
12000N	5000W	to	10000E
15000N	5000W	to	14000E

Magnetics Survey:

Measurements were taken at a 100 metre station interval along all survey lines using two Scintrex MP-2 proton magnetometers. A sensing head height of 2.5 metres above ground level was used to give good resolution especially in regions of strong magnetic gradient. A compass deviation of 5^{o} - 10^{o} was observed over these large gradients of 800nT per 100 metres.

A main base at 26000N 13000E was established for 57371nT on Brinkley Springs grid, and was the origin for all magnetic levels during the survey. A series of bases were carried along the grid baseline to each crossline and further sub-bases coincided with gravity base loops along each line.

Data Presentation:

All field data was corrected for diurnal drift during each loop and corrections completed on the field sheets. Line profiles of corrected data at 1:50000 scale and 1 cm = 500nT vertical were produced in the field.

Summary:

The combined Brinkley Springs, Lagoon Hill survey took a period of six weeks to complete 206 line kilometres. The first grid was completed in two weeks, however, thunderstorms and flooding reduced progress when access was impossible for over one week to the latter grid. In dry weather two weeks would have been sufficient to complete the area.

for SOLO GEOPHYSICS AND CO.

B. A. Rau

BRIAN RAU
MANAGER

APPENDIX

Communications:

A telephone is available at the William Creek Hotel-Store. Anna Creek homestead has a regular radio schedule at 7:45 a.m., 11:45 a.m., 6:45 p.m. using Flying Doctor Radio frequency 2020, Dick Nunn the manager. R.F.D.S. at Port Augusta is available for operators of equipment on their frequencies 4010 and 6890.

Petrol and Food:

Petrol is available from pump or bulk in 44 gallon drums from William Creek. Fresh food supplies not carried at William Creek store, very limited stock. Can be ordered by telephone from Maree and delivered by train. Fresh meat available from Anna Creek.

Water:

Three hot flowing artesian bores are on the grid area plus numerous hot springs. All surface water can be assumed to be saline. Mussel waterhole in Davenport Creek had a good supply of water after creeks stopped flowing. The main Neales River was almost fresh water, but not easily accessible to water-trucks. Dams in the area were all full after the rains. See diagram for location of bores and dam.

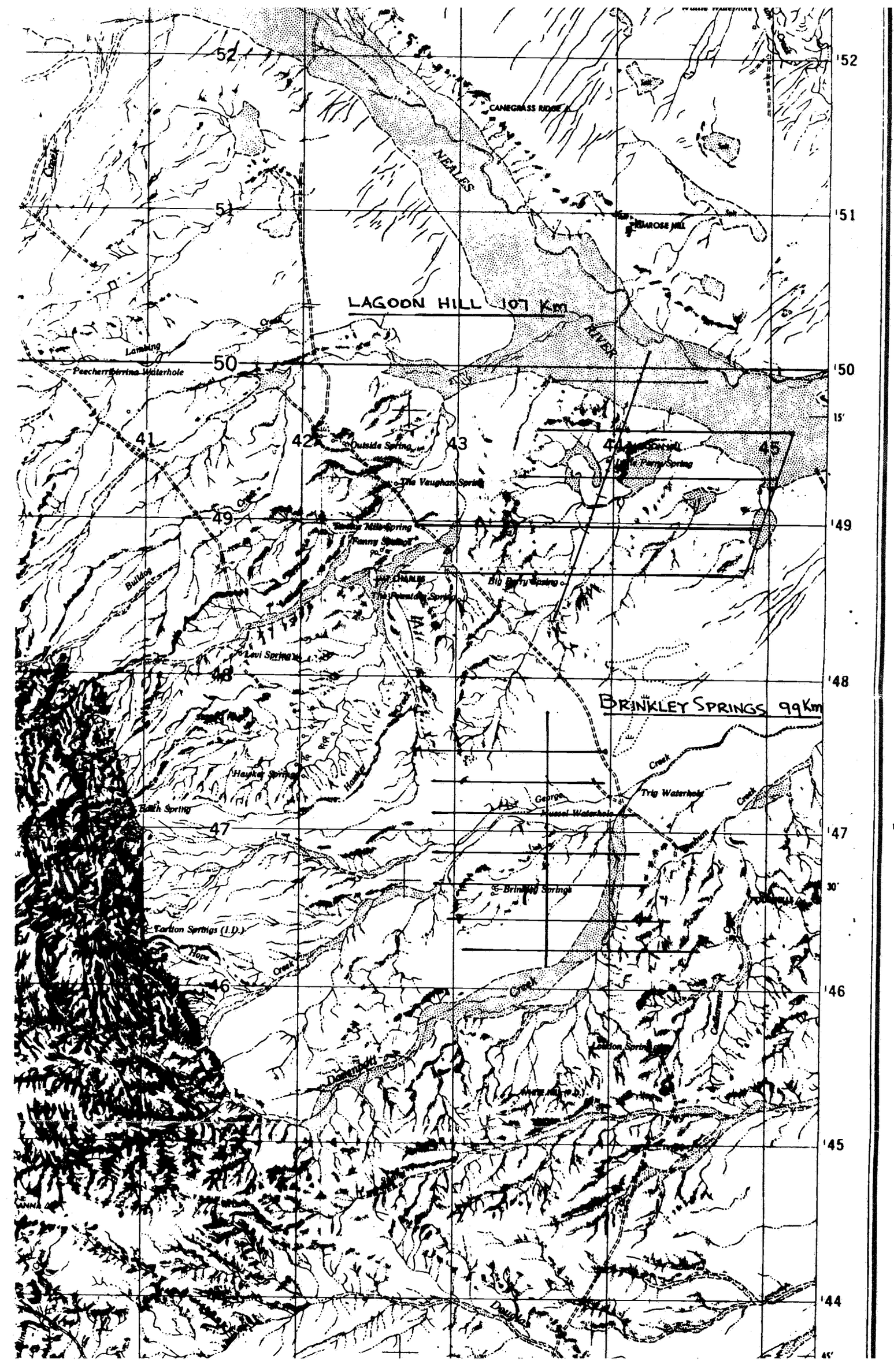
Access:

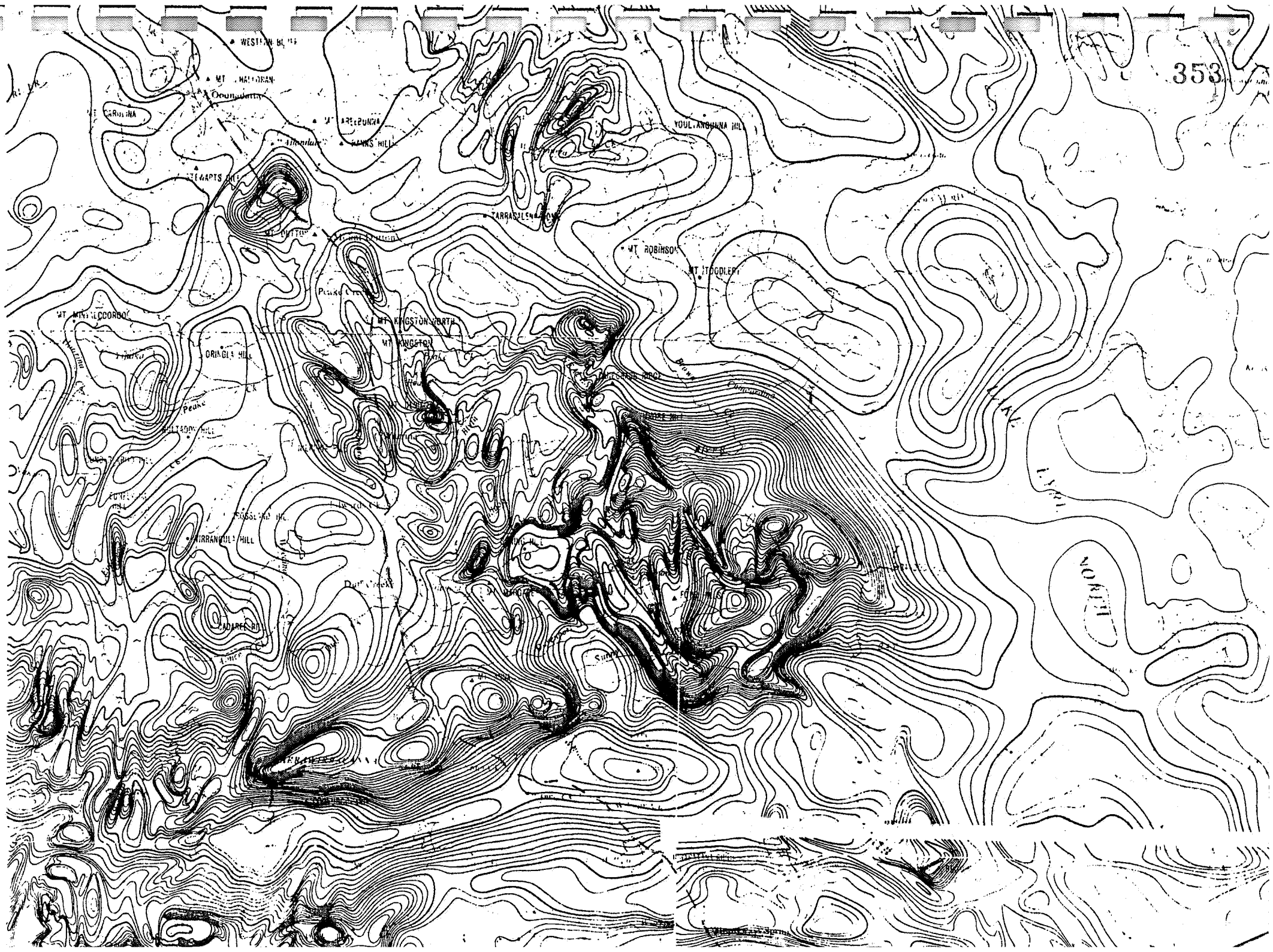
Access to grid area is by station tracks from William Creek as described in the notes. However, sandy creek crossings may not be easily negotiated by heavy drill trucks unless some preparation of the track is made.

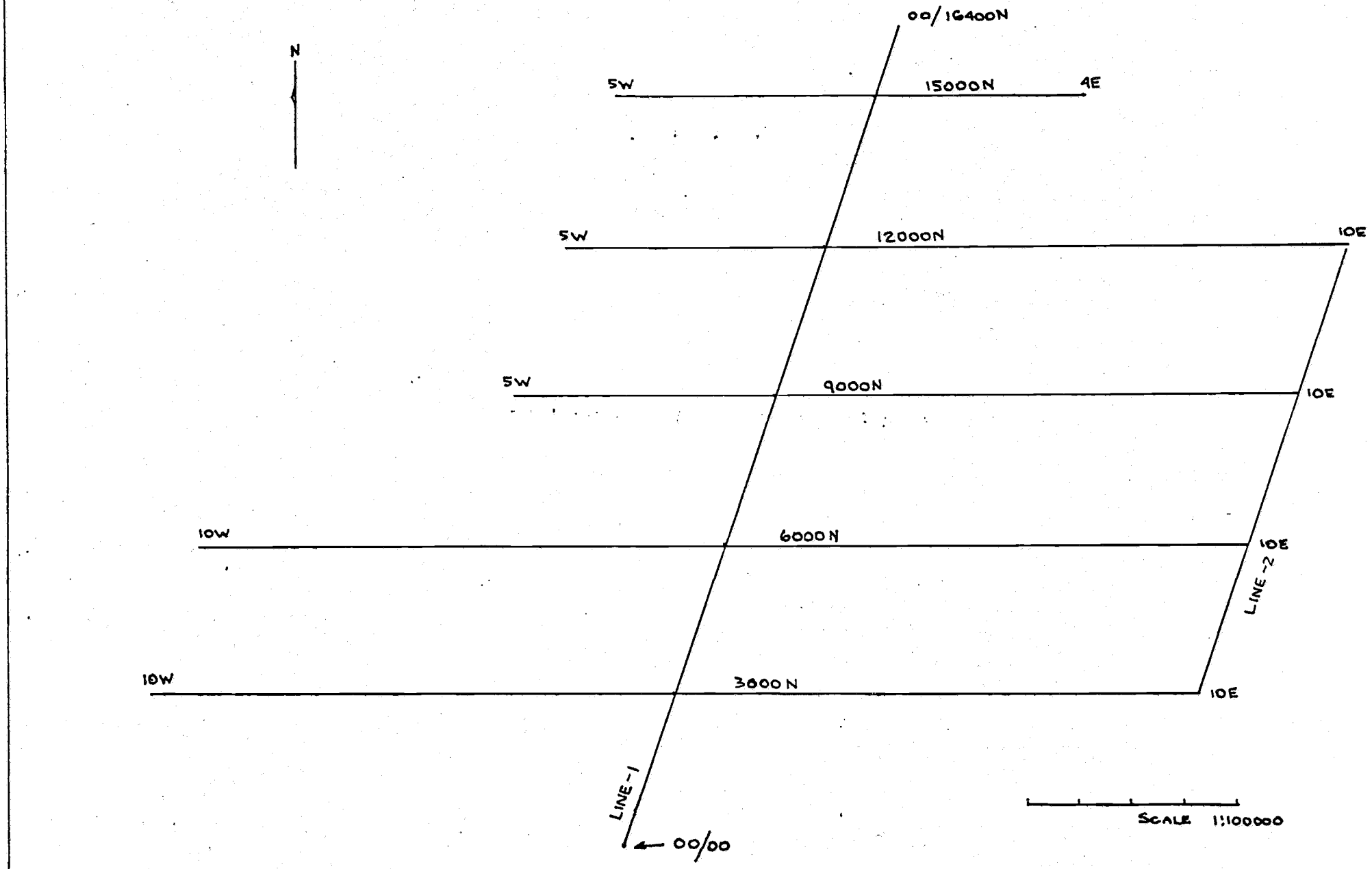
Grid access across country is more difficult as there are numerous small creeks and very soft surface soils to negotiate. Heavy vehicles would bog in this soil and grading would not be very successful as there seems to be no bottom to it. If the vegetation supports the topsoil after the rain, access may be better.

Surveyors and Equipment:

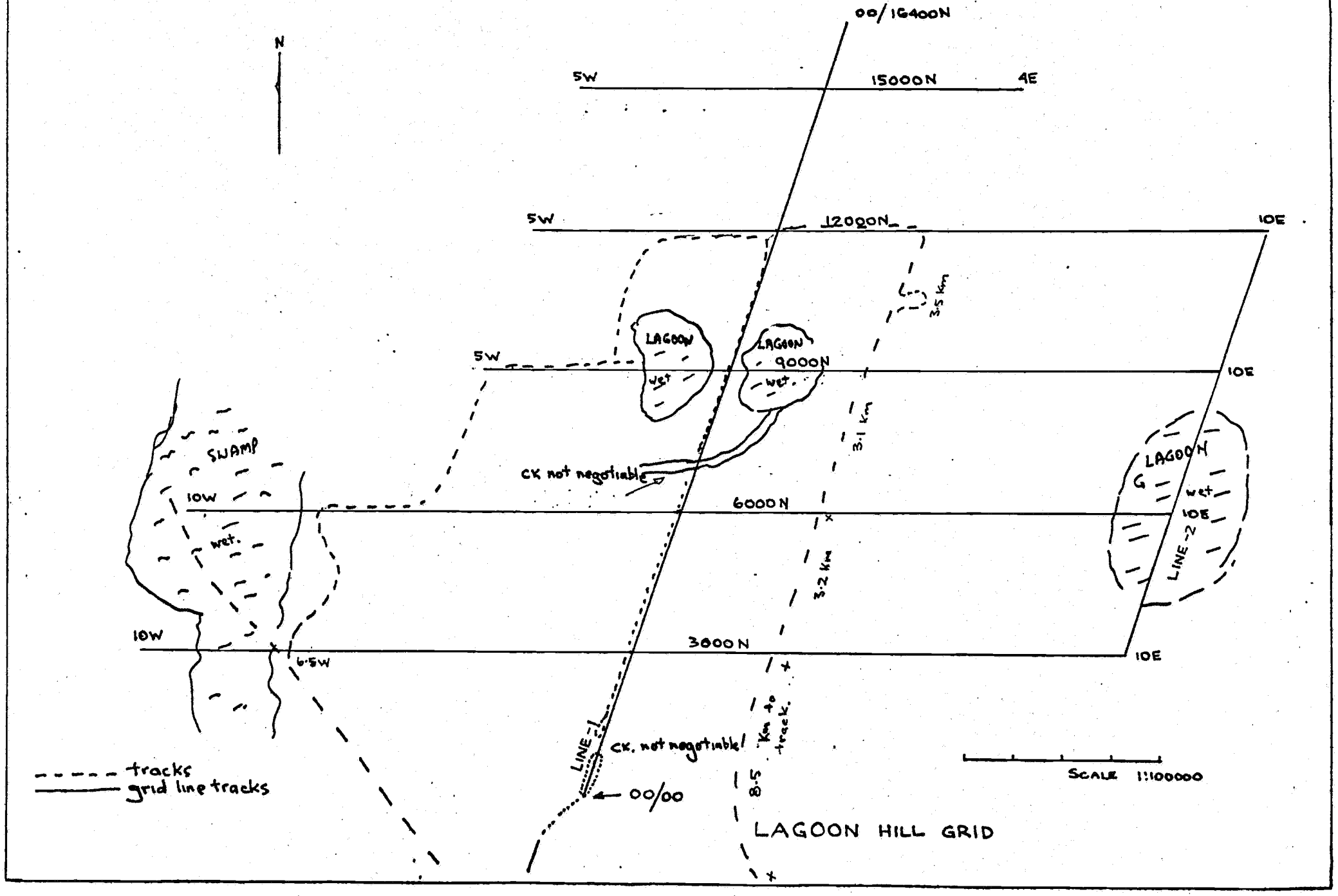
Two crews operated in the grid area. Personnel were Brian Rau, Charles Collogan, Phillip Rundle and John Gowland. Two Nissan Patrol four-wheel drive vehicles were used. Tents, camping equipment, lighting generator, deep freezers, R.F.D.S. two-way radio, water and food were necessary to support the crew in this isolated area. Two La Coste and Romberg temperature compensated gravity meters, No. G35 and No. G505 were used. Two precision automatic Sokkisha B-1 levels were used and staffs for optical levels.

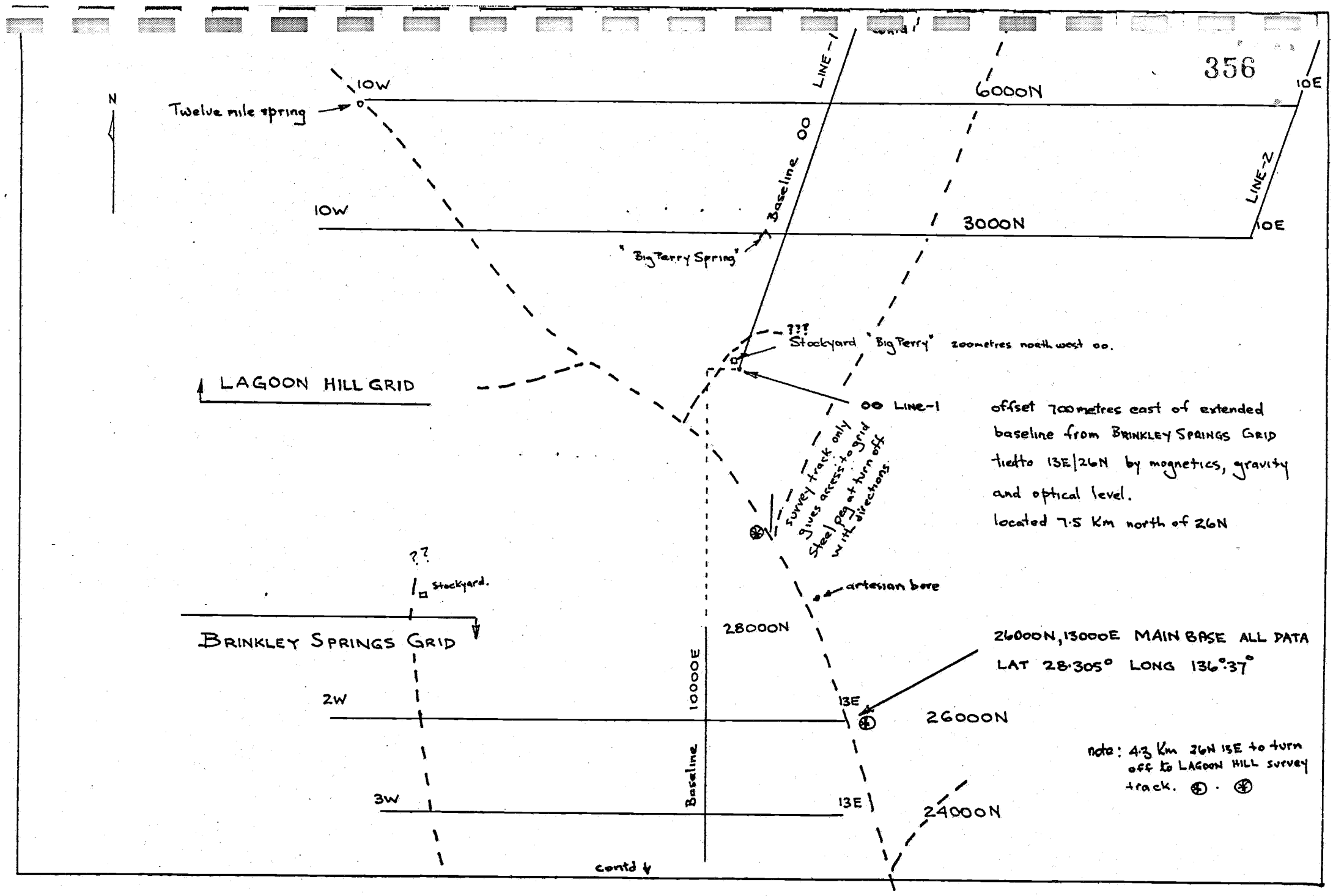

CANEGRASS RIDGE
NEALES
ROSEMARY HILL
LAGOON HILL 107 Km
RIVER
Lambing
Peecherrpirrima Waterhole
Outside Spring
The Vaughan Spring
Bulldog
Levi Spring
BRINKLEY SPRINGS 99Km
Hayden Spring
Bath Spring
Trig Waterhole
Brinkley Springs
Carlton Springs (I.D.)
Hope
Creek
52
51
50
49
48
47
46
45
44
41
42
43
'52
'51
'50
'49
'48
'47
'46
'45
'44


WESTERN BLUFF
MT HALLORAN
CAROLINA
ARTEPUNA
HANNS HILL
YOULANGUNA HILL
TARRALEAH
MT DUTTON
MT ROBINSON
MT TOOGLEY
MT KINGSTON NORTH
MT KINGSTON
ORIABLA HILL
Peuke
KARRANGULA HILL
ADAREE RIVER
Dunalley
Sorell



LAGOON HILL GRID


00/16400N
N
5W
15000N
4E
5W
12000N
10E
5W
9000N
10E
LAGOON
wet
LAGOON
wet
3.5 km
3.1 km
SWAMP
10W
wet.
CK not negotiable
6000N
LAGOON
wet
10E
LINE-2
10W
3000N
10E
6.5W
3.2 km
LINE-1
CK. not negotiable
Km 4.0 track.
8.5
00/00
tracks
grid line tracks
SCALE 1:100000
LAGOON HILL GRID


N
10W
Twelve mile spring
LINE-1
6000N
10E
Baseline 00
LINE-2
10W
3000N
10E
"Big Perry Spring"
??? Stockyard "Big Perry" 200metres north west 00.
LAGOON HILL GRID
00 LINE-1
offset 700metres east of extended baseline from BRINKLEY SPRINGS GRID tiedto 13E|26N by magnetics, gravity and optical level.
located 7.5 Km north of 26N
survey track only gives access to grid
Steel peg at turn off with directions
??
stockyard.
artesian bore
BRINKLEY SPRINGS GRID
28000N
26000N, 13000E MAIN BASE ALL DATA
LAT 28·305° LONG 136°·37°
2W
10000E
13E
26000N
note: 4·3 Km 26N 13E to turn off to LAGOON HILL survey track.
Baseline
3W
13E
24000N
contd

Permanent Steel Grid Pegs:

1. BRINKLEY SPRINGS

On baseline 10000E @ 13N, 14N, 16N, 18N, 20N, 22N, 24N, 26N and 28N.

Around grid at track crossings and end of lines.

26N	@	2W,	13E
24N	@	3W,	13E
22N	@	3W,	15E
20N	@	3W,	15E
18N	@	3W,	16E
16N	@	4W,	17E
14N	@	5W,	18E

2. LAGOON HILL

On baseline line - 1 @ 00, 2N, 3N, 6N, 9N, 12N, 15N, 16.4N

line - 2 @ 3N, 6N, 9N, 12N

Around grid at track crossings and end of lines

3N	@	10W,	10E	6.5W *
6N	@	10W,	10E	
9N	@	5W,	10E	
12N	@	5W,	10E	
15N	@	5W,	14E	

3. Turn off to Lagoon Hill, survey track, 8.5 km to line 3000N on tag.

4. Base Station 26000N 13000E

Rain prevented locating some steel pegs due to hasty departure from the area.

5. All pegs flagged with red and yellow tape and a permanent identity tag is attached.

Main Base Station 26000N 13000E

is datum for all data reductions.

Location: On east side of track;
4 km north from Umbum artesian bore taking left track after George Creek crossing.

Identification: 1 metre high steel picket with plastic dumpy peg located at base and ring of white quartz rocks around gravity datum.

Aluminium labels on picket:	SOLO GEOPHYSICS GRAVITY BASE APRIL, MAY 1979	BRINKLEY SPRINGS GRID E.L. 369	LAGOON HILL GRID E.L. 369

Assumed Elevation: 100.00 metres.

Latitude: 28.305°

Longitude: 136.37°

Magnetics Base Level - wood peg. 57371 nT

See diagrams for location.

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	8.0
Gate (closed)	
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 parallel fence line	21.29
boxer hut, stockyard dam	25.0
small creek	32.5
road junction (take ~~right~~ left 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 ⊛

Continue 2Km across George Ck to steel peg, camp turn off. (take left track over George Ck)

Stop, see next page.

reset dist

Contd. to Naples River 1977 Grid

⊛	take sidetrack to Davenport Ck	53.3 = 0
	artesian bore about 250m north of road, look for birds & cattle & green swamp to locate, easy to miss. see diag of bore.	0
	George Creek	1.6
	road junction, take right hand track,	
note:	track can become very indistinct from now on unless used regularly, follow carefully	2.
	stockyard across creek to left of track & trees. dead cow skeleton on right hand side of track.	10
	steel grid peg	
	base station steel peg	21
	stockyard	23

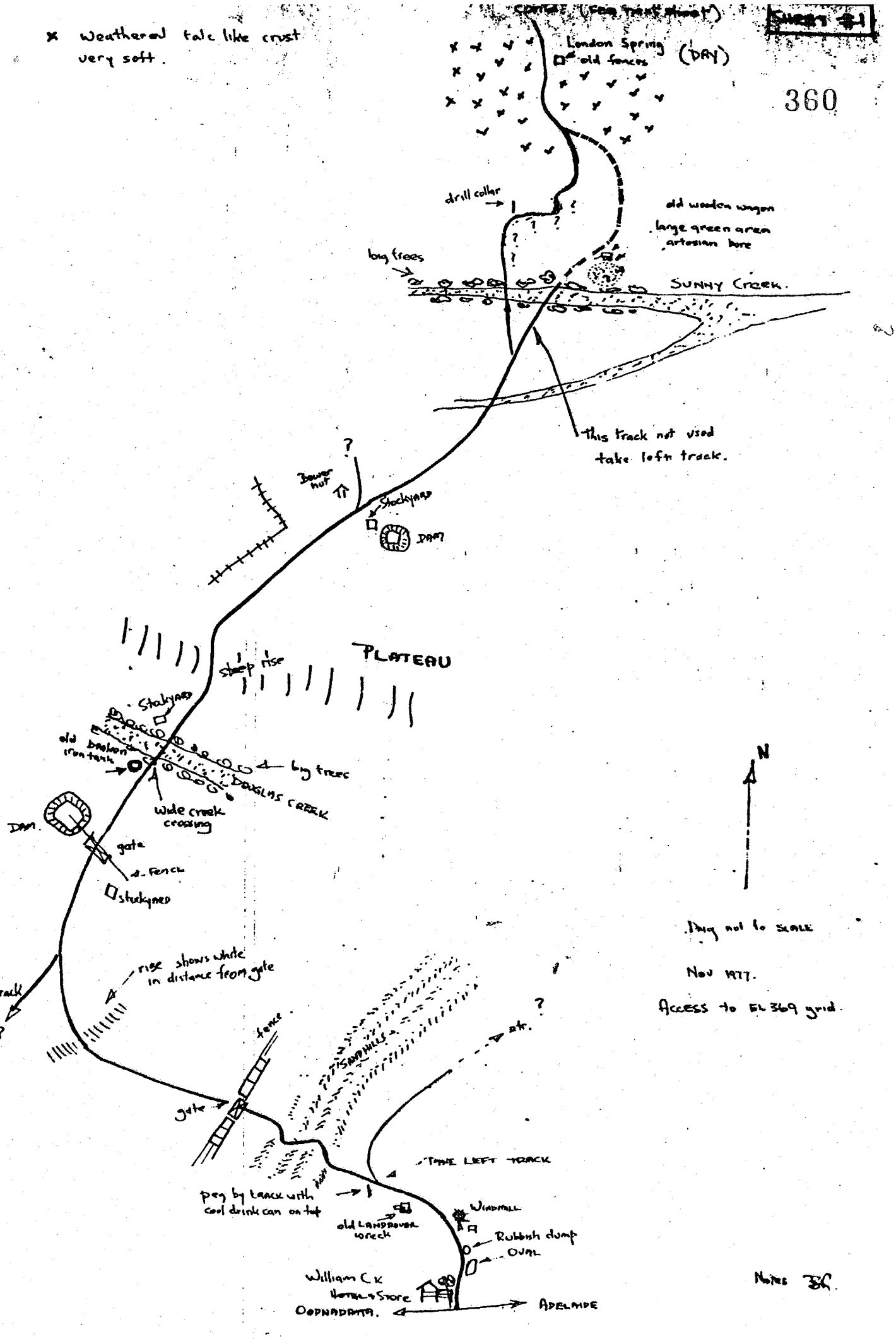
Contd:

Turn off to baseline see wooden peg markers just before stockyard on side of track. Total. 76

across sand hills past artesian bore to old ruin stockyard. (This is our track, may become indistinct without use) see steel peg 800m S.E of old stock yard, follow 1:20000 diag.

Nov 1977 SR.

× Weathered talc like crust very soft.



Notes 36

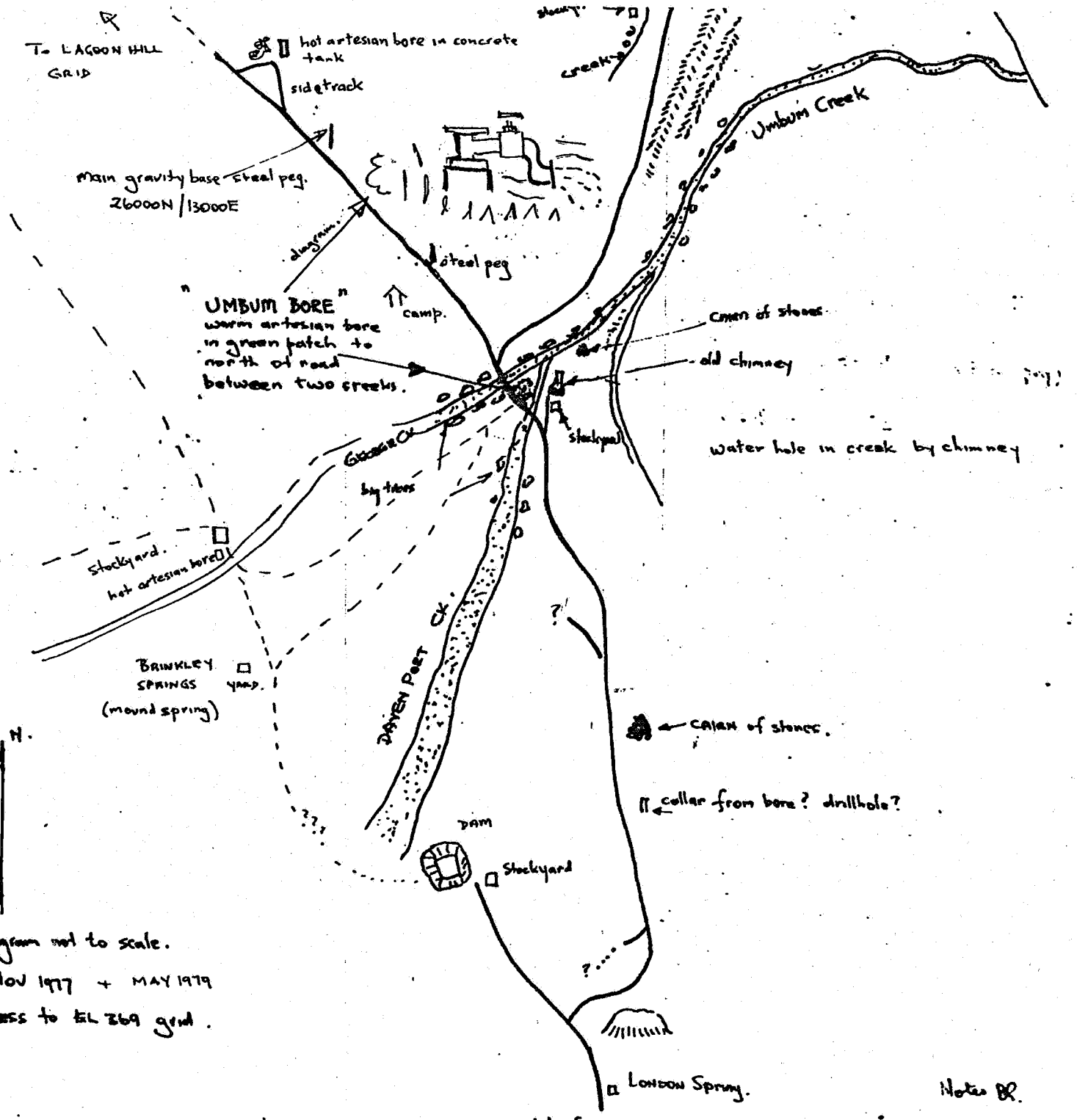


Diagram not to scale.

Nov 1977 + MAY 1979

Cross to EL 369 grid.

Notes BR.

contd: from previous page

FIELD DATA SHEETS FOR MAGNETOMETER SURVEY
USING SCINTREX MP-2 PROTON MAGNETOMETERS
No. 804371 AND 608198

ALL DATA REDUCED TO MAIN BASE 26000N 13000E, LEVEL 57371nT

SOLO GEOPHYSICS AND CO. GROUND MAGNETICS SURVEY.

CLIENT: BHP & CO PTY LTD **AREA:**

LINE: OCAN LAGOON HILL. **DATE:** 27.12.79

OPERATOR: **UNIT NO:** M2 MK2 **LAT:**

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
OCN.	56438	13:55			
BASE STN.	57369	14:19	0	57370	
OCN	56436	14:45		56437	
BASE STN	57367	15:12			

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

CLIENT: The BHP Co. AREA: LAGOON HILL
LINE: 1 BASE LINE DATE:
OPERATOR: Bran. UNIT NO: MP-2/1 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
~~5000~~	56448	10⁰⁹	11	56459	
00					
100	56604	10¹²		56616	
200	56716	10¹⁵		56728	
300	56785	10¹⁹		56798	
400	56856	10²²		56869	
500	56913	10²⁵		56927	
600	56986	10²⁰		57001	
700	57097	1035		57113	small ck.
800	57266	10⁴⁰		57283	
900	57394	1044		57411	
1000	57550	1048		57568	
1100	57732	1053		57751	edge ck.
1200N	57858	1057		57878	edge ck.
1300N	57818	1110		57900	
400	56434	1125			

Note ck very wet & boggy after rain

CLIENT: THE BHP CO LTD. AREA: LAGOON HILL
LINE: 1 Base line DATE: 29/4/79
OPERATOR: CCallaghan. UNIT NO: MP 2/1 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
3000N	59327	10¹⁸	19	59314	
2900	59485	10.23		59473	
2800	59666	10.31		59656	
2700	59696	10.36		59688	
2600	59282	10.41		59275	
2500	58791	10.44		58785	
2400	58538	10.48		58533	
2300	58492	10.52		58488	
2200	58407	10.56		58404	
2100	58229	11.01		58227	
2000	58122	11.06		58122	
1900	58032	11.11		58033	
1800	57927	11.15		57929	
1700	57842	11.19		57845	
1600	57824	11.22		57828	
1500	57844	11.26		57849	
1400	57861	11.28		57866	
1300N	57894	11.31		57900	
3000N	59304	11.46		59314	

CLIENT: The BHP Co LTD. AREA: LAGOON HILL
LINE: 1 BASELINE DATE: 29/9/79
OPERATOR: CC UNIT NO: MP2/1 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
3000N	59311	13³⁴		59314	
3100	59200	13.38		59203	
3200	59097	13.42		59100	
3300	59030	13.46		59032	
3400	59011	13.50		59013	
3500	59047	13.54		59049	
3600	59110	13.57		59112	
3700	59167	14⁰¹		59169	
3800	59245	14.05		59247	
3900	59337	14.09		59339	
4000N	59397	14.20		59398	
41	59290	14.25		59291	
42	59200	14 28		59201	
43	59004	14.31		59005	
44	58777	14.35		58777	
45	58599	14³⁹		58599	
46	58478	14 42		58478	
47	58481	14 45		58481	
48	58620	14.49		58620	
49	58611	14.53		58611	
5000E	58567	14.57		58566	
3000	59315	1508		59314	

cont'd.

CLIENT: THE BHP CO LTD. AREA: LAGOON HILL
LINE: LINE 1 DATE: 29/4/79
OPERATOR: CC UNIT NO: MP 2/1 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
5000N	58569	15.20		58566	
5100	58614	15.23		58611	
5200	58687	15.26		58683	
5300	58567	15.30		58563	
5400	58368	15.33		58364	
5500	58210	15.36		58205	
5600	58125	15.39		58120	
5700	58160	15.43		58154	
5800	58252	15.46		58246	
5900	58273	15.50		58267	
6000N	58469	15.55		58462	
6600	58622	15.58		58615	
6200	58697	16.02		58689	
6300	58659	16.04		58651	
6400	58568	16.07		58560	
6500	58491	16.10		58482	
6600	58475	16.13		58466	
6700	58484	16.16		58475	
6800	58486	16.19		58476	
6900	58450	16.23		58440	

CLIENT: AREA:
LINE: 1 BASE LINE DATE:
OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
7000N	58449	16.27		58438	
8000N	58582	17.14		58566	

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

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

CLIENT: THE BHP CO LTD AREA: LAGOON HILL
LINE: LINE-1 BL DATE: 15-5-79
OPERATOR: CC. UNIT NO: MP2 11 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
9000N	58582	14.27		58569	
8900	58304	14.34		58291	claypan
8800	58118	14.37		58105	
8700	58245	14.40		58232	
8600	58228	14.43		58215	
8500	58336	14.47		58323	
8400	58268	14.51		58255	
8300	58251	14.55		58238	
8200	58283	15.00		58269	"
8100	58232	15.03		58218	MISSED RDG
8000N	58340	15.07		58326	"
7900	58585	15.11		58571	SANDHILLS
7800	58272	15.21		58258	claypan
7600	58326	15.25		58312	Sandhills
7576 00	58390	15.31		58376	Claypan
7475 00	58427	15.35		58413	Sandhill
7374 00	58397	15.40		58387	
7273 00	58387	15.45		58373	EDGE Claypan
7172 00	58430	15.49		58416	Claypan
7071 00	58451	15.53		58437	EDGE Claypan

CLIENT: AREA:
LINE: LINE 1 RL DATE:
OPERATOR: CCallaghan UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
7000N					
7800N	58284	16.07		58269	
9000N	58584	16.22		58569	

SOLO GEOPHYSICS AND CO. GROUND MAGNETICS SURVEY.

CLIENT: BHP Hill Pty Ltd AREA: LAGOON HILL
LINE: DATE:
OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
10000 N	58391	13:08		58390	
99	58583	13:13		58582	
98	58855	13:17		58855	
97	~~58784~~	13:26			N.R. 57K-60K ?
96	58291	13:30		58292	
9500N	58055	13:35		58057	
94	58215	13:41		58217	
93	58233	13:46		58236	
92	58319	13:51		58322	
91	58575	13:56		58579	
A 9000 N	58570	14:00		58574	
Δ 1000N	58335	14:10		58390	

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

CLIENT: BHP GCO PTY LTD AREA: LAGOON HILL

LINE: Line 1 DATE: 11/5/79

OPERATOR: BR UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
Δ 12000N	61821	11 19		61821	
119	61593	11 46		61594	
118	61557	11 50		61559	
117	61546	11 54		61548	
116	61764	11 58		61766	
115	62707	12 03		62709	below b'away.
114	63385	12 07		63385	
43	63069	12 13		63072	
112	61770	12 17		61773	above b'away
14	59849	12 23		59852	
11000N	58066	12 29		58070	
	57368	12 33		57372	side Lagoon Hill.
	57724	12 38		57728	
	57788	12 44		57792	
	57953	12 49		57958	
	57749	12 53		57754	
	57867	12 59		57872	
	57895	13 04		57900	
	57970	13 09		57976	
	58172	13 15		58178	
10000N	58390	13 20		58396	
Δ 12000N	61814	1333		61821	

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

CLIENT: THE BHP CO LTD AREA: Lagoon Hill

LINE: 1 BK DATE: 19/03/79

OPERATOR: Y - RUNGE UNIT NO: 2 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
15000 N	58759	15.36		58768	Δ
149	58744	5.42		58806	
148	58865	15.46		58871	
147	58934	5.50		58939	
146	58993	15.54		58997	
14500N	59034	15.57		59038	
Δ 144	59042	16.02		59044	
143	59034	16.10		59034	
14000N	59013	16.13		59013	
141	59025	16.17		59024	
Δ 140000N	59047	16.20		59045	
Δ 13500N	58772	16.27		58768	

CLIENT: THE BHP CO LTD AREA: LAGOON HILL

LINE: 1 BASE LINE DATE: 19-5-79.

OPERATOR: R.R UNIT NO: MP-2 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
Δ 15000	58785	10.49		58768	
164	58527	11.05		58512	
163	58628	11.14		58614	
162	58678	11.19		58664	
161	58675	11.25		58662	
16000	58642	11.30		58630	
159	58603	11.35		58591	
158	58568	11.40		58557	
157	58552	11.45		58541	
156	58554	11.51		58544	
155	58553	11.56		58543	
154	58567	12.03		58558	
153	58595	12.07		58587	
152	58655	12.12		58647	
151	58705	12.17		58698	
Δ 15000	58775	12.20		58768	

CLIENT: AREA:

LINE: DATE:

OPERATOR: UNIT NO: LAT:

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

CLIENT: THE BHP Co PTY AREA: Lagoon Hill

LINE: DATE: 19/5/79.

OPERATOR: C.C. UNIT NO: #2. LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
Δ 12000N	61831	9:51		61821	
121	61573	10:01		61564	
122	61364	10:05		61356	
123	61085	10:09		61077	
124	60768	10:13		60761	
125	60451	10:18		60444	
126	60156	10:22		60150	
127	59897	10:26		59891	
128	59664	10:29		59659	
129	59456	10:33		59451	
13000N	59256	10:36		59252	
131	59087	10:40		59083	
132	58932	10:44		58929	
133	58788	10:47		58785	
134	58703	10:51		58700	
135	58695	10:55		58693	
136	58801	10:58		58799	
137	58919	11:02		58918	
138	59011	11:06		59010	

CLIENT: AREA:

LINE: DATE:

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
139	59057	11:10		59057	
14000N	59056	11:15		59056	
Δ 12000N	61820	11:20		61821	

CLIENT: THE BHP Co LTD AREA: Logan 1411
LINE: 2 DATE: 16/5/79
OPERATOR: C Callaghan UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
3000N	58022	10.25		57991	
31	58020	10.31		57989	
32	58025	10.35		57995	
33	58033	10.36		58003	
34	58040	10.40		58010	100 RL
35	58055	10.43		58026	
36	58086	10.47		58057	
37	58113	10.50		58084	
38	58134	10.54		58106	
39	58152	10.58		58124	
4200N	58154	11.02		58121	
3000N	58018	11.09		57991	
5000N	58226	11.21		58172	
5700	58147	12.09		58096	
5600	58135	12.17		58086	
55	58123	12.22		58074	Clayton
54	58125	12.26		58077	
53	58127	12.30		58079	

CLIENT: THE BHP Co LTD AREA:
LINE: 2 DATE: 16/5/79
OPERATOR: CC UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
52	58150	12.33		58102	
51	58186	12.37		58138	
5000	58219	12.43		58172	
					Clayton
6000	58183	13.01		58138	
6700N	58232	13.10		58187	

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

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

SOLO GEOPHYSICS AND CO. GROUND MAGNETICS SURVEY.

CLIENT: BHP & CO (PTY) LTD AREA: LAGOON HILL
LINE: LINE-2 DATE: 16-5-79
OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
5700N	58156	11^{07}		58096	
58	58157	11^{11}		58097	
59	58165	11^{16}		58105	
60	58179	11^{21}		58120	
61	58195	11^{26}		58136	
62	58221	11^{30}		58162	
63	58244	1135		58185	
64	58256	1138		58197	
65	58256	1148		58198	
66	58247	11^{52}		58189	
6700N	58237	11^{57}		58179	↵ Baseline 5700N
69	58212	12^{00}		58154	
69	58210	12^{04}		58152	
7000N	58210	12^{08}		58152	
7000N	58207	13^{31}		58151	
7100N	58220	13^{28}		58164	
72	58230	13^{24}		58174	

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

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
73	58256	1321		58200	
74	58293	1318		58237	
75	58342	1314		58286	
76	58393	1310		58336	
77	58437	1307		58380	
78	58478	1304		58421	
79	58504	1300		58447	
80	58511	1257		58454	
81	58511	1254		58454	
82	58487	1250		58430	
83	58453	1247		58396	
84	58425	1244		58368	
85	58373	1239		58316	
86	58355	1224		58298	
	58256	↵			
6700N	58235	1335		58179	

CLIENT: AREA:
LINE: LINE-2 DATE:
OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
8600N	58363	14^{09}		58298	△
87	58327	1415		58261	
88	58289	1417		58223	
89	58250	14^{22}		58184	
9000	58202	1428		58135	
91	58157	1432		58090	
92	58115	14^{26}		58048	
8600N	58366	1443		58298	△
9300N	58076	1456		58007	
12000N	58040	1527		57969	
119	58064	15^{31}		57993	
118	58055	15^{40}		57983	
117	58056	15^{43}		57984	
116	58056	15^{46}		57984	
115	58061	15^{50}		57986	
114	58060	15^{54}		57987	
113	58068	15^{48}		57995	
112	58082	16^{02}		58008	
111	58087	16^{05}		58013	

COWATO

CLIENT: BHP HO PTY LTD AREA: LAGOON HILL

LINE: LINE-2 cont'd DATE: 16-5-79

OPERATOR: BR UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
111					
11080	58112	16^{10}		58038	
09	58129	16^{16}		58054	
08	58175	16^{20}		58100	
07	58177	16^{23}		58102	
06	58187	16^{27}		58112	
05	58187	16^{30}		58111	
04	58163	16^{34}		58087	
03	58125	1637		58049	
02	58081	1640		58005	
01	58061	16^{45}		57984	
10000N	58031	16^{48}		57954	
99	58009	16^{52}		57932	
98	57996	16^{55}		57919	
97	57992	16^{59}		57914	
96	58013	1702		57935	
95	58024	17^{05}		57946	
94	58057	17^{09}		57979	
93	58069	17^{11}		57990	
8600	58317	17^{18}		58298	

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

CLIENT: THE BHP Co LTD AREA: Lagoon Hill

LINE: 30000N DATE: 29/4/79

OPERATOR: C Collagan UNIT NO: BMP 8/1 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
30000N 00E	59304	11.46		59314	
100 E	59398	11.52		59408	
200	59551	11.56		59561	
300	59685	12.00		59695	
400	59886	12.03		59896	Slow RAIN
500	59715	12.07		59725	"
600	59519	12.10		59528	"
700	59290	12.14		59299	"
800	59158	12.18		59167	"
900	58879	12.21		58888	CREEK N/S
1000E	58704	1226		58713	"
1100					"
1200					"
1300E					↓
00	59305	R.32		59314	

RAIN

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

CLIENT: Tyler & Hall Co (Tyler) AREA: Lancaster Hill

LINE: 3000 N DATE: 14/5/74

OPERATOR: C Gallagher UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
3000E	57447	10.22		57406	
2900	57484	10.31		57443	
2800	57526	10.35		57485	
2700	57558	10.40		57517	
2600	57568	10.44		57527	
2500	57585	10.47		57544	
2400	57583	10.51		57542	
2300	57562	10.55		57521	
2200	57586	10.59		57545	CRK
2100	57602	11.05		57561	CRK
2000	57665	11.09		57624	
1900	57779	11.13		57739	
1800	57886	11.17		57846	
1700	57803	11.21		57963	
1600	58107	11.25		58067	
1500	58194	11.29		58154	
1400	58295	11.33		58255	
1300	58411	11.38		58371	
1200	58517	11.42		58477	
1100	58603	11.46		58563	

CLIENT: AREA:

LINE: DATE:

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
10000E	58724	11.50		58714	
30000E	57446	12.01		57406	

CLIENT: AREA:

LINE: DATE:

OPERATOR: UNIT NO: LAT:

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

CLIENT: THE BHP Co LTD AREA: Lagoon Hill
LINE: Secret DATE: 14/5/79
OPERATOR: CC UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
3000E	57446	12.01		57406	
31	57402	12.06		57362	
32	57375	12.10		57335	
33	57331	12.14		57291	
34	57293	12.17		57253	
35	57284	12.22		57244	
36	57295	12.26		57255	
37	57323	12.30		57283	
38	57371	12.34		57331	
39	57432	12.38		57392	
4000	57513	12.42		57473	
41	57573	12.46		57535	
42	57607	12.49		57567	
43	57594	12.53		57555	
44	57576	12.58		57531	
45	57553	13.02		57514	
46	57563	13.05		57524	
47	57602	13.11		57563	
48	57642	13.15		57603	
49	57688	13.20		57649	

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

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
Secr.	57749	13.27		57710	
Secr.	57447	13.38	57406		

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

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

CLIENT: BHP&CO PTY LTD AREA: Lagoon Hill
LINE: 3000N DATE: 14/05/79.
OPERATOR: P.C.R. UNIT NO: 2 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
Δ 5000E	57760	10:27			Base 57710
51	57789	10:31			57739
52	57797	10:34			57747
53	57777	10:37			57728
54	57738	10:42			57689
5500E	57699	10:45			57650
56	57678	10:50			57630
57	57680	10:56			57632
58	57704	11:00			57656
59	57742	11:04			57694
6000E	57789	11:08			57742
61	57836	11:12			57789
62	57878	11:15			57831
63	57906	11:18			57859
64	57933	11:21			57887
6500E	57949	11:24			57903
66	57969	11:28			57923
67	57986	11:31			57940
68	58005	11:35			57960

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

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
69	58022	11:38			57977
7000E	58031	11:41			57986
71	58025	11:44			57980
72	58024	11:47		57974	
73	58024	11:50		57980	
74	58031	11:53		57987	
7500E	58038	11:57		57994	
76	58036	12:00		57992	Base
Δ 5000E	57753	12:12		57710	Base

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

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

CLIENT: BHP+O PTY LTD AREA: Lagoon H:11
LINE: 3000:11 DATE: 14/05/79
OPERATOR: P.C RUNDLE UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
Δ7600E	58034	12:28		57992	
Δ7600E	58031	12:51		57991	
77	58015	12:55		57975	
78	58002	12:59		57962	
79	57996	13:02		57957	
8000E	57994	13:06		57955	
81	57994	13:10		57955	
82	58000	13:14		57961	
83	58014	13:17		57976	
84	58043	13:23		58005	
8500E	58075	13:25		58037	
86	58113	13:30		58076	
87	58146	13:34		58109	
88	58196	13:37		58159	
89	58223	13:40		58186	Tekerive.
9000E	58235	13:45		58199	
91	58242	13:47		58206	
92	58248	13:51		58212	
93	58245	13:54		58209	

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

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
94	58240	13:59		58205	
9500E	58227	14:02		58187	
96	58188	14:05		58153	
97	58145	14:08		58110	
98	58103	14:12		58069	
99	58061	14:15		58027	
10000E	58025	14:19		57991	
Δ 7600E	58024	14:42		57992	

CLIENT: AREA:
LINE: 2 DATE:
OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
Δ5000N	58228	15:07		58172	
49	58249	15:15		58192	
48	58251	15:20		58194	
47	58250	15:25		58192	
46	58249	15:30		58190	
N	58240	15:37		58181	
44N	58223	15:42		58163	
43	58205	15:47		58145	
42	58191	15:52		58130	
41	58185	15:57		58123	
Δ 4000N	58193	16:03		58121	
Δ 5000N	58235	16:10		58172	

SOLO GEOPHYSICS AND CO. GROUND MAGNETICS SURVEY.

CLIENT: Otter Pole Proj LTD AREA: Lagoon Hill
LINE: 3000 N DATE: 29/04/79
OPERATOR: UNIT NO: #2 MP-2 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
00W	59309	10:44		59314	
100	59365	10:54		59370	
200	59542	10:57		59547	
300	59740	11:01		59745	
400	59901	11:04		59906	
500	60054	11:07		60059	
600	60202	11:11		60207	
700	60341	11:15		60346	
800	60546	11:19		60551	
900	60734	11:23		60739	
1000W	60952	11:28		60997	
1100	61262	11:32		61267	
1200	61552	11:37		61557	
1300	61799	11:41		61804	
1400	62005	11:45		62010	
1500	62050	11:49		62055	
1600	61628	11:53		61634	
1700	60834	11:56		60840	
1800	60210	12:00		60216	
1900	59812	12:03		59818	
2000W	59540	12:07		59546	

CLIENT: AREA:
LINE: 3000N DATE: 29/04/79
OPERATOR: UNIT NO: #2 MP-2 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
2100	59344	12:12		59350	
2200	59240	12:15		59246	
2300	59253	12:18		59259	
2400	59324	12:22		59330	
2500	59341	12:25		59347	
2600	59098	12:30		59104	
2700	58895	12:34		58901	
2800	58794	12:38		58800	
2900	58585	12:42		58591	
3000W	58432	12:45		58438	
00W	59308	12:59		59314	
3000W	58434	13:12		58440	

CLIENT: AREA:
LINE: 3000 N DATE: 29/04/79
OPERATOR: UNIT NO: #2 MP-2 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
3000	58434	13:12		58440	
3100	58301	13:33		58308	
3200	58230	13:37		58237	
3300	58137	13:41		58144	
3400	58053	13:45		58060	
3500	57958	13:49		57965	
3600	57869	13:53		57876	
3700	57785	13:57		57793	
3800	57730	14:01		57738	
3900	57686	14:04		57694	
4000	57642	14:08		57650	
4100	57598	14:13		57606	
4200	57555	14:17		57563	
4300	57503	14:21		57511	
4400	57454	14:25		57463	
4500	57414	14:28		57423	
4600	57404	14:32		57413	
4700	57399	14:35		57408	
4800	57397	14:38		57406	
4900	57332	14:41		57391	
5000W	57355	14:45		57364	

SOLO GEOPHYSICS AND CO. GROUND MAGNETICS SURVEY.

CLIENT: BHP & CO PTY LTD AREA: LYNDON HILLS
LINE: 3000 N DATE: 29/04/79
OPERATOR: UNIT NO: #2 MP-2 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
5800	57315	14:49		57324	
5200	57297	14:53		57307	
5300	57280	14:58		57290	
5400	57268	15:01		57278	
5500	57260	15:04		57270	
5600	57252	15:08		57262	
5700	57248	15:12		57258	
5800	57244	15:15		57254	
5900	57241	15:20		57251	
6000	57240	15:24		57251	
3000	58429	15:36		58440	
6000	57247	15:50		57258	

CLIENT: AREA:
LINE: 3000 N DATE: 29/04/79
OPERATOR: UNIT NO: #2 MP-2 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
6000	57247	15:50		57251	
6100	57253	15:53		57257	
6200	57256	15:58		57259	
6300	57261	16:01		57264	
6400	57265	16:04		57267	
6500	57270	16:08		57272	
6600	57276	16:12		57277	
6700	57282	16:15		57283	
6800	57284	16:18		57294	
6900	57307	16:25		57306	
7000	57311	16:28		57310	
7100	57319	16:30		57318	
7200	57319	16:32		57317	
7300	57320	16:34		57318	
7400	57320	16:36		57318	
7500	57326	16:38		57324	
7600	57327	16:40		57324	
7700	57328	16:42		57325	
7800	57327	16:44		57324	
7900	57323	16:46		57320	
8000 W	57320	16:48		57316	

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

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
6000	57261	17:36		57251	

SOLO GEOPHYSICS AND CO. GROUND MAGNETICS SURVEY.

CLIENT: BHP KCO PTY LTD AREA: 29000N HILL

LINE: 30000N DATE: 21/04/79

OPERATOR: UNIT NO: #2 MP-2 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
8000N	57325	15:36		57316	
8100	57325	15:45		57316	
8200	57319	15:47		57310	
8300	57313	15:53		57304	
8400	57303	16:02		57293	
8500	57295	16:06		57285	
8600	57284	16:09		57274	
8700	57275	16:12		57265	
8800	57263	16:15		57253	
8900	57252	16:18		57242	
9000	57239	16:22		57224	
9100	57197	16:25		57187	
9200	57188	16:29		57168	
9300	57144	16:32		57134	
9400	57119	16:36		57108	
9500	57099	16:39		57088	
9600	57053	16:41		57042	
9700	56993	16 41		56982	
9800	56944	16:45		56933	
9900	56918	16:48		56907	
W 10000	56879	16:51		56868	

CLIENT: AREA:

LINE: 3000 N DATE: 21/04/79.

OPERATOR: UNIT NO: #2 MP-2 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
E000	57327	16:55		57316	

CLIENT: AREA:

LINE: DATE:

OPERATOR: UNIT NO: LAT:

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

SOLO GEOPHYSICS AND CO. GROUND MAGNETICS SURVEY.

CLIENT: BHP & CO PTY LTD AREA: LYBOON HILL
LINE: 6900 N DATE: 30/04/79.
OPERATOR: UNIT NO: #2 MP-2 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
00E	58465	16:06		58462	
100	58618	16:25		58615	
200	58721	16:12		58718	
300	58695	16:14		58691	
400	58695	16:17		58691	
500	58738	16:20		58734	
600	58634	16:23		58630	
700	58584	16:26		58579	
800	58511	16:29		58507	
900	58451	16:33		58446	
1000	58407	16:37		58402	
1100	58373	16:40		58367	
1200	58364	16:44		58358	
1300	58367	16:48		58361	
1400	58367	16:55		58360	
1500	58362	16:57		58355	
1600	58368	16:59		58361	
1700	58388	17:02		58381	
00	58470	17:10		58462	

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

CLIENT: BHP COPPER LTD AREA: LAGOON HILL

LINE: 6000N DATE: 7/05/79

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

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
Δ4000E	58760	1308		58768	
39	58759	13'15		58767	
38	58709	13:19		58717	
37	58612	13:24		58620	
36	58517	13:28		58524	
3500E	58454	13'33		58461	
34	58428	13:37		58435	
33	58442	13'43		58449	
32	58480	13:48		58487	
31	58523	13'53		58530	
3000E	58533	13:58		58540	
29	58516	14'04		58522	
28	58489	14:09		58495	
27	58471	14'14		58477	
26	58461	14'26		58467	
2500E	58463	14'30		58469	
24	58472	14'35		58477	
23	58479	14'41		58484	
22	58478	14'46		58483	
21	58470	14'52		58475	
2000E	58455	14'57		58460	

CLIENT: AREA:

LINE: DATE:

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
19	58433	1502		58438	
18	58402	1507		58407	
Δ1700E	58373	1512		58377	
Δ4000E	58764	15'24		58768	

CLIENT: AREA:

LINE: DATE:

OPERATOR: UNIT NO: LAT:

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

CLIENT: BHP 000 PTY LTD AREA: LAGOON HILL

LINE: 6000 N DATE: 7/05/79

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

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
Δ 6000 E	58269	10:42		58256	5825
5900 E	58246	10:43		58235	
58	58236	10:48		58226	
57	58241	10:54		58232	
56	58257	10:59		58249	
5500 E	58273	11:05		58265	
54	58276	11:10		58260	
53	58252	11:15		58245	
52	58202	11:20		58196	
51	58161	11:24		58156	
5000 E	58155	11:29		58150	
	58191	11:42		58188	
	58266	11:47		58264	
	58386	11:52		58384	
	58534	11:57		58533	
	58652	12:02		58652	
	58709	12:08		58709	
	58715	12:12		58716	
	58723	12:17		58725	
	58741	12:22		58743	

CLIENT: AREA:

LINE: DATE:

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
Δ 4000 E	58765	12:27		58782	
Δ 6000 E	58252	12:35		58256	
Δ 4000 E	58760	1308			

CLIENT: AREA:

LINE: DATE:

OPERATOR: UNIT NO: LAT:

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

SOLO GEOPHYSICS AND CO. GROUND MAGNETICS SURVEY.

CLIENT: BHP CO PTY LTD AREA: LAGOON HILL
LINE: 6000 N DATE: 2/5/79.
OPERATOR: UNIT NO: #2 MP-2 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
8000 E	58789	12:30		58821	
8100	58986	12:34		58818	
8200	58765	12:37		58747	
8300	58726	12:40		58757	
8400	58678	12:45		58709	
8500	58636	12:48		58667	
8600	58593	12:51		58624	
8700	58535	12:54		58565	
8800	58480	12:57		58510	
8900	58427	13:01		58457	
9000	58373	13:03		58403	
9100	58346	13:07		58375	
9200	58332	13:10		58361	
9300	58313	13:15		58342	
9400	58289	13:18		58318	
9500	58262	13:21		58290	
9600	58240	13:24		58268	
9700	58219	13:27		58247	
9800	58201	13:29		58230	
9900	58179	13:31		58207	
10000	58161	13:33		58199	

CLIENT: AREA:
LINE: 6000N DATE: 2/5/79
OPERATOR: UNIT NO: #2 MP-2 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
8000	58795	13:54		58821	
6000	58233	14:04		58256	
6100	58259	14:09		58282	
6200	58290	14:12		58313	
6300	58324	14:15		58346	
6400	58357	14:19		58379	
6500	58400	14:22		58422	
6600	58447	14:24		58469	
6700	58497	14:28		58519	
6800	58533	14:32		58554	
6900	58551	14:36		58578	
7000	58568	14:38		58589	
7100	58582	14:42		58603	
7200	58602	14:45		58622	
7300	58630	14:50		58650	
7400	58656	14:53		58676	
7500	58679	14:58		58699	
7600	58701	15:01		58720	
7700	58724	15:04		58743	

CLIENT: AREA:
LINE: 6000 N DATE: 2/5/79.
OPERATOR: UNIT NO: #2 MP-2 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
7800	58757	15:08		58776	
7900	58781	15:12		58806	
8000	58802	15:16		58821	
6000	58238	15:25		58256	

CLIENT: The BHP Co LTD. AREA: Lagoon Hill

LINE: 6000 N. DATE: 21/4/79

OPERATOR: CC UNIT NO: MP 2/1 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
00 W	58479	17.22		58462	
100 W	58439	17.25		58422	
200	58431	17.28		58414	
300	58551	17.31		58533	
400	58805	17.34		58787	
500	58877	17.36		58859	
600	58571	17.39		58553	Top Breakaway
00 W.	58481	17.46		58462	

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

SOLO GEOPHYSICS AND CO. GROUND MAGNETICS SURVEY.

CLIENT: Bltp & Co pty LTD AREA: Lagoon Hill
LINE: 6000 N DATE: 12/05/79
OPERATOR: P.C. RUNDLE UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
Δ 4000 W	58118	14'42		58027	Δ
39	58086	14'47		57994	
38	57960	14'50		57868	
37	57839	14'53		57747	
36	57786	14'58		57693	
3500 W	57800	15'01		57707	
34	57884	15'06		57790	
33	58027	15'08		57933	
32	58237	15'13		58142	
31	58298	15'17		58203	
3000 W	58021	15'20		57925	
29	57743	15'23		57647	
28	57610	15'29		57513	
27	57575	15'34		57478	
26	57609	15'38		57511	
2500 W	57642	15'42		57544	
24	57675	15'45		57576	
23	57745	15'48		57646	
22	57946	15'52		57846	

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

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
21	58176	15'55		58076	
Δ 2000 W	58409	15'58		58309	Δ
19	58644	16'02		58543	
18	58884	16'07		58783	
17	58994	16'11		58892	
16	59171	16'13		59069	
1500 W	59210	16'17		59107	
14	59025	16'20		58922	
13	58780	16'22		58677	
12	58637	16'25		58533	
11	58517	16'28		58413	
1000 W	58448	16'31		58344	
9	58436	16'33		58331	
8	58466	16'36		58361	creek ↓
7	58489	16'38		58384	
Δ 600 W	58568	16'43		58462	
Δ 4000 W	58135	17'01		58027	

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

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

SOLO GEOPHYSICS AND CO. GROUND MAGNETICS SURVEY.

CLIENT: The BHP Co Ltd. AREA: Lagoon Hill
LINE: 6000 N. DATE: 12/5/79
OPERATOR: C Colloghan UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
6000 W					
4000	58120	15.37		58027	
41	58077	15.42		57983	
42	57982	15.46		57886	
43	57888	15.50		57711	
44	57619	15.56		57521	
45	57520	16.00		57421	
46	57487	16.04		57386	
47	57464	16.08		57362	
48	57446	16.12		57343	
49	57438	16.16		57334	
5000	57398	16.23		57292	
4000 W.	58134	16.27		58027	
5000 W.	57404	17.01			

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

CLIENT: BHP Co pty LTD AREA: Lagoon Hill
LINE: 6000 N DATE: 13/05/79
OPERATOR: P.C. RUNDLE UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
7400W	57185	10:15		57079	
73	57199	10 22		57094	
72	57212	10:27		57107	
71	57228	10.31		57123	
7000W	57236	10:34		57131	
69	57240	10:38		57136	
8	57253	10'43		57149	
7	57264	10'47		57160	
6	57276	10:52		57173	
500W	57289	10:59		57186	
4	57306	11:03		57204	
3	57319	11:07		57217	
2	57337	11:12		57235	
1	57353	11:15		57251	
000W	57369	11:20		57268	
9	57379	11'24		57278	
8	57383	11:29		57282	
7	57375	11:33		57275	
6	57357	11:37		57257	
5500W	57331	11'41		57231	

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

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
4	57317	11:44		57248	
3	57309	11:49		57210	
2	57321	11'53		57222	
1	57357	11'58		57259	
Δ5000W	57390	12'03		57292	
Δ 7400W	57176	12'17		57079	

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

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

CLIENT: BHP & CO PTY LTD AREA: LAGOON HILL

LINE: 6000W DATE: 13/5/79

OPERATOR: C Calloggan UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
8[illegible]40	57240	11.14		57133	8400W.
7400W	57189	10.25		57073	57189
10000W	57140	12.28		57037	
9900	57156	12.42		57053	
9800	57170	12.47		57068	
9700	57181	12.51		57079	
9600	57190	12.56		57089	
9500	57202	13.02		57100	
9400	57206	13.04		57104	
9300	57216	13.07		57115	
9200	57217	13.10		57116	
9100	57223	13.14		57122	
9000	57228	13.16		57127	
8900	57229	13.18		57128	
8800	57228	13.20		57127	
8700	57229	13.22		57128	
8600	57233	13.24		57133	
8500	57237	13.26		57137	
8400W	57239	13.29		57139	
8300	57222	13.31		57122	

CLIENT: AREA:

LINE: 6000W DATE: 13/5/79

OPERATOR: CC UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
82	57202	13.33		57102	
81	57193	13.35		57093	
8000	57188	13.38		57088	
79	57185	13.41		57085	
78	57185	13.43		57084	
77	57180	13.45		57081	
76	57175	13.47		57076	
75	57177	13.50		57078	
74	57178	13.52		57079	

CLIENT: AREA:

LINE: DATE:

OPERATOR: UNIT NO: LAT:

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

SOLO GEOPHYSICS AND CO. GROUND MAGNETICS SURVEY.

CLIENT: BHP ECO PTY LTD AREA: LAGOON HILL

LINE: 9000 N DATE: 11/05/79.

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

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
Δ 9000 N 00 E	58572	14.00		58569	
1000 E	58236	15.28		58226	
9	58170	15.33		58160	
8	58243	15.35		58233	
7	58586	15.37		58576	
6	58673	15.38		58663	
0500 E	58766	15.40		58756	
4	59645	15.42		59634	⊛ N.R.
3	58661	15.43		58650	
2	58973	15.45		58962	
1	58893	15.46		58882	
Δ 00 E	58580	15.48		58569	

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

SOLO GEOPHYSICS AND CO. GROUND MAGNETICS SURVEY.

CLIENT: DHP & CU PTY LTD AREA: UDGOON HILL
LINE: 9000N DATE: 11/05/79
OPERATOR: P. C Rundle UNIT NO: LAT:

	STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
Δ	1000E	58231	14:40		58226	
	11	58305	14:47		58299	
	12	58415	14:53		58409	
	13	58390	14:58		58383	
	14	58426	15:04		58419	
	1500E	58470	15:11		58462	
	16	58296	15:13		58258	
Δ	17	58276	15:18		58267	
Δ	1000E	58236	15:28		58226	
Δ	17	58296				

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

CLIENT: BHP EW PTY LTD AREA: Lagoon Hill

LINE: 9000 N DATE: 13/05/79

OPERATOR: P.C RUNDLE UNIT NO: 2 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
Δ 1700 E	58180	15:18		58167	
18	58173	15'32		58159	
19	58206	15:35		5819	
2000 E	58275	15'40		58266	
21	58348	15'44		58332	
22	58403	15'48		58387	
23	58423	15'53		58407	
24	58423	15'57		58406	
2500 E	58414	16'02		58397	
26	58422	16'06		58404	
27	58444	16'11		58426	
28	58474	16.15		58455	
29	58496	16'19		58477	
Δ 3000 E	58507	16:24		58487	
Δ 1700 E	58189	16'48		58167	

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

CLIENT: [illegible] AREA: Lagoon Hill
LINE: 9000 N DATE: 8/5/79
OPERATOR: [illegible] UNIT NO: MP 21 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
36xx	58[illegible]	10.01		58422	Δ
37	58434	10.06		58390	
38	58410	10.10		58366	
39	58394	10.14		58350	
4000	58390	10.18		58346	
41	58401	10.23		58357	
42	58404	10.28		58360	
43	58366	10.32		58322	
44	58309	10.36		58264	
45	58240	10.40		58196	
46	58180	10.45		58136	
47	58146	10.50		58102	
48	58129	10.56		58084	
49	58116	11.01		58072	
5000	58122	11.05		58078	
51	58135	11.11		58091	
52	58172	11.16		58132	
53	58212	11.20		58168	
54	58209	11.25		58195	
55	58234	11.29		58192	

CLIENT: [illegible] AREA: Lagoon Hill
LINE: 9000 N DATE: 8/5/79
OPERATOR: [illegible] UNIT NO: MP 21 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
560	58200	11.35		58162	
5700	58177	11.40		58133	
3xx	58446	11.52		58422	Δ
5700	58179	12.01			Bench
5700	58174	12.19		58133	Δ
58	58162	12.25		58121	
59	58159	12.27		58118	
6000	58168	12.31		58128	
61	58184	12.35		58145	
62	58202	12.39		58163	
63	58218	12.43		58180	
64	58230	12.47		58192	
65	58241	12.52		58204	
66	58252	12.58		58215	
67	58263	13.02		58227	
68	58276	13.07		58240	
69	58289	13.11		58254	

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

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
7000	55303	13.15		58268	
71	58324	13.19		58290	
7700	58318	13.44		58287	
5700	58163	13.57		58133	Δ

CLIENT: The BHP Co Ltd AREA: Cabbon Hill
LINE: 9000N DATE: 9/5/79
OPERATOR: JE UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
8000E	58366	10^{32}		58295	
10000E	58225	11^{40}		58164	
99	58280	11^{45}		58219	
98	58338	11^{52}		58278	
97	58404	11^{55}		58345	
96	58468	12^{00}		58410	
95	58525	12^{03}		58467	
94	58571	12^{07}		58514	
93	58601	12^{12}		58544	
92	58619	12^{15}		58563	
91	58628	12^{19}		58572	
9000E	58628	12^{22}		58573	
89	58618	12^{26}		58563	
88	58597	12^{30}		58543	
87	58566	12^{33}		58512	
86	58526	12^{36}		58473	
85	58485	12^{38}		58432	
84	58442	12^{40}		58389	
83	58412	12^{41}		58359	
82	58387	12^{42}		58335	

CLIENT: The BHP Co Ltd AREA:
LINE: 9000N DATE:
OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
81	58369	12^{44}		58317	
8000E	58347	12^{45}		58295	

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

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
8000E	58345	13^{08}		58295	
79	58342	13^{10}		58292	
78	58336	13^{11}		58286	
77	58351	13^{12}		58288	
76	58345	13^{14}		58296	
75	58354	13^{15}		58305	
74	58359	13^{16}		58310	
73	58359	13^{18}		58310	
72	58345	13^{19}		58296	
71					
7000					
8000E	58340	13^{46}		58295	

CLIENT: BHP & CO PTY LTD AREA: LAGOON 1114
LINE: 9000N DATE: 11/5/79
OPERATOR: BRam. UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
00	58577	1437		58559	
100	58159	1443		58151	
200	58083	1448		58074	
3	58191	1454		58182	
4	58471	1459		58461	
5	58573	1503		58563	
6	58798	1508		59788	dayfan
7	58947	1523		58936	under water
800	58871	1530		58859	-11-
900	58871	1535	58906	58894	
1000	58906	1545	58942	58929	
11	58942	1549	58911	58898	
12	58940	1552	58910	58898	
13	58904	1558		58890	
14	58937	1602		58959	dayfan
15	59091	1606		59076	
1600W	59134	1611		59119	
00	58586	1638		58569	

CLIENT: AREA:
LINE: 9000N DATE: 12/5/79
OPERATOR: BR UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
BASE 1	58110	1040		58086	approx 2700W
1600W	59143	1103		59120	wet
17	58952	1114		58929	dayfan
18	58774	1118		58752	
19	58679	1128		58657	
2000W	58566	1138		58544	
21	58432	1146		58411	
22	58335	1155		58314	
23	58296	1207		58276	
24	58263	1213		58243	
25	58230	1220		58210	
26	58186	1226		58166	
27	58124	1234		58105	
28	58071	1237		58052	
BASE 1	58105	1240		59096	

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

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

SOLO GEOPHYSICS AND CO. GROUND MAGNETICS SURVEY.

CLIENT: THE RAP CO LTD AREA: LAGOON HILL
LINE: 9000W. DATE: 12/5/79.
OPERATOR: C Gallagan UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
BASE 1	58110	13.14		58084	
	~~57995~~				
29	57995	13.25		57972	
3000	57883	13.33		57861	? BADREAD 57
31	57791	13.37	13.37	57770	
32	57706	13.41		57685	
33	57609	13.45		57589	
34	57557	13.50		57537	
35	57459	13.54		57440	
36W	57365	13.58		57346	
37	57354	14.02		57335	
38	57403	14.06		57385	
39	57463	14.10		57465	
4000	57522	14.14		57505	
41	57511	14.18		57494	
42	57475	14.23		57459	
43	57400	14.27		57384	
44	57240	14.31		57225	
45	57037	14.35		57017	
46	56884	14.40		56875	
47	56825	14.44		56811	

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

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
48	56807	14.48		56794	
49	56783	14.52		56770	
5000	56775	14.57		56763	
BASE 1	58097	15.08		58076	

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

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

CLIENT: BHP & CO PTY LTD AREA: Lagoon Hill

LINE: 12000N DATE: 10/05/79

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

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
Δ 1500E	58693	12 39		58707	
14	58796	12'41		58810	
13	58746	12'46		58760	
12	58624	12'51		58638	
11	58559	12:55		58573	
1000 E	58594	1300		58608	
9	58679	13'04		58693	
8	58829	13'09		58843	
7	59095	13'13		59109	
6	59650	13' 18		59664	
0500 E	60935	13:23		60949	
4	63458	13:27		63472	
3	65450	13'32		65464	
2	64849	13:36		64863	
1	63239	13:42		63253	
Δ 00E	61807	13'47		61821	
Δ 1500E	58693	13:58		58707	
Δ 00E	61807	14:07		61821	

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

CLIENT: Bimp NW pty LTD AREA: Lagoon Hill

LINE: 12000N DATE: 10/05/79

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

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
Δ 4000E	58367	10:08		58367	
39	58389	10:14		58390	
38	58406	10:18		58407	
37	58419	10:22		58421	
36	58429	10:26		58431	
3500E	58443	10:30		58446	
34	58463	10:34		58466	Δ
33	58486	10:38		58490	
32	58512	10:42		58517	Δ
31	58533	10:46		58538	
3000E	58544	10:51		58550	
29	58544	10:56		58550	
28	58533	11:00		58540	
27	58522	11:05		58530	
26	58501	11:09		58509	
2500E	58475	11:13		58484	
24	58462	11:17		58471	
23	58459	11:21		58469	
22	58455	11:27		58466	
21	58452	11:30		58463	
2000E	58440	11:35		58452	

CLIENT: AREA:

LINE: DATE:

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
1900E	58427	11:40		58439	
18	58433	11:45		58446	
17	58459	11:50		58473	
16	58545	11:55		58559	
1500E	58692	12:00		58707	
4000E	58357	12:08		58367	
1500E	58690	12:17		58707	

CLIENT: AREA:

LINE: DATE:

OPERATOR: UNIT NO: LAT:

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

SOLO GEOPHYSICS AND CO. GROUND MAGNETICS SURVEY.

CLIENT: BHP Eto PTY LTD AREA: Logan Hill
LINE: 12000 N DATE: 15/05/79
OPERATOR: P C RUNDLE UNIT NO: 2 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
4000E	58366	10:13		58367	
6000E	58219	10:23		58222	
59	58243	10:30		58247	
58	58263	10:34		58267	
57	58285	10:39		58290	
56	58297	10:43		58303	
5500E	58300	10:47		58307	
54	58279	10:54		58287	
53	58258	10:58		58266	
52	58241	11:05		58250	
51	58228	11:10		58238	
5000E	58222	11:15		58233	
49	58210	11:20		58222	
48	58198	11:24		58210	
47	58198	11:29		58211	
46	58204	11:33		58218	
4500E	58218	11:37		58233	
44	58237	11:42		58252	
43	58266	11:46		58282	

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

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
42	58293	11:50		58310	
41	58324	11:53		58341	
4000E	58349	11:58		58367	
6000E	58206	12:08		58222	
61	58182	12:15		58198	
62	58163	12:19		58179	
63	58150	12:23		58166	
64	58144	12:28		58159	
6500E	58142	12:32		58157	
66	58147	12:36		58162	
67	58149	12:40		58164	
68	58159	12:44		58174	
69	58171	12:48		58186	
7000E	58182	12:52		58197	
71	58198	12:58		58213	
72	58216	13:03		58230	
73	58235	13:07		58249	
74	58252	13:12		58266	

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

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
7500E	58270	13:17		58284	
76	58291	13:21		58305	
77	58303	13:25		58317	
78	58317	13:28		58330	
79	58320	13:32		58333	
8000E	58309	13:36		58322	
6000E	58209	13:48		58222	
		"			

SOLO GEOPHYSICS AND CO. - GROUND MAGNETICS SURVEY.

CLIENT: BHP 660 PTY LTD AREA: Lagoon Hill
LINE: 12000N DATE: 15/05/79
OPERATOR: P.C. RUNDLE UNIT NO: 2 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
Δ 9000E	58309	14:01		58322	
81	58291	14:04		58304	
82	58273	14:08		58286	
83	58260	14:13		58273	
84	58247	14:17		58260	
8500E	58243	14:20		58256	
86	58241	14:25		58254	
87	58244	14:29		58257	
88	58238	14:33		58251	
89	58215	14:37		58229	
9000E	58184	14:40		58197	
91	58141	14:43		58154	
92	58096	14:48		58110	
93	58060	14:52		58074	
94	58041	14:55		58055	
9500E	58032	14:59		58046	
96	58029	15:03		58043	
97	58033	15:07		58047	
98	58039	15:10		58053	

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

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
99	58044	15:13		58058	
10000E	58050	15:17		58064	
Δ 10100E	58046	15:21		58060	
Δ 8000E	58308	15:31		58322	

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

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

CLIENT: BHP ECO PTY LTD AREA: Lagoon Hill

LINE: 12000N DATE: 10/05/79

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

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
Δ 00W	61807	14:07		61821	
1	60894	14:19		60907	
2	60364	14:24		60377	
3	60013	14:29		60026	
4	59838	14:35		59851	
0500W	59824	15'41		59836	
6	59740	14'46		59752	
7	59686	14'51		59696	
8	59656	14:56		59668	
9	59634	15'00		59646	
1000 W	59591	15'04		59602	
11	59493	15'11		59504	
12	59396	15'14		59407	
13	59296	15'19		59307	
14	59166	15'23		59177	
1500 W	58988	15'27		58998	
16	58829	15'32		58839	
17	58731	15'36		58741	
18	58651	15'40		58661	

CLIENT: AREA:

LINE: DATE:

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
1900	58586	15'44		58596	
Δ 2000 W	58440	15'48		58450	
Δ 00W	61812	16:00		61821	

CLIENT: AREA:

LINE: DATE:

OPERATOR: UNIT NO: LAT:

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

SOLO GEOPHYSICS AND CO. GROUND MAGNETICS SURVEY.

CLIENT: BHP CO PTY LTD **AREA:** Lagoon Hill
LINE: 12000N **DATE:** 11/05/79
OPERATOR: P.C.R **UNIT NO:** **LAT:**

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
Δ 2000W	58451	10:12		58450	
21	58298	10:16		58298	
22	58213	10:20		58213	
23	58167	10:23		58168	
24	58157	10:26		58158	
2500W	58160	10:28		58161	
26	58133	10:32		58135	
27	58035	10:34		58037	
28	57883	10:38		57886	
29	57745	10:42		57749	Δ
3000W	57656	10:46		57666	
31	57526	10:49		57531	Δ
32	57446	10:53		57451	
33	57426	10:57		57432	
34	57430	11:00		57436	
3500W	57415	11:04		57422	
36	57359	11:07		57367	
37	57311	11:10		57319	
38	57293	11:15		57302	
39	57248	11:19		57257	

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

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
4000W	57122	11:23		57132	
41	56966	11:27		56977	
42	56903	11:30		56914	
43	56823	11:33		56835	
44	56693	11:37		56705	
4500W	56582	11:40		56595	
46	56579	11:44		56592	
47	56642	11:47		56652	
48	56735	11:50		56749	
49	56835	11:54		56850	
5000W	56913	11:58		56924	
2000W	58432	12:14		58459	

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

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

SOLO GEOPHYSICS AND CO. GROUND MAGNETICS SURVEY.

CLIENT: THB BHP COLTU AREA: Lagoon Hill
LINE: 9000 N DATE: 18/5/79
OPERATOR: C Gilleghan UNIT NO: MP 21 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
3100E	58460	10:07		58422	
35	58470	10:12		58434	
34	58473	10:16		58439	
33	58473	10:20		58440	
32	58453	10:24		58452	
31	58507	10:28		58478	
3000E	58515	10:32		58487	
2900E	58447	10:39		58422	

CLIENT: AREA: Lagoon Hill
LINE: 15000 N DATE: 19/05/79
OPERATOR: P.C.R UNIT NO: 2 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
3000W	57585	11:16		57581	
31	57586	11:22		57582	
32	57580	11:27		57576	
33	57562	11:31		57559	
34	57539	11:35		57536	
3520W	57520	11:38		57517	
36	57505	11:43		57502	
37	57491	11:48		57488	
38	57474	11:52		57472	
39	57458	11:55		57456	
4000W	57437	11:59		57435	
41	57415	12:03		57413	
42	57393	12:07		57391	
43	57381	12:10		57379	
44	57374	12:14		57373	
4500W	57368	12:17		57367	
46	57359	12:22		57358	
47	57354	12:25		57353	
48	57341	12:29		57340	

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

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
49	57321	12:33		57320	
5000W	57309	12:36		57309	
3000W	57581	12:45		57581	

CLIENT: THE BHP Co Ltd AREA: Langaw Hill
LINE: 15000 N DATE: 19/05/79
OPERATOR: P.C.R JNO: 13 UNIT NO: 2 LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
3000W	57538	12:45		57581	
					Δ
29	57575	12 53		57576	
28	57570	12 58		57581	Δ
27	57603	13 01		57606	
26	57604	13:05		57667	
2500W	57734	13 08		57768	
24	57892	13 13		57897	
23	58073	13:16		58078	
22	58364	13:19		58390	
2000W	58415	13 23		58422	
2000W	58096	13 27		58103	
19	57880	13.31		57888	
18	57842	13 52		57853	
17	57873	13 55		57885	
16	57879	13 56		57892	
1500W	57850	14 03		57863	
14	57792	14 07		58806	
13	57805	14 10		57820	
12	57862	14 14		57877	

CLIENT: AREA:
LINE: 15000N DATE:
OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
11	57932	14:18		57948	
1000W	58043	14 22		58057	Δ
3000W	57563	14 30		57581	Δ

CLIENT: AREA:
LINE: 15000N DATE:
OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
1000W	58091	14.47		58059	Δ
9	58117	14 26		58135	
8	58129	14 49		58148	
7	58173	14.53		58192	
6	58247	14'47		58266	
0500W	58312	5'02		58339	
4	58383	15:05		58404	
3	58460	15 08		58481	
2	58544	15'13		58565	
1	58633	15'16		58655	
000W	58750	15'22		58772	Δ
1000W	58036	15'28		58059	Δ

CLIENT: BHP. AREA: Lagoon Hill

LINE: 15000 E DATE: 19·5·79

OPERATOR: C COLLOGON UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
000E	58777	11·42		58772	
100	58865	11·46		58860	
200	58926	11·50		58922	
300	58984	11·54		58985	
400	59037	11·58		59034	
500	59029	12·01		59026	
600	58910	12·05		58907	
700	58784	12·09		58787	
800	58697	12·14		58695	
900	58616	12·19		58615	
1000	58544	12·24		58543	
1100	58447	12·33		58447	
1200	58344	12·36		58344	
1300	58262	12·39		58262	
1400	58235	12·44		58236	
1500	58289	12·47		58290	
1600	58370	12·51		58372	
1700	58504	12·55		58506	
1800	58546	12·58		58548	
1900	58502	13·02		58505	

CLIENT: BHP AREA: Lagoon Hill

LINE: 15000E Contd DATE: 19·5·79

OPERATOR: UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
2000	58390	13·06		58395	
00E	58768	13·17		58772	

CLIENT: AREA:

LINE: DATE:

OPERATOR: UNIT NO: LAT:

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

CLIENT: B.H.P. AREA: Lagoon Hill
LINE: 15000N DATE: 20·5·79
OPERATOR: P.C. RUNDLE UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
Δ2000E	58393	12·42		58393	
Δ2000E	58394	12·59		58393	
2100	58292	13·05		58291	
2200	58209	13·08		58208	
2300	58140	13·11		58139	
2400	58096	13·14		58095	
2500	58054	13·17		58058	
2600	58037	13·20		58036	
2700	58021	13·24		58020	
2800	58011	13·27		58010	
2900	58004	13·30		58003	
3000	57997	13·33		57996	
3100	57996	13·37		57995	
3200	57994	13·40		57993	
3300	57993	13·43		57992	
3400	57994	13·45		57993	
3500	57998	13·48		57997	
3600	57996	13·51		57995	
3700	57997	13·54		57996	
3800	57994	13·57		57993	

CLIENT: B.H.P. AREA: Lagoon Hill
LINE: 15000N Contd DATE: 20·5·79
OPERATOR: P.C. RUNDLE UNIT NO: LAT:

STATION	READ'G 1	TIME	CORR'N	READ'G 2	REMARKS
3900E	57988	14·00	57987		
4000	57980	14·04	57979		
Δ2000E	58393	14·24	58393		

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

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

C.R. 2453

ENV 3754 (IV)

408

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

AREA: E.L. 369 LAKE EYRE WEST

GRID: LAGOON HILL

SURVEY: GRAVITY WITH LEVELLING

DATE: APRIL AND MAY, 1979

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

SEE PART I FOR MAGNETICS INFORMATION.

C O N T E N T S

1. REPORT

2. APPENDIX

3. GRID MAP (1:100000)

4. CULTURAL GRID MAP (1:250000)

5. FIELD SHEETS (as per below)

6. LINE PROFILES (as per below)

LINE NUMBERS

LINE - 1	00 -	16500N	BRG.	14°/194°
LINE - 2	3000N -	12000N	BRG.	14°/194°
3000N	10000W -	10000E	BRG.	84°/264°
6000N	10000W -	10000E	BRG.	84°/264°
9000N	5000W -	10000E	BRG.	84°/264°
12000N	5000W -	10000E	BRG.	84°/264°
15000N	5000W -	14000E	BRG.	84°/264°

Separate cover, original field sheets

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

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

DATE: APRIL and MAY, 1979

- - - - - - - - - - - - - - -

A combined survey of 206 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 kilometres north of William Creek and south 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-existent 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.

Three 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 three inches of rain experienced during the survey period. Two 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 20°C to 34°C, averaging about 30°C.

The Survey:

Two four-wheel drive vehicles and a large trailer were used to mobilize food supplies and petrol from Adelaide to the area. One base camp was used for all survey areas as frequent rain made it impossible to move a load across country nearer to the northern grid. Several periods of thunderstorm activity made access to the grid impossible for about one week. Thereafter the ground was very wet and unstable, and survey progress was slow. Eventually, by working long hours, the crew completed the area and departed during the build up of another storm, which completely flooded the grids again.

A grid was established by using special calibrated odometers in the vehicles for distance measuring. Gridding at 300 meter intervals was done simultaneously with magnetics gravity and levelling. The base line was established in a north-south direction, and grid origin line -1, 2000N was located four hundred metres due east of "Big Perry" spring. This baseline was continued south to 00 near "Big Perry" stockyard and north to 16500N on the edge of the Neales River. Steel pegs were located at the origin of each line and white timber pegs at 300 metre intervals along all lines. Line -1 and Line -2 had a bearing of $14^{o}/194^{o}$ magnetic and grid lines $84^{o}/264^{o}$ magnetic.

These lines are:

LINE -1	00	to	16500N
LINE -2	3000N	to	12000N
3000N	10000W	to	10000E
6000N	10000W	to	10000E
9000N	5000W	to	10000E
12000N	5000W	to	10000E
15000N	5000W	to	14000E

Gravity Survey:

The optically levelled gravity stations were at 100 metre intervals along all survey lines. All stations were levelled to gravity dish height and 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, sub-base stations were carried from the main base station located at 26000N 13000E on Brinkley Springs grid. These are described in the appendix. The permanent base was located alongside a track, using a steel picket with permanent identity disc attached as described in appendix. Station readings were taken using two La Coste and Romberge temperature compensated gravity meters, No. G35 and No. G505. These were operated using closure loops not exceeding two hours. Instrument drift reflected tidal movements only. Accumulative level errors carrying loops was not adjusted out as poor access after rain reduced mobility on the grid and cross ties were not possible in a reasonable period of time. An instrument reading accuracy of .01 milligals was possible, however, wet unstable ground and the use of two gravity meters showed an error of .07 m.gal misclosure on a 38 km loop where 20 sub-bases were involved. The extra bases were necessary to tie around flooded areas not negotiable to a vehicle.

A calibration chart for each gravity meter is enclosed for any data checks.

Data Presentation:

All data was reduced in the field on the gravity field sheets. Station elevation was computed separately in a levels book.

As no datum for levels or an isogal station was conveniently located in the area an assumed datum level was made for main base station 26000N 13000E. All data was reduced relative to this zero level for both grids.

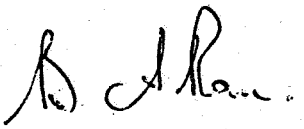
Data calculations incorporated drift corrections, latitude, and Bouguer free air elevation corrections at densities of 1.9, 2.4, 2.67 gms/cc and 1.9 selected for profiling.

Line profiles at 1:50000 scale and 1 cm = 1 milligal vertical were plotted.

Summary:

The combined Brinkley Springs, Lagoon Hill survey took a period of six weeks to complete 206 line kilometres. The first grid was completed in two weeks, however, thunderstorms and flooding reduced progress when access was impossible for over one week to the latter grid. In dry weather, two weeks would have been sufficient to complete the area.

for SOLO GEOPHYSICS AND CO.



BRIAN RAU
MANAGER

APPENDIX

Communications:

A telephone is available at the William Creek Hotel-Store. Anna Creek homestead has a regular radio schedule at 7:45 a.m., 11:45 a.m., 6:45 p.m. using Flying Doctor Radio frequency 2020, Dick Nunn the manager. R.F.D.S. at Port Augusta is available for operators of equipment on their frequencies 4010 and 6890.

Petrol and Food:

Petrol is available from pump or bulk in 44 gallon drums from William Creek. Fresh food supplies not carried at William Creek store, very limited stock. Can be ordered by telephone from Maree and delivered by train. Fresh meat available from Anna Creek.

Water:

Three hot flowing artesian bores are on the grid area plus numerous hot springs. All surface water can be assumed to be saline. Mussel waterhole in Davenport Creek had a good supply of water after creeks stopped flowing. The main Neales River was almost fresh water, but not easily accessible to water-trucks. Dams in the area were all full after the rains. See diagram for location of bores and dam.

Access:

Access to grid area is by station tracks from William Creek as described in the notes. However, sandy creek crossings may not be easily negotiated by heavy drill trucks unless some preparation of the track is made.

Grid access across country is more difficult as there are numerous small creeks and very soft surface soils to negotiate. Heavy vehicles would bog in this soil and grading would not be very successful as there seems to be no bottom to it. If the vegetation supports the topsoil after the rain, access may be better.

Surveyors and Equipment:

Two crews operated in the grid area. Personnel were Brian Rau, Charles Collogan, Phillip Rundle and John Gowland. Two Nissan Patrol four-wheel drive vehicles 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. G35 and No. G505 were used. Two precision automatic Sokkisha B-1 levels were used and staffs for optical levels.

TABLE 1

MILLIGAL VALUES FOR LACOSTE & ROMBERG, INC. MODEL G GRAVITY METER #G- 505

COUNTER READING*	VALUE IN MILLIGALS	FACTOR FOR INTERVAL	COUNTER READING*	VALUE IN MILLIGALS	FACTOR FOR INTERVAL
000	000.00	1.02491			
100	102.49	1.02461	3600	3686.28	1.02434
200	204.95	1.02439	3700	3788.71	1.02436
300	307.39	1.02423	3800	3891.15	1.02437
400	409.81	1.02410	3900	3993.58	1.02439
500	512.22	1.02400	4000	4096.02	1.02440
600	614.62	1.02392	4100	4198.46	1.02442
700	717.02	1.02385	4200	4300.90	1.02442
800	819.40	1.02379	4300	4403.35	1.02441
900	921.78	1.02375	4400	4505.79	1.02440
1000	1024.16	1.02372	4500	4608.23	1.02439
1100	1126.53	1.02369	4600	4710.67	1.02436
1200	1228.90	1.02366	4700	4813.10	1.02433
1300	1331.26	1.02365	4800	4915.53	1.02430
1400	1433.63	1.02365	4900	5017.96	1.02427
1500	1535.99	1.02365	5000	5120.39	1.02422
1600	1638.36	1.02364	5100	5222.81	1.02415
1700	1740.72	1.02364	5200	5325.23	1.02408
1800	1843.09	1.02365	5300	5427.64	1.02399
1900	1945.45	1.02367	5400	5530.04	1.02387
2000	2047.82	1.02370	5500	5632.42	1.02377
2100	2150.19	1.02373	5600	5734.80	1.02365
2200	2252.56	1.02377	5700	5837.16	1.02353
2300	2354.94	1.02383	5800	5939.52	1.02339
2400	2457.32	1.02388	5900	6041.86	1.02324
2500	2559.71	1.02394	6000	6144.18	1.02309
2600	2662.10	1.02399	6100	6246.49	1.02290
2700	2764.50	1.02404	6200	6348.78	1.02271
2800	2866.91	1.02409	6300	6451.05	1.02246
2900	2969.31	1.02413	6400	6553.30	1.02221
3000	3071.73	1.02417	6500	6655.52	1.02195
3100	3174.14	1.02421	6600	6757.71	1.02165
3200	3276.57	1.02424	6700	6859.88	1.02133
3300	3378.99	1.02427	6800	6962.01	1.02095
3400	3481.42	1.02428	6900	7064.11	1.02060
3500	3583.84	1.02432	7000	7166.17	

* Note: Right-hand wheel on counter indicates approximately 0.1 milligal.

7-12-78
CR

TABLE I

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	1.05218
2600	2731.10	1.05239
2700	2836.34	1.05262

L A G O O N H I L L G R I D

LACOSTE AND ROMBERG METER NO. 505 GRAVITY SUB-BASES

1. Main Gravity Base 26000N 13000E (assumed to be zero level)

2. All sub-base levels are those required to equate these bases to main base level.

3. All levels are shown in instrument scale divisions and milligals.

		Scale Divisions	Milligals
LINE 1	00 N	- 3.76	- 3.85
(Baseline)	3000N	- 6.01	- 6.15
	6000N	- 3.93	- 4.02
	9000N	- 4.08	- 4.18
	12000N	+ 1.14	+ 1.17
	14000N	+ 3.07	+ 3.14
	15000N	+ 4.84	+ 4.96
LINE 2	3000N	- 7.58	- 7.76
	4000N	- 8.03	- 8.22
	5000N	- 7.67	- 7.85
LINE 3000N	00 E	- 6.01	- 6.15
	1000E	- 5.49	- 5.62
	5000E	- 2.23	- 2.28
	7600E	- 4.03	- 4.13
	10000E	- 7.58	- 7.76
LINE 6000N	00 E	- 3.93	- 4.02
	6000E	- 3.16	- 3.24
	8000E	- 4.60	- 4.71
	10000E	- 5.90	- 6.04
	600W	- 3.62	- 3.71
	4000W	- 1.25	- 1.28
	8400W	- 1.34	- 1.37
LINE 9000N	00 E	- 4.08	- 4.18
	1000E	- 2.71	- 2.78
	3600E	+ 1.59	+ 1.63
	5700E	+ 0.60	+ .61
	7700E	- 0.35	- .36
	1600W	- 2.57	- 2.63
LINE 15000N	00 E	+ 4.94	+ 5.06
	2000E	+ 9.54	+ 9.77

L A G O O N H I L L G R I D

LACOSTE AND ROMBERG METER NO. 35 GRAVITY SUB-BASES

1. Main Gravity Base 26000N 13000E (assumed to be zero level).

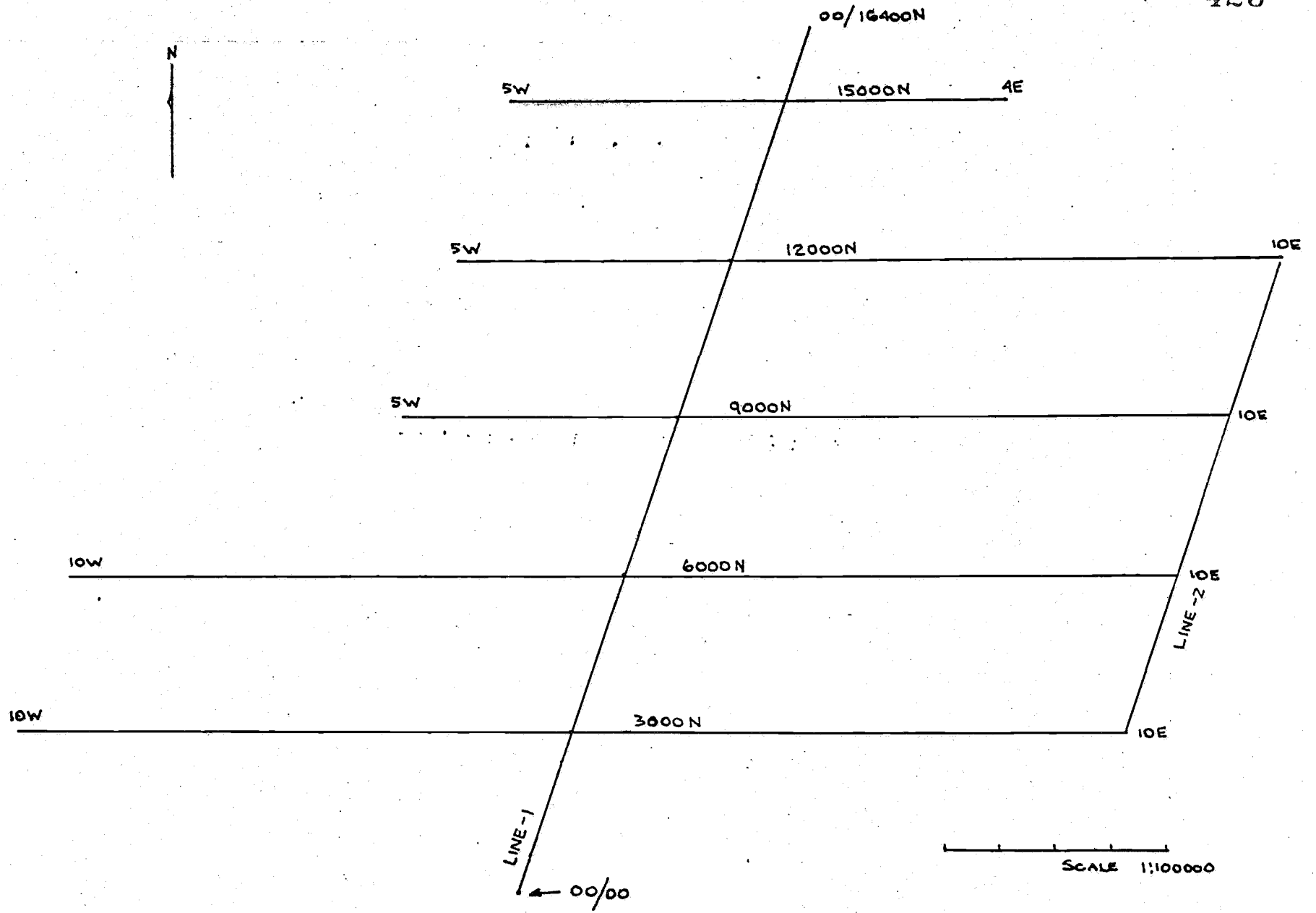
2. All sub-base levels are those required to equate these bases to main base level.

3. All levels are shown in instrument scale divisions and milligals.

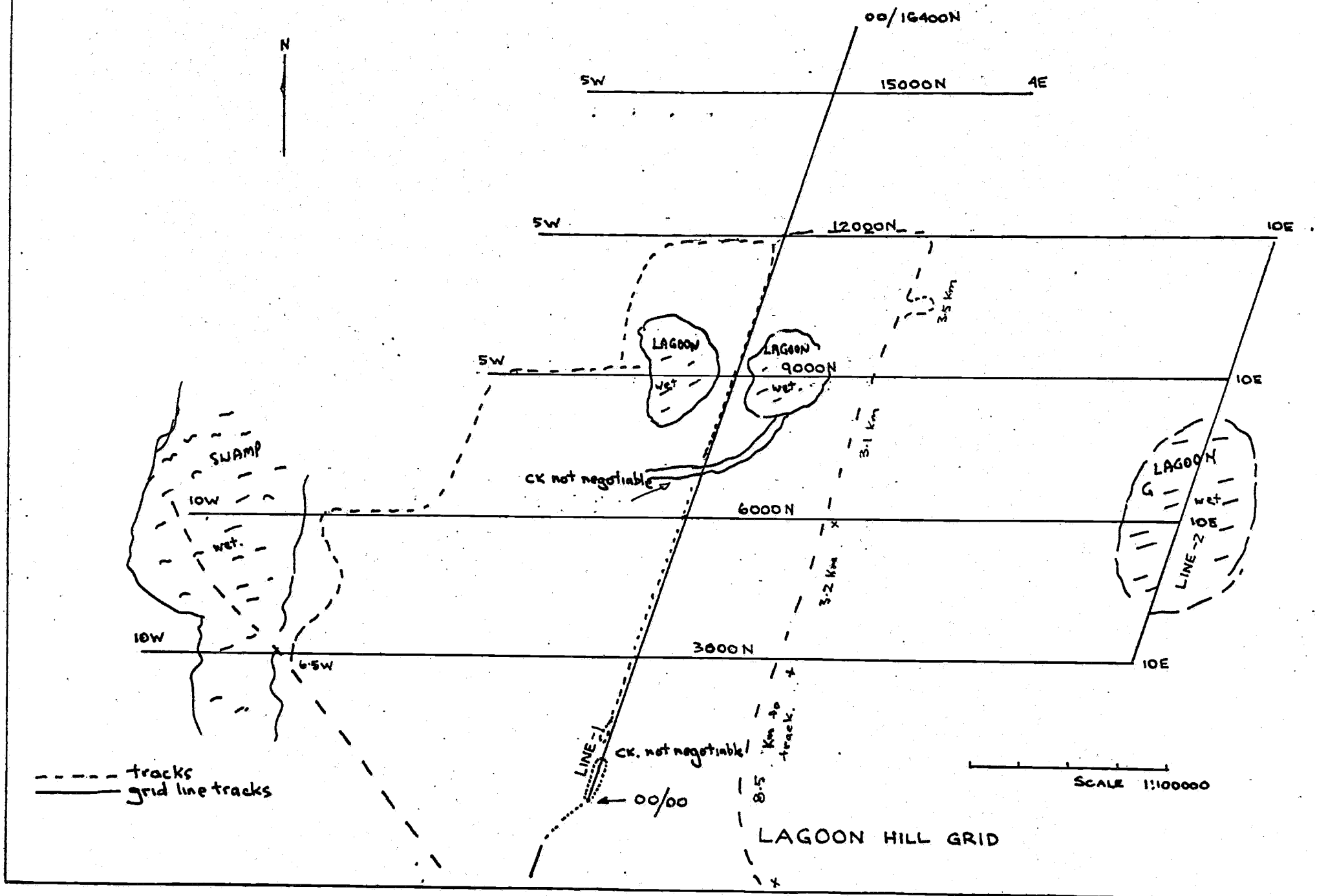
		Scale Divisions	Milligals
LINE 1	00 N	- 3.68	- 3.85
(Baseline)	3000N	- 5.89	- 6.16
	6000N	- 3.85	- 4.03
	9000N	- 4.00	- 4.18
	12000N	+ 1.12	+ 1.17
	14000N	+ 3.01	+ 3.15
	15000N	+ 4.84	+ 5.06
LINE 2	3000N	- 7.43	- 7.77
	4000N	- 7.86	- 8.22
	5000N	- 7.52	- 7.86
	6000N	- 5.82	- 6.09
	9000N	- 2.10	- 2.20
	10600N	+ 0.61	+ .64
	12000N	+ 3.99	+ 4.17
LINE 3000N	00 W	- 5.89	- 6.16
	3000W	- 1.30	- 1.36
	6000W	- 0.28	- .29
	8000W	- 3.24	- 3.39
	1000E	- 5.38	- 5.63
	3000E	- 1.98	- 2.07
	5000E	- 2.18	- 2.28
	7600E	-	-
	10000E	- 7.43	- 7.77
LINE 6000N	00 E	- 3.85	- 4.03
	1700E	- 2.95	- 3.08
	4000E	- 0.71	- .74
	4000W	- 1.23	- 1.29
	5000W	+ 0.81	+ 0.85
	7400W	- 0.69	- 0.72
	8400W	- 1.31	- 1.37

2/...

		Scale Divisions	422 Milligals
LINE 9000N	00 E	- 4.00	- 4.18
	1000E	- 2.66	- 2.78
	1700E	- 1.87	- 1.96
	3000E	+ 0.59	+ 0.62
	3600E	+ 1.56	+ 1.63
	7700E	- 0.34	- 0.36
	8000E	- 0.50	- 0.52
	10000E	- 1.93	- 2.02
	600W	- 3.15	- 3.29
	1600W	- 2.52	- 2.63
LINE 12000N	00 E	+ 1.12	+ 1.17
	1500E	+ 4.06	+ 4.24
	4000E	+ 6.00	+ 6.27
	6000E	+ 5.23	+ 5.47
	8000E	+ 4.41	+ 4.61
	10000E	+ 3.92	+ 4.10
	2000W	+ 0.63	+ 0.66
LINE 15000N	00 E	+ 4.84	+ 5.06
	2000E	+ 9.35	+ 9.78
	1000W	+ 2.82	+ 2.95
	3000W	+ 2.34	+ 2.45



LAGOON HILL GRID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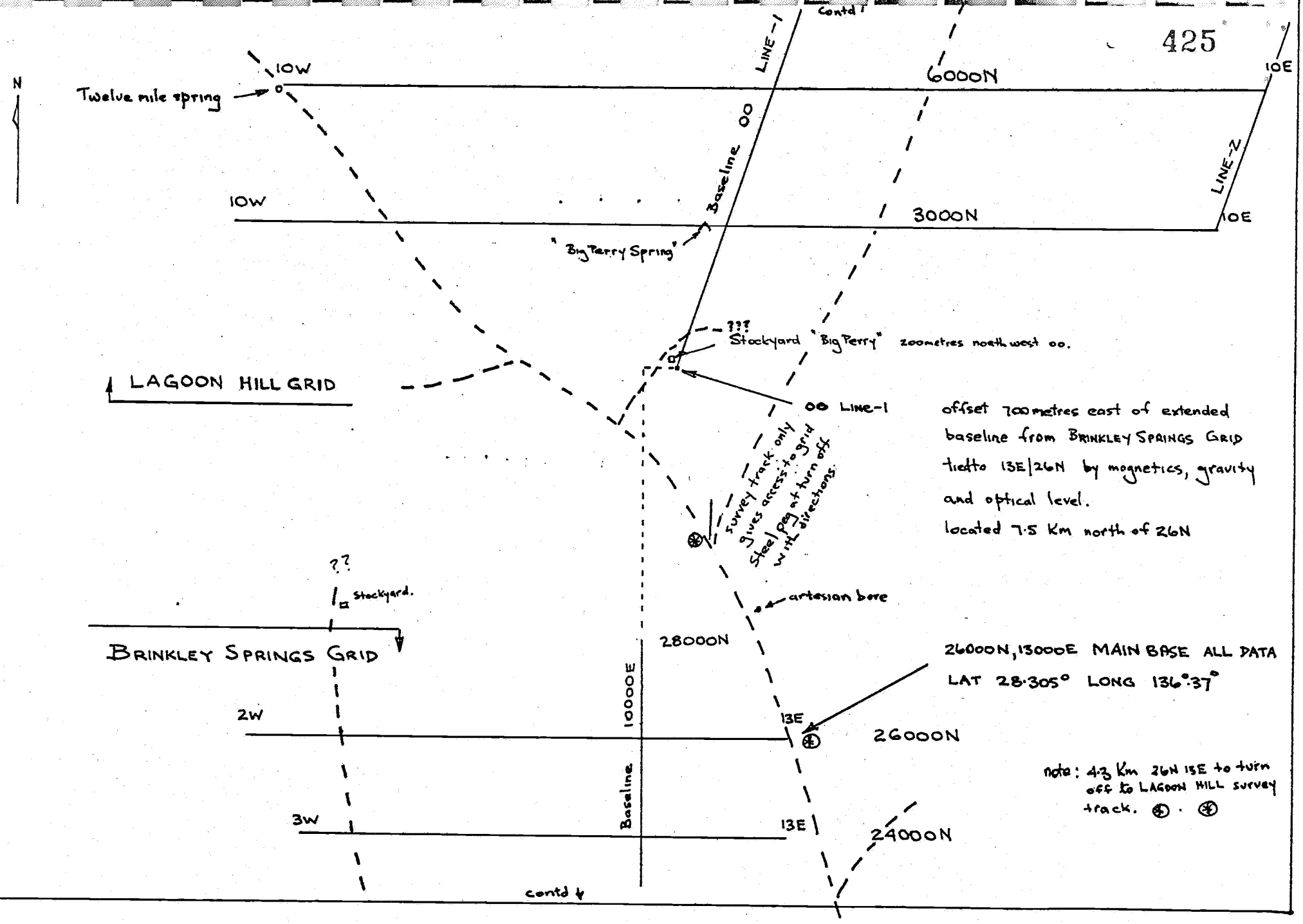
wet
5W
10E
3.5 km
3.1 km
SWAMP
10W
wet.
ck not negotiable
6000N
LAGOON G
wet
10E
LINE-2
3.2 km
10W
3000N
10E
6.5W
LINE-1
ck. not negotiable
Km to track.
8.5
00/00
tracks
grid line tracks
SCALE 1:100000
LAGOON HILL GRID


Contd ↑
LINE-1
10W
Twelve mile spring
6000N
10E
N
Baseline 00
LINE-2
10W
3000N
10E
"Big Perry Spring"
??? Stockyard "Big Perry" zoometres north west 00.
LAGOON HILL GRID
00 LINE-1
offset 700 metres east of extended baseline from BRINKLEY SPRINGS GRID tied to 13E/26N by magnetics, gravity and optical level.
located 7.5 Km north of 26N
survey track only gives access to grid
Steel peg at turn off with directions.
??
Stockyard.
artesian bore
BRINKLEY SPRINGS GRID
28000N
26000N, 13000E MAIN BASE ALL DATA
LAT 28·305° LONG 136°37°
2W
10000E
13E
26000N
note: 4·3 Km 26N 13E to turn off to LAGOON HILL survey track.
3W
Baseline
13E
24000N
contd ↓

Permanent Steel Grid Pegs:

1. BRINKLEY SPRINGS

On baseline 10000E @ 13N, 14N, 16N, 18N, 20N, 22N, 24N, 26N and 28N.

Around grid at track crossings and end of lines.

26N	@	2W,	13E
24N	@	3W,	13E
22N	@	3W,	15E
20N	@	3W,	15E
18N	@	3W,	16E
16N	@	4W,	17E
14N	@	5W,	18E

2. LAGOON HILL

On baseline line - 1 @ 00, 2N, 3N, 6N, 9N, 12N, 15N, 16.4N

line - 2 @ 3N, 6N, 9N, 12N

Around grid at track crossings and end of lines

3N	@	10W,	10E	6.5W *
6N	@	10W,	10E	
9N	@	5W,	10E	
12N	@	5W,	10E	
15N	@	5W,	14E	

3. Turn off to Lagoon Hill, survey track, 8.5 km to line 3000N on tag.

4. Base Station 26000N 13000E

Rain prevented locating some steel pegs due to hasty departure from the area.

5. All pegs flagged with red and yellow tape and a permanent identity tag is attached.

Main Base Station 26000N 13000E

is datum for all data reductions.

Location: On east side of track;
4 km north from Umbum artesian bore taking left track after George Creek crossing.

Identification: 1 metre high steel picket with plastic dumpy peg located at base and ring of white quartz rocks around gravity datum.

Aluminium labels on picket:	SOLO GEOPHYSICS GRAVITY BASE APRIL, MAY 1979	BRINKLEY SPRINGS GRID E.L. 369	LAGOON HILL GRID E.L. 369

Assumed Elevation: 100.00 metres.

Latitude: 28.305°

Longitude: 136.37°

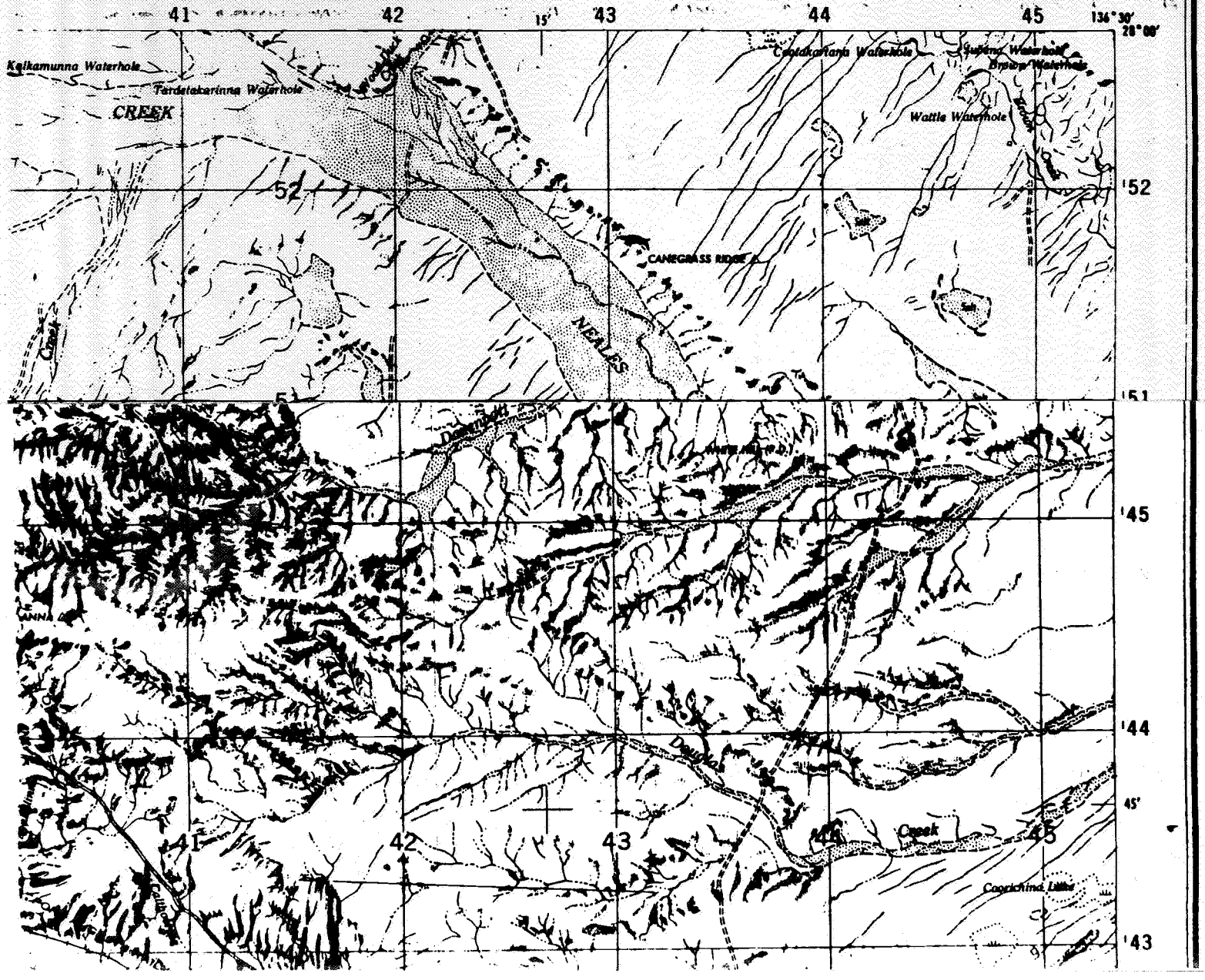
Magnetics Base Level - wood peg. 57371 nT

See diagrams for location.

EDITION 1 - DNM WARRINA 1:250000 SHEET

REFER TO THIS MAP AS: SH 53-3
EDITION 1
SERIES R 502

428



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
boozer hut, stockyard dam	25.0
small creek	32.5
road junction (take left ~~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 at side track:	47.1
side track	48.0
Bump	48.8
Stockyards, + sidetrack to left.	53.3
old chimney + ruin.	54.0 (*)

Continue 2Km across George Ck to steel peg, camp turn off. (take left track over George Ck.)

Stop, see next page.

reset dist

Contd. to Neales River 1977 Grid

(*) take sidetrack to Davenport Ck — 53.3 = 0

artesian bore about 250m north of road, look for birds & cattle & green swamp to locate, easy to miss. see diag of bore. — 0

GEORGE CREEK — 1.1

road junction, take right hand track,

note: track can become very indistinct from now on unless used regularly, follow carefully — 2

stockyard across creek to left of track & trees. dead cow, skeleton on right hand side of track. — 10

steel grid peg

base station steel peg — 21

stockyard — 23

Contd:

Total. 76

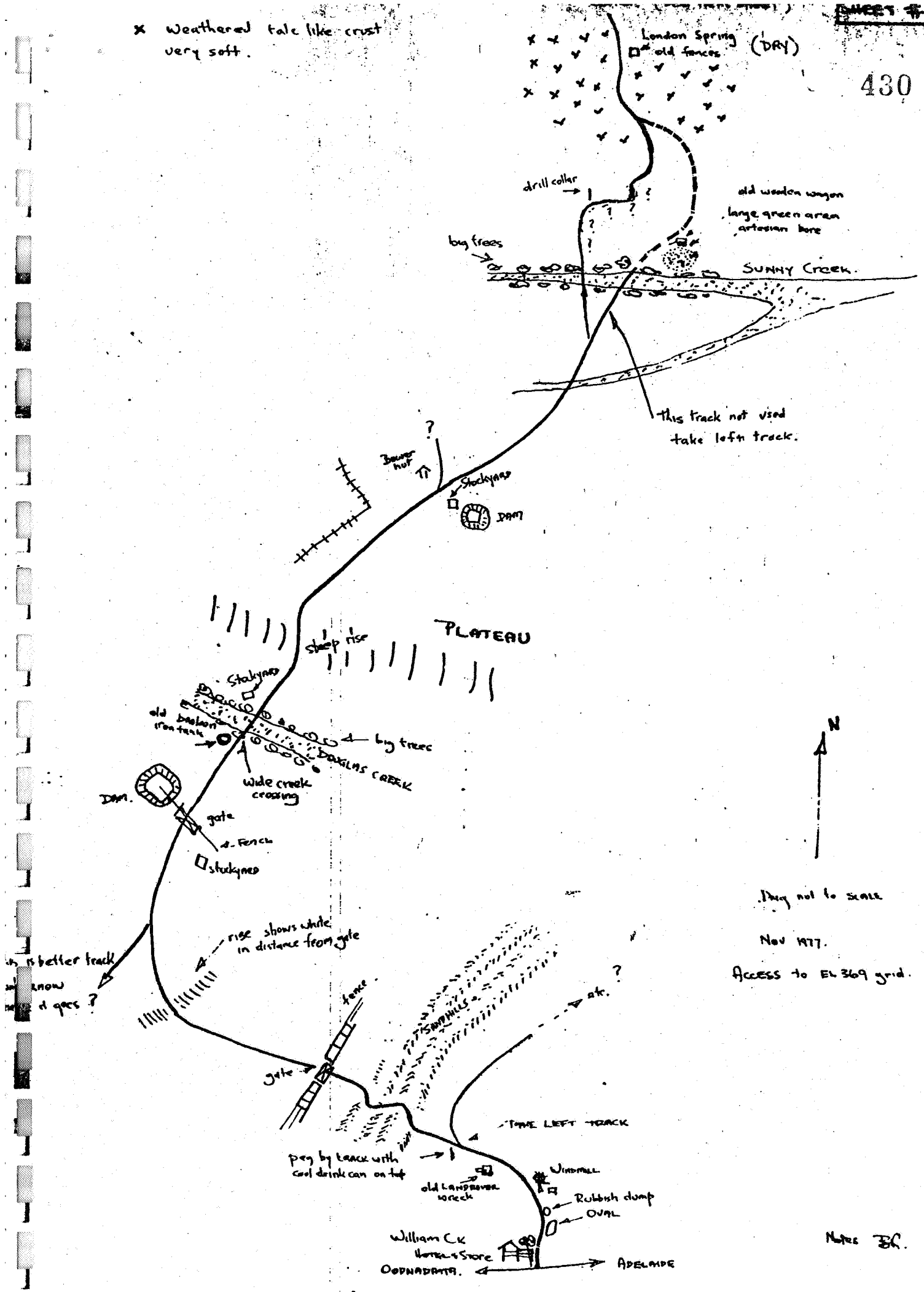
Turn off to baseline see wooden peg markers just before stockyard on side of track.

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 SR.

× Weathered tale like crust very soft.



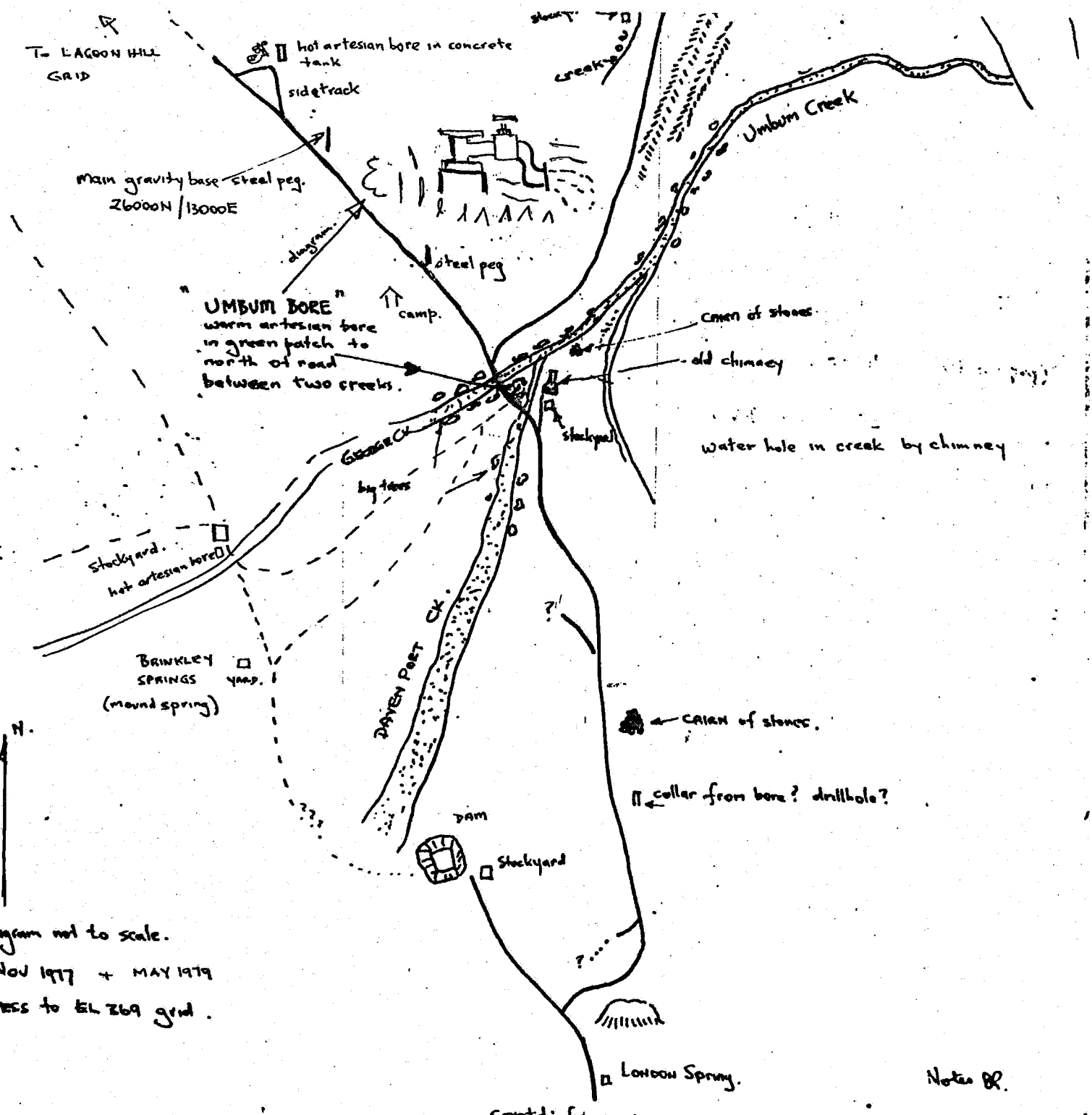


Diagram not to scale.

Nov 1977 + MAY 1979

access to EL 269 grid.

Notes BR.

contd: from previous page

FIELD DATA SHEETS FOR GRAVITY SURVEY USING
LACOSTE AND ROMBERG METERS Nos. G-35 AND G-505.

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE B.H.P. CO LTD.
AREA: LAGOON HILL
GRID:
LINE: BASE TIES. (Brinkley Springs to Lagoon Hill Grids).
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER:
METER CALIBRATION:
BOUGUER DENSITY:
DRIFT CORRECTION: −0.01 gal/hr.
AREA MAGNETIC VARIATION:

OPERATOR: P.C. RUNDLE
DATE: 28/04/79

Notes:

	Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV Δ_1	Δ_2	Δ_3
Δ_2	00N/1			2695·135	13'55	82·67			
Δ_2				2695·140	14'48	82·67			
Δ_1	26000N 13000E			2698·82	14'24	100·00			
Δ_1				2698·82	15'15	100·00			

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE BHP Co. LTD.
AREA:
GRID: LAGOON HILL
LINE: LINE 1 BASELINE
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LACOSTE & Romberg # 505.
METER CALIBRATION:
BOUGUER DENSITY:
DRIFT CORRECTION: 0.02 sd/hr
AREA MAGNETIC VARIATION:

OPERATOR: C COLLAGAN
DATE:

Notes: GRID area & creeks very wet after "rains"

	Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV		
							Δ_1	Δ_2	Δ_3
A	00/N.			2716.48	10.06	82.67	4.63	4.99	5.19
	100 N			716.52	10.14	82.80	4.76	5.13	5.32
	200			716.70	10.17	82.17	4.87	5.24	5.45
	300			716.58	10.21	83.13	5.03	5.39	5.58
	400			716.48	10.24	83.86	5.16	5.50	5.68
	500			716.58	10.27	84.00	5.36	5.70	5.88
	600			716.45	10.34	84.94	5.51	5.82	5.99
	700			716.70	10.37	83.87	5.58	5.92	6.11
	800			716.25	10.41	86.01	5.68	5.97	6.13
	900			717.41	10.46	81.24	5.84	6.23	6.45
	1000			718.04	10.51	78.84	6.00	6.44	6.68
CK	1100			718.43	10.55	77.69	6.20	6.67	6.92
CK	1200 N			718.52	11.07	77.67	6.36	6.83	7.08
	1300 N			718.42	11.15	78.23	6.45	6.91	7.15
	00			716.45	11.27	82.67	4.63	4.99	5.19

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE BHP Co LTD.
AREA:
GRID: LAGOON HILL
LINE: LINE 1 (Baseline)
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: G505
METER CALIBRATION:
BOUGUER DENSITY:
DRIFT CORRECTION: 0
AREA MAGNETIC VARIATION:

OPERATOR: BRan
DATE: 29/4/79

Notes:

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV		
						Δ_1	Δ_2	Δ_3
3000N			2718.81	10^{16}	77.94	7.76	8.22	8.47
2900			18.77	10^{22}	78.31	7.74	8.19	8.44
2800			18.79	10^{32}	78.53	7.74	8.19	8.44
2700			18.78	10^{37}	78.82	7.74	8.18	8.42
2600			18.92	10^{40}	78.39	7.72	8.17	8.42
2500			18.72	10^{44}	79.02	7.59	8.03	8.27
2400			18.72	1048	78.83	7.49	7.93	8.17
2300			18.77	1052	78.83	7.48	7.92	8.16
2200			18.73	10^{57}	79.09	7.43	7.87	8.10
2100			18.69	11^{01}	79.09	7.33	7.76	8.06
2000N			1868	11^{06}	79.09	7.25	7.69	7.93
1900			18.73	1110	78.92	7.20	7.64	7.88
1800			18.84	1113	78.37	7.12	7.58	7.82
1700			1896	1117	77.83	7.06	7.52	7.77
1600			18.83	1120	78.10	6.92	7.38	7.63
1500			18.66	1124	78.39	6.75	7.21	7.45
1400			18.56	1126	78.44	6.60	7.05	7.29
1300N			18.52	1133	78.23	6.45	6.90	7.15
3000N			2718.81	1146	77.94	7.76	8.22	8.47

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE BHP CO LTD.
AREA:
GRID: LAGOON HILL
LINE: LINE 1 Baseline
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LACOSTE #G505
METER CALIBRATION:
BOUGUER DENSITY:
DRIFT CORRECTION: -0.01 sd/hr
AREA MAGNETIC VARIATION:

OPERATOR: B Ram.
DATE: 29/4/79

Notes:

Base — 6.01 s.d.

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV Δ_1	Δ_2	Δ_3
3000N			27 18.77	13^{33}	77.94	7.72	8.18	8.43
31			18.55	13^{39}	77.86	7.54	8.00	8.25
32			18.39	13^{42}	77.74	7.41	7.88	8.13
33			18.25	13^{45}	77.66	7.31	7.78	8.03
34			18.12	13^{50}	77.64	7.24	7.71	7.96
35			18.02	13^{53}	77.58	7.12	7.59	7.84
36			17.90	13^{57}	77.39	7.08	7.56	7.81
37			17.77	14^{00}	77.35	7.00	7.48	7.73
38			17.70	14^{05}	77.09	6.94	7.42	7.67
39			17.63	14^{10}	76.97	6.90	7.38	7.64
4000N			17.42	14^{20}	77.03	6.76	7.24	7.50
41			17.32	14^{23}	76.89	6.69	7.18	7.44
42			17.28	14^{27}	76.91	6.72	7.20	7.46
43			17.08	14^{31}	76.85	6.56	7.05	7.31
44			16.98	14^{35}	76.92	6.54	7.02	7.29
45			16.94	14^{38}	77.05	6.59	7.07	7.33
46			16.99	1441	77.03	6.70	7.18	7.44
47			17.04	14^{45}	77.64	6.96	7.43	7.68
48			16.94	14^{48}	78.69	7.16	7.61	7.85
49			17.38	14^{52}	78.13	7.55	8.00	8.25
5000N			17.21	14^{56}	78.65	7.55	8.00	8.24
3000N			18.78	15^{07}	77.94	7.73	8.19	8.44

add +.04

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE BHP Co LTD.
AREA:
GRID: LAGOON HILL
LINE: LINE 1
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LACOSTE G505
METER CALIBRATION:
BOUGUER DENSITY:
DRIFT CORRECTION: −0·03 sd/hr
AREA MAGNETIC VARIATION:

OPERATOR: BLom
DATE: 29/4/79

Notes:

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV. ρ_1	ρ_2	ρ_3
5000N			2717·20	1517	78·65	7·58	8·03	8·27
51			16·99	1522	78·86	7·48	7·92	8·16
52			16·77	1525	78·80	7·30	7·75	7·99
53			16·74	1529	78·31	7·22	7·68	7·92
54			16·86	1532	77·29	7·17	7·65	7·91
55			16·62	1535	77·85	7·12	7·58	7·83
56			16·72	1539	77·04	7·10	7·58	7·84
57			16·78	1542	76·58	7·11	7·61	7·87
58			16·70	1546	76·69	7·12	7·61	7·87
59			16·71	1549	76·16	7·07	7·57	7·84
6000N			16·70	1553	76·10	7·11	7·61	7·88
61			16·74	1557	75·99	7·19	7·69	7·96
62			16·65	1600	76·22	7·21	7·71	7·98
63			16·49	1603	76·27	7·12	7·62	7·88
64			16·49	1606	75·74	7·06	7·57	7·84
65			16·48	1609	75·59	7·08	7·59	7·86
66			16·60	1612	74·86	7·10	7·62	7·91
67			16·83	1615	75·39	7·06	7·61	7·92
68			16·75	1618	73·48	7·06	7·61	7·91
69			16·81	1622	73·46	7·18	7·73	8·03
7000N			17·15	1627	72·58	7·38	7·96	8·27
6000N			16·74	1700	76·10	7·12	7·62	7·89
5000N			17·25	1713	78·65	7·58	8·03	8·27

edg ck.

level — 4.44 s.d.

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE BHP CO LTD.
AREA:
GRID: LAGOON HILL
LINE: LINE-1 (Baseline)
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LACOSTE G505.
METER CALIBRATION:
BOUGUER DENSITY:
DRIFT CORRECTION: −0.01 sd/hr
AREA MAGNETIC VARIATION:

OPERATOR: BRam
DATE: 15-5-79

Notes:

level −4.08 s.d

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV		
						Δ_1	Δ_2	Δ_3
9000N			2717.41	1426	75.08	8.94	9.46	9.75
89			17.48	1430	74.22	8.75	9.29	9.58
88			16.83	1435	76.17	8.47	8.97	9.24
87			16.64	1438	76.47	8.28	8.77	9.04
86			16.69	1442	76.13	8.19	8.69	8.96
85			16.81	1446	75.99	8.21	8.72	8.99
84			16.93	1450	76.04	8.28	8.79	9.06
83			17.29	1455	75.27	8.41	8.93	9.21
82			17.30	1458	75.90	8.50	9.01	9.28
81			17.61	1502	76.49	8.89	9.38	9.65
8000N			18.62	1505	74.76	9.46	9.99	10.28
79			19.69	1510	72.35	9.94	10.52	10.84
78			20.14	1606	72.09	10.27	10.86	11.17
77			19.84	1520	72.20	9.93	10.52	10.83
76			18.87	1525	74.77	9.46	9.99	10.28
75			18.39	1529	74.09	8.75	9.30	9.59
7450			18.34	1533	73.11	8.50	9.06	9.36
73			17.81	1538	73.66	7.93	8.48	8.78
72			17.93	1544	72.53	7.73	8.31	8.62
71			18.02	1548	71.76	7.58	8.17	8.49
7000N			17.70	1552	72.58	7.38	7.95	8.26
7800			20.14	1606	72.09	10.27	10.86	11.17
9000N			2717.43	1619	75.08	8.94	9.46	9.75

PHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE BHP Co Ltd.
AREA:
GRID: Lagoon H:11
LINE: 1
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste + Romb. # G-35
METER CALIBRATION: per Chart
BOUGUER DENSITY:
DRIFT CORRECTION: −0·04 sd, hr
AREA MAGNETIC VARIATION:

OPERATOR: C. Callaghan
DATE: 11/05/79

Notes:
Coordn. −2:03 base level 10000N

	Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV. Δ_1	Δ_2	Δ_3
Δ	10000N			2693·71	13:10	77·55	8·09	8·56	8·81
	99		2694·34	2693·34	13:15	76·82	8·51	9·00	9·26
	98			2694·44	13:20	78·31	8·89	9·34	9·59
	97			2692·33	13:25	80·66	9·44	9·64	9·75
	96			2690·64	13:32	99·42	9·62	9·63	9·63
	9500N			2690·37	13:38	101·38	9·71	9·69	9·67
	94			2693·20	13:45	87·71	9·47	9·73	9·87
	93			2693·90	13:48	84·47	9·40	9·72	9·90
	92			2694·61	13:53	80·07	9·07	9·48	9·71
	91			2695·24	13:58	77·06	8·97	9·45	9·71
Δ	9000N			2695·71	14:03	75·08	8·94	9·46	9·74
Δ	10000N			2693·75	14:12	77·55	8·09	8·56	8·81

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE BHP CO LTD

AREA:

GRID: LAGOON Hill

LINE: LINE 1 — Baseline

LINE MAGNETIC BRG:

BASE STATION:

BASE NOMINAL GRAV:

BASE NOMINAL ELEVN:

BASE LATITUDE:

METER: LACOSTE G505

METER CALIBRATION:

BOUGUER DENSITY:

DRIFT CORRECTION: −0.02 scl/hr

AREA MAGNETIC VARIATION:

OPERATOR: BKan

DATE: 11/5/79

Notes:

+1.14

	Station			Obs. Grav. s./divs.	Time	Elevn	BOUGUER GRAV Δ_1	Δ_2	Δ_3
A	12000N			2711.90	1145	80.99	6.85	7.25	7.47
	119			12.15	1149	81.34	7.13	7.52	7.73
	118			12.14	1153	82.59	7.34	7.70	7.90
	117			11.99	1157	84.36	7.52	7.85	8.03
	116			11.65	1201	86.86	7.68	7.96	8.11
	115			12.75	1205	83.79	8.04	8.38	8.57
	114			13.20	1212	84.03	8.49	8.83	9.01
	113			13.50	1216	85.24	9.01	9.32	9.49
	112			12.94	1221	89.62	9.38	9.59	9.71
	111			12.46	1227	92.70	9.53	9.68	9.76
	11000N			12.35	1231	93.35	9.50	9.64	9.71
	109			11.89	1237	95.74	9.51	9.60	9.65
	108			11.84	1241	97.12	9.71	9.77	9.80
	107			12.98	1247	93.30	9.94	10.08	10.15
	106			13.76	1251	89.51	9.80	10.02	10.14
	105			13.69	1257	84.85	8.60	8.92	9.09
	104			13.73	1302	82.80	8.11	8.47	8.66
	103			13.78	1307	81.65	7.83	8.21	8.42
	102			13.66	1313	81.47	7.60	7.99	8.20
	101			14.01	1317	80.65	7.71	8.11	8.33
	10000N			15.15	1324	77.55	8.10	8.57	8.82
A	12000N			11.93	1337	80.99	6.85	7.25	7.47

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE BHP CO LTD
AREA:
GRID: [illegible]
LINE: 1 BASE LINE
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LACOSTE G 35
METER CALIBRATION:
BOUGUER DENSITY:
DRIFT CORRECTION: −0·03 sd/hr.
AREA MAGNETIC VARIATION:

OPERATOR: C Gallagan.
DATE: 19/5/77

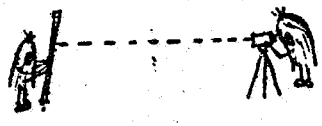
Notes:

Station			Obs. Grav. s./divs.	Time 9[illegible]	Elevn.	BOUGUER GRAV Δ_1	Δ_2	Δ_3
12000 N			26·90·68	9.50	80·99	6·85	7·25	7·46
121			690·03	10.00	82·74	6·63	6·99	7·19
122			689.97	10.04	81.73	6·40	6 78	6·99
123			689.55	10.08	82.45	6·19	6·55	6·75
124			689 54	10.12	80.90	5·88	6·28	6·50
125			68910	10.17	81.91	5·71	6·09	6·30
126			688.85	10.21	81.69	5·46	5·85	6 05
127			68926	10.25	78.47	5·22	5·67	5·91
128			689.37	10.28	76.62	4·97	5·46	5·73
129			689.35	10.32	75.76	4·81	5·32	5·60
13000			68953	10.35	73.85	4·63	5·18	5·47
131			689·73	10.39	72.26	4·53	5·12	5·43
132			68970	10.44	71.29	4·34	4·94	5·27
133			68969	10.47	70.62	4·24	4·86	5·19
134			689.66	10.50	69.96	4·12	4·75	5·09
135			68945	10.53	69.73	3·91	4·54	4·89
136			68939	10.57	69.70	3·90	4·54	4·88
137			68925	11.01	69.76	3·83	4·46	4·81
138			689.12	11.05	69.87	3·78	4·41	4·75
139			68899	11.09	69.76	3·68	4·32	4·66
14000			68883	11.13	69.80	3·59	4·22	4·56
12000 N			26·9072	11.19	80.99	6·85	7·25	7·46

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE BHP CO LTD
AREA:
GRID: Lagoon Hill
LINE: Baseline (1)
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste & Romberg #G-35
METER CALIBRATION: per circuit
BOUGUER DENSITY:
DRIFT CORRECTION: 0.01 sd/hr
AREA MAGNETIC VARIATION:



OPERATOR: P.C. RUNDLE
DATE: 19/05/79

Notes:

+4.89 sd.

	Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV 442		
							Δ_1	Δ_2	Δ_3
Δ	15200N			2686.95	15 40	69.75	2.24	2.87	3.22
	149			2687.11	15:44	69.82	2.36	2.99	3.33
	148			2687.31	15:47	69.66	2.47	3.11	3.45
	147			2687.52	15:52	69.58	2.61	3.25	3.59
	146			2687.71	15:56	69.71	2.77	3.41	3.75
	14500N			2687.92	16:00	69.72	2.93	3.57	3.91
	14400N			2688.11	16:04	69.79	3.09	3.72	4.06
	143			2688.25	1612	69.86	3.19	3.82	4.16
	142			2688.45	16:15	69.78	3.31	3.95	4.29
	141			2688.59	16.19	69.99	3.45	4.08	4.41
Δ	14000N			2688.77	16:23	69.80	3.53	4.16	4.50
Δ	15000N			2686.94	16:30	69.75	2.24	2.87	3.22

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE BHP CO LTD
AREA:
GRID: Lagoon Hill
LINE: 1
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste + Romb #G505
METER CALIBRATION: per Chart.
BOUGUER DENSITY:
DRIFT CORRECTION: -0.05 cd/hr.
AREA MAGNETIC VARIATION:

OPERATOR: P. C. RUNDLE
DATE: 20/05/79.

Notes:
+4.894s.d.

	Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV		
							Δ_1	Δ_2	Δ_3
A	15000 N			2708·46	10·53	69.75	2·29	2·93	3·27
E.O.L.	16400 N			2707·06	11·13	67.75	1·27	1·95	2·31
	163			2707·12	11:20	68.78	1·50	2·16	2·51
	162			2707·35	11·26	68.68	1·64	2·30	2·66
	161			2707·44	11:30	69.09	1·76	2·41	2·76
	16000 N			2707·58	11·37	69.10	1·84	2·49	2·84
	159			2707·70	11:42	69.21	1·92	2·57	2·91
	158			2707·76	11:46	69.27	1·93	2·57	2·92
	157			2707·96	11:52	69.20	2·05	2·69	3·04
	156			2707·99	11.58	69.57	2·10	2·73	3·08
	15500 N			2708·12	12'03	69.52	2·15	2·79	3·13
	154			2708·14	12'08	69.53	2·10	2·74	3·09
	153			2708·13	12'13	69.65	2·05	2·69	3·03
	152			2708·30	12:18	69.52	2·13	2·77	3·11
	151			2708·40	12:22	69.70	2·21	2·84	3·18
A	15000 N			2708·54	12:27	69.75	2·29	2·93	3·27

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE BHP COLTS

AREA:

GRID: LAGOON HILL

LINE: 2

LINE MAGNETIC BRG:

BASE STATION:

BASE NOMINAL GRAV:

BASE NOMINAL ELEVN:

BASE LATITUDE:

METER: LACOSTE G 35

METER CALIBRATION:

BOUGUER DENSITY:

DRIFT CORRECTION: ~~.03~~ .04

AREA MAGNETIC VARIATION:

OPERATOR: C Callaghan

DATE: 16/5/79

Notes:

$\Delta_{3000E} = -7.43$

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV 444		
						Δ_1	Δ_2	Δ_3
3000N			2699.28	10.23	72.05	8.02	8.61	8.92
3100			699.60	10.28	70.68	8.11	8.73	9.06
32			699.39	10.32	71.66	8.18	8.78	9.10
33			699.38	10.35	71.58	8.22	8.81	914
34			699.40	10.39	71.53	8.29	8.89	9.21
35			699.41	10.42	71.29	8.32	8.92	924
36			699.60	10.45	70.1	8.31	8.93	9.27
37			699.71	10.49	69.38	8.32	8.97	9.31
38			699.88	10.53	68.43	8.35	9.01	9.37
39			699.68	10.57	6877	8.29	8.94	929
4000			699.68	11.01	6848	8.29	8.95	9.30
3000			699.25	11.05	7205	8.02	8.61	8.92

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE B.H.P Co Ltd
AREA:
GRID: Lagoon H.11
LINE: 2
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste + Romb. #G-505
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION: −.04 s.dpsi how.
AREA MAGNETIC VARIATION:

OPERATOR: P. C. RUNDLE
DATE: 14/05/79.

Notes:

Δ_{5000} = − 7.67

	Station			Obs. Grav. s./dlvs.	Time	Elevn.	BOUGUER GRAV		
							Δ_1	Δ_2	Δ_3
A	5000 N			2720·88	15:13	66·66	8·15	8·85	9·22
	49			2720·95	15:19	66·76	8·17	8·87	9·25
	48			2720·97	15'23	66·75	8·19	8·89	9·26
	47			2721·03	15:29	66·78	8·13	8·82	9·20
	46			2721·15	15'35	66·80	8·19	8·88	9·26
	4500 N			2721·21	15:40	66·88	8·20	8·89	9·27
	44			2721·26	15'45	67·00	8·21	8·90	9·27
	43			2721·33	15:50	67·18	8·26	8·94	9·31
	42			2721·40	15'56	67·18	8·26	8·95	9·32
	41			2721·44	16:01	67·31	8·26	8·95	9·32
A	4000 N			2721·27	16:07	68·48	8·29	8·95	9·31
A	5000 N			2720·92	16:12	66·66	8·15	8·85	9·22

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THEOLD (OIL)
AREA: WAGOON HILL
GRID:
LINE: 2
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: G 35
METER CALIBRATION:
BOUGUER DENSITY:
DRIFT CORRECTION: .02 s.d per hour.
AREA MAGNETIC VARIATION:

OPERATOR: CL
DATE: 16/6/74

Notes: * 6000 N 10000 E
* 6000 N LINE 2

$\Delta\Delta_{5000} = -7.52$

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV. 446 Δ_1	Δ_2	Δ_3
5000N			699.31	11.19	66.66	8.15	8.85	9.23
6000			697.60	11.48	66.64	7.01	7.71	8.09
59			697.78	11.53	66.56	7.17	7.82	8.20
58			697.93	11.58	66.51	7.20	7.90	8.28
57			698.13	12.07	66.50	7.35	8.05	8.43
56			698.35	12.15	66.51	7.52	8.22	8.60
55			698.50	12.20	66.54	7.62	8.32	8.70
54			698.71	12.25	66.54	7.84	8.54	8.92
53			698.90	12.29	66.58	7.93	8.63	9.00
52			699.07	12.32	66.61	8.05	8.75	9.13
51			699.17	12.36	66.65	8.10	8.80	9.18
5000			699.28	12.40	66.66	8.15	8.85	9.23
6000N			697.60	12.58	66.62			
6000N			697.57	13.05				

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE BHP CO LTD.
AREA:
GRID: LAGOON HILL
LINE: 2
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LACOSTE 435
METER CALIBRATION:
BOUGUER DENSITY:
DRIFT CORRECTION: .02 S.d per hour.
AREA MAGNETIC VARIATION:

OPERATOR: C Calvert and
DATE: 16/5/74

Notes:
Bumped – 6500N
Checked – 6400 · 01 DIFF
14.04 p.m.

Δ_{6000} = -5.82

Station			Obs. Grav. s./dive.	Time	Elevn.	BOUGUER GRAV. Δ_1	Δ_2	Δ_3
6000N			.269755	13.47	66.64	7.01	7.71	8.09
61			697.37	13.50	66.66	6.89	7.59	7.97
62			697.23	13.53	66.65	6.81	7.50	7.88
63			697.08	13.56	66.64	6.71	7.41	7.79
64			696.92	13.58	66.67	6.61	7.31	7.69
65			696.82	14.01	66.67	6.57	7.27	7.65
66			696.64	14.07	66.77	6.47	7.17	7.55
67			696.48	14.10	66.91	6.40	7.10	7.47
68			696.35	14.13	6696	6.34	7.04	7.41
69			696.25	14.16	67.19	6.36	7.04	7.41
7000			696.14	14.18	67.40	6.35	7.04	7.40
71			695.96	14.21	67.82	6.33	7.00	7.36
72			695.80	14.24	68.13	6.29	6.96	7.32
73			695 72	14.27	68.60	6.38	7.04	7.40
74			695.52	14.30	69.21	6.38	7.02	7.37
75			695 30	14.33	69.88	6.36	7.00	7.34
76			695.15	14.35	70.05	6.31	6.94	7.28
77			695.15	14.38	69.83	6.32	6.96	7.30
78			695.10	14.41	69.46	6.25	6.89	7.24
79			695.12	14.44	69.17	6.27	6.92	7.27
8000			695.10	14.47	68.49	6.16	6.82	7.18
81			695.07	14.50	68.03	6.09	6.76	7.12
82			695.02	14.54	67.31	5.93	6.62	6.99
83			694.92	14.57	66.86	5.79	6.49	6.86
84			694.80	15.00	66.34	5.61	6.32	6.70
85			694.76	15.03	65.61	5.47	6.19	6.58
86			694.60	15.07	65.52	5.34	6.07	6.46

CONT!!

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT:
AREA:
GRID:
LINE:
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER:
METER CALIBRATION:
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION:

OPERATOR:
DATE:

Notes:

LINE

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV		
						Δ_1	Δ_2	Δ_3
Contd.								
8700N			2694.39	15 09	65.60	5.21	5.93	6.32
88			694.11	1512	65.63	4.98	5.70	6.09
89			93.95	1516	65.68	4.89	5.61	6.00
9000			93.80	1520	65.85	4.84	5.56	5.94
9000N			93.65	1524	65.83	4.68	5.40	5.78
10000E								
6000N			97.52	1538	66.64	7.01	7.71	8.09

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CONTINUATION.

CLIENT: TUREK (B.C.)
AREA:
GRID: LAWSON HILL
LINE: 2
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LACOSTE G 35
METER CALIBRATION:
BOUGUER DENSITY:
DRIFT CORRECTION: -.02 S.d per hour.
AREA MAGNETIC VARIATION:

OPERATOR: CCallaghan
DATE: 16/5/79.

Notes:

9400N MISSED Reading

2/ 93.22 16.37

Δ_{9000} = -2.10

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV. Δ_1	Δ_2	Δ_3
			~~694.39~~	~~15.09~~				
			~~694.11~~	~~15.12~~				
			~~693.95~~	~~15.16~~				
			~~693.86~~	~~15.20~~				
10000E	9000N.		~~693.65~~	~~15.24~~				
D 9000			693.81	15.50	65.85	4.81	5.52	5.90
91			693.67	15.53	65.82	4.71	5.43	5.82
92			693.50	15.58	65.82	4.66	5.38	5.77
93			693.34	16.01	65.83	4.50	5.22	5.60
94			693.22	16.04	65.81	4.43	5.14	5.53
95			693.06	16.07	65.85	4.34	5.06	5.45
96			692.95	16.10	65.93	4.31	5.03	5.41
97			692.80	16.13	65.96	4.23	4.94	5.33
98			692.68	16.16	65.98	4.17	4.89	5.27
99			692.55	16.19	65.89	4.08	4.80	5.18
10000			692.43	16.22	65.83	4.01	4.72	5.11
101			692.24	16.25	66.03	3.92	4.63	5.02
102			692.00	16.44	65.82	3.69	4.40	4.79
103			691.73	16.47	66.15	3.54	4.25	4.64
104			691.58	16.50	65.91	3.40	4.12	4.50
105			691.36	16.53	65.82	3.22	3.94	4.32
106			691.12	16.55	65.86	3.05	3.76	4.15
D 9000N			693.83	17.03	65.85	4.80	5.52	5.90

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE BHP CO LTD
AREA:
GRID: LA 400N Hdl
LINE: LINE 2.
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: 435
METER CALIBRATION:
BOUGUER DENSITY:
DRIFT CORRECTION: .02 s.d per hour.
AREA MAGNETIC VARIATION:

OPERATOR: [illegible]
DATE: 19/5/79

Notes:

Δ 12000N = 3.99

Station		10100E	Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV Δ_1	Δ_2	Δ_3
~~12000N~~	10100E		~~2685.0~~	~~12.55~~				
12000N			2687.83	14 01	65.84	0.47	1.18	1.57
119			68796	14 04	66.03	0.58	1.29	1.68
118			68820	14 07	66.06	0.77	1.48	1.87
117			68848	14 10	65.80	0.94	1.65	2.04
116			68875	14 13	65.76	1.14	1.86	2.25
115		68907	68907	14 15	65.43	1.33	2.06	2.45
114			68935	14 18	65.49	1.50	2.23	2.62
113			68959	14 21	65.59	1.78	2.50	2.89
112			68968	14 23	65.79	1.85	2.57	2.96
111			68989	14 26	65.71	1.99	2.70	3.09
11000			69013	14 29	65.91	2.21	2.93	3.31
10900			69027	14 31	65.73	2.25	2.97	3.36
108			69060	14 34	65.91	2.57	3.29	3.67
107			69091	14 37	65.67	2.77	3.49	3.88
106			69120	14 41	65.86	3.05	3.77	4.15
12000			87.81	16 50	65.84	0.47	1.18	1.57

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE B.H.P. CO LTD.
AREA:
GRID: Lagoon Hill
LINE: 3000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste & Romb. # G-35
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION: .03 sd/pk
AREA MAGNETIC VARIATION:

OPERATOR: P.C RUNDLE
DATE: 29/04/79.

Notes:

Δ_{00} = -5.89

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV		
						Δ_1	Δ_2	Δ_3
Line 1/00E			2697·41	10:46	77.94	7.76	8.22	8.47
100 W			2697·17	10 55	78.26	7.59	8.04	8.29
200			2697·02	11:00	78.51	7.49	7.94	8.18
300			2696·93	11'04	78.66	7.43	7.88	8.12
400			2696·81	11·07	79.02	7.39	7.83	8.07
0500 W			2696·84	11' 10	78.82	7.38	7.82	8.06
600			2696·75	11:14	78.76	7.27	7.72	7.96
700			2696·67	11·18	78.87	7.22	7.66	7.90
800			2696·50	11'22	79.42	7.17	7.60	7.83
900			2696·37	11:26	79.99	7.16	7.58	7.81
1000 W			2696·24	11'30	80.45	7.13	7.54	7.76
11			2696·15	11:36	80.83	7.13	7.53	7.75
12			2696·04	11·40	81.30	7.12	7.52	7.73
13			2695·95	11:44	81.65	7.11	7.50	7.70
14			2695·85	11'48	82.02	7.09	7.47	7.67
1500 W			2695.54	11:51	83.09	7.02	7.37	7.56
1600			2695·19	11:55	84.02	6.86	7.20	7.38
17			2694·63	11:59	85.72	6.67	6.97	7.13
18			2694·15	12:02	8695	6.45	6.72	6.87
19			2694·29	12:07	85.39	6.24	6.55	6.71
2000 W			2694·14	12'10	85.49	6.11	6.41	6.58
21			2693·93	12:14	86.11	6.03	6.33	6.48
22			2693·87	12:18	85.98	5.94	6.24	6.40
23			2693·61	12:21	87.37	5.99	6.26	6.40
24			2692·75	12:24	91.36	6.01	6.19	6.29
2500 W			2692·56	12:27	92.73	6.12	6.28	6.36

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

T.C.

CLIENT: THE B.H.P. CO LTD.
AREA:
GRID: Lagoon Hill
LINE: 3000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste & Romb. # G-35
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION:

OPERATOR: P.C. Rundle
DATE: 29/04/79

Notes:
2600W on edge of Breakaway.

	Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV Δ_1	Δ_2	Δ_3
	2600W			2692·40	12:32	93.89	6·22	6·35	6·42
	27			2691·20	12'37	99.24	6·20	6·21	6·22
	28			2692·85	12'41	92.21	6 31	6·48	6·57
	29			2692·45	12'44	93·57	6·21	6·34	6·42
Δ	3000W			2692·77	12'48	91·77	6·13	6·31	6·40
Δ	LINE 1/00E			2697·35	13:02	77·94	7·76	8·22	8·47
Δ	3000W			2692·76	13:15				

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE BHP. CO. LTD
AREA:
GRID: Lagoon Hill
LINE: 3000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste & Romb #G-35
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION: − 0.004 s.d per hour.
AREA MAGNETIC VARIATION:

OPERATOR: P.C. RUNDLE
DATE: 29/04/79.

Notes:

Δ_{3000W} = − 1.30

	Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV Δ_1	Δ_2	Δ_3
Δ	3000W			2692·76	13:15	91·77	6·13	6·30	6·40
Δ	3000W			2692·76	13:27	91·77	6·13	6·30	6·39
	31			2692·64	13:36	91·69	5·98	6·16	6·25
	32			2692·28	13:40	92·59	5·81	5·97	6·05
	33			2691·61	13:44	94·56	5·56	5·68	5·74
	34			2690·09	13:48	100·25	5·28	5·27	5·27
	3500W			2689·75	13:52	100·40	4·96	4·95	4·94
	36			2689·27	13:56	101·62	4·73	4·70	4·68
	37			2689·09	14:00	101·64	4·55	4·51	4·50
	38			2688·90	14:03	101·82	4·39	4·35	4·33
	39			2688·90	14:06	101·39	4·29	4·26	4·25
	4000W			2689·24	14:11	99·30	4·17	4·18	4·19
	41			2689·19	14:16	99·22	4·10	4·11	4·12
	42			2689·32	14:20	98·07	3·97	4·01	4·03
	43			2689·25	14:23	97·96	3·87	3·91	3·94
	44			2689·52	14:27	96·48	3·82	3·89	3·93
	4500W			2689·63	14:30	95·42	3·69	3·78	3·83
	46			2689·79	14:33	94·28	3·59	3·71	3·78
	47			2689·40	14:37	95·91	3·56	3·64	3·69
	48			2688·81	14:40	97·97	3·41	3·46	3·48
	49			2688·63	14:44	99·07	3·48	3·50	3·51
	5000W			2688·83	14:48	98·17	3·48	3·52	3·54
	51			2688·76	14:52	98·78	3·55	3·57	3·58
	52			2688·30	14:56	101·19	3·62	3·59	3·58
	53			2689·34	15:00	96·99	3·74	3·80	3·84
	54			2689·89	15:04	95·43	3·96	4·05	4·11
	5500W			2690·22	15:07	94·71	4·14	4·25	4·31

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE BHP. CO LTD
AREA:
GRID: Lagoon Hill
LINE: 3000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste a Romb # G-35
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION:

OPERATOR: P.C. RUNDLE
DATE: 29/04/79.

Notes:

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV Δ_1	Δ_2	Δ_3
5600W			2690·63	15' 12	93·79	4·36	4·49	4·56
57			2690·79	15'.15	93·52	4·46	4·60	4·67
58			2691·24	15' 18	91·99	4·58	4·75	4·84
59			2691·47	15·22	91·36	4·68	4·86	4·96
△ 6000W			2691·75	15:26	90·41	4·75	4·95	5·06
△ 3000W			2692·77	15'38	91·77	6·13	6·30	6·39

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE BHP CO LTD
AREA:
GRID: Lagoon Hill
LINE: 3000 N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste & Romb G-35
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION: −.03 s.d. per hour.
AREA MAGNETIC VARIATION:

OPERATOR: P.C. RUNDLE
DATE: 29/04/79

Notes:

Δ_{6000W} = −0.28

	Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV 455		
							Δ_1	Δ_2	Δ_3
Δ	6000W			2691·75	15:52	90.41	4·75	4·95	5·06
	61			2692·06	15:56	89.37	4·83	5·06	5·18
	62			2692·40	16:00	88.19	4·92	5·17	5·30
	63			2692·75	16:03	86.91	4·99	5·26	5·41
	64			2692·87	16:07	87.06	5·15	5·42	5·56
	6500W			2692·87	16:11	87.71	5·29	5·55	5·69
	66			2693·26	16:14	86.58	5·44	5·72	5·87
	67			2693·59	16:18	85.87	5·62	5·92	6·08
	68			2693·99	16:21	84.57	5·74	6·06	6·24
	69			2694·30	16:30	84.17	5·97	6·30	6·48
	7000W			2694·36	16:37	84.10	6·01	6·34	6·52
	71			2694·47	16:43	84.07	6·11	6·45	6·63
	72			2694·62	16:46	84.01	6·25	6·59	6·77
	73			2694·67	16:51	84.04	631	6·64	6·82
	74			2694·74	16:55	84.06	6·39	6·72	6·90
	7500W			2694·73	16:58	84.16	6·40	6·73	6·91
	76			2694·77	17:00	84.08	6·42	6·75	6·93
	77			2694·81	17:05	84.08	6·46	6·79	6·97
	78			2694·85	17:09	84.06	6·49	6·83	7·01
	79			2694·87	17:12	84.09	6·52	6·85	7·03
Δ	8000W			2694·75	17:18	84.36	6·45	6·78	6·96
Δ	6000W			2691·81	17:36	90.41	4·75	4·95	5·06
Δ	6000W			2691·81	17:38				

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE B.H.P. Co Pty Ltd.
AREA:
GRID: LAGOON HILL
LINE: 3000 N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste & Romb #G-35
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION: 0·01 sd/hr.
AREA MAGNETIC VARIATION:

OPERATOR: P.C. RUNDLE
DATE: 21/04/79

Notes:

$\Delta_{8000W} = -3.24$

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV Δ_1	Δ_2	Δ_3
Δ 8000 W			2694·73	15:41	84·36	6·46	6·79	6·97
81			2694·77	15:49	83·86	6·39	6·73	6·91
82			2694·80	15:52	84·18	6·49	6·83	7·00
83			2694·67	15:58	84·53	6·44	6·76	6·94
84			2694·54	16:02	84·81	6·37	6·69	6·86
8500W			2694·37	16:06	85·22	6·28	6·59	6·76
86			2694·08	16:10	86·20	6·21	6·50	6·65
87			2693·90	16:13	86·84	6·16	6·44	6·59
88			2693·68	16:15	87·98	6·20	6·45	6·58
89			2693·58	16:18	88·64	6·24	6·48	6·61
9000 W			2693·72	16:22	88·75	6·44	6·65	6·78
91			2693·89	16·27	88·85	6·62	6·85	6·98
92			2693·99	16:30	89·09	6·78	7·00	7·13
93			2693·95	16:33	89·70	6·87	7·09	7·21
94			2693·98	16:37	89·92	6·96	7·17	7·28
9500 W			2693·96	16:40	90·55	7·08	7·28	7·38
96			2694·08	16:45	91·09	7·33	7·52	7·62
97			2694·22	16:48	91·41	7·55	7·73	7·83
98			2694·38	16:51	91·79	7·80	7·98	8·07
99			2694·59	16:54	91·84	8·04	8·21	8·30
10000 W			2694·94	16:57	91·72	8·37	8·55	8·64
Δ 8000 W			2694·72	17:07	84·36			

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE BHP Co LTD.
AREA:
GRID: LAPSTONE HILL
LINE: 3000 N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LACOSTE G 35
METER CALIBRATION:
BOUGUER DENSITY:
DRIFT CORRECTION: .04 s.d per hour
AREA MAGNETIC VARIATION:

OPERATOR: Colegan
DATE: 14/5/79.

Notes:

Δ_{3000} = -1.98

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV. Δ_1	Δ_2	Δ_3
3000N			2693.78	10.21	86.70	5.68	5.96	6.11
29			693.64	10.30	87.21	5.66	5.92	6.07
28			693.45	10.34	87.80	5.60	5.85	5.99
27			693.35	10.38	88.18	5.58	5.83	5.96
26			693.15	10.43	88.96	5.55	5.79	5.91
25			693.10	10.46	88.95	5.50	5.73	5.86
24			693.16	10.50	88.71	5.51	5.75	5.88
23			693.27	10.54	88.21	5.52	5.76	5.90
22			693.50	10.58	87.10	5.51	5.78	5.92
21			693.95	11.04	85.26	5.56	5.87	6.03
2000			694.03	11.08	85.26	5.45	5.77	5.95
19			694.32	11.12	84.39	5.75	6.08	6.26
18			694.80	11.16	82.07	5.73	6.10	6.31
17			695.24	11.20	80.58	5.85	6.26	6.47
16			695.70	11.24	79.02	5.98	6.41	6.65
15			696.00	11.27	78.01	6.06	6.52	6.77
14			696.38	11.32	77.12	6.26	6.74	7.00
13			696.55	11.37	76.58	6.31	6.81	7.07
12			696.79	11.41	76.07	6.45	6.95	7.22
11			696.99	11.45	75.88	6.62	7.13	7.40
1000			697.12	11.49	75.87	6.76	7.26	7.54
3000			2693.71	11.59	86.70	5.68	5.96	6.11

JULO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: TASMAN EXPLN CO. LTD

AREA:

GRID: LAGOON HILL

LINE: 3000mN

LINE MAGNETIC BRG:

BASE STATION:

BASE NOMINAL GRAV:

BASE NOMINAL ELEVN:

BASE LATITUDE:

METER: LACOSTE 435

METER CALIBRATION: Perchart.

BOUGUER DENSITY:

DRIFT CORRECTION: .02 c.d per hour.

AREA MAGNETIC VARIATION:

OPERATOR: CC

DATE: 14/5/79

Notes:

Δ_{3000} = −1.98

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV. Δ_1	Δ_2	Δ_3
3000E			693.71	11.59	86.70	5.68	5.96	6.11
31			693.82	12.06	86.13	5.67	5.96	6.11
32			693.88	12.10	85.74	5.64	5.94	6.10
33			693.87	12.13	85.92	5.67	5.97	6.13
34			693.69	12.16	86.62	5.65	5.93	6.08
35			693.82	12.20	86.12	5.67	5.96	6.12
36			694.45	12.25	83.51	5.73	6.08	6.27
37			694.60	12.29	82.74	5.72	6.08	6.27
38			694.77	12.33	82.05	5.74	6.11	6.32
39			694.85	12.37	81.64	5.73	6.11	6.32
4000			694.91	12.41	81.47	5.75	6.14	6.35
41			694.87	12.45	81.60	5.74	6.13	6.34
42			694.73	12.48	81.72	5.63	6.01	6.22
43			694.67	12.52	81.91	5.61	5.99	6.19
44			694.58	12.57	82.24	5.59	5.96	6.17
45			694.46	13.01	82.99	5.64	6.00	6.19
46			694.01	13.05	85.16	5.67	5.98	6.15
47			694.20	13.09	84.41	5.70	6.02	6.20
48			693.73	13.15	86.75	5.74	6.02	6.17
49			693.67	13.19	87.37	5.83	6.09	6.23
5000			693.88	13.25	86.65	5.88	6.16	6.31
3000			693.67	13.36	86.70	5.68	5.96	6.11

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE BHP Co LTD.
AREA:
GRID: LAGOON HILL.
LINE: 3000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LACOSTE G 505
METER CALIBRATION:
BOUGUER DENSITY:
DRIFT CORRECTION: .05 c.d per hour.
AREA MAGNETIC VARIATION:

OPERATOR: JRan.
DATE: 29/4/79

Notes: $\Delta_0 = -6.01$

+ 'More Rain Again' !!! make a run for it before get bogged.

Station			Obs. Grav. s./dive.	Time	Elevn.	BOUGUER GRAV		
						Δ_1	Δ_2	Δ_3
00			2718·81	1146	77.94			
						7.76	8.22	8.47
100E			18.62	1151	78.72	7.75	8.19	8.43
200			18.53	1155	79.14	7.75	8.19	8.43
300			18.70	1159	78.46	7.78	8.23	8.47
400			18.82	1202	77.88	7.77	8.23	8.48
500			18.77	1206	77.45	7.62	8.09	8.35
600			18.70	1209	77.01	7.45	7.93	8.19
700			18.66	1213	76.55	7.31	7.80	8.07
800			18.54	1216	76.26	7.12	7.62	7.89
900			18.44	1220	75.86	6.93	7.44	7.71
1000E			18.26	1224	75.87	6.75	7.26	7.53
00			18.77	1232	77.94	7.76	8.22	8.47

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE B.H.P. CO LTD

AREA:

GRID: Lagoon 4:11

LINE: Loops 3000N

LINE MAGNETIC BRG:

BASE STATION:

BASE NOMINAL GRAV:

BASE NOMINAL ELEVN:

BASE LATITUDE:

METER: LaCoste & Romb. #G-505

METER CALIBRATION: per chart

BOUGUER DENSITY:

DRIFT CORRECTION: .01 s.d per hour

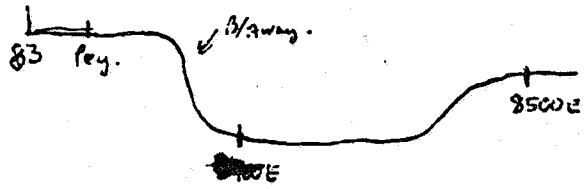
AREA MAGNETIC VARIATION:

OPERATOR: B. RAU

DATE: 14/05/79.

Notes:

$\Delta 7600 = -4.03$



	Station			Obs. Grav. s./dive.	Time	Elevn.	BOUGUER GRAV		
							Δ_1	Δ_2	Δ_3
Δ	7600E			2717·30	12'31				
Δ	7600E			2717·29	12'32	84·92	7·34	7·65	7·82
Δ	7600E			2717·28	12:52	8492	7·33	7·64	7·81
	77			2717·44	12'57	84·11	7·31	7·64	7·82
	78			2717·92	13:01	81.88	7·29	7·67	7·87
	79			2718·10	13·03	80·90	7·25	7·65	7·86
	8000E			2718·46	13:08	79.41	7·28	7·71	7·94
	81			2718·23	13:12	80·37	7·26	7·67	7·89
	82			2717·93	13:16	81.81	7·28	7·67	7·87
	83			2717·24	13:19	85.25	7·37	7·67	7·84
	84			2718·48	13:23	79·64	7·35	7·78	8·01
	8500E			2718·05	13:27	81·38	7·31	7·70	7·91
	86			2718·71	13:31	78·65	7·36	7·81	8·05
	87			2719·15	13:35	76·89	7·41	7·89	8·15
	88			2719·44	13:38	75·76	7·45	7·95	8·23
	89			2719·46	13:42	75·99	7·52	8·02	8·30
	9000E			2719·34	13:46	76.64	7·55	8·04	8·30
	91			2719·56	13:48	75·85	7·59	8·10	8·37
	92			2719·89	13:52	74.45	7·61	8·14	8·43
	93			2719·55	13:56	76·07	7·63	8·13	8·40
	94			2719·73	13:59	75·42	7·67	8·18	8·46
	9500E			2720·09	14:03	73·94	7·70	8·24	8·54
	96			2720·38	14:07	72·76	7·73	8·30	8·60
	97			2720·49	14:09	72·39	7·75	8·33	8·64
	98			2720·72	14:13	71·57	7·76	8·36	8·68

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE BHP CO LTD
AREA:
GRID: Lagoon Hill
LINE: 3000 N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste & Romb. #G-505
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION:

OPERATOR: B. RAU
DATE: 14/05/79.

Notes:

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV		
						Δ_1	Δ_2	Δ_3
99			2721.01	14:17	70.24	7.79	8.42	8.75
10000 E			2720.82	14:23	71.25	7.83	8.43	8.76
A 7600 E			2717.27	14:45	84.92	7.33	7.64	7.81

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE BHP CO PTY LTD.
AREA:
GRID: Lagoon Hill
LINE: 3000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste + Romb #G-505
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION: .025 d per hour.
AREA MAGNETIC VARIATION:

OPERATOR: B. RAU.
DATE: 14/05/79

Notes:

$\Delta_{G_{5000}} = -2.23$

Station			Obs. Grav. s./dive.	Time	Elevn.	BOUGUER GRAV		
						Δ_1	Δ_2	Δ_3
5000E			2715·51	10'28	86·65	5·88	6·16	6·31
51			2715·38	10:32	87·50	5·94	6·21	6·35
52			2715·45	10:35	87·63	6·05	6·31	6·45
53			2715·49	10:40	87·60	6·08	6·34	6·48
54			2715·58	10:44	87·61	6·18	6·44	6·58
55			2715·59	10:48	87·71	6·21	6·47	6·61
5600E			2715·69	10:54	87·61	6·30	6·55	6·70
56			2715·82	10:58	87·41	6·38	6·65	6·79
58			2715·86	11:02	87·67	6·49	6·74	6·88
59			2715·75	11:06	88·61	6·59	6·83	6·96
5900E			2715·86	11:10	88·63	6·71	6·95	7·08
6000E			2715·94	11:13	88·59	6·78	7·02	7·15
62			2715·99	11:16	88·59	6·84	7·07	7·20
63			2716·05	11:19	88·87	6·96	7·20	7·32
64			2716·05	11:27	89·48	7·10	7·32	7·44
6500E			2715·99	11:26	90·14	7·19	7·40	7·51
66			2716·57	11:30	87·59	7·27	7·47	7·61
67			2716·62	11:33	87·52	7·24	7·50	7·64
68			2716·68	11:38	87·65	7·34	7·59	7·73
69			2716·76	11:40	87·66	7·42	7·68	7·82
7000E			2716·76	11:42	87·54	7·39	7·65	7·80
71			2716·88	11:45	87·05	7·41	7·68	7·82
72			2717·01	11:48	86·54	7·42	7·71	7·86
73			2717·25	11:51	85·38	7·40	7·71	7·88
74			2717·49	11:54	84·35	7·42	7·74	7·92
7500E			2717·40	11:57	84·61	7·38	7·71	7·88
9								

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE B.H.P CO LTD.
AREA:
GRID: Lagoon Hill
LINE: 3000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste & Romb #G-305
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION:

OPERATOR: B. RAV.
DATE: 14/05/79

Notes:

	Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV Δ_1	Δ_2	Δ_3
Δ	7600E			2717·28	12'01	84.92	7·33	7·65	7·82
Δ	5000E			2715·47	12:13	86·65	5·88	6·16	6·31

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: BHP & CO PTY LTD
AREA:
GRID: Lagoon - Hill
LINE: 6000 N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste + Romb # G-35
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION: 0 s.d per hour.
AREA MAGNETIC VARIATION:

OPERATOR: P. C. RUNDLE
DATE: 30/04/79.

Notes:

$\Delta_{00} = -3.85$

	Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV Δ_1	Δ_2	Δ_3
peg. A	00E			2695-35	16:06	76.10	7·12	7·62	7·89
	01			2695·35	16:10	76.20	7·14	7·64	7·91
	2			2695·20	16:13	76.71	7·10	7·59	7·85
	3			2695·23	16:16	76.29	7·03	7·53	7·80
	4			2695·22	16:18	75.99	6·95	7·46	7·73
	0500 E			2695·26	16:21	75.49	6·88	7·39	7·67
	6			2695·31	16:24	75.06	6·84	7·36	7·64
	7			2695·25	16:28	74.99	6·76	7·28	7·56
	8			2695·19	16:32	75.03	6·70	7·23	7·51
	9			2695·18	16:35	74.89	6·66	7·19	7·47
peg.	1000 E			2695·20	16:38	74.47	6·58	7·12	7·41
	11			2695·02	16:42	74.52	6·41	6·94	7·23
	12			2694·97	16:46	74.24	6·29	6·83	7·12
	13			2694·92	16:48	73.90	6·16	6·71	7·00
	14			2694·92	16:52	73.19	6·00	6·56	6·86
	1500 E			2694·85	16:54	72.83	5·84	6·41	6·72
	16			2694·79	16:58	72.48	5·70	6·28	6·59
peg. A	1700 E			2694·45	17:02	73.66	5·62	6·17	6·47
A	00 E			2695·35	17:14	76.1	7·12	7·62	7·89

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: BHP & CO PTY LTD
AREA:
GRID: Lagoon Hill
LINE: 6000 N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste + Romb #G-35
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION: −.01 s.d per hour.
AREA MAGNETIC VARIATION:

OPERATOR: P.C. RUNDLE
DATE: 7/05/79

Notes:

2400E on edge of Breakaway.

Δ 4000 = −.71

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV Δ_1	Δ_2	Δ_3
Δ 4000E			2692.49	13:13	84.32	5.71	6.04	6.22
39			2692.57	13:18	83.75	5.67	6.01	6.19
38			2692.55	13'22	83.61	5.61	5.96	6.14
37			2692.47	13'27	83.77	5.56	5.90	6.09
36			2692.26	13:32	84.39	5.49	5.81	5.99
3500E			2692.09	13'36	84.67	5.37	5.69	5.87
34			2692.13	13'42	84.70	5.42	5.74	5.91
33		13.57	2692.14	13.47	84.70	5.43	5.75	5.92
XXX 32	INSERT 3100E	↓ 2692.08	2692.13	13'52	84.77	5.43	5.75	5.92
3000E			2692.02	14.03	8491	5.35	5.66	583
29			2692.00	14'08	84.94	5.33	5.65	5.82
28			2692.00	14'12	84.80	5.30	5.62	5.79
27			2692.31	14'17	83.08	5.23	5.58	5.77
26			2692.44	14'29	82.64	5.26	5.62	5.82
25			2692.40	14'33	82.82	5.26	5.62	5.81
24			2692.04	14'38	84.49	5.26	5.59	5.76
23			2693.16	14'45	79.43	5.27	5.70	5.94
22	INSERT 2100E	14.56 2693.67	2693.52	14'50	77.92	5.30	5.77	6.02
2000E			2693.98	15'00	76.10	5.36	5.87	6.14
19			2694.33	15'05	74.92	5.46	5.99	6.27
18			2694.60	15'10	73.94	5.52	6.06	6.36
Δ 1700E			2694.76	15'15	73.66	5.56	6.11	6.41
2100E			2693.67	14.56	77.26	5.31	5.78	6.04
Δ 4000E			2692.52	15'28	84.32	5.71	6.04	6.22
** 3100E			2492.08	13.57	84.92	5.41	5.73	5.90
2100E			2693.67	14.56	?			

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: BHP & CO PTY LTD
AREA:
GRID: Lagoon Hill
LINE: 6000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: Lacoste + Romb #G-35
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION: −.02 s.d per Low.
AREA MAGNETIC VARIATION:

OPERATOR: P.C. RUNDLE
DATE: 07/05/79

Notes:

A_{6000} = −3.09

	Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV 466 ρ_1	ρ_2	ρ_3
Δ	6000E			2694·82	10:36	75·74	6·24	6·75	7·02
	S9			2694·80	10'47	75·66	6·19	6·70	6·98
	S8			2694·84	10'52	75·14	6·11	6·64	6·92
	S7			2694·61	10'57	75·94	6·06	6·56	6·83
	S6			2694·53	11·02	76·11	6·01	6·51	6·78
	5500E			2694·42	11·08	76·67	6·02	6·51	6·77
	S4			2694·33	11·13	76·91	5·98	6·46	6·72
	S3			2694·22	11·18	77·15	5·92	6·39	6·65
	S2			2694·18	11·23	77·36	5·92	6·39	6·65
	S1			2694·04	11·28	77·78	5·87	6·33	6·58
	5000E			2693·83	11·32	78·64	5·84	6·29	6·53
	49			2693·75	11'45	78·97	5·83	6·27	6·51
✓	48			2693·50	11·50	80·09	5·82	6·24	6·47
	47			2693·16	11'55	81·64	5·82	6·20	6·41
	46			2693·10	12'00	81·96	5·83	6·21	6·41
	4500E			2692·87	12'06	83·17	5·86	6·22	6·41
	44			2692·64	12'11	84·25	5·87	6·20	6·38
	43			2692·39	12'15	85·18	5·82	6·13	6·30
	42			2692·39	12'20	85·02	5·78	6·09	6·26
	41			2692·47	12'25	84·59	5·76	6·08	6·26
Δ	4000E			2692·48	12'29	84·32	5·71	6·04	6·21
Δ	6000E			2694·87	12'40		6·24	6·75	7·02
Δ	4000E			2692·49	13'13		5·70	6·03	6·21

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE BLOCK PTY LTD
AREA:
GRID: ~~6000~~ LAGOON HILL
LINE: 6000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LACOSTE & ROS.
METER CALIBRATION:
BOUGUER DENSITY:
DRIFT CORRECTION: .01 s.d per hour.
AREA MAGNETIC VARIATION:

OPERATOR: CCallaghan.
DATE: 2/5/79

Notes:

Δ 8000 = −4.60.

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV 467		
						Δ_1	Δ_2	Δ_3
8000			2717.43	13.56	71.42	6.73	7.33	7.65
6000			715.99	14.06	75.74	6.24	6.75	7.03
6100			716.04	14.10	75.79	6.31	6.81	7.09
6200			716.17	14.13	75.69	6.42	6.93	7.20
6300			716.22	14.16	75.78	6.49	7.00	7.27
6400			716.35	14.19	75.42	6.54	7.06	7.33
6500			716.44	14.21	75.15	6.57	7.09	7.37
6600			716.47	14.24	74.98	6.56	7.09	7.37
6700			71650	14.30	7481	6.56	7.08	7.37
6800			71655	14.33	74.68	6.58	7.11	7.40
6900			716.63	14.36	74.25	6.56	7.10	7.39
7000			71665	14.40	73.96	6.52	7.06	7.36
7100			716.76	14.43	7393	6.62	7.17	7.46
7200			71676	14.47	73.96	6.63	7.18	7.47
7300			716.58	14.50	74.26	6.52	7.05	7.35
7400			716.45	14.54	75.16	6.59	7.11	7.39
7500			716.15	14.58	76.26	6.53	7.03	7.30
7600			716.75	15.02	74.04	6.64	7.18	7.48
7700			71693	15.05	73.35	6.67	7.23	7.53
7800			717.18	15.08	72.36	6.70	7.28	7.59
7900			717.32	15.11	71.89	6.73	7.32	7.64
8000E			717.42	15.15	71.42	6.73	7.33	7.65
6000E			2.71597	15.24				

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: [illegible]

AREA: PLATEAU.

GRID: LAGOON HILL

LINE: 6000N.

LINE MAGNETIC BRG:

BASE STATION:

BASE NOMINAL GRAV:

BASE NOMINAL ELEVN:

BASE LATITUDE:

METER: LACOSTE G 505

METER CALIBRATION:

BOUGUER DENSITY:

DRIFT CORRECTION: .01 s.d per hour.

AREA MAGNETIC VARIATION:

OPERATOR: C Calloghan

DATE: 2/5/77.

Notes:

CLAYMAN ↓

Δ 8000 = −4.60

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV		
						Δ_1	Δ_2	Δ_3
8000E			2 717 44	12.30	71.42	6.73	7.33	7.65
8100			717 48	12.34	71.38	6.76	7.36	7.68
8200			717.00	12.38	73.61	6.78	7.33	7.63
8300			717.13	12.41	73.19	6.82	7.38	7.68
8400			717 32	12.45	72.10	6.76	7.35	7.66
8500			717 49	12.48	71.19	6.73	7.33	7.66
8600			717.48	12.52	71.01	6.68	7.29	7.61
8700			717.48	12.55	71.07	6.69	7.30	7.63
8800			717.49	12.58	71.02	6.69	7.30	7.63
8900			717 54	13.01	70.87	6.71	7.32	7.65
9000E			717.58	13.05	70.84	6.74	7.35	7.68
9100			717.62	13.08	70.77	6.80	7.42	7.75
9200			717.69	13.11	70.60	7.03	7.63	7.95
9300			717 74	13 15	70.33	6.79	7.41	7.75
9400		718 08	718 08	13 19	69.0	6.84	7.49	7.84
9500			718.46	13.22	67.40	6.86	7.54	7.91
9600			718.57	13.26	66.96	6.81	7.51	7.88
9700			718.64	13.29	66.70	6.88	7.58	7.96
9800			718.73	13 34	66.66	6.97	7.67	8.04
9900			718 75	13.38	66.66	6.99	7.69	8.06
10000E		718.73	718.73	13.42	66.63	6.96	7.66	8.04
8000E			71743	13.56	71.42	6.73	7.33	7.65

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE BNP CoLtD
AREA:
GRID: LAGOON HILL
LINE: 6000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: Q505
METER CALIBRATION:
BOUGUER DENSITY:
DRIFT CORRECTION: 0 s.d per hour.
AREA MAGNETIC VARIATION:

OPERATOR: Blan
DATE: 29/4/79

Notes:

$\Delta_0 = -3.93$

top bank ck.

	Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV		
							Δ_1	Δ_2	Δ_3
A	00			27 16.73	1720	76.10	7.11	7.61	7.89
	100			16.68	1724	76.29	7.11	7.60	7.87
	200			16.80	1726	76.13	7.19	7.69	7.96
	300			16.86	1729	76.11	7.25	7.75	8.02
	400			16.70	1732	77.30	7.36	7.83	8.09
	500			16.58	1735	77.70	7.33	7.79	8.05
	600W			16.42	1738	77.55	7.13	7.60	7.85
A	00			27 16.73	1744	76.10	7.11	7.61	7.89

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: Bitpco pty Ltd

AREA:

GRID: Lagoon H.11

LINE: 6000N

LINE MAGNETIC BRG:

BASE STATION:

BASE NOMINAL GRAV:

BASE NOMINAL ELEVN:

BASE LATITUDE:

METER: LaCoste & Romb #G-505

METER CALIBRATION: per chart.

BOUGUER DENSITY:

DRIFT CORRECTION: -.05 s.d per hour

AREA MAGNETIC VARIATION:

OPERATOR: B. Rav

DATE: 12/05/79

Notes:

$\Delta_{4000} = -1.25$

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV		
						Δ_1	Δ_2	Δ_3
Δ 4000W			2714.40	14:42	83.50	6.06	6.41	6.60
39			2714.25	14:48	83.79	5.97	6.31	6.49
38			2714.02	14:51	83.66	5.70	6.05	6.23
37			2714.55	14:56	80.39	5.49	5.90	6.13
36			2714.54	14:59	79.95	5.38	5.80	6.03
3500W			2714.27	15:04	80.73	5.28	5.68	5.90
34			2714.24	15:07	80.54	5.20	5.61	5.83
33			2714.35	15:11	80.35	5.27	5.68	5.90
32			2714.54	15:15	79.49	5.26	5.69	5.92
31			2714.77	15:19	78.57	5.28	5.73	5.97
3000W			2714.83	15:22	78.26	5.27	5.73	5.97
29			2714.85	15:27	77.92	5.21	5.67	5.92
28			2714.82	15:32	77.78	5.14	5.61	5.86
27			2714.97	15:36	77.03	5.12	5.60	5.86
26			2715.05	15:39	76.63	5.11	5.60	5.86
2500W			2715.34	15:43	75.55	5.15	5.67	5.94
24			2715.59	15:47	74.90	5.26	5.78	6.07
23			2715.48	15:50	75.38	5.25	5.77	6.05
22			2715.68	15:53	74.78	5.32	5.84	6.13
21			2715.76	15:57	74.73	5.38	5.91	6.20
2000W			2715.51	16:00	76.27	5.48	5.97	6.24
19			2715.27	16:05	78.10	5.65	6.11	6.35
18			2715.84	16:09	76.62	5.89	6.38	6.64
17			2716.00	16:12	76.72	6.07	6.56	6.82
16			2716.22	16:15	76.29	6.20	6.69	6.96
1500W			2716.35	16:18	76.20	6.31	6.80	7.07

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

contd.

CLIENT: BHP & CO PM LTD
AREA:
GRID: Lagoon Hill
LINE: 6000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste & Romb #G-505
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION:

OPERATOR: B. RAU
DATE: 12/05/79.

Notes:

	Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV Δ_1	Δ_2	Δ_3
	14			2716·48	16:21	75·95	6·38	6·88	7·16
	13			2716·44	16:23	76·64	6·49	6·98	7·25
	12			2716·65	16:27	76·22	6·61	7·11	7·38
	11			2716·71	16:30	76·40	6·71	7·20	7·47
	1000 W			2716·83	16:32	76·18	6·78	7·28	7·55
	9			2717·32	16:34	74·53	6·90	7·44	7·72
	8			2717·67	16:37	73·24	6·96	7·52	7·83
	7			2717·54	16:41	73·85	6·97	7·51	7·81
Δ	600 W			2716·87	16:44	77·55	7·12	7·60	7·85
Δ	4000 W			2714·52	17.03	83·50	6·06	6·41	6·60

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THEMPCO LTD
AREA:
GRID: Lapaon Hill
LINE: 6000W
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LACOSTE G 36
METER CALIBRATION: DeCLor 7
BOUGUER DENSITY:
DRIFT CORRECTION: -.02 s.d per hour
AREA MAGNETIC VARIATION:

OPERATOR: C. Callaghan
DATE: 12/05/79

Notes:

Δ_{4000} = -1.23

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV. Δ_1	Δ_2	Δ_3
△ 4000W			692.97	15 35	83.50	6.07	6.42	6.60
4100			693.33	15 40	81.76	6.05	6.43	6.63
4200			693.33	15 45	81.26	5.93	6.32	6.53
4300			693.60	15 49	80.30	5.78	6.19	6.42
4400			693.00	15 55	81.30	5.59	5.98	6.19
4500			692.59	15 59	82.43	5.42	5.79	5.99
4600			692.32	16 03	82.84	5.23	5.59	5.78
4700			692.10	16 07	83.35	5.11	5.46	5.65
4800			691.79	16 11	84.18	4.98	5.31	5.49
4900			690.99	16 16	87.04	4.80	5.07	5.21
5000			690.95	16 21	86.54	4.64	4.92	5.07
△ 4000W			692.99	16 35	83.50	6.07	6.42	6.60
5000W			690.96	16 49	86.54			

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: BHP CO

AREA:

GRID: Lagoon Hill

LINE: 6000N

LINE MAGNETIC BRG:

BASE STATION:

BASE NOMINAL GRAV:

BASE NOMINAL ELEVN:

BASE LATITUDE:

METER: La Coste & Romb # G-35

METER CALIBRATION: per chart.

BOUGUER DENSITY:

DRIFT CORRECTION: .03 s.d per hour.

AREA MAGNETIC VARIATION:

OPERATOR: P. C. RUNDLE

DATE: 13/05/79.

Notes:

$\Delta_{7400W} = -.69$

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV Δ_1	Δ_2	Δ_3
Δ 7400W			2692.42	10:20	82.78	5.34	5.70	5.90
73			2692.01	10:24	83.78	5.14	5.48	5.67
72			2691.73	10:29	84.75	5.07	5.39	5.57
71			2691.47	10:33	84.96	4.85	5.17	5.34
7000W			2691.20	10:37	85.80	4.76	5.06	5.22
69			2690.61	10:42	88.20	4.70	4.95	5.08
68			2690.53	10:46	87.88	4.54	4.80	4.93
67			2690.40	10:51	88.28	4.50	4.75	4.88
66			2690.37	10:57	87.95	4.39	4.65	4.78
6500W			2690.42	11:02	87.45	4.34	4.60	4.74
64			2690.04	11:06	88.83	4.26	4.49	4.62
63			2689.39	11:10	91.38	4.16	4.34	4.44
62			2688.48	11:14	95.10	4.07	4.17	4.22
61			2688.66	11:18	93.60	3.91	4.05	4.12
6000W			2688.35	11:23	94.48	3.79	3.91	3.97
59			2687.94	11:27	96.43	3.81	3.89	3.93
58			2687.56	11:31	98.59	3.91	3.94	3.96
57			2687.63	11:35	98.73	4.02	4.04	4.06
56			2687.69	11:39	99.21	4.19	4.21	4.22
5500W			2687.79	11:42	98.96	4.24	4.26	4.27
54			2688.07	11:47	98.07	4.33	4.37	4.39
53			2688.40	11:53	96.83	4.40	4.46	4.50
52			2690.08	11:56	89.82	4.55	4.76	4.88
51			2690.60	12:00	87.51	4.56	4.83	4.97
Δ 5000W			2690.88	12:06	86.54	4.64	4.92	5.07
Δ 7400W			2692.37	12:20	82.78	5.34	5.70	5.90

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: BHP & CO
AREA:
GRID: Lagoon Hill
LINE: 6000 N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste & Romb #G-35
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION: .01 s.d per hour.
AREA MAGNETIC VARIATION:

OPERATOR: P.C RUNDLE
DATE: 13/05/79

Notes:

$\Delta_{7400} = -.69$

	Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV. ρ_1	ρ_2	ρ_3
Δ	7400W			2692·37	12:20	82·78	5·34	5·70	5·90
	75			2692·56	12·28	82·15	5·40	5·77	5·97
	76			2692·60	12:32	82·20	5·43	5·80	6·01
	77			2692·63	12:37	82·16	5·47	5·85	6·05
	78			2692·77	12·40	81·96	5·58	5·95	6·16
✓	79			2692·84	12:46	81·69	5·59	597	6·18
	8000W			2692·99	12:50	81·50	5·70	6·09	6·30
	81			2692·92	12:55	82·46	5·85	6·22	6·42
	82			2693·01	12:59	82·59	5·98	6·34	6·54
	83			2693·02	13·02	82·67	6·00	6·37	6·56
Δ	8400W			2692·98	13:07	83·39	6·13	6·48	6·66
	85			2693·00	13:11	83·65	6·21	6·55	6·74
Δ	8600W			2693·06	13:14	83·65	6·27	6·62	6·80
	87			2693·20	13:17	83·51	6·39	6·73	6·92
	88			2693·36	13:21	83·56	6·57	6·91	7·10
Δ	8900W			2693·57	13:25	83·58	6·79	7·14	7·32
Δ	7400W			2692·35	13:50	82·78	5·34		

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: BHP & CO
AREA:
GRID: LAGOON HILL
LINE: 6000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: G505
METER CALIBRATION:
BOUGUER DENSITY:
DRIFT CORRECTION: -01 SD
AREA MAGNETIC VARIATION:

OPERATOR: 13/5/79 TBRan
DATE:

Notes:

Swampy area.

Δ 8400 = −1.34

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV		
						Δ_1	Δ_2	Δ_3
8400W			27 14.51	1120	83.39	6.13	6.48	6.67
10000E			15.14	1236	86.81	7.58	7.85	800
9a			15.29	1243	86.53	7.67	7.95	8.10
98			15.27	1247	86.72	7.69	7.97	8.12
97			15.38	1252	85.82	7.60	7.90	8.06
96			15.40	1257	85.41	7.53	7.83	8.00
95			15.53	1300	84.77	7.52	7.83	801
94			15.43	1303	84.62	7.38	7.70	7.88
93			15.39	1307	84.35	7.28	7.61	7.78
92			15.45	1310	83.89	7.23	7.57	7.75
91			15.39	1314	83.79	7.15	7.49	7.67
9000W			15.27	1318	83.65	7.00	7.34	7.52
8900			15.10	1321	83.58	6.81	7.15	7.34
8400W			14.48	1331	83.39	6.13	6.48	6.67

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE BHP CO LTD
AREA:
GRID: Lagoon Hill
LINE: 9000 N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste & Romb # G505
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION: —.01
AREA MAGNETIC VARIATION:

OPERATOR: P. C. RUNDLE
DATE: 9/05/79

Notes:

Δ00 = − 4·08

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV 476		
						Δ_1	Δ_2	Δ_3
Δ 00			2717·18	15'10	75·08	8·94	·946	9·75
0100E			2717·13	15'15	76·53	9·27	9·71	·998
200			2716·37	15'19	80·04	9·25	9·66	989
300			2716·24	15'23	81·21	9·38	9·77	999
400			2713·84	15'27	92·57	9·52	9·68	9·76
0500E			2715·76	15'32	81·16	8·87	9·27	9·48
600			2716·36	15'37	75·84	8·27	8·78	905
700			2715·75	15'42	76·03	7·69	8·19	8·46
800			2716·16	15'45	71·95	7·17	7·76	8·08
900			2716·00	15'48	71·51	6·91	7·50	7·83
Δ 1000E			2715·82	15'53	71·76	6·78	7·37	7·69
Δ 00E			2717·19	16'00	75·08	8·94	9·46	9·75

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE BHP CO LTD
AREA:
GRID: Lugoon 4.11
LINE: 9000 N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste & Romb # G-35
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION: −.05 c.s.d per hour.
AREA MAGNETIC VARIATION:

OPERATOR: P.C. RUNDLE
DATE: 11/05/79

Notes:

$\Delta_{1000} = -2.66$

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV. 477		
						Δ_1	Δ_2	Δ_3
1000 E			2694·32	14:44	71.76	6·78	7·38	7·70
11			2694·30	14:51	71.43	6·68	7·28	7·60
12			2694·29	14:56	71.37	6·65	7·25	7·58
13			2694·00	15:02	72.41	6·58	7·16	7·47
14			2694·04	15:07	72.09	6·55	7·13	7·45
1500 E			2694·00	15:10	71.72	6·42	7·01	7·33
16			2693·65	15:16	72.25	6·17	6·75	7·06
17			2693·57	15:23	71.14	5·82	6·43	6·75
1000 E			2694·36	15:31	71.76	6·78	7·38	7·70

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE BHP CO LTD
AREA:
GRID: Lagoon Hill
LINE: 9000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste + Romb. #G-35
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION: −.03 s.d per hour.
AREA MAGNETIC VARIATION:

OPERATOR: P. C. RUNDLE
DATE: 13/05/79.

Notes:
Seismic at 2600E ↓.

$\Delta_{1700} = -1.87$

	Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV. Δ_1	Δ_2	Δ_3
Δ	1700E			2693·57	15:23	71.14	5·82	6·42	6·75
	18			2693·12	15:33	70.99	5·31	5·91	6·24
	19			2692·84	15:38	71.14	5·05	5·65	5·98
	2000E			2692·48	15:42	71.08	4·65	5·26	5·59
	21			2692·18	15:46	71.08	4·34	4·94	5·27
	22			2691·96	15:51	71.12	4·11	4·72	5·05
	23			2691·84	15:56	71.07	3·98	4·58	4·91
	24			2691·74	15:59	71.05	3·86	4·47	4·80
	2500E			2691·70	16:04	70.96	3·80	4·41	4·74
	26			2691·62	16:08	70.91	3·70	4·30	4·64
	27			2691·57	16:13	70.97	3·66	4·27	4·60
	28			2691·44	16:17	71.19	3·57	4·18	4·50
	29			2691·33	16:22	71.45	3·52	4·12	4·44
Δ	3000E			2691·14	16:30	72.42	3·54	4·11	4·43
Δ	1700E			2693·61	16:51	71.14	5·82	6·42	6·75

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE BHP CO LTD
AREA:
GRID: Lagoon H.
LINE: 9000 N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste & Romb. #G-36
METER CALIBRATION: per chart
BOUGUER DENSITY:
DRIFT CORRECTION: −.06 s.d per hour.
AREA MAGNETIC VARIATION:

OPERATOR: P.C. RUNDLE
DATE: 19/05/74

Notes:

$\Delta_{3600} = 1.56$

	Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV 479 Δ_1	Δ_2	Δ_3
Δ	36.00 E			2690·18	10'10	76.05	3·35	3·86	4·13
	35			2690·37	10'15	75.36	3·39	3·91	4·19
	34			2690·41	10'19	75.27	3·41	3·92	4·20
	33			2690·52	10'23	74.92	3·44	3·96	4·25
	32			2690·82	10'27	73.83	3·50	4·05	4·34
	3·			2690·98	10'30	73·20	3·52	4·08	4·38
Δ	3000 E			2691·18	10'34	72·42	3·54	4·12	4·43
Δ	3600 E			2690·21	10'40	76·05	3·35	3·86	4·13

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE BOC LTD.
AREA:
GRID: LAGOON HILL
LINE: 900E N.
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LACOSTE G 505.
METER CALIBRATION:
BOUGUER DENSITY:
DRIFT CORRECTION: -.01 s.d. per hour.
AREA MAGNETIC VARIATION:

OPERATOR: C Collogan
DATE: 8/5/79.

Notes:

Δ 36 - 1.59

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV		
						Δ_1	Δ_2	Δ_3
3600E			2711.36	9.59	76.05	3.36	3.86	4.13
37			711.15	10.05	76.99	3.36	3.84	4.10
38			710.99	10.09	77.54	3.32	3.79	4.04
39			710.47	10.13	79.80	3.30	3.73	3.95
4000E			710.63	10.17	78.82	3.24	3.69	3.93
41			710.31	10.22	80.11	3.21	3.63	3.85
42			710.14	10.27	80.87	3.21	3.61	3.83
43			710.11	10.31	80.76	3.15	3.56	3.77
44			710.30	10.35	79.71	3.11	3.53	3.76
45			710.55	10.39	78.47	3.08	3.53	3.77
46			710.87	10.44	77.14	3.10	3.58	3.84
47			711.05	10.49	76.18	3.06	3.56	3.83
48			711.20	10.55	75.61	3.09	3.60	3.87
49			711.44	11.00	74.79	3.14	3.67	3.96
5000E			711.62	11.04	74.12	3.18	3.72	4.01
51			711.81	11.09	73.51	3.23	3.78	4.08
52			712.20	11.15	72.31	3.35	3.93	4.25
53			712.37	11.19	71.81	3.41	4.00	4.32
54			712.39	11.24	71.70	3.41	4.00	4.32
55			712.50	11.28	71.23	3.41	4.02	4.34
56			712.44	11.34	71.95	3.40	4.00	4.32
5700			712.36	11.38	71.75	3.39	3.98	4.30
3600			711.37	11.50	76.05	3.36	3.86	3.13.

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

Lloyd

CLIENT: Tate Ennis Co. Ltd.

AREA:

GRID: Lagoon Hill

LINE: 9000N

LINE MAGNETIC BRG:

BASE STATION:

BASE NOMINAL GRAV:

BASE NOMINAL ELEVN:

BASE LATITUDE:

METER: Lacoste G505

METER CALIBRATION:

BOUGUER DENSITY:

DRIFT CORRECTION: -.03 s.d per hour.

AREA MAGNETIC VARIATION:

OPERATOR: C Collogan

DATE: 9/5/79.

Notes:

Δ_{5700} = .60

? 2

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV		
						Δ_1	Δ_2	Δ_3
5790			712.37	11.58	71.75			
5700E			712.37	12.17	71.75	3.38	3.97	4.29
5800			712.30	12.22	71.97	3.35	3.94	4.26
5900			712.33	12.26	71.96	3.28	3.86	4.18
6000			712.25	12.30	72.16	3.32	3.90	4.22
61			712.13	12.34	72.60	3.32	3.89	4.20
62			712.08	12.38	72.85	3.32	3.89	4.20
63			712.00	12.42	73.01	3.27	3.84	4.14
64			711.99	12.46	72.98	3.25	3.82	4.13
65			712.42	12.51	71.30	3.31	3.91	4.23
66			712.52	12.57	70.79	3.29	3.90	4.23
67			712.59	13.01	70.53	3.30	3.92	4.25
68			712.58	13.05	70.53	3.29	3.90	4.24
69			712.56	13.09	70.79	3.32	3.94	4.27
7000E			712.60	13.14	70.61	3.32	3.94	4.27
71			712.69	13.18	70.56	3.40	4.02	4.35
72			712.79	13.23	70.07	3.39	4.01	4.35
73			712.87	13.27	69.74	3.39	4.02	4.37
74			712.95	13.30	69.34	3.38	4.02	4.37
75			713.06	13.33	68.84	3.38	4.03	4.38
76			713.28	13.37	68.25	3.47	4.13	4.49
7700			713.38	13.42	67.85	3.47	4.15	4.51
5700E			712.43	13.54	71.75	3.39	3.98	4.30

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE B.H.P. CO LTD.
AREA:
GRID: Lagoon Hill
LINE: 9000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste & Romb. #G-35
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION: −.02 s.d. per hour.
AREA MAGNETIC VARIATION:

OPERATOR: P.C. RUNDLE
DATE: 9/05/79

Notes:

$\Delta 8000 = -.50$

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV Δ_1	Δ_2	Δ_3
8000E			2692.20	13:12	67.16	3.47	4.16	4.53
79E			2692.11	13:16	67.66	3.49	4.17	4.54
78			2692.09	13:19	67.69	3.48	4.15	4.52
77			2692.05	13:23	68.247	3.54	4.20	4.56
8000E			—	—				
81			2692.30	13:28	66.89	3.51	4.20	4.58
82			2692.41	13:32	66.65	3.57	4.27	4.65
83			2692.49	13:35	66.39	3.59	4.30	4.68
84			2692.57	13:39	66.22	3.64	4.34	4.73
85			2692.67	13:42	66.02	3.69	4.41	4.79
86			2692.68	13:45	66.12	3.73	4.44	4.82
8000E			2692.21	13:49	67.16	3.47	4.16	4.53

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: The B.H.P. Co Ltd.
AREA:
GRID: Lagoon Hill
LINE: 9000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste & Romb # G-35
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION: -.01 s.d per hour.
AREA MAGNETIC VARIATION:

OPERATOR: P.C. RUNDLE
DATE: 9/05/79.

Notes:

$\Delta_{8000} = -.50$

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV.		
						Δ_1	Δ_2	Δ_3
8000E			2692·16	10 38	67·16	3·47	4·16	4·53
10000E			2693·61	11 43	65·83	4·67	5·38	5·77
99			93·60	11 48	65·79	4·65	5·36	5·75
98			93·50	11 53	65·93	4·57	5·29	5·67
97			93·42	1157	66·05	4·52	5·23	5·61
96			93·37	12 01	66·03	4·46	5·17	5·55
95			93·29	12 06	66·27	4·43	5·14	5·52
94			93·16	12 10	66·33	4·31	5·01	5·39
93			93·12	12 13	66·30	4·26	4·96	5·34
92			93·08	12 17	66·20	4·19	4·90	5·28
91			92·97	12 20	66·16	4·07	4·77	5·16
9000E			92·85	12 24	66·17	3·94	4·65	5·03
89			92·80	12 28	66·13	3·88	4·59	4·97
88			92·78	12 31	65·95	3·82	4·53	4·91
87			92·70	12 35	66·16	3·75	4·46	4·84
86			92·64	12 40	66·12	3·71	4·42	4·80
8000			92·19	12 46	67·16			

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE BHP CO LTD
AREA:
GRID: Lagoon Hill
LINE: 9000 N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste & Romb # G-35
METER CALIBRATION: per chart
BOUGUER DENSITY:
DRIFT CORRECTION: — 03
AREA MAGNETIC VARIATION:

OPERATOR: P.C. RUNDLE
DATE: 11/05/79

Notes:

Δ_{00} = −4.00

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV. 484 δ_1	δ_2	δ_3
00 BF			2695·78	15:57	75.08	8·95	9.47	9.75
100 W			2695·30	16:02	75.49	8·53	9.05	9.33
200			2694·64	16:06	76.91	8·17	8·65	8·91
300			2694·56	16:09	76.04	7·88	8·39	8·66
400			2694·71	16:13	74.58	7·70	8·24	852
0500 W			2694·68	16:17	74.21	7·59	8·13	8·42
600			2694·94	16:23	72.64	7·49	8·07	8·38
700			N.R.		—			
0800 W			N.R.		—			
00 E			2695·80	16:37		8·95	9.47	9.75

under water.

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE B.H.P. CO LTD.
AREA:
GRID: Lagoon Hill
LINE: 9000 N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste & Romb # G-35
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION: -.01 c.d per hour.
AREA MAGNETIC VARIATION:

OPERATOR: P.C. RUNDLE
DATE: 12/05/79.

Notes:

Δ 1600 = -2.52.

	Station			Obs. Grav. s./dive.	Time	Elevn.	BOUGUER GRAV. Δ_1	Δ_2	Δ_3
Δ	1600W			2693·83	10·56	72.58	6·83	7·40	7·71
	1500W			2693·95	11·03	72.589	6·95	7·52	7·83
	14			2693·07	11·06	72.63	7.09	7.66	7.97
	13			2694·09	11·11	72.87	7.16	7.73	8.04
	12			2693·96	11:15	74.18	7·32	7·86	8.16
	11			2693·95	11·18	74.70	7.43	7.96	8.25
	1000W			2694·42	11:23	72.78	7.48	8.05	8.36
	9			2694·37	11:27	72.99	7.48	8.04	8.35
	8			2694·43	11:30	73.09	7.56	8.13	8.43
	7			N.R.					
Δ	600W			2694.47	11:38	72.635	7.50	8.07	8.38
Δ	1600W			2693·84	11:45	72.58	6·83	7.40	7.71
	2200			2714·60	12.07				
	2300W			714.81	12.14				
	2400			714.96	12.25				
	2500			714.92	12.30				
	2600			714.88	12.36				
	2700			714.78	12.41				
	2800			714.30	12.46				
Δ				714.58	12.51				

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: The BHP Co Ltd.
AREA:
GRID: LAGOON HILL.
LINE: 9000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: G 505
METER CALIBRATION:
BOUGUER DENSITY:
DRIFT CORRECTION: .01 s.d per hour.
AREA MAGNETIC VARIATION:

OPERATOR: P.C. RUNDLE / cc.
DATE: 12/05/79

Notes:

Δ_{Base1} = −1.84

Station			Obs. Grav. s./dive.	Time	Elevn.	BOUGUER GRAV		
						Δ_1	Δ_2	Δ_3
BASE 1 off base 2700W Δ			2714.61	1042	72.7	6.10		
1600W			15.33	1108	72.58	6.82	7.39	7.70
17			15.22	1119	72.53	6.70	7.27	7.58
18			15.18	1128	72.53	6.66	7.23	7.54
19			15.13	1138	72.55	6.61	7.19	7.50
2000W			15.05	1147	72.57	6.54	7.11	7.42
21			14.64	1159	74.23	6.50	7.04	7.33
22			14.60	1207	74.23	6.46	7.00	7.29
23			14.81	1214	73.37	6.48	7.04	7.34
24			14.96	1223	72.52	6.44	7.02	7.33
25			14.92	1230	72.51	6.40	6.98	7.29
26			14.88	1236	72.57	6.38	6.95	7.26
27			14.78	1241	72.75	6.32	6.89	7.20
28			14.30	1246	74.75	6.28	6.81	7.10
BASE 1 off base Δ 2700W			14.58	1251	—	6.10		

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE BHP CO. LTD.
AREA:
GRID: LAGOON HILL
LINE: 9000 N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LACOSTE 435.
METER CALIBRATION: Per Chart.
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION:

OPERATOR: CCollogan.
DATE: 12:05:79.

Notes:

Δ Base 1 = − 1.80

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV. Δ_1	Δ_2	Δ_3
BASE 1			693.13	13.18	72.7	6.10		
2900 N			692[illegible]78	13.22	75.00	6.26	6.78	7.07
3000			692.69	13.26	75.34	6.24	6.76	7.04
3100			692.57	13.36	75.92	6.25	6.75	7.02
3200			692.56	13.40	76.16	6.29	6.79	7.06
3300			692.55	13.43	76.19	6.29	6.78	7.05
3400			692.51	13.48	76.37	6.28	6.78	7.05
3500			692.36	13.53	76.58	6.17	6.66	6.93
3600			692.30	13.57	76.91	6.18	6.67	6.93
3700			692.10	14.01	77.69	6.15	6.62	6.87
3800			692.05	14.05	78.16	6.21	6.66	6.91
3900			691.88	14.09	78.84	6.18	6.63	6.87
4000			691.67	14.13	79.65	6.15	6.58	6.81
4100			691.50	14.17	80.19	6.09	6.51	6.73
4200			691.35	14.21	80.97	6.11	6.51	6.73
4300			691.20	14.26	81.47	6.07	6.46	6.67
4400			691.15	14.30	81.91	6.12	6.50	6.70
4500			691.11	14.35	82.24	6.15	6.52	6.72
4600			691.16	14.39	82.24	6.20	6.57	6.77
4700			691.15	14.43	82.50	6.25	6.62	6.81
4800			691.10	14.46	83.02	6.31	6.67	6.86
4900			691.08	14.50	83.28	6.35	6.70	6.89
5000	W		690.89	14.55	84.33	6.39	6.72	6.90
BASE 1			693.16	15.06	—			

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE B.H.P. CO.LTD
AREA:
GRID: Lagoon Hill
LINE: 12000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCosre & Romb. #G-35
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION: −.03 s.d. per hour.
AREA MAGNETIC VARIATION:

OPERATOR: P.C. RUNDLE
DATE: 10/04/79

Notes:

Δ_0 = 1.12 s.d.

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV. Δ_1	Δ_2	Δ_3
00W			2690·60	14:10	80.99	6.85	7.25	7.46
1			2690·63	14:23	81.20	6.92	7.32	7.53
2			2690·92	14:27	80.61	7.09	7.50	7.72
3			2690·77	14:32	81.50	7.14	7.52	7.73
4			2691·18	14:39	79.75	7.82	8.24	8.47
0500W			2691·34	14:44	78.79	7.10	7.55	7.79
6			2691·30	14:49	78.49	6.99	7.44	7.69
7			2691·40	14:54	77.69	6.91	7.38	7.63
8			2691·16	14:58	78.50	6.84	7.29	7.54
9			2690·98	15:03	79.15	6.80	7.24	7.48
1000W			2690·77	15:07	80.00	6.78	7.19	7.42
11			2690·55	15:13	80.94	6.76	7.16	7.37
12			2690·48	15:17	81.58	6.81	7.20	7.41
13			2690·41	15:23	82.33	6.93	7.30	7.50
14			2690·28	15:26	83.55	7.07	7.41	7.60
1500W			2690·09	15:30	85.10	7.22	7.53	7.70
16			2689·79	15:34	87.11	7.37	7.64	7.78
17			2689·86	15:38	87.04	7.42	7.69	7.84
18			2690·70	15:43	83.50	7.49	7.83	8.02
19			2690·95	15:47	82.56	7.43	7.90	8.09
2000W			2691·14	15:52	82.10	7.62	8.00	8.20
00W			2690·65	16:03	8.99	6.85	7.25	7.46

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE B.H.P. CO LTD.
AREA:
GRID: Lagoon H:11
LINE: 12000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste + Romb. # G-35
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION: .025.d per hour.
AREA MAGNETIC VARIATION:

OPERATOR: C.C.
DATE: 11/05/79

Notes:

Δ 2000W 0.63.

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV. Δ_1	Δ_2	Δ_3
2000W			2691·07	10:12	82.10	7·62	7·99	8·19
21			2691·35	10:18	81.11	7·69	8·08	8·30
22			2691·47	10:22	80.77	7·74	8·14	8·36
23			2691·49	10:24	80.79	7·76	8·16	8·38
24			2691·55	10:27	80.76	7·82	8·22	8·44
2500W			2691·84	10:30	79.68	7·88	8·30	8·53
26			2692·01	10:33	78.93	7·88	8·32	8·56
27			2692·11	10:37	78.80	7·96	8·40	8·64
28			2692·16	10:40	78.83	8·02	8·46	8·70
29			2692·02	10:44	79.03	7·92	8·36	8·60
3000W			2691·68	10:48	80.37	7·87	8·29	8·51
31			2691·61	10:52	79.99	7·72	8·13	8·36
32			2691·54	10:56	79.88	7·62	8·04	8·27
33			2691·40	10:59	80.07	7·52	7·93	8·16
34			2691·31	11:03	80.25	7·47	7·88	8·10
3500W			2691·13	11:06	80.75	7·39	7·80	8·01
36			2691 31	11:09	79.66	7·33	7·76	7·99
37			2691·40	11·13	79.14	7·31	7·75	7·98
38			2691·32	11:17	79.47	7·30	7·73	7·97
39			2691·27	11:22	79.85	7·34	7·76	7·99
4000W			2691·25	11:26	79.61	7·27	7·69	7·92
41			2691·27	11:28	79.23	7·20	7·64	7·87
42			2691·20	11:32	79.47	7·18	7·61	7·85
43			2691·00	11:35	79.85	7·06	7·49	7·71
44			2690·80	11:38	80.06	6·90	7·32	7·55
4500W			2690·60	11:42	80.15	6·72	7·13	7·36

contd.

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE B.H.P. Co Ltd.
AREA:
GRID: Lagoon Hill
LINE: 12000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste + Romb. #G-35
METER CALIBRATION: per chart
BOUGUER DENSITY:
DRIFT CORRECTION:
AREA MAGNETIC VARIATION:

OPERATOR: C.C.
DATE: 11/05/79.

Notes:

Δ 2000W 0.63

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV. Δ1	Δ2	Δ3
4600W			2690.37	11:46	80.22	6.49	6.91	7.13
47			2690.24	11:49	80.07	6.33	6.74	6.97
48			2690.16	11:52	79.78	6.18	6.60	6.83
49			2690.00	11:56	79.83	6.02	6.44	6.67
5000W			2689.94	12:00	79.59	5.91	6.33	6.56
2000W			2691.02	12:17	82.10	7.62	7.99	8.19

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE BHP. CO LtD
AREA:
GRID: Lagoon 4:11
LINE: 12000N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste & Romb #G-35
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION: −.03 s.d per hour.
AREA MAGNETIC VARIATION:

OPERATOR: P.C. RUNDLE
DATE: 10/05/79

Notes:

1500 = +4.06 s.d.

	Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV.		
							Δ_1	Δ_2	Δ_3
Δ	1500E			2687·61	12:20				
Δ	1500E			2687·61	12:38	78·56	3·22	3·67	3·91
	14			2687·93	12'44	78·87	3·62	4·07	4·30
	13			2688·20	12'48	78·89	3·91	4·35	4·59
	12			2688·39	12'53	79·24	4·18	4·62	4·85
	11			2688·59	12'58	79·70	4·50	4·93	5·15
	1000E			2688·82	13'03	80·37	4·89	5·30	5·52
	9			2689·03	13'08	80·95	5·24	5·64	5·85
	8			2689·20	13'12	81·59	5·56	5·95	6·15
	7			2689·23	13'17	82·31	5·75	6·12	6·32
	6			2689·32	13'21	82·89	5·98	6·34	6·53
	0500E			2689·52	13:25	83·19	6·25	6·61	6·80
	4			2689·71	13'29	83·63	6·55	6·89	7·08
	3			2689·90	13'34	84·07	6·85	7·18	7·36
	2			2689·80	13'40	84·75	6·90	7·22	7·39
	1			2689·85	13'44	84·22	6·83	7·16	7·33
Δ	00E			2690·59	13'53	80·99	6·86	7·25	7·47
Δ	1500E			2687·65	14'02	7856	3·22	3·67	3·91
Δ	00E			2690·60	14'10				

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE B.H.P. CO LTD.
AREA:
GRID: Lagoon 14:11
LINE: 12000 N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste & Romb. # G-35
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION: -.01 s.d per hour.
AREA MAGNETIC VARIATION:

OPERATOR: P.C. RUNDLE
DATE: 10/05/79.

Notes:

Δ 4000E = 6.0

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV Δ_1	Δ_2	Δ_3
Δ 4000E			2685·67	10:12	71.13	-0.51	0.10	0.42
			2					
39			2685·66	10:16	71.58	-0.42	0.18	0.50
38			2685·53	10:20	72.49	-0.34	0.23	0.54
37			2685·53	10:25	72.98	-0.23	0.33	0.64
36			2685·51	10:28	73.43	-0.15	0.41	0.71
35			2685·54	10:32	73.78	-0.04	0.51	0.81
34			2685·57	10:37	74.10	0.06	0.61	0.90
33			2685·63	10:41	74.22	0.15	0.69	0.99
32			2685·72	10:45	74.34	0.28	0.81	1.10
31			2685·73	10:50	74.70	0.37	0.90	1.18
3000E			2685·66	10:54	75.37	0.45	0.96	1.24
29			2685·63	10:59	75.67	0.48	0.99	1.27
28			2685·58	11:04	76.20	0.55	1.05	1.32
27			2685·54	11:08	76.86	0.66	1.15	1.41
26			2685·58	11:12	76.98	0.73	1.21	1.47
25			2685·66	11:16	77.02	0.82	1.30	1.56
24			2685·78	11:20	76.99	0.94	1.42	1.68
23			2685·89	11:25	76.93	1.04	1.53	1.79
22			2686·02	11:29	76.96	1.18	1.67	1.93
21			2686·10	11:33	77.08	1.30	1.78	2.04
2000E			2686·33	11:38	77.08	1.54	2.02	2.28
19			2686·47	11:44	77.25	1.72	2.20	2.45
18			2686·69	11:48	77.53	2.01	2.49	2.74
17			2686·98	11:53	77.87	2.39	2.86	3.11
16			2687·29	11:58	78.26	2.81	3.26	3.51
1500E			2687·61	12:02	78.56	3.21	3.66	3.90
Δ 4000E			2685·68	12:12				

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE B.H.P. Co Ltd.
AREA:
GRID: Lagoon Hill
LINE: 12000 N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste & Romb #G-35
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION: .05 s.d per hour.
AREA MAGNETIC VARIATION:

OPERATOR: P.C RUNDLE
DATE: 15/05/79.

Notes:

Δ 4000E = 6.00

	Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV. Δ_1	Δ_2	Δ_3
Δ	4000E			2685·89	10·10	71·13	-0·51	0·10	0·42
	6000E			2686·64	10·27	67·83	-0·47	0·21	0·57
	59			2686·56	10·32	68·06	-0·49	0·18	0·54
	58			2686·53	10·37	68·11	-0·51	0·16	0·52
	57			2686·50	10·42	68·06	-0·55	0·12	0·48
	56			2686·42	10·46	68·14	-0·61	0·06	0·42
	5500E			2686·33	10·50	68·30	-0·66	0·00	0·36
	54			2686·27	10·57	68·30	-0·72	-0·06	0·30
	53			2686·22	11·00	68·28	-0·77	-0·11	0·25
	52			2686·15	11·08	68·33	-0·83	-0·17	0·19
	51			2686·13	11·13	68·37	-0·84	-0·17	0·18
	5000E			2686·11	11·18	68·61	-0·80	-0·14	0·21
	49			2686·08	11·23	68·75	-0·79	-0·14	0·21
	48			2686·09	11·28	68·73	-0·78	-0·13	0·23
	47			2686·05	11·32	68·88	-0·79	-0·14	0·22
	46			2685·96	11·36	69·21	-0·80	-0·16	0·19
	4500E			2685·91	11·40	69·61	-0·76	-0·12	0·22
	44			2685·91	11·44	69·64	-0·75	-0·11	0·23
	43			2685·95	11·48	69·70	-0·69	-0·06	0·29
	42			2685·98	11·53	69·82	-0·63	0·00	0·35
	41			2685·86	11·57	70·48	-0·60	0·02	0·35
Δ	4000E			2685·80	12·02	71·13	-0·51	0·10	0·42
Δ	6000E			2686·54	12·11	67·83			

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE B.H.P. Co Ltd.
AREA:
GRID: Lagoon Hill
LINE: 12000 N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste & Romb #G-35
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION: .02 s.d per hour.
AREA MAGNETIC VARIATION:

OPERATOR: P. C. RUNDLE
DATE: 15/05/79

Notes:

Δ 6000E = 5·23

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV. Δ_1	Δ_2	Δ_3
Δ 6000E			2686·54	12:11	67·83	−·46	·21	·58
61			2686·59	12:17	67·68	−·44	·24	·60
62			2686·57	12:22	67·75	−·44	·23	·60
63			2686·64	12:26	67·61	−·40	·28	·64
64			2686·67	12:30	67·54	−·38	·30	·66
6500E			2686·69	12:34	67·60	−·35	·33	·70
66			2686·73	12:38	67·44	−·34	·34	·71
67			2686·73	12:43	67·45	−·34	·34	·71
68			2686·81	12:47	67·37	−·27	·41	·78
69			2686·82	12:50	67·31	−·27	·41	·78
7000E			2686·92	12:55	67·14	−·21	·48	·85
1 ARE OF 0·02 s.d.			2686·94	12:57				
71			2686·98	13:01	67·05	−·16	·53	·90
72			2686·96	13:06	67·09	−·17	·52	·89
73			2687·03	13:10	66·83	−·16	·54	·91
74			2687·08	13:15	66·90	−·09	·61	·98
7500E			2687·14	13:19	66·70	−·07	·63	1·00
76			2687·23	13:23	66·71	·03	·73	1·10
77			2687·24	13:27	66·65	·03	·72	1·10
78			2687·27	13:31	66·54	·03	·73	1·11
79			2687·34	13:34	66·51	·10	·80	1·18
Δ 8000E			2687·34	13:38	66·67	0·14	·84	1·21
Δ 6000E			2686·51	13:51	67·83			

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE BHP. Co Ltd.
AREA:
GRID: Lagoon Hill
LINE: 12000 N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste & Romb # G-35
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION: 00 s.d per hour.
AREA MAGNETIC VARIATION:

OPERATOR: P.C. RUNDLE
DATE: 15/05/79

Notes:

Δ 8000E = 4.41

	Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV		
							Δ_1	Δ_2	Δ_3
Δ	8000E			2687·35	14'03	66·67	0·13	0·83	1·21
	81			2687·40	14:07	66·64	0·18	0·88	1·25
	82			2687·53	14:11	66·50	0·28	0·98	1·36
	83			2687·61	14:15	66·50	0·36	1·07	1·45
	84			2687·78	14:19	66·23	0·48	1·19	1·57
	8500E			2687·86	14:23	66·44	0·61	1·32	1·70
	86			2688·00	14:28	66·27	0·72	1·43	1·81
	87			2688·17	14'32	66·01	0·84	1·55	1·94
	88			2688·27	14:35	66·01	0·94	1·66	2·04
	89			2688·24	14'38	66·24	0·96	1·67	2·05
	9000E			2688·22	14:42	65·91	0·87	1·58	1·97
	91			2688·15	14:47	66·04	0·82	1·54	1·92
	92			2688·08	14:50	65·86	0·71	1·43	1·81
	93			2688·03	14'53	65·93	0·67	1·39	1·77
	94			2687·95	14'57	66·03	0·61	1·32	1·71
	9500E			2687·88	15:02	66·06	0·55	1·26	1·64
	96			2687·93	15:05	65·84	0·55	1·26	1·65
	97			2687·91	15:08	65·85	0·53	1·25	1·63
	98			2687·84	15'12	66·03	0·50	1·21	1·59
	99			2687·84	15:15	65·96	0·48	1·20	1·58
	10000E			2687·84	15'19	65·85	0·46	1·17	1·56
Δ	10100E			2687·85	15:23	65·76	0·45	1·16	1·55
Δ	8000E			2687·35	15·33	66·67	0·13	0·83	1·21

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE BHP CO LTD
AREA: LAGOON HILL
GRID:
LINE: 16000 E
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LACOSTE 935
METER CALIBRATION:
BOUGUER DENSITY:
DRIFT CORRECTION: -.02 s.d per hour
AREA MAGNETIC VARIATION:

OPERATOR: C Coleman
DATE: 19/1/73

Notes: -

Δ_0 = 4.84

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV 496		
						Δ_1	Δ_2	Δ_3
00E			2686.96	11 38	69.75	2.29	2.93	3.27
100			68 680	11 45	69.59	2.09	2.72	3.07
200			68 670	11.49	69.70	2.00	2.64	2.98
300			686 60	11.53	69.54	1.86	2.50	2.84
400			686.51	11.56	69.49	1.75	2.39	2.74
500			68642	12.00	69.39	1.64	2.28	2.62
600			686.29	12 04	69.31	1.48	2.12	2.47
700			68613	12.08	69.07	1.26	1.90	2.25
800			685.83	12.13	69.23	0.98	1.62	1.97
900			685.56	12.17	69.24	0.70	1.34	1.69
1000			685 22	12 22	69.32	0.36	1.00	1.35
11			68484	12.32	69.21	-0.07	0.57	0.92
1200E			684 50	12 35	69.15	-0.44	0.20	0.55
13			684 21	12 38	68.88	-0.81	-0.16	0.20
14			68381	12 43	68.89	-1.23	-0.57	-0.22
15			68343	12 46	69.02	-1.59	-0.95	-0.60
16			68333	12 50	68.59	-1.80	-1.14	-0.79
17			683.04	12 54	68.64	-2.09	-1.44	-1.08
18			682 89	12.57	68.53	-2.28	-1.62	-1.26
19			682.72	13.01	68.41	-2.48	-1.82	-1.46
2000			682.49	13.05	68.50	-2.70	-2.04	-1.69
00E			2687.00	13.16	69.75	2.29	2.93	3.27

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE BHP Co Pty Ltd.
AREA: WIRRIWA
GRID: Lagoon Hill
LINE: 15000N
LINE MAGNETIC BRG:
BASE STATION: 26000N / 13000E (Brinkley Springs Grid).
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN: 100m
BASE LATITUDE:
METER: LaCoste + Romb. # G505
METER CALIBRATION: per chart.
BOUGUER DENSITY: 1·9, 2·2, 2·67 · gms/cc
DRIFT CORRECTION: -·03 s.d per hour.
AREA MAGNETIC VARIATION:

OPERATOR: B.RAU
DATE: 20/05/79.

Notes:

$\Delta_{2000} = 9.54$

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV		
						Δ_1	Δ_2	Δ_3
						-2·70	-2·04	-1·69
Δ 2000 E			2703·93	13:03	68·50	~~7·07~~	~~7·73~~	~~8·08~~
21			2703·82	13:06	68·19	-2·89	-2·22	-1·86
22			2703·65	13:09	68·13	-3·08	-2·41	-2·05
23			2703·51	13:12	68·11	-3·23	-2·56	-2·20
24			2703·42	13:15	67·95	-3·36	-2·69	-2·32
2500E			2703·21	13:18	68·04	-3·55	-2·88	-2·52
26			2703·23	13:22	67·67	-3·62	-2·94	-2·58
27			2703·16	13:24	67·69	-3·69	-3·01	-2·64
28			2703·04	13:28	67·58	-3·84	-3·16	-2·79
29			2702·95	13:31	67·68	-3·91	-3·23	-2·87
3000E			2702·86	13:34	67·60	-4·02	-3·34	-2·97
31			2702·79	13:37	67·64	-4·08	-3·41	-3·04
32			2702·72	13:41	67·61	-4·16	-3·49	-3·12
33			2702·65	13:43	67·58	-4·24	-3·56	-3·20
34			2702·59	13:47	67·58	-4·31	-3·63	-3·26
3500E			2702·51	13:50	67·48	-4·41	-3·73	-3·36
36			2702·44	13:52	67·62	-4·45	-3·78	-3·41
37			2702·60	13:55	67·38	-4·35	-3·66	-3·29
38			2702·75	13:58	66·61	-4·37	-3·67	-3·29
39			2702·79	14:02	66·48	-4·36	-3·66	-3·28
4000E			2702·74	14:05	66·59	-4·39	-3·69	-3·31
Δ 2000 E			2703·97	14:25	68·50	-2·70	-2·04	-1·69

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE BHP CO LTD

AREA:

GRID: Lagoon Hill

LINE: 15000 N

LINE MAGNETIC BRG:

BASE STATION:

BASE NOMINAL GRAV:

BASE NOMINAL ELEVN:

BASE LATITUDE:

METER: LaCoste + Romb. #C 56

METER CALIBRATION: per cert.

BOUGUER DENSITY:

DRIFT CORRECTION: .04 s.d per hour.

AREA MAGNETIC VARIATION:

OPERATOR: P.C RUNDLE

DATE: 19/05/79

Notes:

Δ1000 = 2.82

	Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV. ρ_1	ρ_2	ρ_3
Δ	1000 N			2688·99	14 45	70.19	4·50	5·13	5·47
	9			2688·81	14 48	70.25	4·33	4·96	5·29
	8			2688·68	14 52	70.02	4·15	4·77	5·11
	7			2688·49	14 55	69·99	3·94	4·57	4·91
	6			2688·22	15:00	70.10	3·69	4·32	4·65
	0500N			2688·02	15 04	70.04	3·47	4·10	4·44
	4			2687·76	15:07	69.96	3·18	3·81	4·15
	3			2687·48	15 11	69·95	2.89	3·52	3.86
	2			2687·30	15 14	69.77	2·66	3·29	3.64
	1			2687·12	15 18	69.68	2.46	3·09	3.43
Δ	000			2686·95	15 24	69.75	230	2·93	3.27
Δ	1000			2688·96	15 32	70·19	4·50	5·13	5·47

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE BHP COLTD

AREA:

GRID: Laupan Hill

LINE: 15000N

LINE MAGNETIC BRG:

BASE STATION: Blood 3

BASE NOMINAL GRAV:

BASE NOMINAL ELEVN:

BASE LATITUDE:

METER: LaCoste + Romb #G-35

METER CALIBRATION: per chart

BOUGUER DENSITY:

DRIFT CORRECTION: -.01 s.d per hour.

AREA MAGNETIC VARIATION:

OPERATOR: P.C. RUNDLE

DATE: 19/05/79

Notes:

Δ 3000 = 2.34

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV Δ_1	Δ_2	Δ_3
Δ 3000W			2689·47	12'47	71.77	5·37	5·96	6·28
29			2689·50	12'56	71.65	5·37	5·97	6·29
28			2689·44	13'00	71.59	5·29	5·89	6·21
27			2689·44	13·03	71.39	5·25	5·85	6·17
26			2689·48	13'07	71.28	5·26	5·87	6·19
2500W			2689·45	13'11	71.18	5·21	5·81	6·14
24			2689·49	13:15	71.14	5·24	5·85	6·17
23			2689·56	13'18	71.09	5·30	5·91	6·24
22			2689·65	13'22	71.06	5·39	6·00	6·32
21			2689·69	13'26	70.96	5·41	6·02	6·35
2000W			2689·52	13'30	70.98	5·24	5·84	6·17
19			2689·34	13·33	70.98	5·05	5·66	5·98
18			2689·30	13·53	70.80	4·96	5·57	5·90
17			2689·27	13·57	70.75	4·92	5·53	5·86
16			2689·33	14·01	70.60	4·95	5·56	5·90
1500W			2689·33	14·05	70.58	4·94	5·56	5·89
14			2689·31	14·09	70.48	4·90	5·52	5·85
13			2689·23	14·13	70.41	4·80	5·42	5·75
12			2689·10	14·17	70.32	4·64	5·26	5·60
11			2689·07	14·20	70.33	4·61	5·23	5·57
Δ 1000W			2688·99	14·24	70.19	4·50	5·12	5·46
Δ 3000W			2689·48	14'34	71.77			

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY

CLIENT: THE BHP CO LTD
AREA:
GRID: Grayson 2
LINE: 15000 N
LINE MAGNETIC BRG:
BASE STATION:
BASE NOMINAL GRAV:
BASE NOMINAL ELEVN:
BASE LATITUDE:
METER: LaCoste + Romb G 33
METER CALIBRATION: per chart.
BOUGUER DENSITY:
DRIFT CORRECTION: 0·01 SD / ph.
AREA MAGNETIC VARIATION:

OPERATOR: P. C. RUNDLE
DATE: 19/05/79

Notes:

Δ 3000 = 2·34

Station			Obs. Grav. s./divs.	Time	Elevn.	BOUGUER GRAV. Δ_1	Δ_2	Δ_3
3000W			2689·49	11 20	71.77	5·37	5·96	6·28
31			2689·52	11.26	71.83	5·42	6·01	6·32
32			2689·60	11·30	71.77	5·49	6·08	6·40
33			2689·66	11·33	71.77	5·55	6·14	6·46
34			2689·67	11·37	71.84	5·58	6·17	6·49
3500W			2689·61	11·42	71.93	5·54	6·12	6·44
36			2689·54	11·46	71.99	5·48	6·06	6·38
37			2689·44	11·50	72·06	5·39	5·98	6·29
38			2689·34	11·53	72·12	5·30	5·88	6·20
39			2689·23	11·57	72·24	5·21	5·79	6·11
4000W			2689·07	12·02	72·27	5·05	5·64	5·95
41			2688·95	12·05	72·39	4·96	5·54	5·85
42			2688·90	12·08	72·31	4·89	5·47	5·78
43			2688·80	12·12	72·41	4·81	5·38	5·70
44			2688·71	12·15	72·43	4·72	5·30	5·61
4500W			2688·67	12·20	72·53	4·70	5·28	5·59
46			2688·65	12·24	72·56	4·69	5·26	5·57
47			2688·61	12·28	72·61	4·66	5·23	5·54
48			2688·60	12·31	72·73	4·67	5·25	5·55
49			2688·57	12·34	72·78	4·66	5·23	5·53
5000W			2688·57	12·38	72·94	4·69	5·26	5·57
3000W			2629·47	12.47	71·77	5·37	5·96	6·28

3754-18

SOLO GEOPHYSICS AND CO.

MAGNETOMETER SURVEY

CLIENT THE BHP CO LTD

AREA E.L 369 LAKE EYRE WEST

GRID LAGOON HILL

LINE BASELINE-1 BRG 14/194°

METER SCINTREX MP-2 PROTON

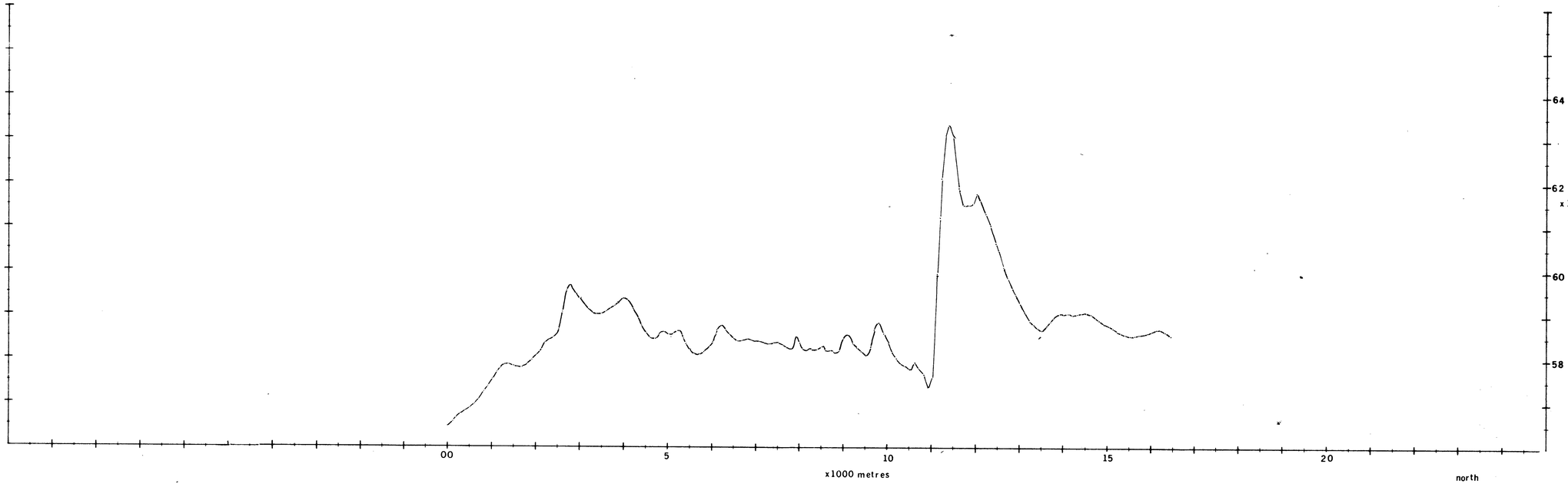
CALIBRATION

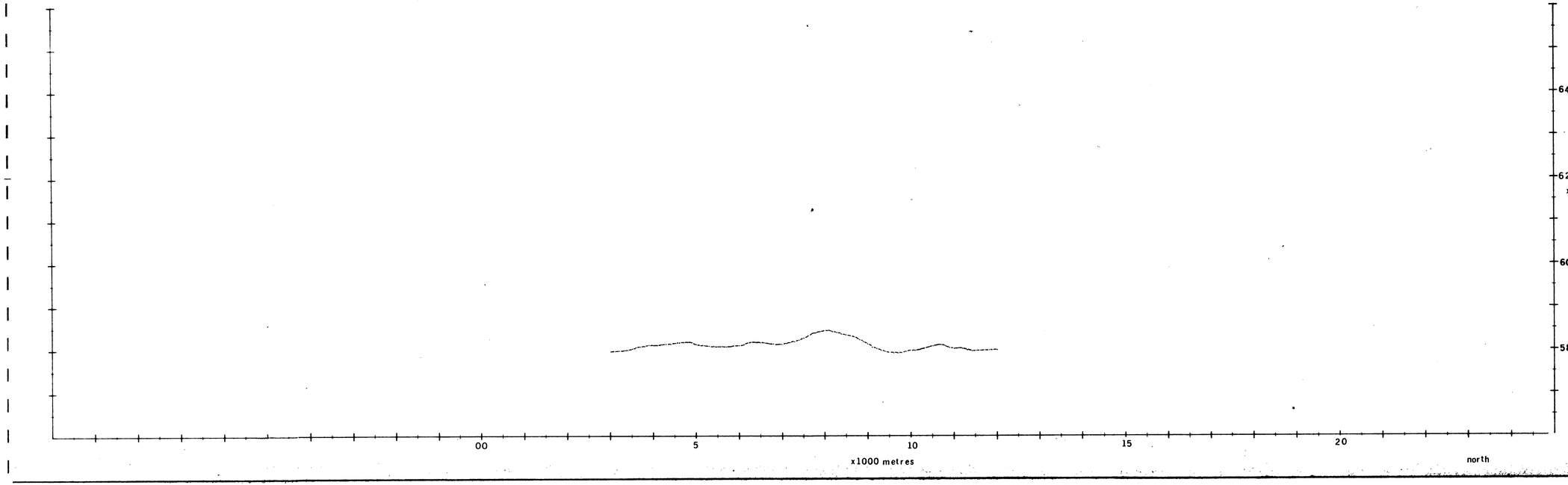
DATA SCALE 1:50000

SURVEYORS B.RAU PR CC

DATE OF SURVEY MARCH/APRIL 1979

PLOTTED BY PR





SOLO GEOPHYSICS AND CO.

3764-19

MAGNETOMETER SURVEY

CLIENT THE BHP CO LTD

AREA E.L 369 LAKE EYRE WEST

GRID LAGOON HILL

LINE BASELINE-2 BRG 14/194

METER SCINTREX MP-2 PROTON

CALIBRATION

DATA SCALE 1:50000

SURVEYORS B.RAU PR CC

DATE OF SURVEY MARCH/APRIL 1979

PLOTTED BY PR

3754-20

SOLO GEOPHYSICS AND CO.

MAGNETOMETER SURVEY

CLIENT THE BHP CO LTD

AREA E.L 369 LAKE EYRE WEST

GRID LAGOON HILL

LINE 3000N BRG 84/264

METER SCINTREX MP-2 PROTON

CALIBRATION

DATA SCALE 1:50000

SURVEYORS B.RAU PR CC

DATE OF SURVEY MARCH/APRIL 1979

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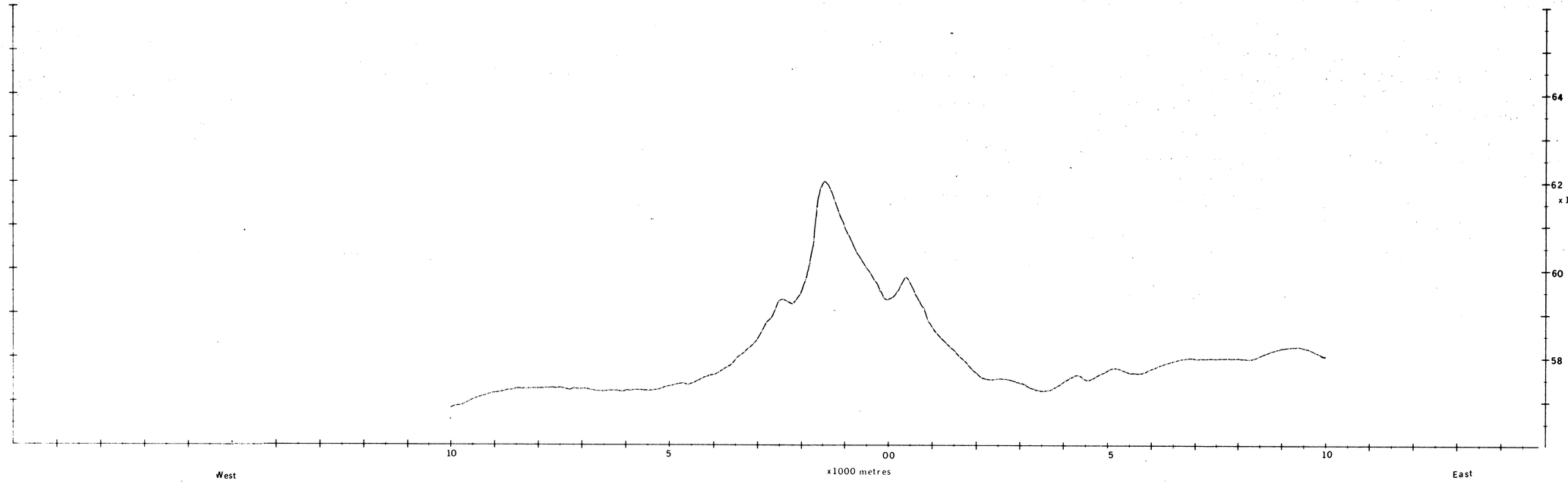

5754-21

SOLO GEOPHYSICS AND CO.

MAGNETOMETER SURVEY

CLIENT THE BHP CO LTD

AREA E.L 369 LAKE EYRE WEST

GRID LAGOON HILL

LINE 6000N BRG 84/264°

METER SCINTREX MP-2 PROTON

CALIBRATION

DATA SCALE 1:50000

SURVEYORS B.RAU PR CC

DATE OF SURVEY MARCH/APRIL 1979

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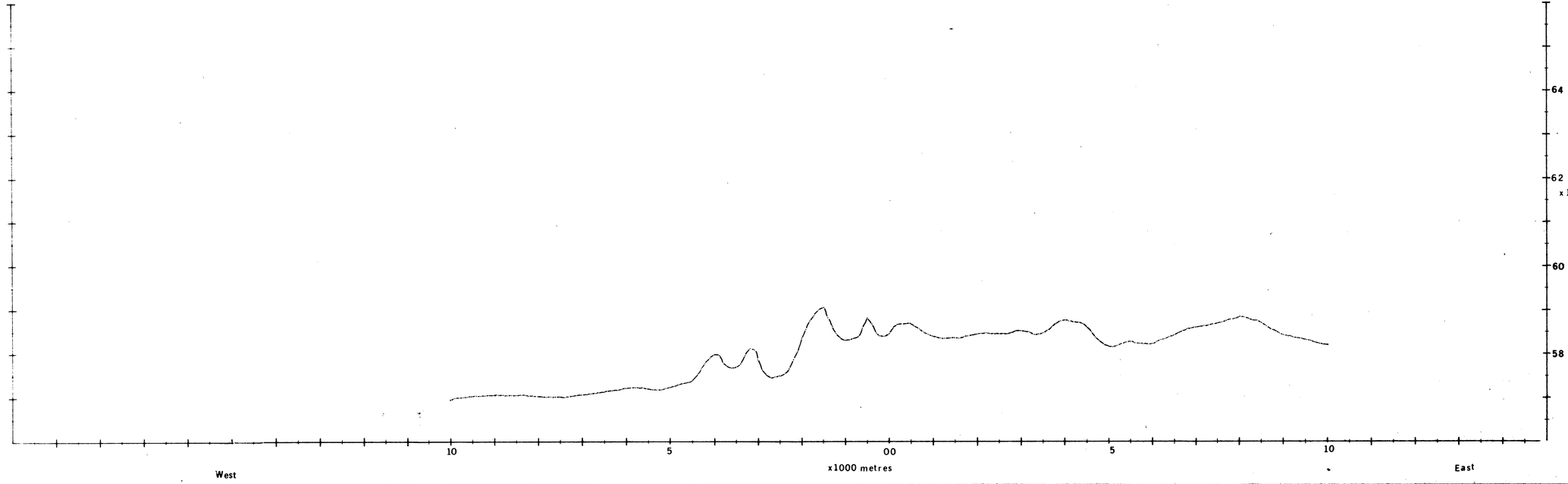

3754-22

SOLO GEOPHYSICS

MAGNETOMETER SURVEY

CLIENT THE BHP CO LTD

AREA E.L 369 LAKE EYRE WEST

GRID LAGOON HILL

LINE 9000N BRG 84/264

METER SCINTREX MP-2 PROTON

CALIBRATION

DATA SCALE 1:50000

SURVEYORS B.RAU PR CC

DATE OF SURVEY MARCH/APRIL 1979

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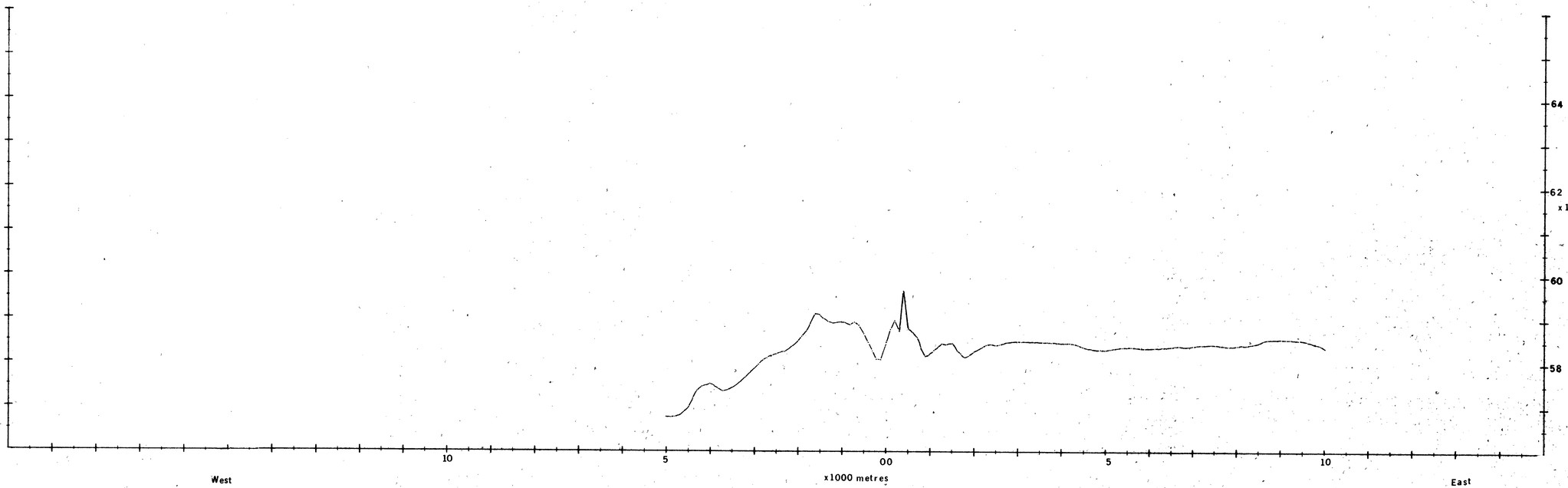

3754-23

SOLO GEOPHYSICS AND CO.

MAGNETOMETER SURVEY

CLIENT THE BHP CO LTD

AREA E.L 369 LAKE EYRE WEST

GRID LAGOON HILL

LINE 12000N BRG 84/264

METER SCINTREX MP-2 PROTON

CALIBRATION

DATA SCALE 1:50000

SURVEYORS B.RAU PR CC

DATE OF SURVEY MARCH/APRIL 1979

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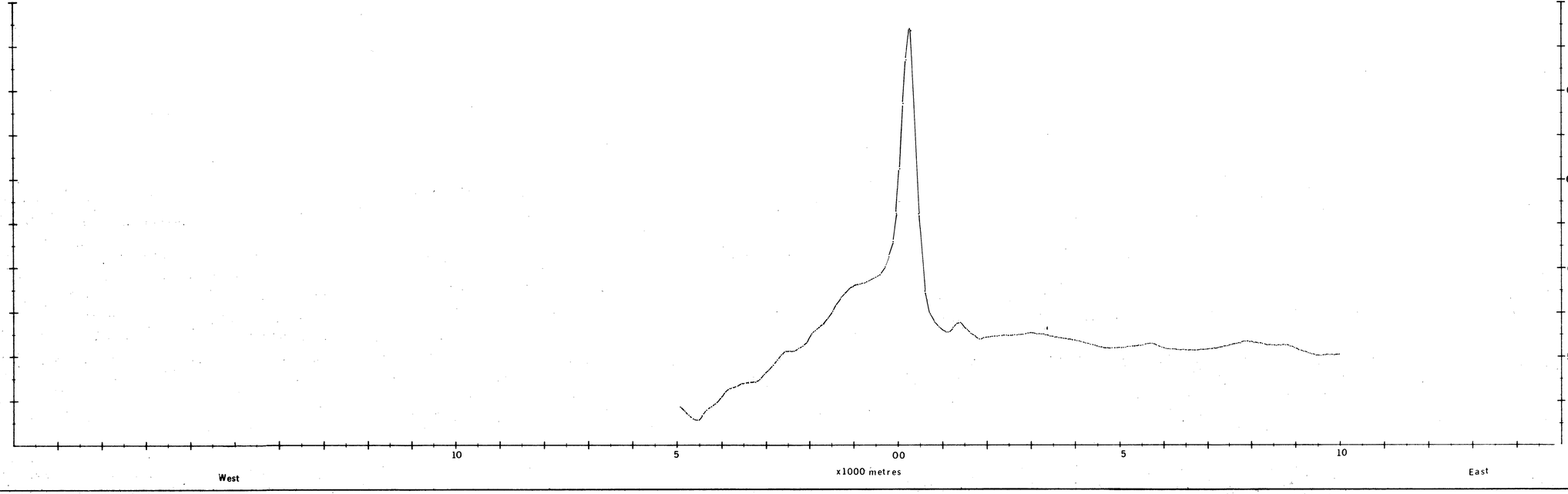

3754-24

SOLO GEOPHYSICS AND CO.

MAGNETOMETER SURVEY

CLIENT THE BHP CO LTD

AREA E.L 369 LAKE EYRE WEST

GRID LAGOON HILL

LINE 15000N BRG 84/264

METER SCINTREX MP-2 PROTON

CALIBRATION

DATA SCALE 1:50000

SURVEYORS B.RAU PR CC

DATE OF SURVEY MARCH/APRIL 1979

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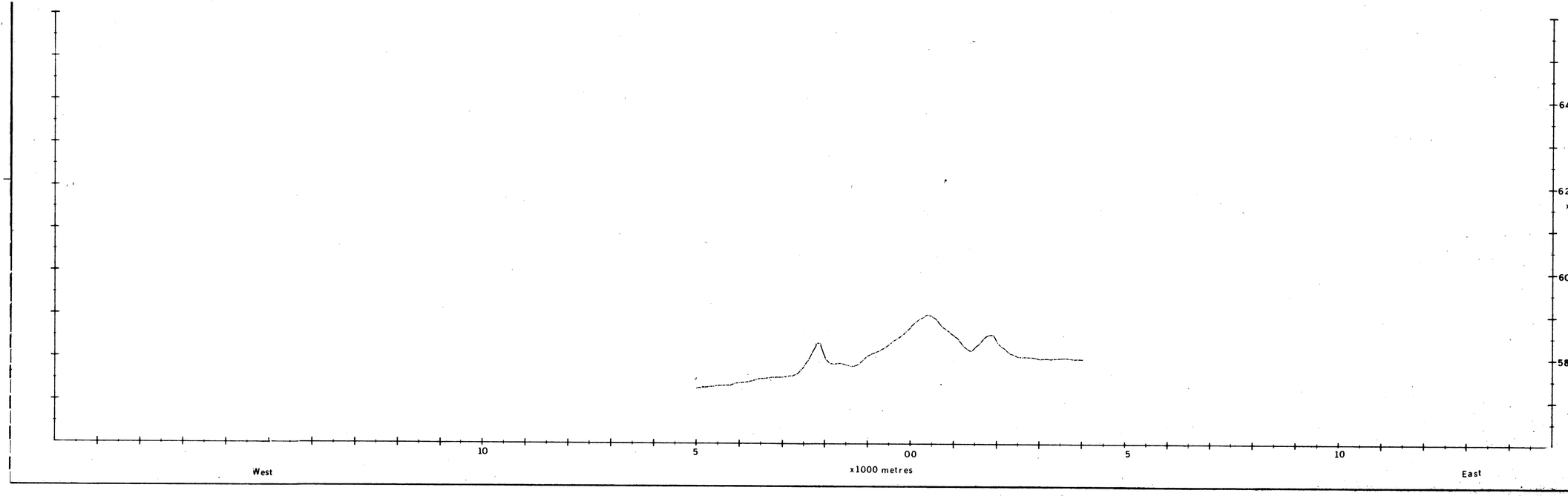
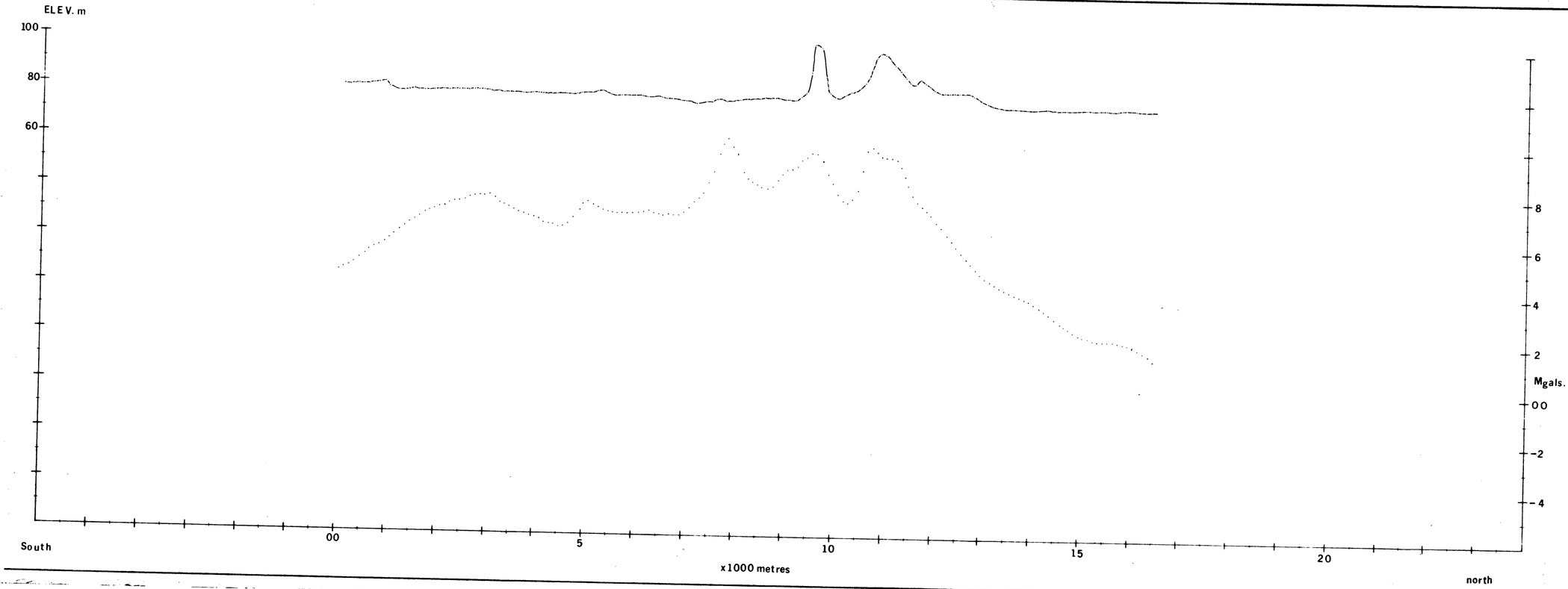




3754-25

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY WITH LEVELLING

CLIENT THE BHP CO LTD

AREA E.L 369 LAKE EYRE WEST

GRID LAGOON HILL

LINE BASELINE-1 BRG 14/194°

GRAVITY METER LA COSTE

CALIBRATION PER CHART

DATA SCALE 1:50000

SURVEYORS BR PR CC

DATE OF SURVEY MARCH/APRIL 1979

PLOTTED BY PR

DENSITY 1·9 gms/cc.

3754-26

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY WITH LEVELLING

CLIENT THE BHP CO LTD

AREA E.L. 369 LAKE EYRE WEST

GRID LAGOON HILL

LINE BASELINE-2 BRG 14/194°

GRAVITY METER LA COSTE

CALIBRATION PER CHART

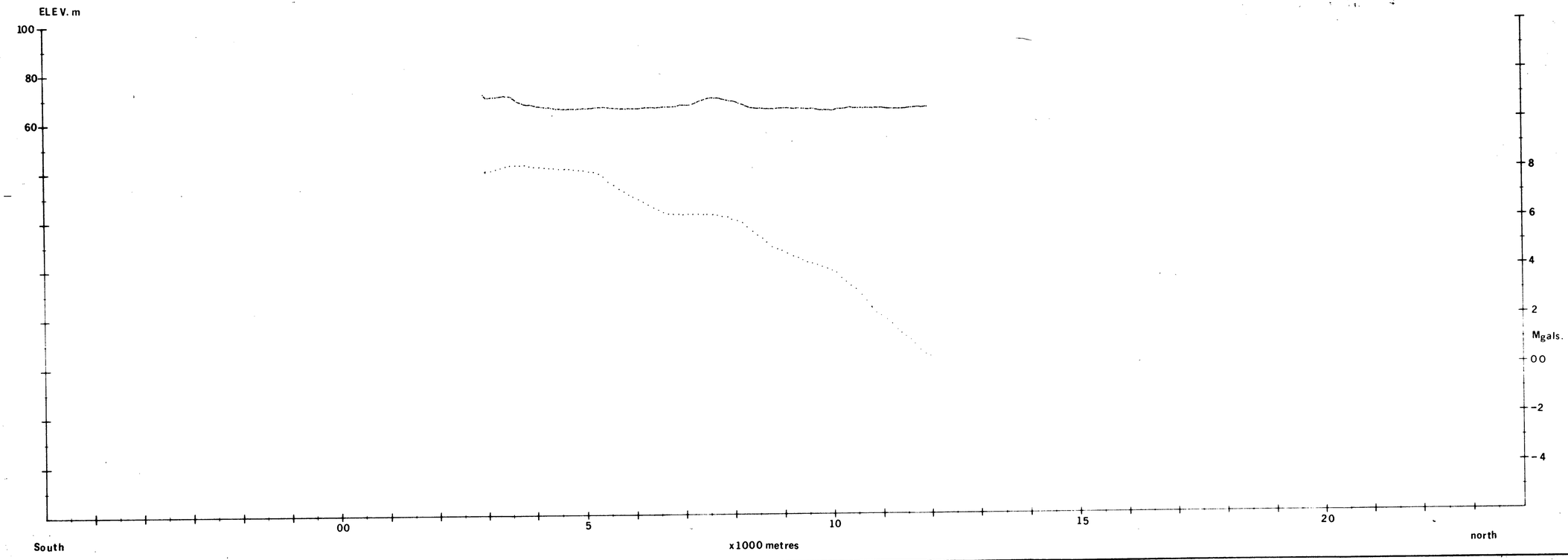
DATA SCALE 1:50000

SURVEYORS BR PR CC

DATE OF SURVEY MARCH/APRIL 1979

PLOTTED BY PR

DENSITY 1·9 gms/cc.



3754-27

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY WITH LEVELLING

CLIENT THE BHP CO LTD

AREA E.L 369 LAKE EYRE WEST

GRID LAGOON HILL

LINE 3000N BRG 84/264

GRAVITY METER LA COSTE

CALIBRATION PER CHART

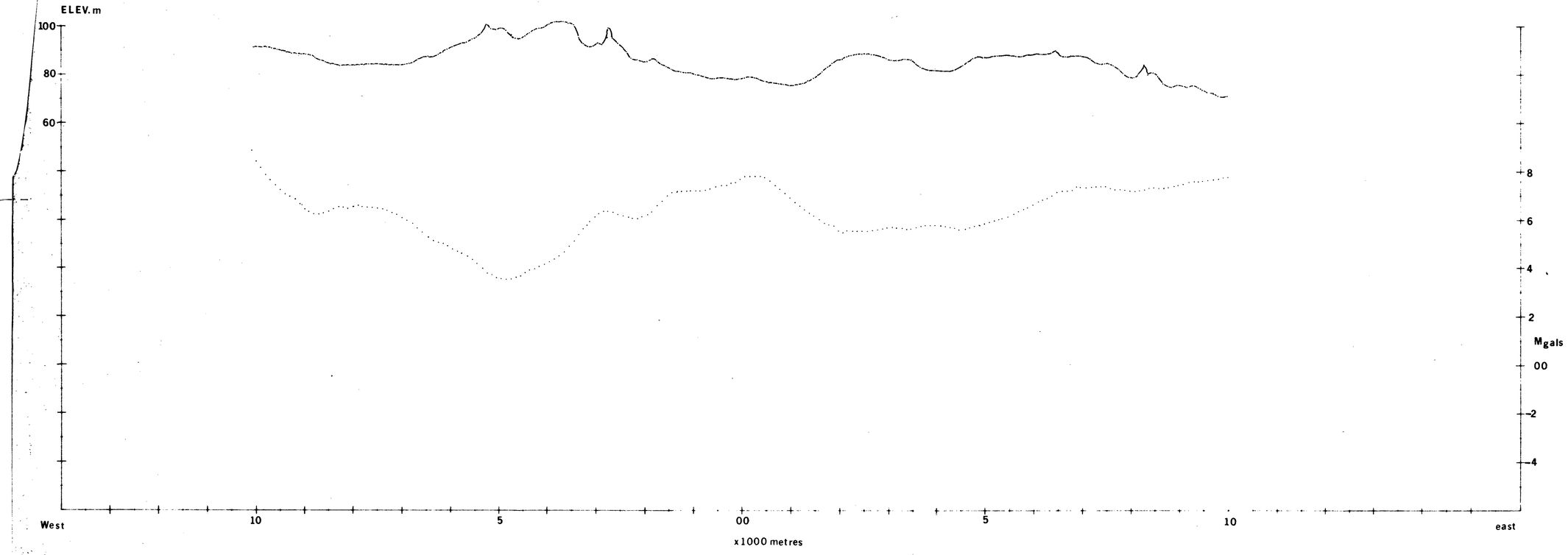
DATA SCALE 1:50000

SURVEYORS BR PR CC

DATE OF SURVEY MARCH/APRIL 1979

PLOTTED BY PR

BOUGER DENSITY 1.9 gms/cc



3754-28

SOLO GEOPHYSICAL MINING CO.

GRAVITY SURVEY WITH LEVELLING

CLIENT THE BHP CO LTD

AREA E.L 369 LAKE EYRE WEST

GRID LAGOON HILL

LINE 6000N BRG 84/264

GRAVITY METER LA COSTE

CALIBRATION PER CHART

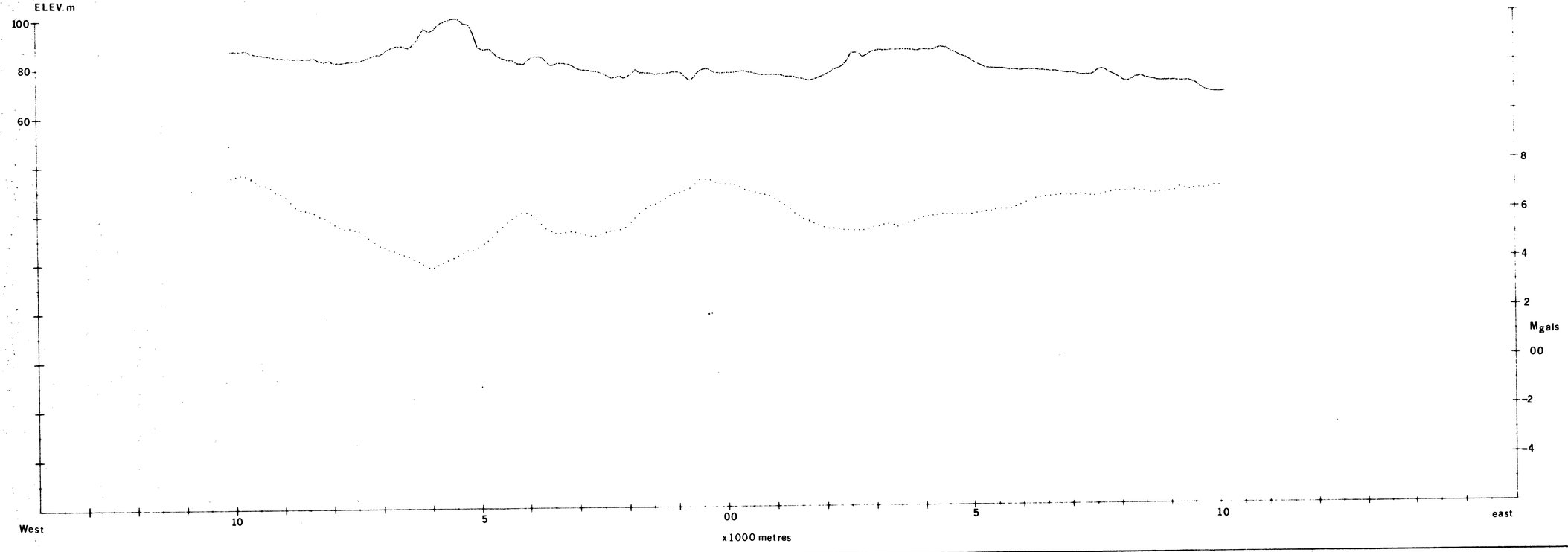
DATA SCALE 1:50000

SURVEYORS BR PR CC

DATE OF SURVEY MARCH/APRIL 1979

PLOTTED BY PR

BOUGER DENSITY 1·9 gms/cc



3754 - 29

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY WITH LEVELLING

CLIENT THE BHP CO LTD

AREA E.L 369 LAKE EYRE WEST

GRID LAGOON HILL

LINE 9000N BRG 84/264

GRAVITY METER LA COSTE

CALIBRATION PER CHART

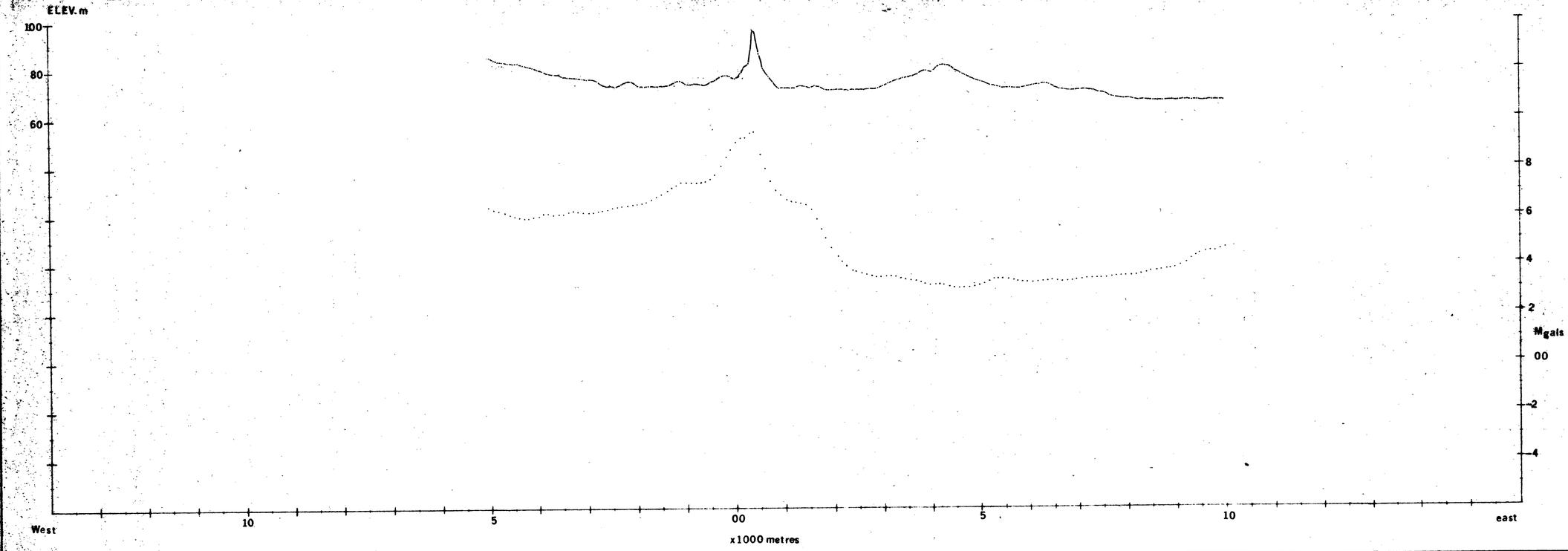
DATA SCALE 1:50000

SURVEYORS BR PR CC

DATE OF SURVEY MARCH/APRIL 1979

PLOTTED BY PR

BOUGER DENSITY 1·9 gms/cc



3754-30

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY WITH LEVELLING

CLIENT THE BHP CO LTD

AREA E.L. 369 LAKE EYRE WEST

GRID LAGOON HILL

LINE 12000N BRG 84/264

GRAVITY METER LA COSTE

CALIBRATION PER CHART

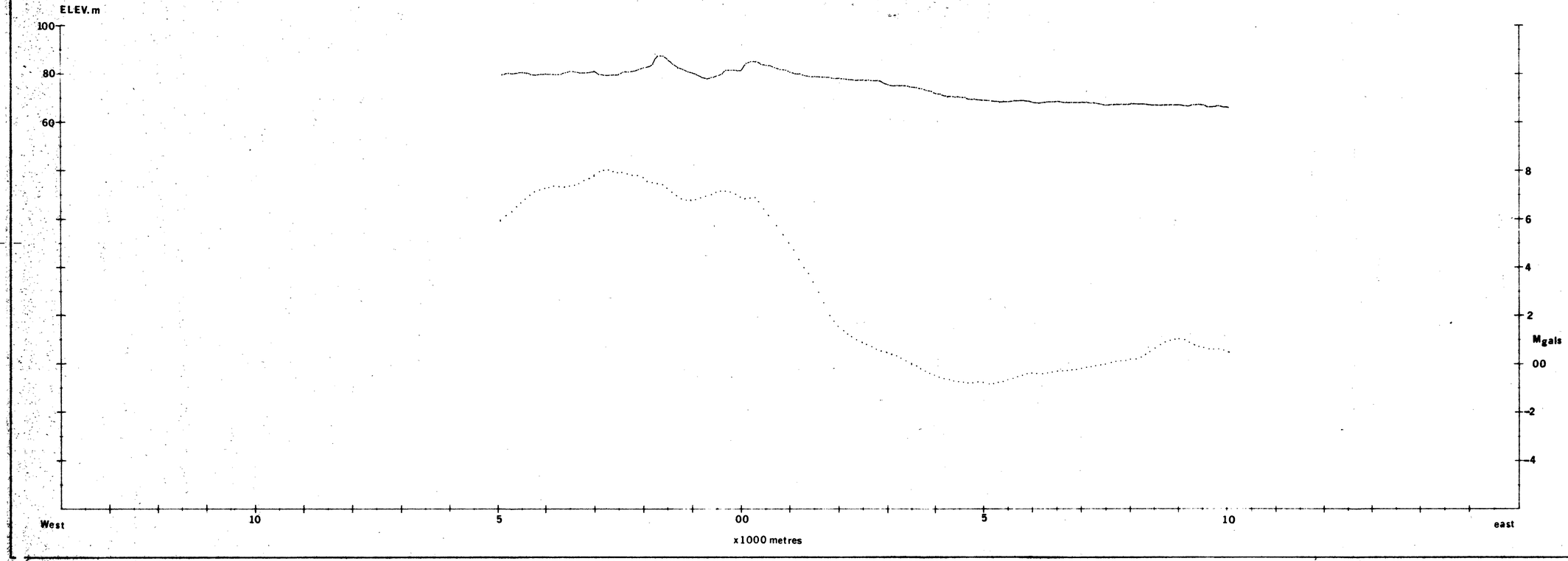
DATA SCALE 1:50000

SURVEYORS BR PR CC

DATE OF SURVEY MARCH/APRIL 1979

PLOTTED BY PR

BOUGER DENSITY 1·9 gms/cc



3754-31

SOLO GEOPHYSICS AND CO.

GRAVITY SURVEY WITH LEVELLING

CLIENT THE BHP CO LTD

AREA E.L 369 LAKE EYRE WEST

GRID LAGOON HILL

LINE 15000N BRG 84/264

GRAVITY METER LA COSTE

CALIBRATION PER CHART

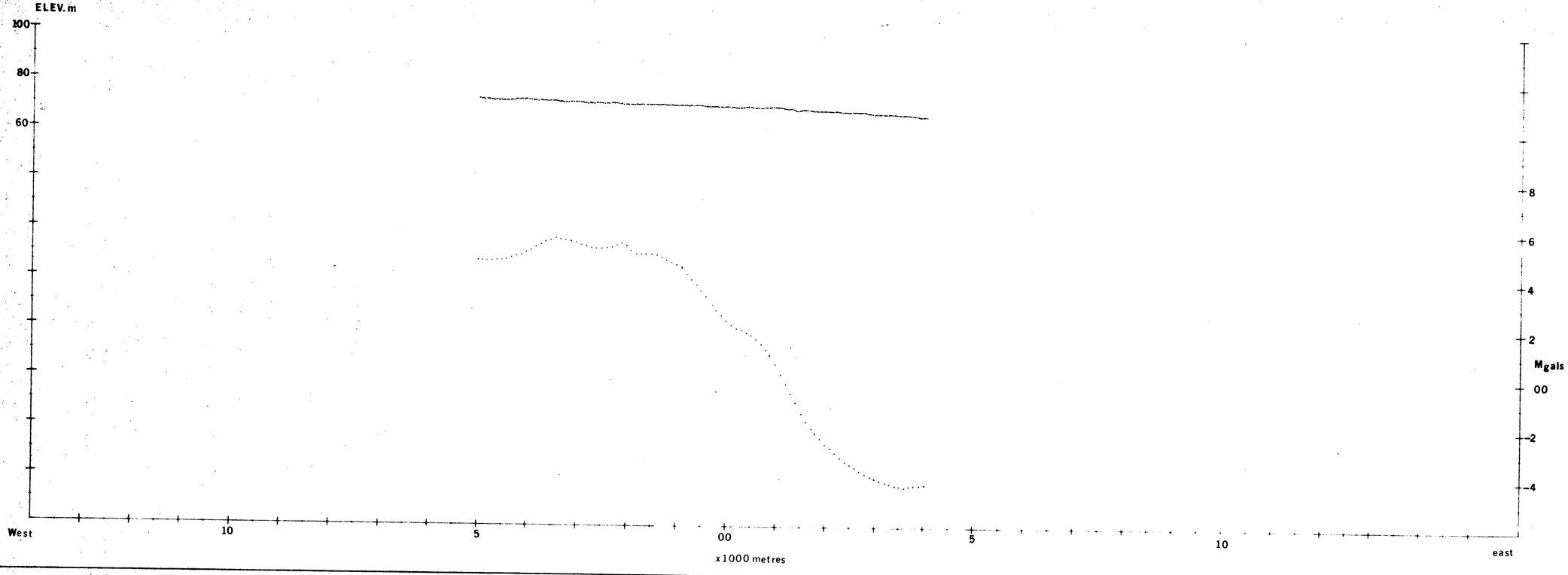
DATA SCALE 1:50000

SURVEYORS BR PR CC

DATE OF SURVEY MARCH/APRIL 1979

PLOTTED BY PR

BOUGER DENSITY 1·9 gms/cc



C.R. _____

501

Exploration Department

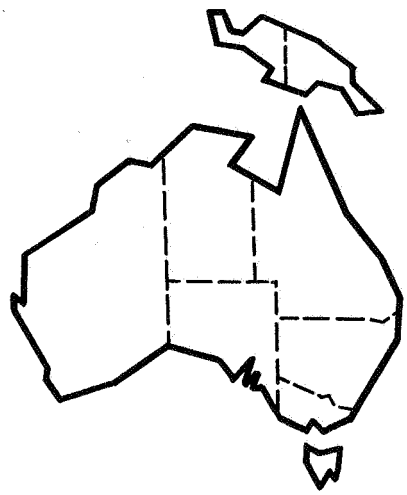
EXPLORATION LICENCE 583

WEST LAKE EYRE, SOUTH AUSTRALIA

REPORT FOR THE QUARTER

ENDED 25TH APRIL, 1980

RECEIVED
6 MAY 1980
DEPT. OF MINES AND ENERGY
SECURITY
3754



EXPLORATION LICENCE 583

WEST LAKE EYRE, SOUTH AUSTRALIA

REPORT FOR THE QUARTER ENDED 25TH APRIL, 1980

CONTENTS

1. GENERAL

2. FIELD INVESTIGATIONS

2.1 Drilling

3. OTHER INVESTIGATIONS

3.1 Petrology

3.2 Geochemistry

4. EXPENDITURE

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Figure 1 EL 583 West Lake Eyre Geological and Geophysical Summary Log WLE1A Drawing No. G-1.

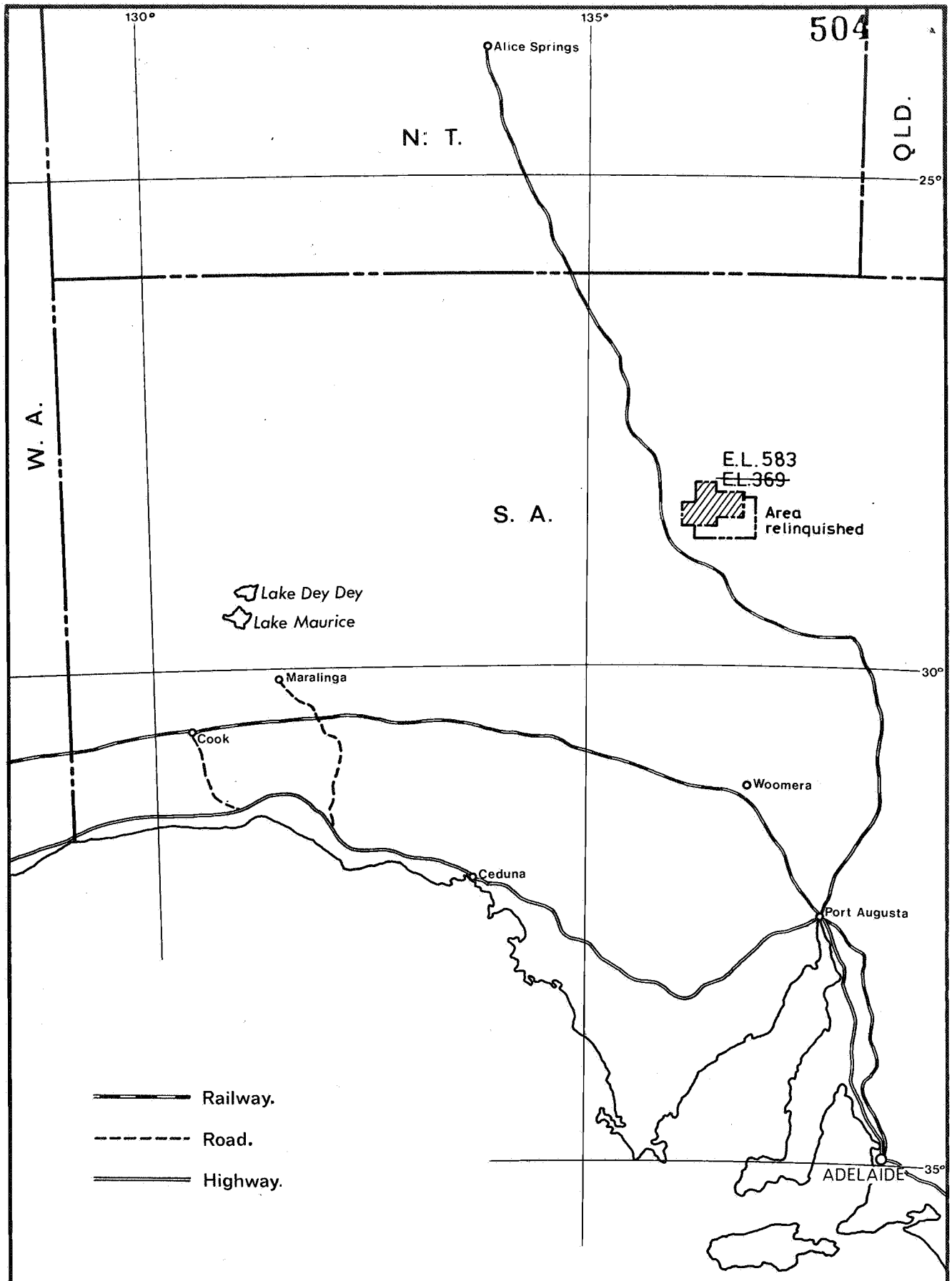
Figure 2 EL 583 West Lake Eyre Geological and Geophysical Summary Log WLE2 Drawing No. A1-53.

APPENDICES

Appendix 1 Detailed Geological Log of WLE2

Appendix 2 Petrology of Samples from WLE2 and WLE1A

Appendix 3 Spectrographic scan of 14 samples from WLE2.



Centre Melbourne	THE BROKEN HILL PROPRIETARY CO. LTD.	Project No.
Date 28-4-80 14·11·78	E.L.583 LOCATION MAP ~~E.L.369~~ WEST LAKE EYRE AREA, S.A.	Drawing No. A4·1913

EXPLORATION LICENCE 583

WEST LAKE EYRE, SOUTH AUSTRALIA

REPORT FOR THE QUARTER ENDED 25TH APRIL, 1980

1. GENERAL

Exploration Licence 583 was granted to Dampier Mining Company Limited on 25th January, 1980, over the area previously held under Exploration Licence 369.

2. FIELD INVESTIGATIONS

2.1 Drilling

During the quarter, a Failing 1,500 rig contracted from the Department of Mines and Energy completed the following two drill holes

Hole No.	Depth (m)	Regional Co-ords	Local Co-ords
WLE1A	296.1	136°34'12", 28°21'24"	Umbum Creek Grid 8100N 2890E
WLE2	208.9	136°21'48", 28°31'24"	Brinkley Springs Grid 12270E 16040N

The Brinkley Springs Grid is shown on drawing A2-6, in the report for the quarter ended 30th July, 1979, and the Umbum Creek Grid is shown on drawing A1-1847 in the report for the quarter ended 30th July, 1978.

The geology and down hole geophysics from drillholes WLE1A and WLE2 are summarised on the accompanying drawings G-1 and A1-53. In addition a detailed log of WLE2 is given in Appendix 1.

The following drilling procedure was used. WLE2 was openhole drilled with heavy mud to 167 metres, then 3" black steel pipe casing was set and pressure cemented behind the casing. The hole was then NQ core drilled to 208.9 metres. Hole WLE1A was rotary drilled under a heavy mud weight to 295 metres, then a PQ core was run to 296.1 metres in the open hole without casing being set. Both holes were abandoned full of cement to seal the Artesian aquifer.

3. OTHER INVESTIGATIONS

3.1 Petrology

Petrological descriptions of eleven samples of metamorphic basement from WLE1A and WLE2 are in Appendix 2.

3.2 Geochemistry

Semi quantitative spectrographic analysis of 14 samples from the metamorphic basement in WLE2 was carried out by AMDEL. The results are in Appendix 3.

4. EXPENDITURE

Expenditure debited to E.L. 583 during November and December, 1979, and January and February, 1980 was as follows. Expenditure for March and April has not yet been consolidated.

Wages and Salaries	$4,938
Messing and Accommodation	495
Fares and Mobilisation	241
Consultants	159
Transport	2,055
Surveying/Aerial Photographs	38
Sample Analysis	111
Occupancy/Location Expenses	110
Tenement Fees, Licences etc	1,725
Other Items	252
	$10,124

Total expenditure on E.L. 583 (and E.L. 369) to 29th February, 1980 is $104,429.

This report is submitted to the Department of Mines and Energy as required by Condition 4 of Exploration Licence 583.

APPENDIX 1

DETAILED GEOLOGICAL LOG OF WLE2

DRILL LOG LEDGEND

QUARTZ	Q
FELDSPAR	F
CHLORITE	Chl.
AMPHIBOLE	Amph.
MAGNETITE	mag.
PYRITE	Py
RED SPOTS	×
FOSSIL WOOD	
BLEACHED	b
PEBBLES	
SANDSTONE	
SILTSTONE - MUDSTONE	
MAFIC AMPHIBOLITE	
PEGMATITE OR GRANITE	++
QF GNEISS	
UNCONFORMITY	
BRECCIATION	
FOLIATION	
DISSEMINATED	diss.
VEIN	
CORE LOSS	

THE BROKEN HILL PTY. CO. LTD. Project: West Lake Eyre. DRILL HOLE: WLE 2

Location: Brinkley Springs Grid. Coordinates, local: 1227OE 1604ON. Geographical: E. 136°21'48" S. 28°31'24"

Angle of depression: Vertical. Bearing (Mag.)

Drill Co.: D↑M↑E. Driller: R. Felby. Drill type: Failing 1500. Commenced: 24-11-79

Sheet 1 of 3. Logged by: M. BATTY. Completed: 14-12-79

Geology	Metres	Graph Log	Core Loss	Sed. struct.	Mineralisation	Sample No.	Analyses
Yellow clayey siltstone,	10						
Dark grey shale chips and mud.	20						
"	30						
"	40						
"	50						
" (Plus Pyrite)	60						
"	70						
"	80						
"	90						
" (N.B. Shale contains fine sand)	100						
"	110						
"	120						
"	130						
"	140						
"	150						
	152						
Sandstone and Shale chips.	160						
"	167						
	170						
Below 167m see core log.							

Notes:

3" steel casing set to 167m.

Sampling on screens.

Above 152m interpreted as Bulldog shale.

Below 152m as Algebuckina sandstone.

DRILL HOLE WLE 2.

Location. BRINKLEY SPRINGS GRID Coordinates, local. 12270E 1600N Geographical E. 136° 21' 48"
Angle of depression. VERTICAL Bearing (Mag.) S. 28° 31' 24"
Drill Co. D↑M↑E Driller. R. Feby Drill type. Failing 1500 Commenced. 24-11-79
Sheet 2 of 3 Logged by M. RAETZ Completed. 14-12-79

Geology	Metres	Graph Log	Core Loss	Mineralisation	Sample No.	Analyses
165						
SANDSTONE. Brown silicified mg. Dark carbonaceous patches + minor fossil wood fragments.	167.35 (167.40)					
CONGLOMERATE. Pebbles of rounded qtz. set in a siliceous matrix.						
SANDSTONE. Brown silicified minor carb.	168.00					
LOSS	170.00					
SAND. Clean unconsolidated, well rounded mg. qtz.	170.80					
SANDSTONE. Brown rounded cg. qtz. + grit. Silica matrix. Trace carb. + py.	171.25					
SANDSTONE. White friable mg. qtz. Brown sandstone, mg. silic matrix, fossil wood 4mm.	171.30 171.80 172.00					
MUDSTONE. Grey sandy, partly silicified.						
LOSS						
MUDDY SANDSTONE. Grey carbonaceous, micaceous fine-mg. sand, xb. and lenticular. Layers 1-5mm (S0 115°-100°) occasional. Thin 10mm grit and pebbles.	173.30					
SANDSTONE. White mg. sorted qtz. with occasional qtz. pebbles and grit bands. (S0 100°).	175.10					
SANDSTONE. Grey f-mg. qtz, cross laminar.	175.75					
CONGLOMERATE. Pebbles to 3cm. Fe Ox sand matrix. Pebbles of cg. qtz., hematite and gneiss. (S0 100°).	176.05					
SILICIFIED GNEISS? Chlorite veins.	176.5					
GNEISS. Bleached foliated. Brecciated as above, chloritic veins. (S1 160°). Upper contact indistinct and gradational.	176.9					
	178.3					
	178.5					
AMPHIBOLITE GNEISS. Green foliated felds pathic and chloritic. Brecciated with chlorite veins. (S1 160°).	180.25					
	181.00					
PEGMATITE. K-spar 40% qtz? 40% Amphibole, chlorite epidote 18%. Brown unidentified mineral 2%. Brecciated with mm qtz. chlorite veins.				PETROLOGY ONLY.	WLE 2 181.8.	
	182.3					Cu ppm P ppm Zn ppm Au ppm
AMPHIBOLITE. Green foliated, 45% plag. 50% amph, 5% chlorite, epidote, mag. qtz. felspar veins 1mm-10cm 10% with chlorite margin. Note. The most prominant foliation is termed S1, this is a layer parallel schistocity also parallel to cock type contact therefore probably also S0 (S1 155°).					WLE 183.5	100 <5 50 <0.05
	184.49					
3mm Calcite vein.						
PEGMATITE. Qtz. felds 80%, mafics, epidote and chlorite 20%.	187.3					
AMPHIBOLITE GNEISS. (S1 155°). 10% QF veins < 1cm thick.	188.45					
	190					

THE BROKEN HILL PTY. CO. LTD. Project. West Lake Eyre DRILL HOLE WLE 2

Location. BRINKLEY SPRINGS GRID Coordinates, local. 1270 E 1604·0 N Geographical E. 136°21'48"

Angle of depression. VERTICAL Bearing (Mag) S. 28°31'24"

Drill Co. D & M L E Driller. R. Foley Drill type. Failing 1500 Commenced. 24·11·79

Sheet 3 of 3 Logged by M. RAETZ Completed. 14·12·79

Geology	Metres	Graph Log	Core Loss	Mineralisation	Sample No.	Analyses Cu ppm	Pb ppm	Zn ppm	Au ppm
Amphibolite Gneiss	190								
As Above.					WLE2 191	25	<5	25	<0.05
Contact 185°	191.83								
QUARTZO FELDSPATHIC GNEISS: 60% Q, 40% F, 10% biotite, 10% mag. (SI 155°) expressed by biotite. Cp. trace as patches up to 5mm in late Q				cp. ± 0.5% mag. ± 10%	WLE2 192.5	70	<5	10	<0.05
Micro veinlets. Extremely hard drilling (SI 145°)					WLE2 193.3	45	<5	8	<0.05
					WLE2 193.6	810	<5	10	<0.05
				PETROLOGY SAMPLE	WLE2 193.9				
Chloritic fracture veins, "crackle type breccia" chlorite in veins 1-3mm. 195-198 approx. 10 per metre, and again 199·201m. (chl veins 170°-160°).				chl. fractures					
QF veins about 3/m av. 3mm wide; later than SI and at 201 one vague example of QF vein cutting chl fracture vein (SI 145)				193.6 cp + chl vein					
Note: Tentative Paragenesis.				199.0 cp + mag frac vein					
SI (mag) - Chl fracture vein - QF + cp veins rare. Most magnetite is early in SI.				200.4 cp + QF vein					
				201.0 cp + QF vein					
	200								
					WLE2 201.0	20	<5	5	<0.05
Contact parallel to SI 145°	202.3								
Gneiss as above with 10% red spots. 202.9-203.0 hematite, or garnets. Some look like hematite haloes around magnetite.	203.4			PETROLOGY ONLY.	WLE 2 202.9				
Gneiss + peg. Broken core, due to over coring.									
(SI 140°)									
QF peg. 1cm vein (160°).	206.2 / 206.8			206.05 cp spec in chl high angle fracture vein					
Chl. fracture vein below 201m. only about 3/m at 170-160°.									
Red spots 208-208.7									
End of hole 208.9					WLE2 208.7	40	<5	10	<0.05

Drilling Notes.

Extremely hard slow coring, maximum penetration achieved was 1·5m/hr. about 195-203m. Bits only last for about 1om. Drilling with 4000psi hydraulic plus weight of string. Revs maximum 200 per minute. Bit type longyear stepped.

APPENDIX 2

PETROLOGY OF SAMPLES FROM WLE2 AND WLE1A

REPORT CMS 79/12/40

DDH WLE 2 Core Samples

Ten drill-core samples were received for petrological descriptions; thin-sections and five polished sections were prepared.

Many of the rocks are quite similar and are described as a group; in fact, all of them form part of a medium-grade metamorphic sequence believed to be of sedimentary origin, regionally metamorphosed to the upper greenschist or amphibolite facies, but showing retrograde metamorphism. The mineralisation is thought to be related to this retrogressive, low-temperature hydrothermal phase.

WLE 2/181.8 m (T.S. 30530)

Taken in isolation, this rock might almost be considered as igneous, because of its fabric; however, in the context of the others, it is believed to be a coarsely-crystalline lens or band. The rock consists dominantly of coarse (up to 15 mm) albite with unusual interpenetrating twinning and radiating textures. There are coarse, euhedral crystals of largely altered, actinolitic hornblende, and granular to acicular crystals of epidote.

A late-stage, low-temperature, metasomatic phase has selectively replaced the amphibole; it consists of chlorite and carbonate. The epidote is incipiently chloritised.

WLE 2/183.5 m, 191 m (T.S. 30531, 30532)

These two intersections are very similar, differing only in the degree of alteration. Both are altered amphibolites.

The intersection at 191 m is less altered and thus more clearly defined. The evidence indicates that it was a simple amphibolite composed of stubby small crystals of hornblende and polygonal grains of oligoclase. Subsequent to metamorphism, much of the hornblende was replaced by green biotite and the plagioclase was partly replaced by fine zoisite-epidote. Fine magnetite is present, thought to have been released by the conversion of hornblende to biotite.

The intersection at 183.5 m shows more advance alteration, with abundant carbonate in addition to epidote and chlorite. Both rocks show preferred orientation and rather granular fabric. Whilst they are regarded as of sedimentary origin, this interpretation is somewhat tentative,because there is no clear evidence concernin-g origin; perhaps the nature of the contacts may be helpful.

WLE 2/192.5 m - 208.7 m (T.S. 30533 - 30539, P.S. 30533 - 30537)

This is a very uniform series of quartz-albite-magnetite microgneisses, of sedimentary origin, which can be assigned to the upper greenschist/lower amphibolite facies of regional metamorphism.

The rocks are of simple composition and fabric; they consist of only two major minerals, albite and quartz, as fairly evenly-distributed, small, polygonal to interlocking grains; there is minor compositional banding, and occasional lenses and pockets of coarser albite masses. Magnetite occurs as subparallel streaks, accentuating the general preferred orientation of the fabric. Minor or accessory minerals include white, cloudy sphene, shreds of green biotite and occasional epidote patches; not all of these minerals are present in all specimens.

There are crosscutting (i.e. post-metamorphic) veinlets of dolomite, quartz, epidote/chlorite, and biotite/magnetite, as well as sulphides (with associated dolomite, quartz, chlorite). Rare grains of detritally-rounded zircon support a sedimentary origin for this sequence. The strongly sodic composition may reflect a soda-rich sediment, perhaps containing sodic clays.

The polished sections show that the dominant sulphide is chalcopyrite, generally as veinlets ranging from 0.02 mm to 2 mm in width, traversing the rock at various angles to the fabric orientation. Traces of pyrite accompany the chalcopyrite, and occasional bornite is present (as an alteration-product). The chalcopyrite is discontinuous in the veins. The walls of some veins have sharp margins; however, others show intergrowths between chalcopyrite and host-rock minerals.

The genesis is clearly of a low-temperature hydrothermal type, possibly linked withthe alteration seen in the first three cores (181.8 m, 183.5 m, 191 m).

H.W. Fander, M. Sc.

CENTRAL MINERALOGICAL SERVICES PTY. LTD.

Date 6th March, 1980

SAMPLE REPORT (Mineralogy, Petrology, Ore Microscopy)

IDENTIFICATION
ADL 1604A
Quartz-Epidote Rock

Job No. CMS 80/2/23 Date Received: 28.2.1980

Reference Field Order No. A 33944

Sample No. ADL 1604

Nature of Sample: D.D. Core

DESCRIPTION **SECTION No.** 30995

a. Hand Specimen:

Dark, finely-crystalline rock.

b. Microscopic:

This is a quartz-epidote rock with minor chlorite, and resembles the "epidosites" and "epidiorites" which are generally related to basic igneous rocks; it may be a type of vein rather than an altered intrusive.

The rock consists of a mosaic of fairly coarse, interlocking quartz crystals, with numerous small, euhedral epidote crystals showing random distribution and orientation; chlorite forms small subradiating aggregates, and there are occasional patches of cloudy, semi-opaque sphene.

Relict textures are absent, and if the rock represents a (say) replaced dolerite, the process was very thorough, obliterating all evidence of the pre-existing rock; thus, it is more likely to be a vein or similar body.

This rock may be related to WLE/2 at 181.8 m in a general way.

H.W. FAnder, M. Sc.

APPENDIX 3

SPECTROGRAPHIC SCAN OF 14 SAMPLES FROM WLE2

REGION.....

PROJECT No.....

THE BROKEN HILL PROPRIETARY CO. LTD.

517

1	2	3	4	5	6	7	8	9	10	11	12	13
8	4	2										0

PUNCH IN EVERY CARD

ANALYSIS

| 14 | 0 | SAMPLE NUMBER | | | | | | | | | |

REGION NT & N.W. Arnhem Land

PROJECT No. EL369 FINAL REPORT

LINE/ZONE APPENDIX 4

THE BROKEN HILL PROPRIETARY CO. LTD.

1	2	3	4	5	6	7	8	9	10	11	12	13	14
8	3	5									1	0	2

PUNCH IN EVERY CARD

GENERAL SAMPLE DESCRIPTION

518

SAMPLE NUMBER			EASTING		NORTHING		REDUCED LEVEL OF SAMPLE	FOR CHANNEL SAMPLES Etc.			Information Available	Duplicate samples	ROCK TYPE	Sample type	SAMPLE DESCRIPTION
ALPHA PREFIX	NUMERICAL VALUE	Suf.	LONGITUDE MIN	LONGITUDE SEC. ●	LATITUDE MIN	LATITUDE SEC. ●		ORIENTATION BEARING	ORIENTATION DEP.	SAMPLE LENGTH					
15 16 17	18 19 20 21 22 23	24	25 26 27 28 29 30 31		32 33 34 35 36 37 38		39 40 41 42 43 44 45	46 47 48	49 50	51 52 53 54	55	56	57 58 59 60	61	

REMARKS –

Date.....

Logged or sampled by.....

Form No. 477

SHEET No 62360

JOB NO 2958/80 Semi-Quantitative Spectrographic Analysis Schemes A1,A2,A3,A4,A5,A7,A8 & A9 BATCH —

Results in ppm unless otherwise stated. Detection limits in brackets

	SAMPLE NO.	183.5	191.0	192.5	193.3	193.6	201.0	202.9
A1	Ba (200)	200	200	x	x	x	x	
	Be (1)	1	x	2	1	x	x	L
	Ce (300)	x	x	x	x	x	x	I
	Co (5)	100	30	15	10	x	x	S
	Cr (20)	100	100	40	30	30	40	T
	La (50)	x	x	50	x	50	x	E
	Mn (10)	500	400	150	100	80	250	D
	Mo (3)	x	x	x	x	x	x	
	Nb (20)	x	x	20	20	20	x	N
	Ni (5)	150	150	50	40	20	20	O
	Sc (5)	30	30	20	5	3	10	T
	Sr (50)	50	x	x	x	x	x	
	Ta (100)	x	x	x	x	x	x	R
	Th (100)	x	x	x	x	x	x	E
	Ti (100)	4000	3000	10000	6000	8000	8000	C
	V (10)	400	400	150	100	150	150	E
	W (50)	x	x	x	x	x	x	I
	Y (10)	60	20	20	20	40	30	V
	Yb (1)	8	1	8	5	15	10	E
	Zr (10)	80	60	400	300	300	500	D
A2	Ag (0.1)	x	x	0.1	x	0.1	0.1	
	As (50)	x	x	x	x	x	x	
	Bi (1)	x	x	x	x	x	x	
	Cd (5)	x	x	x	x	x	x	
	Cu (1)	100	40	150	100	700	50	
	Ga (1)	20	20	25	20	25	25	
	Ge (1)	x	x	x	x	x	x	

	SAMPLE NO.	183.5	191.0	192.5	193.3	193.6	201.0	202.9
A2 *	In (10)	x	x	x	x	x	x	L
	Pb (1)	10	3	8	5	8	40	I
	Sb (30)	x	x	x	x	x	x	S
	Sn (1)	1	1	1	x	1	1	T
	Zn (20)	50	x	x	x	x	x	E
								D
A3	Au (3)							
	P (100)							N
	Te (20)							O
	Tl (1)							T
A4	Li (1)							R
	Na (50)							E
								C
A5	Cs (30)							E
	K (5)							I
	Rb (10)							V
								E
								D
A8	B (3)							
A9	Al (100)							
	Ca (100)							
	Fe (100)							
	Mg (100)							
	Si (100)							

Results are semi-quantitative. Elements apparently present in concentrations of economic interest should be redetermined by an appropriate accurate analytical technique. X = Not detected at limit quoted

AMDEL ANALYTICAL SERVICE

JOB NO 2958/80 Semi-Quantitative Spectrographic Analysis Schemes A1, A2, A3, A4, A5, A7, A8 & A9 520 BATCH

Results in ppm unless otherwise stated. Detection limits in brackets

	SAMPLE NO.		208·7
*	A1	Ba (200)	X
		Be (1)	X
		Ce (300)	X
		Co (5)	10
		Cr (20)	100
		La (50)	X
		Mn (10)	100
		Mo (3)	X
		Nb (20)	X
		Ni (5)	80
		Sc (3)	5
		Sr (50)	X
		Ta (100)	X
		Th (100)	X
		Ti (100)	6000
		V (10)	80
		W (50)	X
		Y (10)	10
		Yb (1)	1
		Zr (10)	200
*	A2	Ag (0.1)	X
		As (50)	X
		Bi (1)	X
		Cd (3)	X
		Cu (1)	100
		Ga (1)	25
		Ge (1)	X

	SAMPLE NO.		208·7
	A2	In (10)	X
*		Pb (1)	3
		Sb (30)	X
		Sn (1)	X
		Zn (20)	X
	A3	Au (3)	
		P (100)	
		Te (20)	
		Tl (1)	
	A4	Li (1)	
		Na (50)	
	A5	Cs (30)	
		K (5)	
		Rb (10)	
	A8	B (3)	
	A9	Al (100)	
		Ca (100)	
		Fe (100)	
		Mg (100)	
		Si (100)	

Results are semi-quantitative. Elements apparently present in concentrations of economic interest should be redetermined by an appropriate accurate analytical technique. X = Not detected at limit quoted

THE BROKEN HILL PTY. CO. LTD.

FIG. 1

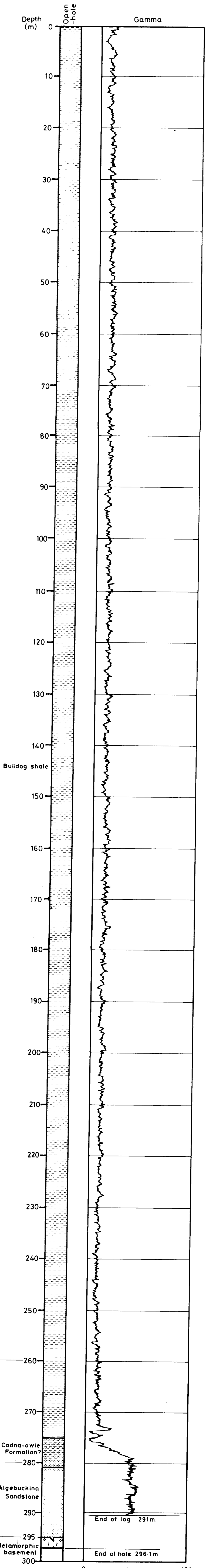
3764-32

AREA: E.L.583 WEST LAKE EYRE BORE: WLE 1A

LOCATION Lat. 28°21' 24", Long. 136°34' 12" (90m. E. of WLE 1, Umbum Creek Grid 8100 N., 2800 E.)

Type of Log	Gamma	Depth drilled	296·1 m.
Type of Logger	SIE T450E	Depth logged	291 m.
Probe	Gamma	Hole casing	None
Date	25-2-80	Mud type	

REMARKS Original log at 6 metres per minute at 100 c.p.s.
Chart recorded at 1cm. = 2m. T.C. = 2 secs.



LEGEND

Grey shale

Sandstone & shale

Quartz sandstone (Artesian Aquiver)

unconformity

Quartz Epidote gneiss

NOTES

Hole drilled by S.A.D.M.↑E. with a Failing 1500 Rig.

Centre Adelaide	THE BROKEN HILL PROPRIETARY CO. LTD. E.L. 583 WEST LAKE EYRE GEOLOGICAL & GEOPHYSICAL SUMMARY LOG WLE 1A	Project No. 6-B180-16
Date 2-4-80		Drawing No. G-1

FIG. 2

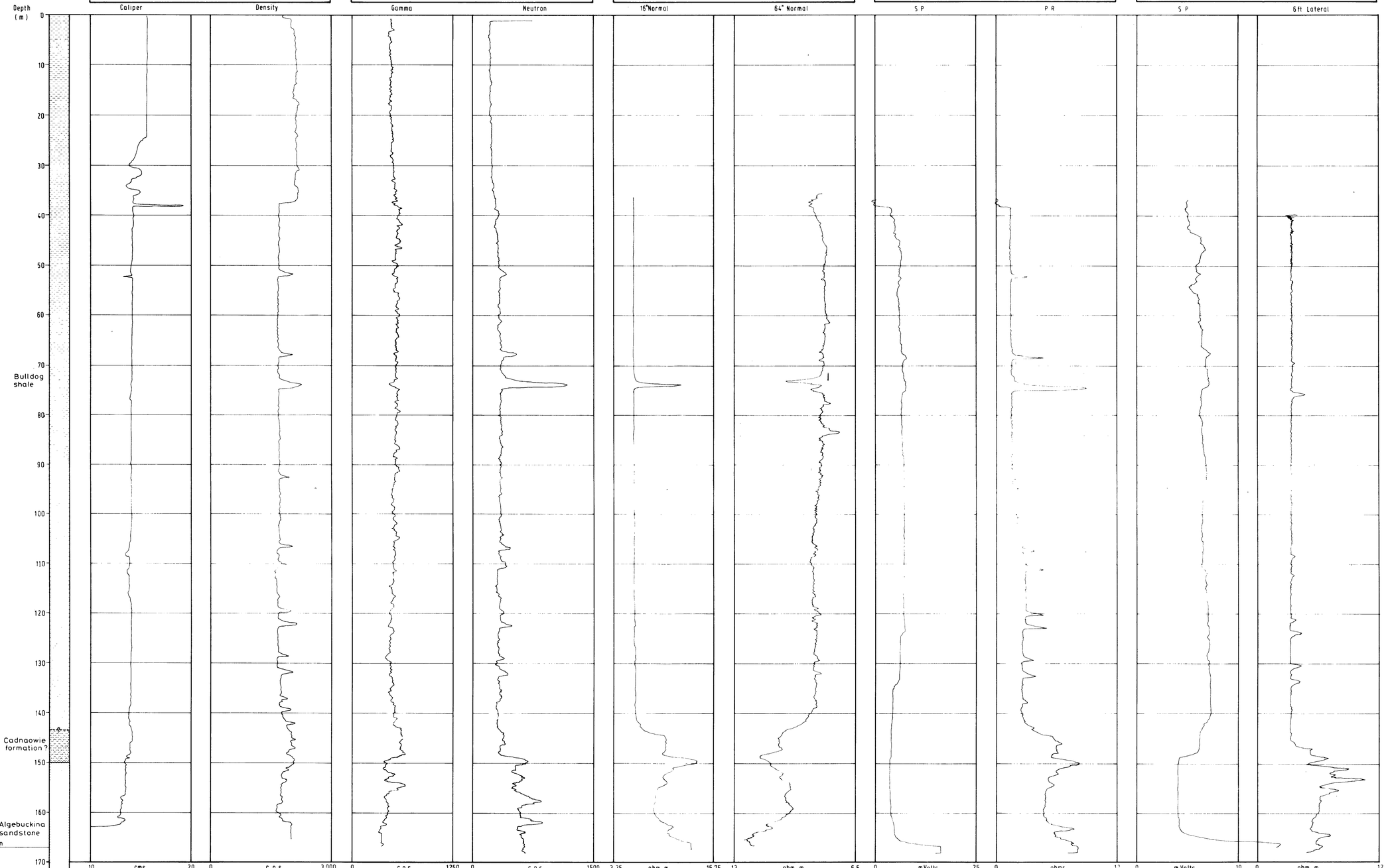
Type of log: Caliper, Density	Depth drilled: 166 m.
Type of Logger: F 250	Depth logged: 162.4 m
Probe: M1 Sopris	Hole casing:
Date: 29 - 11 - 79	Mud type:
REMARKS:	

Type of log: Gamma, Neutron	Depth drilled: 166 m
Type of logger: F 250	Depth logged: 165 m.
Probe: N°1 Neutron	Hole casing:
Date: 29 - 11 - 79	Mud type:
REMARKS:	

Type of log: 16in Nor, 64in Nor	Depth drilled: 166 m
Type of logger: F 250	Depth logged: 166 m
Probe: Cable	Hole casing: at 40 m
Date: 29 - 11 - 79	Mud type:
REMARKS:	

Type of log: S.P, Point Resistivity	Depth drilled: 166 m
Type of logger: F 250	Depth logged: 166.5 m.
Probe: Cable	Hole casing: at 40 m
Date: 29 - 11 - 79	Mud type
REMARKS:	

Type of log: S.P, 6ft Lateral	Depth drilled: 166 m.
Type of logger: F 250	Depth logged: 166 m
Probe: Cable	Hole casing: at 40m
Date: 29 - 11 - 79	Mud type:
REMARKS:	



LEGEND

- Grey shale
- Shale & sandstone
- Quartz sandstone, muddy sandstone & Carbonaceous fragments. Ferruginous conglomerate
- unconformity
- Amphibolite gneiss
- Quartzo-feldspathic gneiss

NOTES -

1 Drilled by S.A.D.M.E with a Failing 1500 Rig.
2 Geophysical logs by B.P. Taylor

HOLE LOCATION :-

Lat. 28°31'24", Long. 136°21'48"
Brinkley Springs Grid 16 040N, 12 270 E

3754-33

THE BROKEN HILL PROPRIETARY CO. LTD.
EXPLORATION DEPARTMENT

E.L.583 WEST LAKE EYRE
GEOLOGICAL & GEOPHYSICAL
SUMMARY LOGS WLE 2

Drawn: M.C.R	Date: 22-4-80	Centre: Adelaide
Traced: R.F.F	Project No: 6-B180-17	Drawing No: A1- 53
Checked		

Revisions

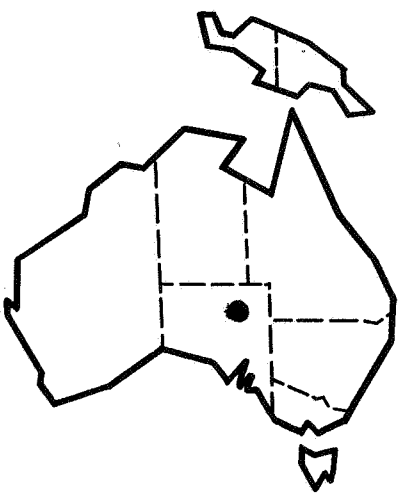
C.R. _____

[redacted]

521

Exploration Department

EXPLORATION LICENCE 369
AND
EXPLORATION LICENCE 583
WEST LAKE EYRE, SOUTH AUSTRALIA
FINAL REPORT
TEXT - PLAN FIGS. AND APPENDICES 2-5



ENV 3754(1)

522

EXPLORATION LICENCE 369

and

EXPLORATION LICENCE 583

WEST LAKE EYRE, SOUTH AUSTRALIA

FINAL REPORT

September, 1980

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2. REGIONAL GEOLOGY
   2.1 Metamorphic Basement
   2.2 Artesian Basin Sequence

3. FIELD INVESTIGATIONS
   3.1 Geological Mapping
   3.2 Ground Magnetic and Gravity Surveys
   3.3 Soil Geochemistry
   3.4 Drilling

4. CONCLUSIONS

5. EXPENDITURE

FIGURES

Figure 1 E.L. 369 and E.L. 583, Lake Eyre West S.A. Location

Figure 2 E.L. 369 Lake Eyre West S.A. Aeromagnetic Contours showing geophysical lines A3-15

Figure 3 E.L. 369 West Lake Eyre S.A. Magnetic Contours and Gravity Profiles, Umbum Grid Ground Survey. A1-1847

Figure 4 E.L. 369 Lake Eyre West S.A. Lagoon Hill Grid Gravity Contours and Ground Magnetic Profiles A2-7

Figure 5 E.L. 369 Lake Eyre West S.A. Brinkley Springs Grid Gravity Contours and Ground Magnetic Profiles A2-6

Figure 6 E.L. 369 West Lake Eyre S.A. Location of Soil Samples LE1-LE176 Full Mercury Analysis. A3-10

Figure 7 E.L. 369 West Lake Eyre S.A. WLE1 Log A4-2

Figure 8 E.L. 583 West Lake Eyre S.A. Geological and Geophysical Summary Log of WLE1A (G-1)

Figure 9 E.L. 583 West Lake Eyre Geological and Geophysical Summary Log WLE2 (A1-53)

APPENDICES

Appendix 1 In six volumes by Solo Geophysics -

VOL 1
- (1) E.L. 369 Neales River (Umbum Grid) Ground Magnetics November and December 1977 (CR2212).
- (2) E.L. 369 Neales River (Umbum Grid) Gravity with levelling November and December 1977 (CR2212).

VOL 2
- (3) E.L. 369 Brinkley Springs Grid Magnetics April and May 1979 (CR2451)
- (4) E.L. 369 Brinkley Springs Grid Gravity with levelling April and May 1979 (CR2452).

VOL 3
- (5) E.L. 369 Lagoon Hill Grid Gravity with levelling April and May 1979 (CR2453).
- (6) E.L. 369 Lagoon Hill Grid Magnetics April and May 1979 (CR2454).

Appendix 2 Report 78/54 by Lowder Geoscience of 167 soil sample LE1 to LE167 for mercury.

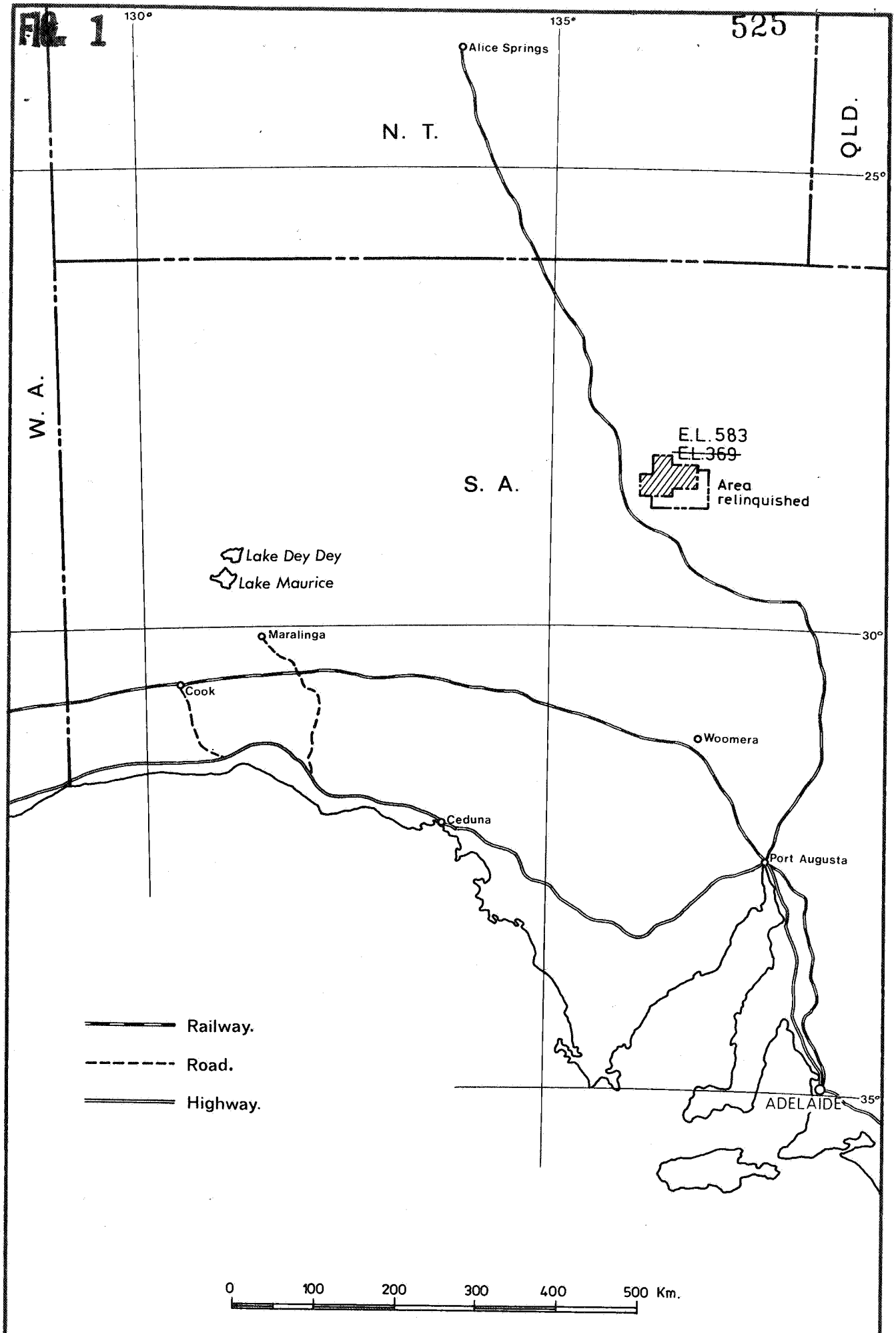
Appendix 3 E.L. 369 drill hole WLE2 detailed geological log.

Appendix 4 Petrology and Analysis of Core

Appendix 5 Water analysis of WLE1.

FIG. 1

525



Centre Melbourne	THE BROKEN HILL PROPRIETARY CO. LTD.	Project No.
Date 28-4-80 14-11-78	E.L.583 ~~E.L.369~~ LOCATION MAP WEST LAKE EYRE AREA, S.A.	Drawing No. A4·1913

1. INTRODUCTION

E.L. 369 was granted to Dampier Mining Company Limited on 1st November, 1977 for one year, and subsequently extended for a second year. The licence was then replaced with E.L. 583 granted on 25th January, 1980 and subsequently surrendered on 13th June, 1980. (See Figure 1).

The main objective was to test the major magnetic complex, situated west of the Peake and Denison Ranges and west of Lake Eyre, for base and precious metals. Although small inliers of metamorphic basement do outcrop within the licence area, most of the major magnetic features are under cover.

The only previous drilling in this area, by Chevron Exploration (open file report on E.L. 22) did not intersect metamorphic basement. All 18 holes drilled by Chevron in search of sedimentary uranium were confined to the Artesian Basin cover sequence. In this area an Artesian Basin sequence of Mesozoic age directly overlies metamorphic basement of at least Carpentarian age.

Following definition of major aeromagnetic features by ground magnetic and gravity surveys, two targets were drilled. Metamorphic basement was cored with some difficulty below approximately 300 metres of Mesozoic cover and artesian acquifers.

The exploration licence is situatedon the Anna Creek pastoral holding and access is by graded station tracks via William Creek. Drinking water had to be carted but drilling water is available in plenty from several running artesian bores in the area.

The local assistance of Mr. Dick Nunn (Manager of Anna Creek Station) and Mrs. and Mrs. H. Colman (of William Creek) is acknowledged, as well as the efforts of the various contractors (Solo Geophysics, Thompson Drilling, and South Australian Department of Mines Drilling Division) who completed their work often under difficult conditions.

2. REGIONAL GEOLOGY

2.1 Metamorphic Basement

Within the exploration licence, metamorphic basement inliers outcrop at Lagoon Hill, Mt. Charles and Spring Hill. Very little work has been done on these rocks and the age is uncertain. Rayner (1955) referred the outcrops to the Peake Series, thus correlating these outcrops with metamorphics mapped in the Peak and Denison Ranges. Our

Observations support this conclusion. Ambrose and Flint (1979) have observed Peake Metamorphics (amended name for Peake Series by Thompson, 1966) unconformably overlain by Willouran Cadlareena Volcanics in the Peake and Denison Ranges. The Wirriecurrie Granite intrudes the Peake Metamorphics and has an interpreted age of 1,600 Ma (Ambrose and Flint, 1979 page 18, from dating by Webb and Lowder, 1972; Stevenson, 1973; Webb, 1974); therefore the Peake Metamorphics are at least Carpentarian in age.

Lithologies observed include amphibolite, quartz muscovite schist and migmatite. At Lagoon Hill the largest outcrop, remnants of an original basic rock are incorporated into a dioritic rock which has subsequently been fractured and filled by a more acid phase; this in turn has been cut by later dolerites (magnetic) and granite dykes.

During the latest drilling programme, metamorphic basement was cored in drillholes WLE1A and WLE2; petrological descriptions are given in section 3.4.

2.2 Artesian Basin Sequence

The stratigraphic units referred to are those given in Wopfner, et al., (1970).

The lowest unit is Algebuckina Sandstone, a Jurassic fluviatile sequence which unconformably overlies the Peak Metamorphics. The lithology is medium to coarse grained conglomeratic sandstone. The basal contact was cored in drill hole WLE2 during the latest programme. The top of the formation is marked by a gently undulating transgressional disconformity which forms the boundary with the overlying Lower Cretaceous marine sequence.

The Lower Cretaceous sequence commences with a transitional facies of sandstone, limestone and shale termed the Cadna-owie Formation, which in turn is overlain by a marine grey shale termed the Bulldog Shale. During the latest drilling programme, the Cadna-owie Formation was not recognised from drill chips, however its transitional facies could be inferred from the geophysical logs.

The Algebuckina Sandstone contains the major artesian acquifer encountered during the drilling programme.

3. FIELD INVESTIGATIONS

3.1 Geological Mapping

No mapping, except for inspection of the three metamorphic basement outcrops within the licence area, was carried out. Some comments are included in section 2.1 above and the petrology of outcrops from Lagoon Hill is further discussed in section 3.5.

3.2 Ground Magnetic and Gravity Surveys

Approximately 400 kilometres of pegging , levelling, gravity and magnetic readings were completed by the contractors Solo Geophysics, over three grids, Umbum, Lagoon Hill and Brinkley Springs (see Figure 2).

Solo were instructed to take readings every 100 metres along traverses with sufficient repeat readings to ensure an overall accuracy of 0.1 milligals. Wooden pegs were used every 500 metres to mark the traverses, with steel pegs where the lines intersected tracks, fence lines, etc. Optic levelling was carried out along all lines and between the two grids. Levels quoted are relevent to an arbitrary base.

The purpose of the survey was to outline the best combined gravity/magnetic target for testing for each of these anomalies, with emphasis on a well defined gravity anomaly.

The raw survey data is appended in six reports by Solo Geophysics (CR 2212, in two volumes and CR 2451 to 2454, in Appendix 1).

Umbum Grid

In the Solo Geophysics report (CR 2212) this grid is called the Neales River grid. Figure 3 illustrates the magnetic contours and gravity profiles over the grid.

The best drilling target was selected as the magnetic anomaly with a 7 mgal gravity anomaly which peaks at 2,900E/8000N.

The first drill hole WLE1, attempted in July 1978, was abandoned at 279 metres in the Artesian acquifer. A second attempt, WLE1A in November 1979, successfully took a 40cm core of fresh basement at 296 metres. The hard metamorphic basement intersected is a quartz epidote rock with a specific gravity of 2.89 (by volume of water displacement method).

Lagoon Hill Grid

The gravity contours and ground magnetic profiles are illustrated in Figure 4. No drill targets were selected from this grid.

A broad gravity high was found over most of the centre part of the grid with a deep low to the north east. These broad features are interpreted as being due solely to changes in the depth to crystalline basement. Two small gravity highs on Line 1 between the 9,000N and 12,000N lines occur directly over outcrop of basement gneiss , granulite and amphibolite. These highs appear to be completely due to the Bouguer density choice of 1.9 being too low. The anomaly further south between line 6,000N and 9,000N is

interpreted as a basement high beneath the undercover rocks.

Isolated magnetic highs occur on lines 3000N and 12000N; these do not coincide with gravity anomalies.

Very narrow, intense magnetic anomalies were located over the Lagoon Hill outcrops corresponding with amphibolite and magnetic granulite. However, the anomalies on lines 3000N and 12000N are due to much wider sources. Their cause is unknown.

Brinkley Springs Grid

The gravity contours and ground magnetic profiles over this grid are illustrated on Figure 5. The results show a prominent north-west trending gravity high traversing the entire area. In the southern part of the grid, the gravity anomaly increases rapidly to a maximum of 6 mgal coinciding with a 5,000 gamma magnetic anomaly.

Line 18000N shows that the causitive body is likely to be plunging steeply to the south-west at about 80° and at a depth of 350 to 400 metres.

Drill Hole WLE2 was sited at the peak of the gravity anomaly coincident with the magnetic anomaly on line 16000N at 12270mE. The hole cored 31.4 metres of magnetic amphibolite and quartzo-felspathic gneiss from 176.5 metres to 208.5 metres below the Artesian Basin sequence. The strongly magnetic gneiss adequately explains the magnetic anomaly.

3.3 Geochemistry

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

Figure 6 shows the location of 167 soil samples which were analysed for mercury by Lowder Geoscience (Report No. 78/54 in Appendix 2). The samples were collected at a depth of 15cm and a spacing of 50 metres along traverse lines. The mercury content of the soil ranges 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 to 40 ppb), therefore this survey detected no obvious anomalies.

3.4 Drilling

Hole WLE1, 279 metres, Umbum Grid 8100N 2800E

This hole was drilled by Thompson Drilling Co. with a Mayhew 1000 in June 1978. At 263 metres an artesian flow was encountered which could not be overcome, and therefore the hole was abandoned at 279 metres in Algebuckina Sandstone, and cemented to surface. The surface shut in pressure of the aquifer was measured at 60 psi. Figure 7 gives the summary log of the geology. Due to the

artesian flow at the surface, it was possible to run a gamma probe down to only 80 metres.

Hole WLE1A, 296 metres Umbum Grid 8100N 2800E
The Department of Mines and Energy contracted to attempt a second hole at the site of WLE1 using a Faihling 1500. The rotary hole successfully penetrated the artesian basin sequence, and a short core of the metamorphic basement was taken with a PQ barrel. About 40cm of fresh very hard epidote rich gneiss was recovered. Thus is typical of the unprospective metamorphics in outcrop and in WLE2. The hole was therefore abandoned after pumping down a cement plug (90 bags cement in 5½" hole) to seal the aquifer.

A summary geological log including a gamma ray log is presented in Figure 8. Chip samples were recovered down to 259.7 metres except for sample loss from 260 to 280 metres. From 295.7 to 296.1 metres, 40 cm of soil core was recovered. All samples have been lodged with the Department of Mines and Energy core library. The water analysis from WLE1 is appended.

Hole WLE2, 208.9 metres, Brinkley Springs Grid 12270E 16040N
This hole was drilled to test the second best magnetic/gravity target within the exploration licence. A Faihling 1500 contracted from the Department of Mines and Energy rotary drilled to 167 metres; 3" black steel casing was pressure cemented into the hole and NQ coring continued. A ferruginous conglomerate which marks the base of the Algebuckina Sandstone was cored at 176.5 metres; coring was then continued through a steeply dipping sequence of amphibolite gneiss and quartzo-felspathic gneiss to 208.9 metres.

The gneiss contains numerous high angle clay filled fractures, which wedge out and sometimes caused the rods to stick. Hole conditioning was not possible because of water inflow below the casing, therefore coring was extremely slow and expensive.

The detailed geological log is given in Appendix 3, and this is summarized along with the various geophysical logs on Figure 9. The petrology of the basement cores is discussed in the next section.

3.5 Petrology

The following petrological descriptions by Mr. H.W. Fander of Central Mineralogical Services are given in Appendix 4: outcrop samples from Lagoon Hill in CMS Report 79/6/15; metamorphic basement cored in WLE1A in CMS Report 80/2/23; and 10 samples of metamorphic basement core from WLE2 in CMS Report 79/12/40.

Three rock types, pyroxene hornfels, basalt and hornblende granulite, were identified from the Lagoon Hill outcrops. The basement in WLE1A was identified as a quartz epidote rock which in a general way relates to the basement in WLE2. Altered amphibolite and magnetic quartz albite magnetite micro gneiss were identified from WLE2. Polished sections from WLE2 also confirmed the presence of thin veinlets (0.2mm to 2mm in width), which contain chalcopyrite. Traces of pyrite accompany the chalcopyrite, and occasionally bornite is present as an alteration product. These veinlets are very sparse and of no economic significance. A spot sample at 193.6 metres contained only 810 ppm copper with no silver, lead, zinc or gold. A metal scan of eight other samples (see Appendix 4) showed nothing of significance. The highest values recorded are for titanium, no doubt after ilmenite.

Mr. Fander interprets the rock suite as originally of sedimentary origin, regionally metamorphosed to the upper greenschist or amphibolite facies, but showing retrograde metamorphism. The mineralisation is thought to be related to this retrogressive, low temperature hydrothermal phase.

From visual inspection of the core the following paragenesis is suggested. First a strong gneissic foliation, containing magnetite, developed subparallel to bedding. Later fracture veining containing chlorite, was followed by a second phase containing quartz and felspar with minor specks of chalcopyrite. Most of the magnetite was originally present in the sediment and is prominently developed in the strongest foliation. Similar rocks are found in the Willyama Complex at Broken Hill.

4. CONCLUSIONS

Basement was identified below the Artesian Basin at the two best magnetic/gravity targets selected. This basement is similar to that in outcrops further west, suggesting that the entire exploration licence is underlain by such metamorphic basement. This type of basement has little potential for the type of mineralisation we are seeking and therefore the exploration licence was relinquished on 13th June, 1980.

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5. EXPENDITURE

Expenditure debited to EL's 369 and 583 was:

Wages and Salaries	$21,362
Messing and Accommodation	3,015
Fares and Mobilisation	1,208
Drilling	78,410
Transport	4,600
Radio Communications	82
Surveying/Aerial Photographs	2,203
Geophysics	48,425
Consultants	159
Sample Analysis	1,019
Tenement Fees, Licences etc.	5,786
Occupancy/Location Expenses	1,664
Capital Items	74
Other Items	260
	$168,267

This report is submitted to the Department of Mines and Energy as required by Condition 4 of Exploration Licences 269 and 583.

REFERENCES

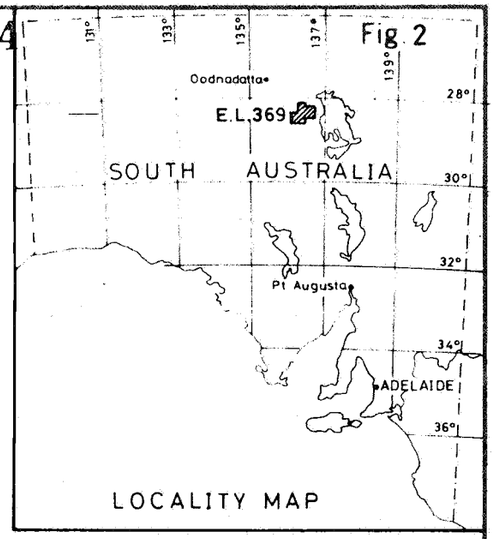
Ambrose, G.J. and Flint, R.B., 1979. Precambrian and Palaeozoic Geology of the Peake and Denison Ranges. Report Book 79/19 S.A.D.M.E.

Chevron Exploration Co. 1974. Progress and Completion Reports Lagoon Hill area E.L. 22 by J.A. Teluk. S.A.D.M.E. Open File Report on E.L. 22

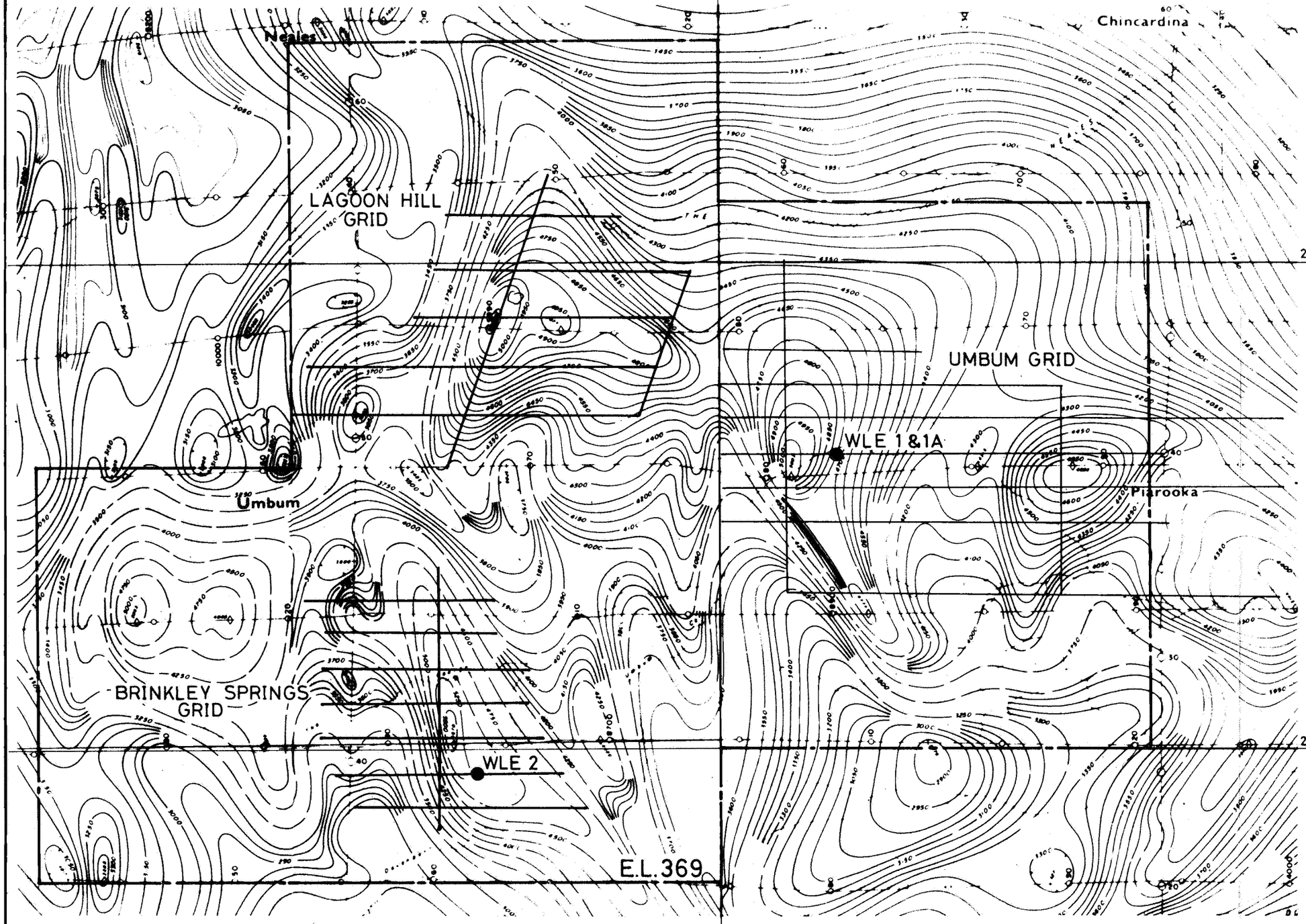
Reyner, M.L. 1955. The Geology of the Peak and Denison Region. Report of Invesitgations No.6 Dept. of Mines S.A. Geological Survey.

Wopfner, H. and Freytag, I.B. and Heath, G.R. 1970. Basal Jurassic - Cretaceous Rocks of western Great Artesian Basin, S.A.: Stratigraphy and Environment. The American Assoc. of Petroleum Geologists Bulletin No. 54, No. 3 (March 1970), pp 383-416.

Fig. 2



LOCALITY MAP



N

LEGEND

- Ground gravity/magnetic lines 1977
- Ground gravity/magnetic lines 1979
- Drill hole
- 4200 Magnetic contours
- E.L. Boundary

Scale 1:250,000

0 5 10 15 20 25 KILOMETRES

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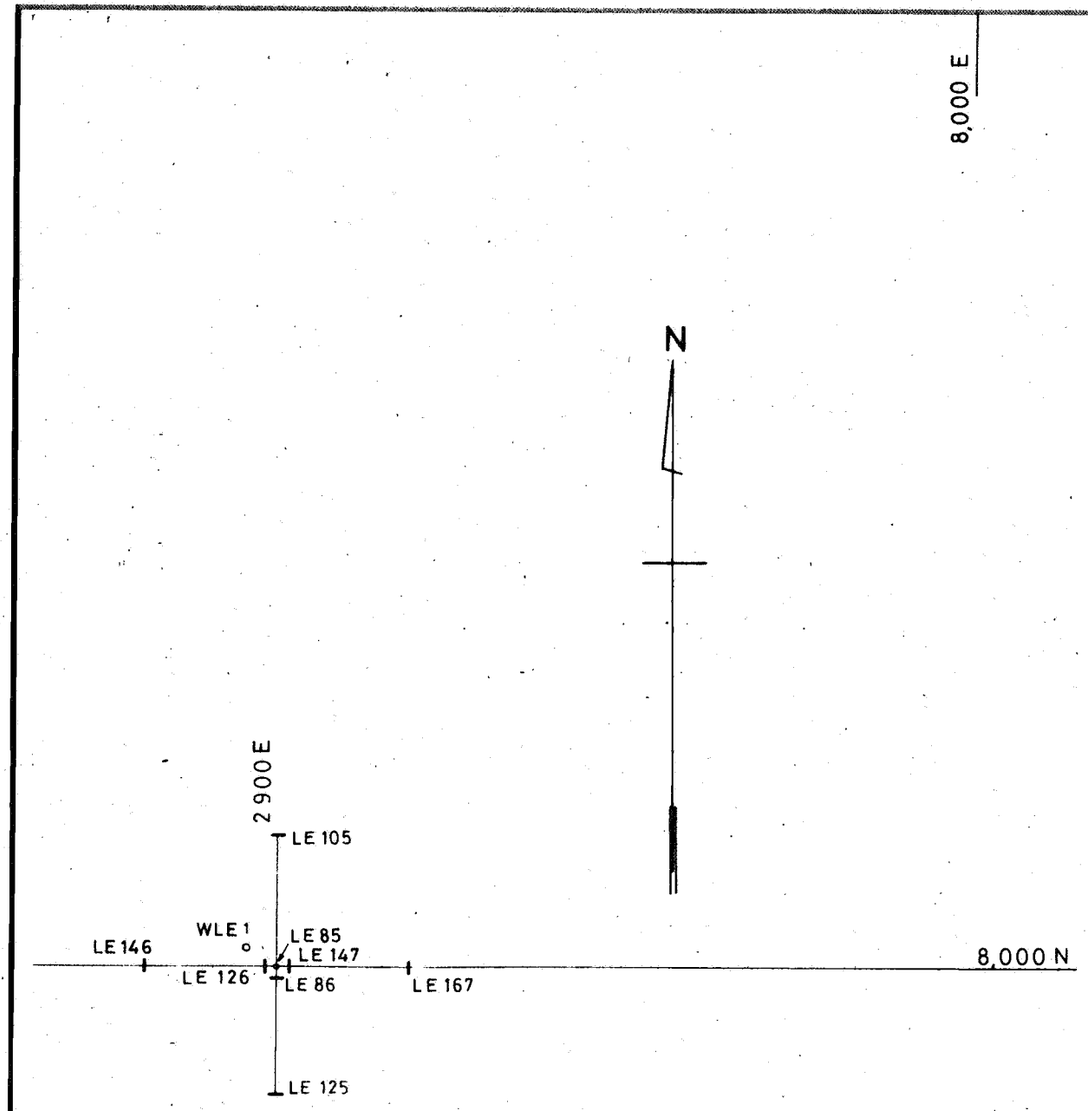
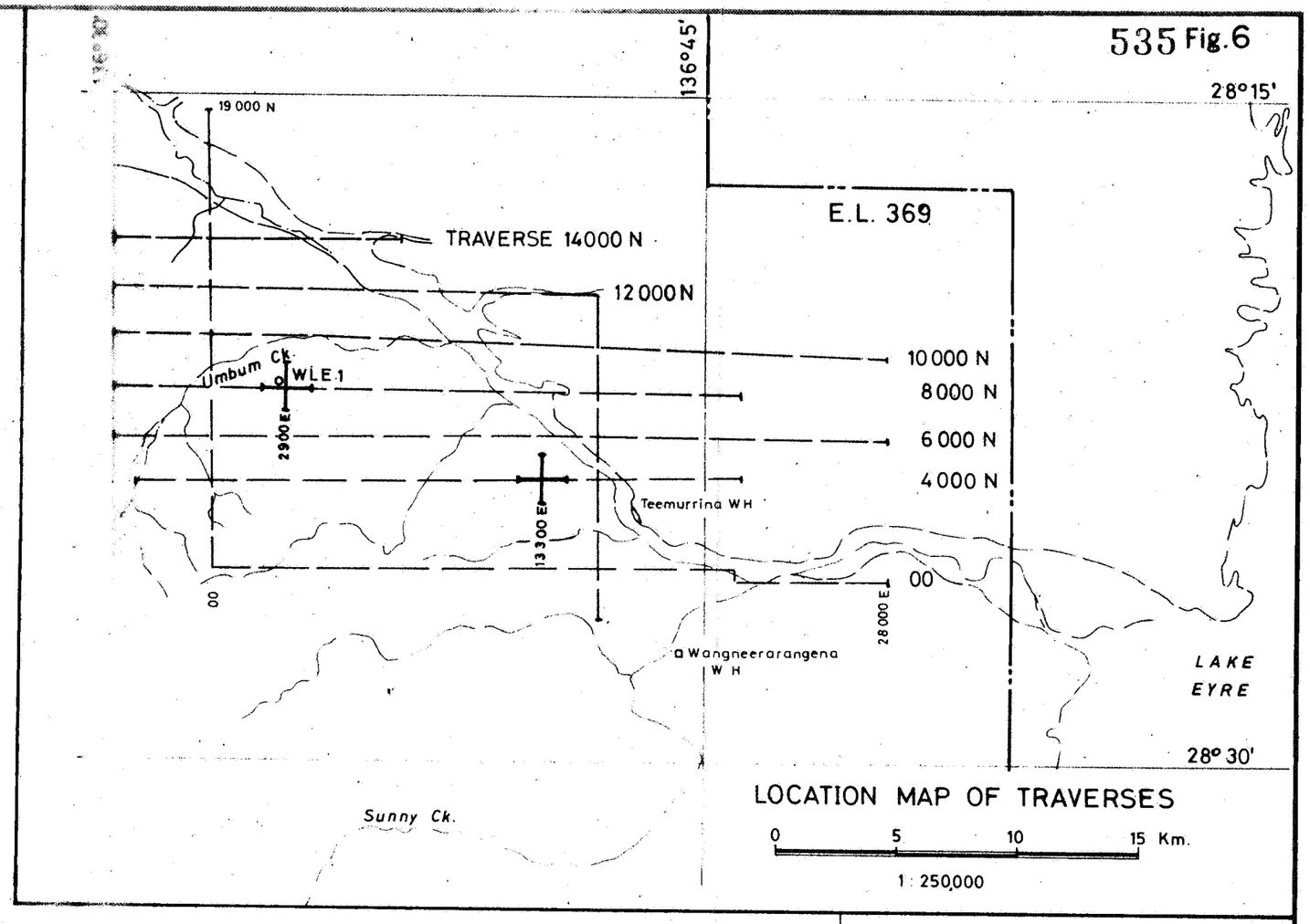
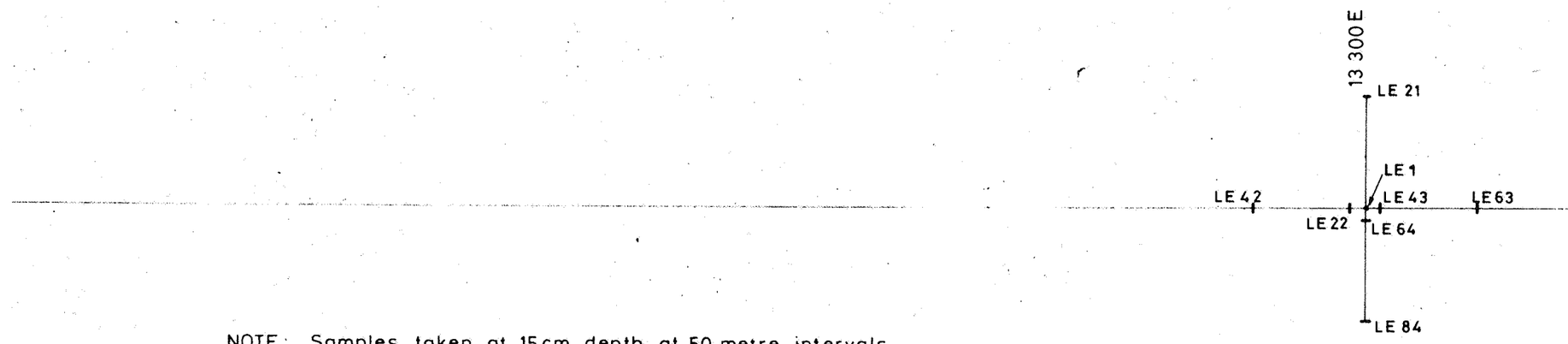
THE BROKEN HILL PROPRIETARY CO. LTD. EXPLORATION DEPARTMENT	
E.L. 369 LAKE EYRE WEST S.A. AEROMAGNETIC CONTOURS SHOWING GROUND GEOPHYSICAL LINES	
Prepared by D.G.P.	Centre Adelaide
Date 13-8-79	Project No 6-B180-8
Drawn R.F.F.	Drawing No A3-15

Revisions

535 Fig.6







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

Scale 1:50,000

0 2 3 4 5 Kilometres

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

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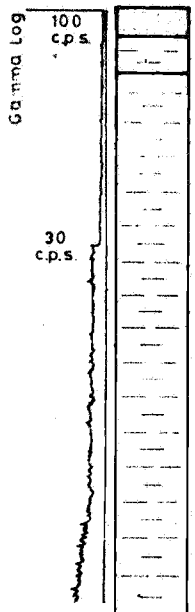
THE BROKEN HILL PROPRIETARY CO. LTD.
EXPLORATION DEPARTMENT

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

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

Revisions



536

0 Sand & grit
4 Kahki shale
8

Metres

Dark grey shale Pine quartz & silt texture. Occasionally very slightly limey

50 -(Very fine less than 1mm disseminated pyrite)

(Pyrite as above)

100

(Minor fine sand mixture of quartz & black sand)

150 (Below 150m gradually becoming a fine grained sandy shale)

(Limey shale +ve cold HCl reaction)

200 (199-201m limestone with pyrite in fractures & some quartzite)

-(215m thin limestone band)

Dark grey shale as above 150m.

-(237m sandy)

-(241m. minor limestone)

250

- 267m. hard band

273

279

NOTES

Fig.7

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

$5\frac{5}{8}$" to 279m. cemented to surface.

Water:

Artesian flow at 273m. Shut in pressure over 60 p.s.i.

Water sample sent to Mines Dept.

CADNA-OWIE FORMATION

ALGEBUCKINA SANDSTONE

THE B.H.P. CO. LTD.

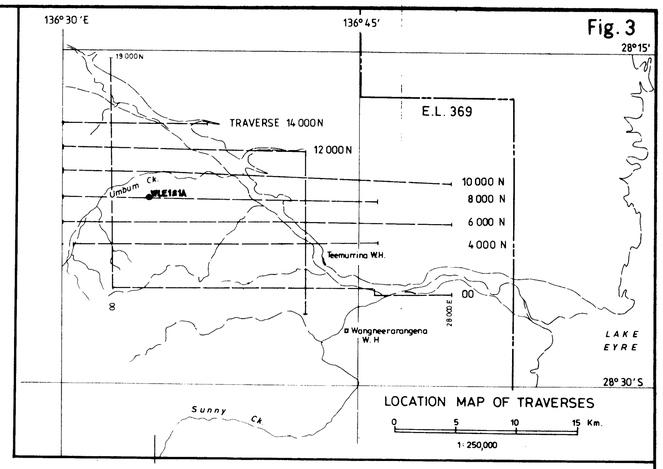
E.L. 369 WEST LAKE EYRE

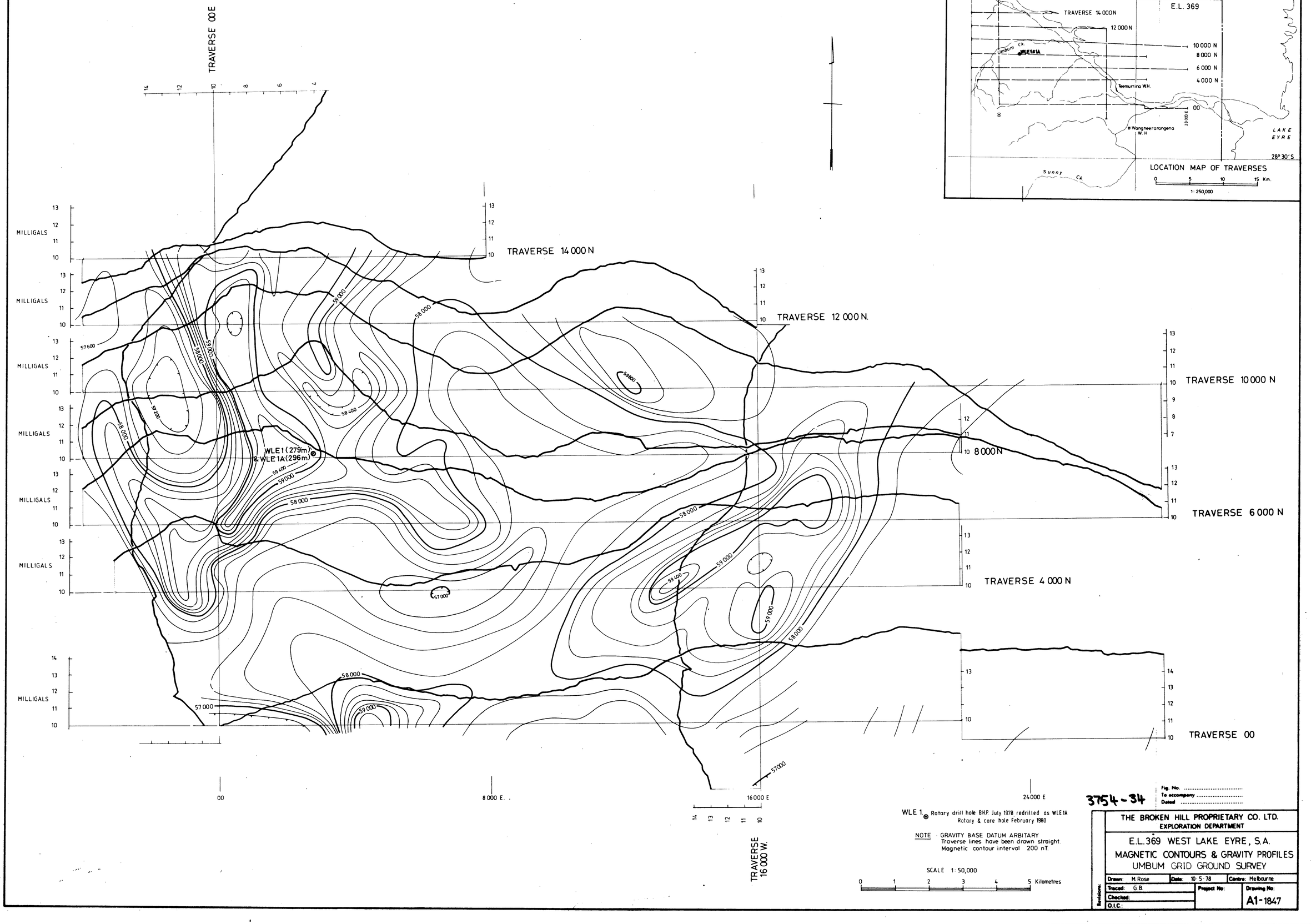
WLE 1 - LOG

Project No 6-B180-1

A4 - 2

Fig. 3





WLE 1 ⊙ Rotary drill hole BHP July 1978 redrilled as WLE1A Rotary & core hole February 1980

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

3754-34

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
UMBUM GRID 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:

Fig.4

LINE 2

LINE 1

15,000 N

12,000 N

9,000 N

6,000 N

3,000 N

LEGEND

Contour interval 0.5 milligals

Magnetic profile scale 1cm = 1,000 nT

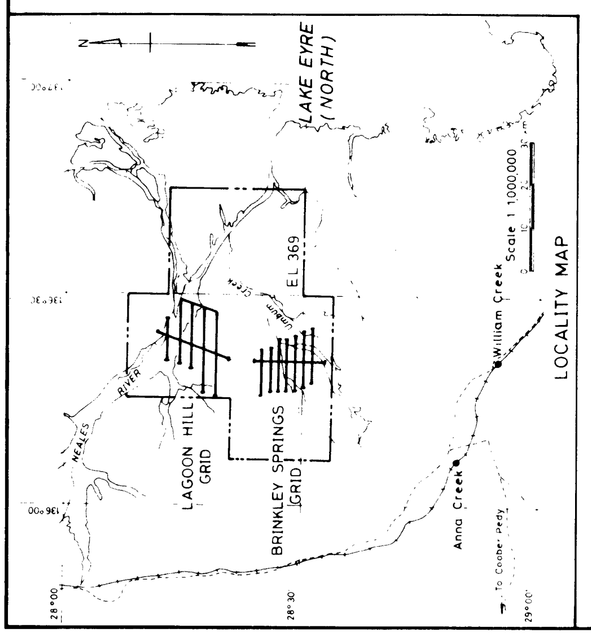
Magnetic base level 56,000 nT

Gravity contours

Ground magnetic profiles

Scale 1:50,000

0 1 2 3 4 5 KILOMETRES



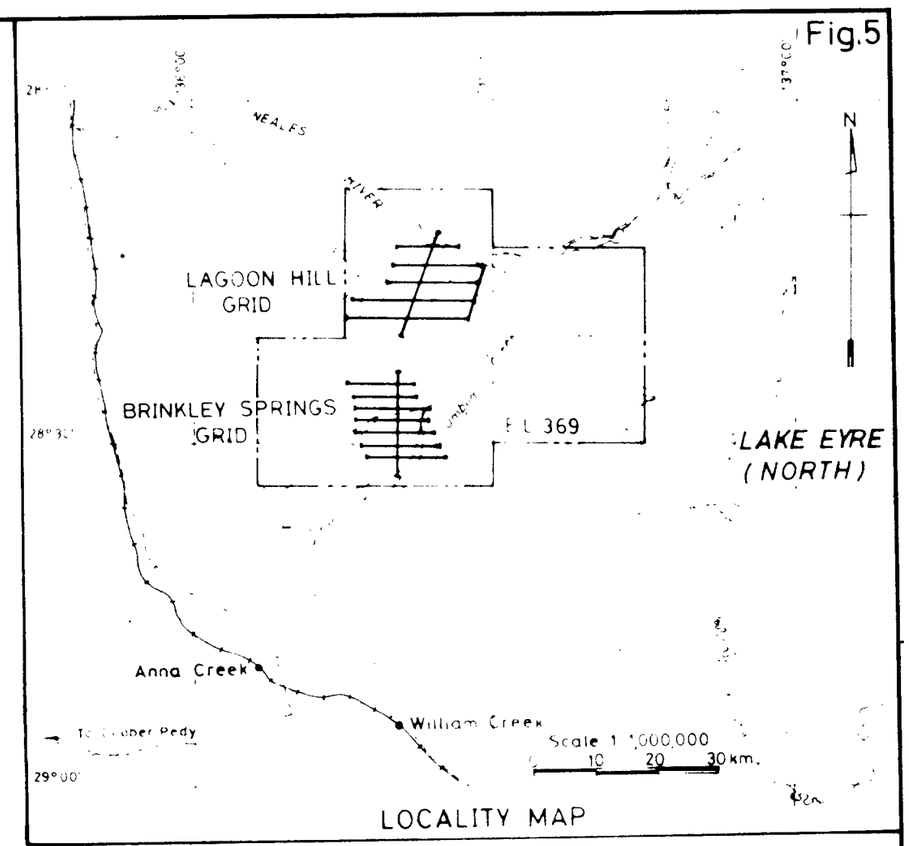
LOCALITY MAP

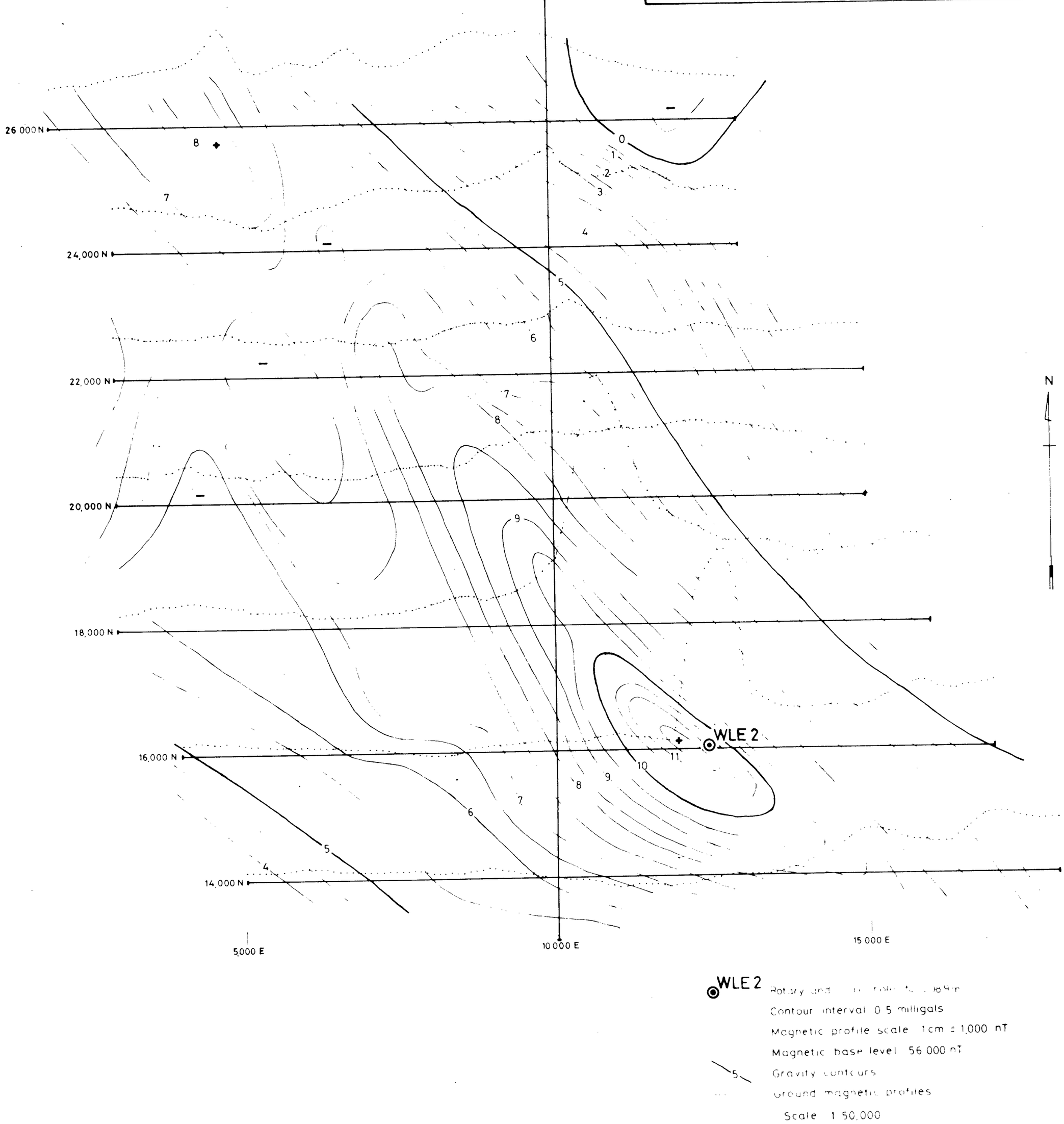
3754-35

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

Revisions

Fig.5





3754-36

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
Traced R.F.F.	Project No. 6-B180-5	Drawing No. A2-6
Checked		

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FIG. 8

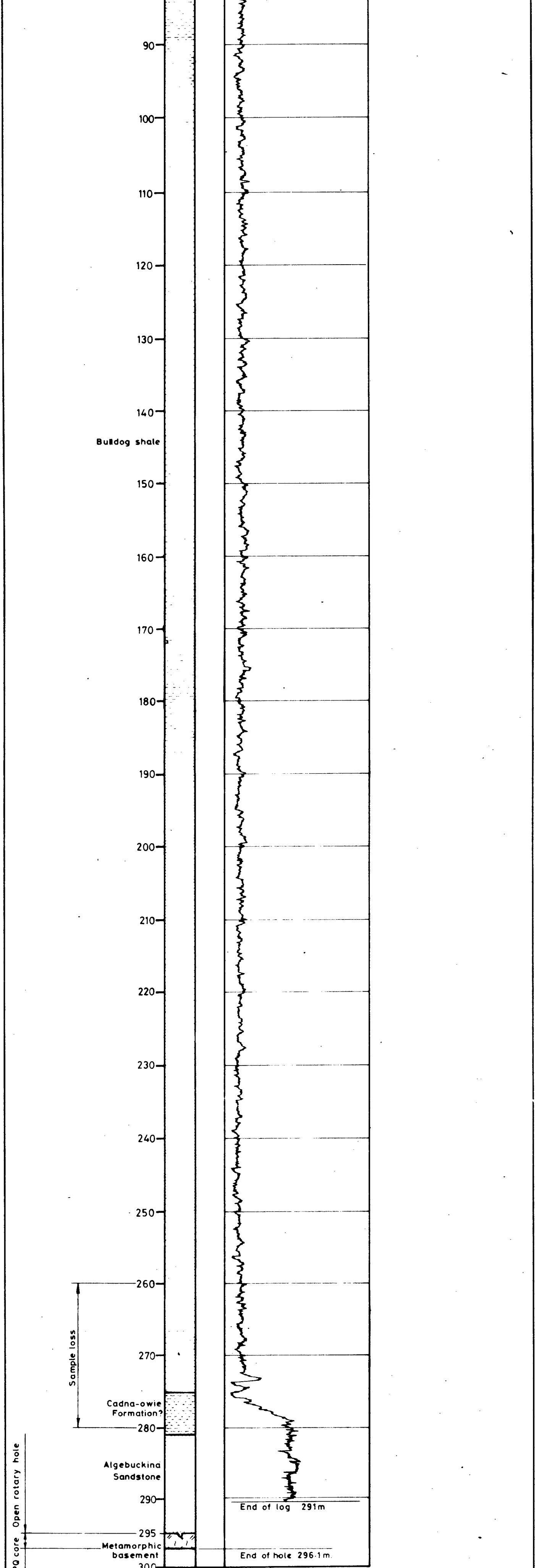
THE BROKEN HILL PTY. CO. LTD.

AREA: E.L.583 WEST LAKE EYRE BORE: WLE 1A 3754-37

LOCATION: Lat. 28°21'24", Long. 136°34'12" (90m. E. of WLE 1, Umbum Creek Grid 8100 N., 2800 E.)

Type of Log: Gamma	Depth drilled: 296·1m.
Type of Logger: SIE T450E	Depth logged: 291m.
Probe: Gamma	Hole casing: None
Date: 25-2-80	Mud type:

REMARKS: Original log at 6 metres per minute at 100 c.p.s.
Chart recorded at 1cm. = 2m. T.C. = 2 secs.



LEGEND

- Grey shale
- Sandstone & shale
- Quartz sandstone (Artesian Aquiver)
- unconformity
- Quartz Epidote gneiss

NOTES

Hole drilled by S.A.D.M.E. with a Failing 1500 Rig.

Centre: Adelaide	THE BROKEN HILL PROPRIETARY CO. LTD. E.L. 583 WEST LAKE EYRE GEOLOGICAL & GEOPHYSICAL SUMMARY LOG WLE 1A	Project N°: 6-B180-16
Date: 2-4-80		Drawing N°: G-1

Fig. 9

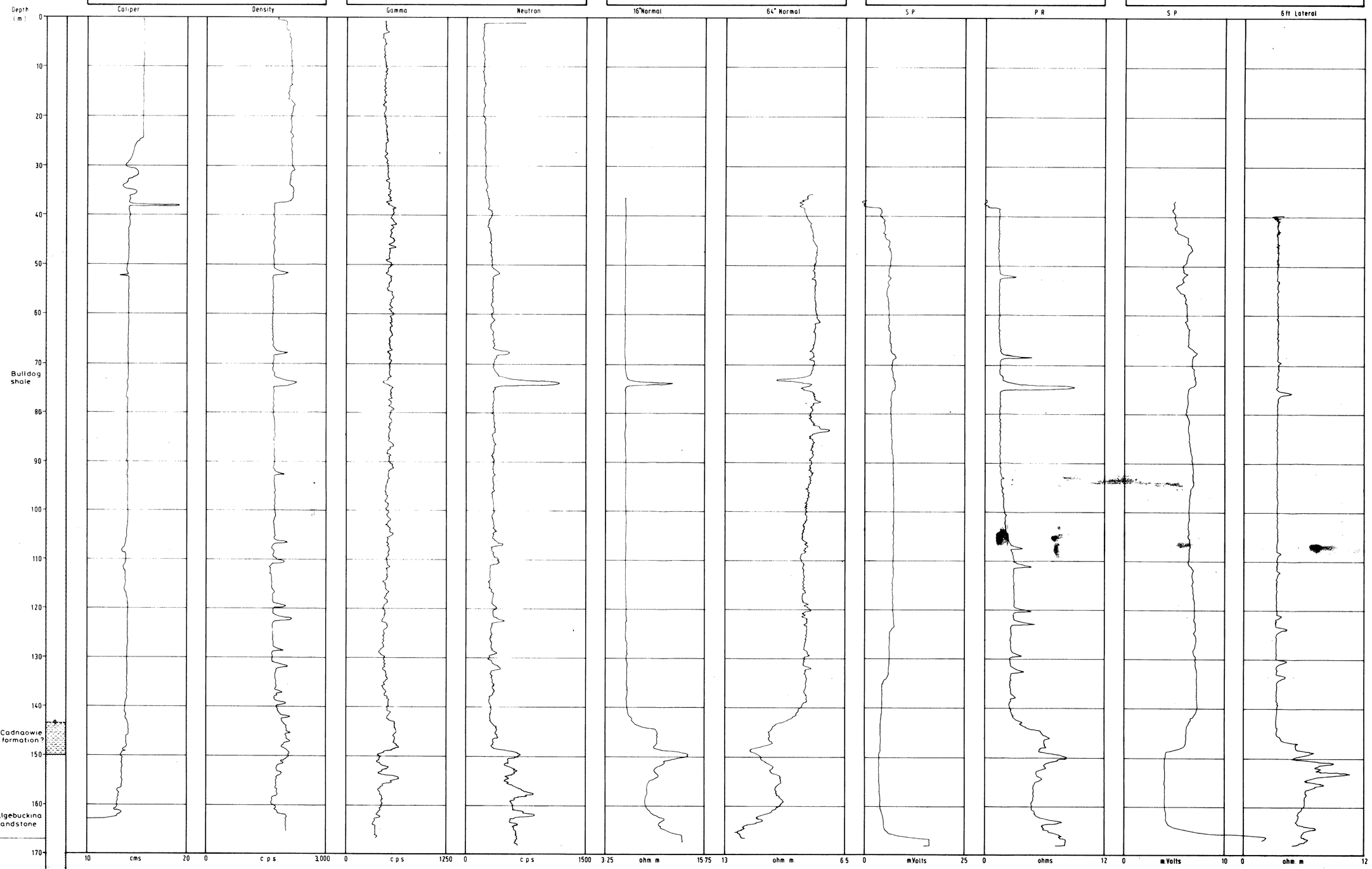
Type of log: Caliper, Density	Depth drilled: 166 m.
Type of Logger: F 250	Depth logged: 162.4 m
Probe: Mt Sopris	Hole casing:
Date: 29 - 11 - 79	Mud type:
REMARKS:	

Type of log: Gamma, Neutron	Depth drilled: 166 m
Type of logger: F 250	Depth logged: 165 m
Probe: No 1 Neutron	Hole casing:
Date: 29 - 11 - 79	Mud type:
REMARKS:	

Type of log: 16in. Nor., 64in. Nor.	Depth drilled: 166 m
Type of logger: F 250	Depth logged: 166 m
Probe: Cable	Hole casing: at 40 m
Date: 29 - 11 - 79	Mud type:
REMARKS:	

Type of log: S.P., Point Resistivity	Depth drilled: 166 m.
Type of logger: F 250	Depth logged: 166.5 m.
Probe: Cable	Hole casing: at 40 m
Date: 29 - 11 - 79	Mud type:
REMARKS:	

Type of log: S.P., 6ft. Lateral	Depth drilled: 166 m.
Type of logger: F 250	Depth logged: 166 m
Probe: Cable	Hole casing: at 40m
Date: 29 - 11 - 79	Mud type:
REMARKS:	



LEGEND

- Grey shale
- Shale & sandstone
- Quartz sandstone, muddy sandstone & Carbonaceous fragments. Ferruginous conglomerate
- unconformity
- Amphibolite gneiss
- Quartzo-feldspathic gneiss

NOTES -

1. Drilled by S.A.D.M.&E. with a Failing 1500 Rig.
2. Geophysical logs by B.P. Taylor

HOLE LOCATION -

Lat. 28°31'24", Long. 136°21'48"
Brinkley Springs Grid 16.040N, 12.270E

3754-38

THE BROKEN HILL PROPRIETARY CO. LTD.
EXPLORATION DEPARTMENT

E.L. 583 WEST LAKE EYRE
GEOLOGICAL & GEOPHYSICAL
SUMMARY LOG WLE 2

Revisions:	Drawn: M.C.R.	Date: 22-4-80	Centre: Adelaide
	Traced: R.F.F.	Project No: 6-B180-17	Drawing No: A1-53
	Checked:		

AMDEL ANALYTICAL SERVICE

JOB NO 2958/80 Semi-Quantitative Spectrographic Analysis Schemes A1, A2, A3, A4, A5, A7, A8 & A9 BATCH

WE 2 Results in ppm unless otherwise stated. Detection limits in brackets

	SAMPLE NO.		183.5	191.0	192.5	193.3	193.6	201.0	202.9
*	A1	Ba (200)	200	200	x	x	x	x	
		Be (1)	1	x	2	1	x	x	L
		Ce (300)	x	x	x	x	x	x	1
		Co (5)	100	30	15	10	x	x	S
		Cr (20)	100	100	40	30	30	40	T
		La (50)	x	x	50	x	50	x	E
		Mn (10)	500	400	150	100	80	250	D
		Mo (3)	x	x	x	x	x	x	
		Nb (20)	x	x	20	20	20	x	N
		Ni (5)	150	150	50	40	20	20	O
		Sc (3)	30	30	20	5	3	10	T
		Sr (50)	50	x	x	x	x	x	
		Ta (100)	x	x	x	x	x	x	R
		Th (100)	x	x	x	x	x	x	E
		Ti (100)	4000	3000	10000	6000	8000	8000	C
		V (10)	400	400	150	100	150	150	E
		W (50)	x	x	x	x	x	x	1
		Y (10)	60	20	20	20	40	30	V
		Yb (1)	8	1	8	5	15	10	E
		Zr (10)	80	60	400	300	300	500	D
*	A2	Ag (0.1)	x	x	0.1	x	0.1	0.1	
		As (50)	x	x	x	x	x	x	
		Bi (1)	x	x	x	x	x	x	
		Cd (5)	x	x	x	x	x	x	
		Cu (1)	100	40	150	100	700	50	
		Ga (1)	20	20	25	20	25	25	
		Ge (1)	x	x	x	x	x	x	

	SAMPLE NO.		183.5	191.0	192.5	193.3	193.6	201.0	202.9
	A2	In (10)	x	x	x	x	x	x	L
*		Pb (1)	10	3	8	5	8	40	I
		Sb (30)	x	x	x	x	x	x	S
		Sn (1)	1	1	1	x	1	1	T
		Zn (20)	50	x	x	x	x	x	E
									D
	A3	Au (3)							
		P (100)							N
		Te (20)							O
		Tl (1)							T
	A4	Li (1)							R
		Na (50)							E
									C
	A5	Cs (30)							E
		K (5)							I
		Rb (10)							V
									E
									D
	A8	B (3)							
	A9	Al (100)							
		Ca (100)							
		Fe (100)							
		Mg (100)							
		Si (100)							

Duplicates

Results are semi-quantitative. Elements apparently present in concentrations of economic interest should be redetermined by an appropriate accurate analytical technique. X = Not detected at limit quoted

JOB NO 2958/80 — ANGLE ANALYTICAL SERVICE

Semi-Quantitative Spectrographic Analysis Schemes A1, A2, A3, A4, A5, A7, A8 & A9

Results in ppm unless otherwise stated. Detection limits in brackets

BATCH

	SAMPLE NO.		208·7
*	A1	Ba (200)	X
		Be (1)	X
		Ce (300)	X
		Co (5)	10
		Cr (20)	100
		La (50)	X
		Mn (10)	100
		Mo (3)	X
		Nb (20)	X
		Ni (5)	80
		Sc (3)	5
		Sr (50)	X
		Ta (100)	X
		Th (100)	X
		Ti (100)	6000
		V (10)	80
		W (50)	X
		Y (10)	10
		Yb (1)	1
		Zr (10)	200
*	A2	Ag (0.1)	X
		As (50)	X
		Bi (1)	X
		Cd (3)	X
		Cu (1)	100
		Ga (1)	25
		Ge (1)	X

	SAMPLE NO.		208·7
	A2	In (10)	X
*		Pb (1)	3
		Sb (30)	X
		Sn (1)	X
		Zn (20)	X
	A3	Au (3)	
		P (100)	
		Te (20)	
		Tl (1)	
	A4	Li (1)	
		Na (50)	
	A5	Cs (30)	
		K (5)	
		Rb (10)	
	A8	B (3)	
	A9	Al (100)	
		Ca (100)	
		Fe (100)	
		Mg (100)	
		Si (100)	

Results are semi-quantitative. Elements apparently present in concentrations of economic interest should be redetermined