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SML 366

BOOLOOROO

PROGRESS REPORTS FOR THE PERIOD 18/12/69 TO 17/12/71

Submitted by

Southern Cross Exploration NL 1971

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Postal Address: P.O. Box 42, UNLEY, SOUTH AUSTRALIA 5061

JR

MEMORANDUM TO:

Mr. P.W. MUNT,

Director,

Boolooroo Mining Co.,

C/- 17 Ayrbank Avenue,

STONYFELL,

S.A. 5066.

MEMORANDUM FROM:

I.R. PONTIFEX,

McPhar Geophysics Pty. Ltd.,

50 Mary Street,

UNLEY,

S.A. 5061.

SUBJECT:

REVIEW AND CONCLUSIONS ON MINES

DEPARTMENT DATA CONCERNING

MT. COFFIN DIAPIR, S.A., AND

RECOMMENDATIONS FOR FURTHER

EXPLORATION.

DATE:

31ST MARCH, 1970.



(SIGNED)

INTRODUCTION

At the request of Mr. P. Munt, a review was made of the geological, geochemical, and geophysical data held by the Mines Dept., relating to the Mt. Coffin Diapir, and immediate environment.

This area occurs within S.M.L. No. 366, held by the Boolooroo Mining Co. Two mineral claims covering the Elsie Adair and West Jubilee Mines occur within this area, these are held by Mr. Ross and Mr. Ramdohr and these claims have currently been offered to Rare Earth Corporation of Australia. This review includes information on these claims areas.

Southern Cross Exploration Co. are presently negotiating to obtain rights to the area covered by the S.M.L. 366, (exclusive of the two mineral claims).

This report is intended to summarise the Mines Dept. work, and to comment on this with the aims of :

- (1) Indicating the proven reserves of copper ore,
- (2) Establishing the potential of copper mineralization in addition to these reserves,
- (3) Suggesting the means and cost of proving this potential.

Following is a summary on the information collated by the Mines Dept., together with comments on the results of this work. This forms a basis for conclusions and recommendations given later in this report.

(See list of references for complete, detailed reports)

OLD WORKINGS

Groups of small copper mines, including the Mt. Coffin. Elsie Adair, Diamond Jubilee and West Jubilee were worked between 1880 and 1920. Ore in these mines consisted mainly of secondary copper minerals: malachite, chalcocite, cuprite, and native copper. The grade of hand picked ore assayed up to 35% Cu. Average grade, also of probably hand picked ore, was between 9 and 15% Cu.

Chalcopyrite (primary copper ore) was reported, at depth in the Diamond Jubilee, and Elsie Adair Mine. Primary copper has not been mined from the area.

Production figures are unreliable but appear to be of the order of thousands of tons of ore.

MINERALIZATION

Geological mapping by the Mines Dept. provides details on mineralization, which includes occurrences of copper not previously mined.

Copper mineralization occurs:

(a)

Within the diapir, as disseminated copper sulphides in blocks of dolomitic marble, the most prominant of which occurs just inside the northern edge of the diapir. Chip sampling at the surface indicates 1.1% Cu here. The maximum extent of this mineralization along strike is not known. One diamond drill hole proves copper to 310 ft. depth, total intersections 18 ft. of 0.9% Cu. This band gives geochemical and induced polarisation anomalies.



Page 3.

2. MINERALIZATION (CONTD.)

(b)

Copper mineralization outside, (essentially in the rim-rocks), of the diapir, include all of the previous workings (noted above).

The Mines Dept. believes that this is epigenetic (hydrothermal-introduced) mineralization.

They state that "the primary vein mineralization is widespread, they are uneconomic and have not been worked. However these veins have been responsible for the equally widespread, economic, secondary mineralization", (as mined in the old workings).

This secondary mineralization consists of malachite, chalcocite, cuprite and native copper, distributed along bedding planes and joints. It is mainly restricted to the upper siltstones of the Yudamutana Sub Group, and the Tindelpina Shale Member of the Tapley Hill Formation.

It is also stated by the Mines Dept. that "secondary copper mineralization diminishes greatly below about 100 ft. from the surface, and it is absent below 200 ft. - the deepest level of the mine workings. No primary mineralization is found below the secondary copper.....".

COMMENTS

The fact that copper mineralization has been found in a different mode of occurrence from that in the old workings obviously gives extra scope for the finding of significant mineralization away from these "known" occurrences. The mineralized dolomitised marble horizon in the north part of the diapir, on geological grounds, warrants further investigation, initially to establish its strike length, its depth down dip, and the continuity of copper in this horizon.

It is possible that similar bands also occur inside the diapir, these may be found by further geological investigations of geochemical and geophysical anomalies (see later).

The mode of occurrence of the predominantly secondary mineralization, outside the diapir, is well exposed in old workings. The horizons in which this occurs is fairly well delineated.

So far the copper in these horizons has been considered to be only in the form of secondary minerals, to a depth of 200 ft. Reasonable reserves of secondary ore have been proven to 150 ft. in the Elsie Adair claims area (see later), and reserves of the same order could be expected to occur along the Mt. Coffin line of workings.

Further, the statement in the Mines Dept.
report, that no primary sulphides are found below the secondary copper, is contradicted by earlier observations, that primary copper sulphides occur at depth in at least the Diamond Jubilee and Elsie Adair Mines. Therefore, there is potential mineralization below the secondary copper exploited by old mines, and drilled to 150 ft. by the Mines Dept.

3. GEOCHEMICAL SURVEY

The soil sampling at 100 ft. intervals on 27 sample lines 800 ft. apart has produced a very good geochemical anomaly map for copper. The anomalies reflect both the mineralization type (a) in dolomites within the diapir, and the type (b) in stratigraphic horizons around the rim of the diapir, including the upper siltstones of the Yudamutana Sub Group, and the Tindelpina Shale Member.

The detail in which this particular survey was done is adequate. However to obtain maximum information from this work, sampling on the same basis needs to be extended south, in the area of the station boundary fence, and south of the Mt. Coffin workings. This is necessary since anomalous zones obviously extend south of the limits of the survey area in these locations.

4. GEOPHYSICAL SURVEYS

Induced Polarisation, self potential and magnetic surveys were carried out over the central part of the diapir.

The I.P. did not cover the belt of secondary mineralization between Mt. Coffin and the Silver Jubilee.

Induced Polarisation (I.P.) anomalies have been established in the N.W. of the area and the subsequent drilling of one diamond drill hole indicates that the source of the one anomaly drilled is probably due to disseminated copper sulphides.

An examination of the I.P. data indicates that the other anomalies in this area may well have a similar source. Several anomalies occur on the margin of the area covered by the I.P., indicating that the I.P. work should be extended. Also anomalies within the survey area need further detailed, I.P. coverage, basically to produce more reliable data which may more accurately determine their size and position in space.

4. GEOPHYSICAL SURVEYS (CONTD.)

This would be necessary before meaningful comments could be given on the probable extent of the anomalous zones, and before drill targets could be confidently suggested.

The secondary sulphides in the Mt. Coffin to West Jubilee belt of secondary mineralization would give a response to I.P.; so would the primary sulphides which occur at depth below this belt.

Therefore it is likely that an I.P. survey over this area would determine anomalous areas which would be worthy of further investigation.

It is our opinion that the self potential survey is not likely to establish meaningful anomalous zones of the type of mineralization known in this environment.

The significance of magnetic anomalies, as indicative of the type of mineralization in this area is doubtful.

5. DIAMOND DRILLING.

The one diamond rill hole (MC 1), in the entire area was aimed principally at intersecting an I.P. anomaly in the north-west of the area at about 250 ft. depth. This anomaly is believed to be due to copper sulphides disseminated through a carbonate horizon inside the diapir.

An examination of the data indicates some doubt as to whether the hole penetrated the genuine source of this anomaly.

5. DIAMOND DRILLING (CONTD.)

Certainly the coordinates of the collar stated in Appendix 1 Rept. Bk. No. 69/6, are incorrect. Given that the hole was drilled on line 3200E, the stated 4600N coordinate would locate the hole well outside the I.P. survey area. If the location is taken as on the Geological Map (No. 69-211), it is still possible that it missed the main I.P. source, according to the I.P. data given for this line in Rept. Bk. No. 65/120. Hence a check is required here.

This hole did in fact penetrate a total of 18 ft. of disseminated mineralization, averaging 0.9% Cu. This is of sub-economic grade. However the potential strike length of this belt of mineralisation, indicated by I.P. and corresponding geochemical anomalies is of the order of 5600 ft. to the N.W. of this drill hole. This one hole therefore falls very short of adequately testing this zone. It seems likely that this zone is mineralized along this length. No indication however can be given of the exact nature, or grade of this mineralization.

6. SHALLOW ROTARY PERCUSSION DRILLING

A programme of 41 holes, drilled on a grid pattern, each to an average depth of about 150 ft. was carried out to test several geochemically anomalous areas outside the diapir, in the vicinity of the Elsie Adair and West Jubilee Workings.

6. SHALLOW ROTARY PERCUSSION DRILLING (CONTD.)

It is understood from Mr. Munt (pers. comm.) that the Mines Dept. using the results of A.M.D.E.L., have proven from this drilling programme 400,000 to 800,000 tons of ore at an overall average grade of 1.2% Cu.

From the information received from the Mines Dept. the author could not confirm this figure.

The footages and assays of the drill intersections are given in this data from both areas. The map showing the drill sites for the West Jubilee Workings are given. A similar map showing the sites from the Elsie Adair Workings, although it is referred to in the text of the reports, is missing from the set of data received.

In the West Jubilee area the drilling of 10 holes proved the following intersections of possible economic value:

HOLE NO.	WIDTH AND GRADE	FROM	TO	
CW 18	36 ft. @ 1.12% Cu	114 ft.	150 ft.	
CW 21	24 ft. @ 1.61% Cu	42 ft.	66 ft.	
CW 24	24 ft. @ 1.1 % Cu	30 ft.	54 ft.	

These assay values of <u>possible</u> economic interest, when considered in terms of their depth, and their isolated, apparently unconnected occurrences, suggests that <u>in terms of this detail of drilling</u>, the copper mineralization in the area tested near the West Jubilee is not economically viable; assuming that grades of less than 1% are presently not of economic significance.

In the vicinity of the Elsie Adair, and more particularly the Elsie Adair South Workings, more encouraging results were obtained, being the best so far proven in the whole area. The following intersections of possible economic significance were obtained from the 24 holes. These holes were drilled mainly along only one line across the strike of mineralized horizons.

HOLE NO.	WIDTH AND GRADE	FROM (FT.)	TO (FT.)
CW 6	36 ft. @ 1.55% Cu	114	150
	with 6 ft @ 4.0% Cu	138	144
CW 12	116 ft @ 0.58% Cu	0	116
•	with 8 ft @ 3.12% Cu	108	116
CW 39	60 ft @ 2.13% Cu	90	150
	with 30 ft @ 4.06% Cu	96	126
	with 6 ft @ 6.5% Cu	108	114
CW 14	108 ft @ 1.5% Gu	0	108
•	with 36 ft @ 2.93% Cu	0	36
	with 12 ft @ 4.1% Cu	0	12
W 36	24 ft @ 2.2% Cu	126	150
		•	

CONCLUSIONS

This area would appear to be one of the best copper prospects of the type associated with diapirs, so far known in South Australia, and it certainly warrants further investigation. From the information available it seems reasonable to expect that tonnages of at least tens of thousands of tons of ore, possibly hundreds of thousands of tons, of the order of 1% Cu could be proven up.

The data on the area obtained by the Mines Dept. is reasonably good as far as it goes. The geological map adequately shows the different rock types and their relationships. It also establishes two different modes of occurrence of copper mineralization, and delineates the zones in which this mineralization occurs. In summary, this map provides adequate geological information on which to base further exploration.

The results of the geochemical survey establish significant anomalies which indicate the extent of potential copper mineralization. To obtain maximum geochemical information, this survey needs to be extended slightly along the southern margin of the area.

The Induced Polarization survey establishes the presence of disseminated sulphides in a dolomite band inside the northern margin of the diapir, (type one mineralization). This zone has a potential strike length of 5000 ft. A pronounced geochemical anomaly corresponds to the I.P. anomalies and this zone therefore should be given high priority in further work.

CONCLUSIONS (CONTD.)

More detailed I.P. is required over this zone to accurately determine the size and location of anomalous zones, before drilling targets can be reliably nominated.

Disseminated sulphides are associated with secondary mineralization in the eastern end of the area, and primary sulphides occur below this secondary mineralization. This is type 2 mineralization, and is more or less restricted to a stratigraphic horizon (largely the Tindelpina Shale Member), extending from the Mt. Coffin Workings to the Diamond Jubilee. This horizon gives rise to a pronounced geochemical anomaly both along the belt between these workings, and also in a belt just outside the north-eastern margin of the diapir.

An I.P. survey should be conducted over these two belts, in an attempt to define relatively concentrated areas of sulphides which may be investigated by drilling. It should be remembered that the Tindelpina Member contains pyrite, this would give an I.P. anomaly, which if due to pyrite only, would not be of economic significance.

On the other hand, shallow percussion drilling near the Elsie Adair workings proved that this Member contains some of the highest grade copper intersected by drilling in the area which justifies further investigation of the horizon.

One diamond drill hole has been drilled in the area. This was to investigate the mineralized dolomite inside the northern margin of the diapir, and aimed at the source of an I.P., and corresponding geochemical anomaly. The results were disappointing, yielding only a total intersection of 18 ft. of average 0.9% Cu. However, there is some doubt that this drill hole intersected the maximum source of the I.P. Also in spite of this result the strike length of

this zone of some 5600 ft. to the west, which is anomalous in both I.P. and geochemical effects, warrants initially at least another 3 diamond drill holes, each to about 300 ft., on lines 800 ft. apart. Encouraging results should be followed up with more detailed drilling.

The shallow percussion drilling which has been carried out near the Elsie Adair and West Jubilee Workings, suggested some potential of proving significant reserves of secondary copper mineralization near the Elsie Adair South Workings.

MOORE

It has been reported to the author that the Mines Dept. and A.M.D.E.L. have estimated from 400,000 to 800,000 tons of 1.2% Cu from the percussion drilling. The information in the data reviewed could not substantiate this.

This information at hand, gives the results of the A.M.D.E.L. bulk sample analysis of holes from mainly along one line, to an average depth of about 120 ft. Over a distance of 400 ft. length, and assuming a continuation of the values for 10 ft., both sides of each hole in this 400 ft.; a tonnage of about 40,000 tons, average grade of 0.52% Cu can be estimated.

Therefore it is seen that when bulk tonnage is considered, on the basis of the present drilling data, the sporadically distributed high grade values are substantially diluted to the extent that the possibility of unselectively mining the whole of the mineralized area economically, is probably impossible.

This drilling proved that the most promising values occur within the Tindelpina Shale Member as secondary malachite, chalcocite and cuprite, currounding primary quartz-copper sulphide veins.

The erratic nature of the mineralization makes it difficult to determine the overall grade in any area, and further detailed drilling between the existing holes and below the depths presently drilled, is required both in the secondary mineralization and in zones where primary veins are common, close to or within the Tindelpina Shale horizon, to outline limits of possible economically recoverable ore. Initially some of the existing holes should be deepened, since several "bottom" in values of 1% Cu or better. This would suggest a number of ddeper, probably diamond drill holes are required to investigate the possible downward extention of the upper mineralized areas in depth. The continuity of these values along strike would also neeed to be determined. This is therefore the second zone in the area which warrants immediate further investigation.

Recommendations

- 1. That the two zones of mineralization, recognised on geological grounds, and which are geochemically anomalous and also parts of the Tindelpina Shale Member which are also geochemically anomalous should be considered worthy of further investigation.
- A follow-up IP survey should be carried out over the dolomitic marble along the north-western margin of the diapir. Semi reconnaissance I. P. of appropriate detail should be carried out over the mineralized belt between the Mt. Coffin workings and the Elsie Adair workings, and also over the Tindelpina Shale Member along the North Eastern margin of the diapir.

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Recommendations (Cont'd)

3. The soil geochemical survey should be extended along the southern extent of the survey done by the Mines Department.

4. Significant I.P. anomalies, particularly those which correspond with geochemical anomalies. or those which are continuous with areas of potential ore delineated by previous drilling should be drilled. Percussion drilling may be adequate initially, if a unit is used which can penetrate up to a vertical depth of say 300 ft. Deeper anomalies, which may well include areas below the area already drilled by shallow percussion drill should be investigated by diamond drill. The amount of drilling will depend largely on the anomalies found. budgeting purposes it could be anticipated that initially, at least three holes to depths of about 300 ft. will be necessary in each of the 3 areas surveyed by I.P. i.e., a total of 2,700 ft. of drilling.

Budget:

Following are estimated costs for the proposed recommendations:

Induced Polarisation

 Check I.F. over the dolomitic marble horizon, semi reconnaissance I.P. - Mt. Coffin to Elsie Adair, semi reconnaissance I.P. - Tindelpina Shale N.E. of the diapir - 9 days operating at \$210 per day \$1,890.00

2. Follow-up detail on dolomitic marble horizon

3 days at \$210 per day \$ 630.00

3. Positioning charge for crew \$ 300.00

4. Accommodation for crew allowing \$\frac{\pmathcal{e}}{2}\$ per day,

3 men, 11 days \$\frac{330.00}{990.00}\$

5. Miscellaneous, vehicle in field, etc. \$ 150.00

\$3,960.00 \$3,300.00

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Geochemistry

Collection of 100 soil samples, taken from 6" to 9" below ground in extention of existing grid lines of Mines Department. Assuming collection done by Boolooroo Mines - no charge

Analysis of 100 samples for copper only, including sample preparation -- \$100.00

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LIST OF DATA REVIEWED

L.C. BARNES 1969

"Report on Exploration - Mt. Coffin Diapir
Northern Flinders Ranges".

Vol. I and Vol. II. Dept. of Mines S.A.

(D.M. 773/69).

(Including all plans attached to this report,
exclusive of plan 69-174 entitled

'Mt. Coffin Diapir - Elsie Adair and South
Adair Workings - geology and drill hole
locations'.

D. McPHARLIN & B.J. TAYLOR

1967

"Report on Geophysical Surveys in the Mt. Coffin Diapir Area". (Including attached plans).

Dept. Mines S.A. (D.M. 1200/65).

B.J. TAYLOR 1968

"Report on Geophysical Surveys in the Mt. Coffin Diapir Area, Appendix No. I".

Department Mines S.A. (D.M. 1200/65).

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Mandely

AN3/516/0

208/71

21 July 1970

Reclocrec Mining Co, C/- Mr M.J. Ross,

18 Moore Street, SOMERTON PARK SA 5044

REPORT AN208/71

YOUR REFERENCE:

• •

Application dated 9/7/70

IDENTIFICATION:

As listed

DATE RECEIVED:

13/7/70

Enguiries quoting AN208/71 to Officer in Charge please.

Analysis by: A.E. Francis

Officer in Charge, Analytical Section:

A.B. Times

for N. Draper Director.

pla

c.e. Dr R. Ramdohr, C/- Mr M.J. Ross, 18 Moore Street, SOMERTON PARK SA 5044

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JOB 208 71

AMDEL GEOCHEMICAL SERVICE

0021 BATCH NO. /

FORM	12					·		·	
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0022 BATCH NO. λ

AMDEL GEOCHEMICAL SERVICE JOB 2021-11

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19	C404/268-60°	25-30		160			i.	
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JOB 208/71

AMDEL GEOCHEMICAL SERVICE

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18		50-55		3200		<u> </u>			
19	C405/264-40°	55-60		980					_
20	4. 1.1	40-45x				ļ		_	
	1	1	· * : * 2	1 \	l	1	1 1	1	

0025

JOB 208 71

AMDEL GEOCHEMICAL SERVICE

FORM	12	, , , , , , , , , , , , , , , , , , , 			 	
ŢŢ	Sample No.		Cu			
1	C405/264-40°	60-65	580			
2		65-70	280			
3		70-75	240			-
4		75-80	480			
5		80-85	. 700	·		
6		85-90	440			
7		90-95	340			
8		95-100	280	,		
9		100-105 x	240			
10		05-110	440			
11	*	110-115	280		. •	
12		115-120	180			
13		120-125	160			
14		125-130	180			
15	5	130-135	200			
16	STD. 472					
. 17		135-140	380			
18		140-145	400			
19	C405/264 - 40°	145-150	360			
20	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	100-105 x				
	·					

JOB 208/71

AMDEL GEOCHEMICAL SERVICE

FORM	12								
TT	Sample No.			Cu					
1	C405/264 - 60°	0-5	not rec'd		.,				
2		5-10	<i>'</i>	1080	com tive values assessmen	agan a aboug a choosed Section	<u> </u>		
3		10-15		400					
4		15.20		640					
. 5	STD.51/1								
6	/	20-25		1820					1
7		15-30		700					
8		30-35		1080					-
9		35.40		900					
10		40-45		7000			_		
11		45-50		2000					
12		50-55		>10,000	1.16%				
13		55 60 x		4600					
14		60-65		1200					
15		65-70		4200					
16	<i>y</i>	70-75		560					'
17		75-80		540					
18		80.82		220					
19	C4051264-60°	85.90		680					
20		55-60x						, i	
. ,							_L	;	

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JOB 208 71

AMDEL GEOCHEMICAL SERVICE

I-UNI'I	12					 			
TT	Sample No.			Cu					
1	C405/264 - 60°	90-95		420				:	
2	,	95-100		180					,
3		100-105		220					
4		105-110		260					
5		110-115		160					<u></u>
6		115-120	not tec'd						
7		120-125		320					
8		125-130		900					
9	`	130-135		460					
10		135-140		280					
11		140-145		420				,	
12	7	145-150		680					
13	STD. LM2								
- 14	492/152 - 750	0-5		500					
15		5-10	not rec'd						
16		10-15		720					
17		15-20		440					
18		40-25	not rec'd						
19	492/152 - 750	25-30		620					
20	Ţ.	100-105	X						
	·— — — — — — — —		T				ı · ·		

PROPERTY AND STREET STREET, WHITE STREET, WAS A STREET, WHITE STREET, WH

FORM 12 JOB 208 71 AMDEL GEOCHEMICAL SERVICE BATCH NO. \S Cu TT Sample No. 492/152-750 30-35 700 1 35-40 6400 2 40-45 8600 3 3000 45-50 4 5 STD. 5111 50.55 7400 6 55-60 2600 7 1160 60-65 8 880 65-10 9 /300 70-75 10 1060 75-80 11 80-85 460 12 85.90 320 13 90-95 340 14 95-100 120 15 100-105 X 120 16 120 105-110 17 60 110-115 18 492/152- 750 50 115-120 19 100-105 20

							0020		
ý Form	108 20817i		AMDEL	GEOCHEM	ICAL SERV	ICE	BATCH N	10.9	
FORM	12 (Υ	r	<u> </u>	T T				
TT	Sample No.			Ch					
1	492/152 - 750	120-125		30					
2		125-130		30					
3		130-135	×	60					
4		135-140		50					
5		140-145		80				<u> </u>	
6		145-150		50					
7;	STO.LM2						ļ		
8	Numbers obliterat	ed		420				·	
9	n not tead	able		720					
10		130-135	х						
11	131K								·
12								L	
13									
14									
15						۸		· ·	
16	٧ .	ļ					1		
. 17							10004	CI	
18							1-12		
19						K	sulls n	v ponv	
20									
		1		1	↓ ↓		L		

AN3/516/0

"只有的情况,你就能够找到了。"唐本公司的"阿里拉拉"的"阿里拉拉"的"阿里拉拉"的"阿里拉拉"。

71/71

15 July 1970

Booheron Mining Co, C/- Mr M.J. Ross, 18 Moore Street, SOMERTON PARK

8A 5044

REPORT AN71/71

YOUR REVERENCE:

Application dated 6/7/70

IDENTIFICATION:

As listed

DATE RECEIVED:

6/7/70

Enquiries quoting AF71/71 to Officer in Charge please.

Analysis by:

A.E. Francis, R.J. Boreham and D.C. Fox

Officer in Charge, Analytical Section:

A.B. Timme

for N. Draper Director.

c.c. Dr R. Ramdohr, 3 Skipton Avenue, SOMERTON PARK SA 5044

0031

ANALYSIS
Oze/Long Ton

Sample Mark	Gold Au				
C493/156 55 ⁰					
20-25	<0.01				
45-50	<0.01				
70-75	<0.01				
95-100	<0.01				
120-125	<0.01				
145-150	<0.01				

ANALYSIS

Sample Mark	Cerbon dioxide
R5 0-5	1.45
5-10	0.3
10-15	0.3
15-20	0.05
20-25	0.05
25-30	0.05
30-35	0.45
35-40	3.0
40-45	6.25
45-50	4.0
50-55	7,6
55-60	17.5
60-65	10.5
65-70	11.9
70-75	11.5
75-80	11.3
80~85	10.0
85- 9 0	11.0
90-95	7.6
95-100	7.6
100-105	7,2
105-110	7.2
110-115	7.3
115-120	8.0
120-125	6.0
125-130	5.8
130-135	6.0
135-140	5.8
140-145	6,6
145-150	7.1

0033 BATCH NO. /

AMDEL GEOCHEMICAL SERVICE

JOB ///// Cu Sample No. TT not recid. 398/304/35° 0'-5 1 5 10 2 10-15 7/0 3 920 15-20 4 20-25 1200 5 25-30 × 2700 6 30-35 5400 7 35-40 2/00 8 40-45 2200 9 45-50 1800 ·10 2300 50-55 11 55-60 850 12 13 STD. 5111 60-65 920 14 65-70 820 15 70-75 1600 16 75.80 1500 17 10-85 //00 18 85-90 3981304/350 830 19 25-30 x

FORM	JOB 11171	AMDE	L GEOCHEMICAL	. SERVICE	ВАТСН	NO. //	
TT	Sample No.		Cu				
1 -	3981304/350 90-	15	830				
2	95-	100	1100				
3	STI).LM 2						
4	100-	105	2000				
5	105-	110	2700				
6	110-	115	1500				
7	115-	120	590				
8	120-	125	320				
9	125-	130	240				
10	130-	135	230				
11	3981304/35 135-	140	430				
12	39813041550 0-	5	240				
13	5-	10	280				
14	10 -		170				
15	15 -	2.0	240				
16	20-	25 ×	2300				
17		30	3900				
18	30-	35	5700	personal distribution between the control of the co			
19	398 304 55° 35-	40	2900				
. 20		25 x					

0035

	100	41171	
•	JOR	71/71	
MUUT		1	

AMDEL GEOCHEMICAL SERVICE

	FORM	12				,		 1		T
	TT	Sample No				Cu				,
-	1	3981304155°	40-	45		980				
_	2	- 1	45-	50		470		 		
-	3		50-	55 X		610		 		
, -	4		55-	60		1500		 	1	
-	5		60-	65		920	e :			<u> </u>
-	6		65.	70		1700				
_	7		70 -			650				_
-	8		75-	80		1700				ļ <u>.</u>
_	9		80-	85		800				
_	10		85-	90		890				
	11		90-	95		600				
_	12		95-	100		860				
-	13	ST17. 51/1			6.					
-	14	/	100-	105		9000		 		
_	15		105-	110		2700				
	16	·	110-	115		1800		 		
	17		115-	120		980		 		
	18		120-	12.5		280				
_	19	398 304 55°	125-	[30		220				
_	20		50-				,			
-										

TT	Sample No.			 Ĉ'n				
1	398/304/55° /	30 -	135	230		 		ļ
2		135-	140	310		 		_
3		40-	145	 180	 			<u> </u>
4		45-	150	150		 		
5	STIZ. LM2			<u> </u>				
6	3971304155°	0-	5	1300		 		<u> </u>
7		5-	10	 700			_	ļ
-8		10-	15	 160		 	: .	
9		15-	20	 130		 		
10		VD-	25	/00				
11		25-	30	190		 		
12	. :	30 -	35	210	* ··· ·	 		
13	,	35-	40	190				
14		40-		450				
15		45-	50 X	370				
16		50·	\$5	670		 		
17		55-	60	870		 		
18		60-	65	950		 		
19	397/304/55°	65-	70.	 1.6%				
20		45-	50 x					
								J

FORM	JOB 71/71		AMDEL	GEOCHEMIC	CAL	SER	VICE	ВАТСН	NO. 5	2
T T	Sample No.			Cu						
: , 1		75		8800						
2	15.	80		4800						
3		82		4500						
. 4	85-	90		2300						
5	90-	95		2000						
6	95-	100		3000						
7	100-	105 ×		4/00						
8	105-	110		5400					<u> </u>	
9	110-	115	` .	4700	-	_			<u> </u>	
10	115-	120		1600		_		<u> </u>		
. 11	120-	125		/200					.	
12	125-	130		1800						ļ
13	130-	135		2300						
14	135-			2500						
15	140-	145		1700				ļ	ļ <u>.</u>	<u></u>
16	397/304/550 145-	150		930						
17	Str) . 51/1	Marie Carrier (1971) Security and advent or the control of						M = 200 1 1 1 21		
18	4061260135° 0:	5		260						
19	4061260135° 5-			190						
20	100-	105 X								
	1									l

JOB FORM 12	71/71	AMDEL GEOCHEM	ICAL SERVICE	BATCH NO.	6
TT Sampl		Cu			
	60/350 10-15	260			
2	15-20	2800			
3	20.25	8100			
4	2.5-30 ×	2200			
5	30-35	3600			
6	35 40	1.1%			
7	40-45	4400			
8	45-50	2000			
9	50-55	1600			
10	55-60	530			
11	60-65	360			
12	65-70	320			
13	70- 75	260			
14	75-80	290			
15 STD-LM				_	
16	80:85	2/0			
17	85-90	190			
18	90-95	/80	<u> </u>		
19 406/260	135° 95-100	210			
20	1 30 x				
•	ı	1			

AMDEL GEOCHEMICAL SERVICE BATCH NO. /

FORM	12				 		
TT	Sample No.		Cu				
1	4061260135° 100-	105	230		 		ÿ.
2	105-	110	200		 		
3	110-	1	240		 		
4	115-	מכו	200		 		
5	510.511	·			 		
6	493156155° 0-	5	/50		 		
. 7	5-	10	150		 		
8	10-	15	790				<u>'</u>
9	15-	2.0	430		 		
10	20-	25	770		 		
11	1,5-	30	490				
12	30-	35	250		 		
13	35-	40	590		 		
14	40.	45 x	230		 		
15	45	50	100				
, 16	50-	55	90		 	a a same	
17	55-	60	6300		 		
18	60-	65	2000		 		
19	493118B155° 65-	70	5200		 		
20	1 7 1	45 ×			 		
		1 1	1	· •			

JOB /// //

AMDEL GEOCHEMICAL SERVICE

 $\underset{\text{BATCH NO. } 2}{0040}$

PORM	12				·	,	·	1	
TT	Sample No.			Cu					
1	493/156/550 70-	75		5900					
2		80		3100					
3	80 -	85		1400					
4	85-	90		780					
5	90-	95		480					
6	95-	100		230					
. 7	100-	105 ×		130				,	
. 8	105-	110		160					
9	110-	115		430					
10	115-	120		550					
11	120-	145	,	210					
12	125-	130		140					
13	130-	135		160					
14	135-	140		110					
15	140-	145		70					
16	493/156/55° 145-	150		80					
17	STI7. LM 2			education and the state of the				ary at agent America county of	
18	493/152/55B 0-	5		220					
19	1 ' 1	10		290				`	
20	100-	105 x							

and the control of the second of the second

JOB /// 71 $\begin{array}{c} 0041 \\ \text{BATCH NO.} \end{array}$ AMDEL GEOCHEMICAL SERVICE Ciu Sample No. TT 10- 15 390 49311521550 270 15- 20 2 20 - 25 × 510 3 25- 30 520 4 30 - 35 5 380 6 511).5111 35-40 570 7 493/152/155 40-45 1700 20- 25 x 9 BIK 10 11 12 13 Cocke CI Kennis 14 15 16 17 18 19 20

0042

Form 38

REPORT AN 71/7/

							1		T	
Sample No.	[°] l, CO ₂			Sampue Sampue No.	1.002					
H5 0-5	1.45	N.		H5 125-130	<i>5</i> 8					
5-10	0.3			130-135	6.0					<u> </u>
10-15	03			135-140	5.8		<u> </u>	•		
* 15-20	0.05			140-145	6.6					
20-25	0.05	,		145-150	7.1		<u> </u>			
25-30	0.05	<u> </u>		`.						
30 · 3 5	045		•		RJ Box	clan	7 lours			
35-40	3.0			,						
40 - 45	6.25			1						
45-50	4·0	·								-,
50.55	7.6	i j								
55-60	17.5									,
60-65	10.5									1
<u> 6</u> 5. 70	11.9								:	
70-15	11-5									-
75 -80	11.3							 		
80 -85	10-0	į.								,
85-90	11.0		* s							
90 - 95	7.6									
95-100	7.6	ŧ.							2	
100-105	7.2							` <u> </u>		
· 105 ·11 0	7.2									
110-115	7.3	7.								
115-120	8.0									
120-125	6.0									

Area BOOLOOROO

Dip 90°

Date 15/12/70

Drilled	vď	BORING	ENTERPRISES

<u>Depth</u>	Cu. ppm ((Cu%)	Pb.	Aq.		Colour	Remarks
5- 10	890					L. Brown	
10- 15	910					11	
15- 20	2300					ll .	
20- 25	860					H	
25- 30	3400					11	
30- 35						ts .	N o
-	2000					u .	и о
35- 40	2000						v i s i b
40- 45	1780					Mauve	1 e
45- 50	1500					L. Brown	
50- 55	1200					;" H	copp
55- 60	1500					"	e r
60- 65	2400						
65- 70	1300					Brown	
70- 75	220					H	
75- 80	95					L. Brown	*
80- 85	120					ii .	
85- 90	60					Yellow Bro	own
90- 95	45					ŧi	
95-100	280					41	
100-105	40					ii .	
105-110	780					ti	
110-115	430					Off White	
115-120	260					White	
120-125	300					111200	
125-130	760					н	
130-135	3200					Off White	
		0.51				Yellowish	Minor Malachite
135-140		0.51					
140-145	2800					Off White	& Azurite
145-150	780						
150-155	1400	Λ F				L. Brown	
155-160		0.5				Grey "	•
160-165	920						
165-170						· .	v. 1
170-175	6600)	0.53				Brown	Malachite
175-180	5200)	• -				Grey	Sulphides
180-185	2900					B. Grey	
	1800					ti	Minor Chaleopyrite
190-195	610					11	II
195-200	710			•		ti .	11
200-205	5500 0	1,55	/20	/2	250	11	Minor sulphides
205-210	3100		/20	/2	100	ń	11
210-215	4000		/20	/2	230	II .	Considerable sulph:
215-220	2900	•	/20	/2	65	ń	11
220-225	650		/20	/2	30	ů	ti .
225-230	7 50		/20	[2	20	Brown	Core - some t illite some mica
230-235	1000		/20	12	50	II .	Iŧ
2 35 -2 40 2	(0000		/20	/2	600	Grey	Considerable sulph:
240-245	2700 }	1-26	/20	12	/20	11	ti
245-250	ل5000ء		/20	/2	300	H	fl
2 50 - 255			/20	/2	/20	11	Minor "
255-260			/20	/2	90	a	0
2 60-265			/20	/2	110	ů	Some quartz
			/20	/2	65	U)	Sulphiaes
£03-470			4	-	~ -		
2 65 - 270 270- 27 5			/20	/2	120	et _.	II .

Cont/....

397/324

Depth	Cú, ppm	(<u>Cu%</u>)	Pb.	Aq.	Sb.	<u>Colour</u>	Remarks
280-285	17000)	/20	12	260	0	u
285-290	3400		/20	12	260	u	0
290-295	4600) į	/20	/2	430	H	Minor "
295-300	13000	50/0	/20	/2	450	u	H
300-305	42000	1.66	60	4	1900	u	14
305-310	5200		/20	<u> </u>	240	ü	U
310-315	23000)	/20	/2	1100	ti	tr
315-320	17000) [/20	/2	850	Ħ	u
320-325	15000)	[20	[2	670	D	11

0045 SUMMARY OF DRILLING WORK MT. COFFIN DIAPIR.

5 OPENIX.		007.0070			<u> </u>			•		
	R	OOLOORO	<u>u</u> .	No.			ys f			
Borehole No.	Dip	Depth	Cu	Ag	Au.	Sb	Zn	Pb	CO ₂	
B 492/140	75° SW	160	31							
B 492/148	70 ⁰ W	1601	31							
B 492/152	75 ⁰ SW	150'	28							
B 493/152	55° SW	45'	9							
B 493/156	55° SW	150'	30		6				30	
B410/240	70° N	250	49							
B406/252	70° N	250'	50							
B404/260	70° N 35° N	1801	3 6							
B406/260		120	24							
B404/264	90°	234'	47							
B405/2.64	40° N	150	30							
B405/264	60° N	150'	28							
B398/268	900	500'	97							
B402/268	60° N	180	3 6							
B404/268	40° N	150'	3 0							
B404/268	60° №	150'	29							
B398/272	70 ⁰ N	250'	49							
B398/276	70° N	250'	49							
B398/280	70 ⁰ N	250'	49							
B 396/284	70° N	245'	48							
B398 /284	70° N	250'	49							
B396/288	70° N	250'	40				•			
B398/288	70 ⁰ N	250'	49							
B396/292	70° N	260'	51							
B398/292	70° N	250'	49							
B396/296	70 ⁰ N	230'	52				4			
B398/296	70° N	225'	44							
BR96/300	70° N	240'	48							
B398/300	70 ⁰ N	245'	49							
B392/304	90° N	3 8 5 '	66			_				
B396/304	80° N	212	42		•	· .				
B397/304	55 ⁰ N	150'	30						•	
B398/304	350 N	1401	26							
B398/304	55 ⁰ N	150'	30				,	(1)	12112	
B394/308	70° N	2501	49		•		1	Y Dr	EAGUEN ()	
B392/312	90°	450'	89				\[\frac{1}{2}\]	1	ECEIVED A	
B396/312	70° N	210	41				11	1	6FEB 1971	
B397/316	70° N	230'	45				1		T. OF MINES 6	
B395/320	70 ⁰ N	250'	49					$\langle \hat{\mathcal{N}} \rangle$	1272	
B397/320	70° N	210'	33					~	1100	

SUMMARY OF DRILLING WORK MT. COFFIN DIAPIR.

BOOLOOROO.

				No.	of As	says	for	:		
Borehole No.	Dip	Depth	Cu	Ag	Au	Sb	Zn	Pb	CO2	
B397/320	70° n	250'	49							
B397/320	70° N	210'	33							
B397/324	70° n	240°	47							
B397/324	900	330'	6 5	26		26		26		
B397/328	70° N	250'	49							
B 3 97/3 32	70° N	230'	45							
B395/336	90 ⁰	500'	99							
B397/336	70° N	2501	49							
B396/340	70° n	190'	37							
B396/344	70° n	2351	46							
B396/348	70° N	1801	35							
B400/396	70° n	240'	45							
DJ4 16/504	70 ⁰ s	2501	49							
DJ414/508	70° s	235'	46							
DJ418/508	60° S	240'	47							
53		,181'	2379	26	6	26	4	26	30	

0047 SUMMARY OF DRILLING WORK MT. COFFIN DIAPIR.

TAPLEY.

			Int	ner.									
						No.	of	Ass	ays	for			
B	orehole No.	D	ip	Dept	h Cu	Ag		Au	Sb	Zn	<u>P</u> b	_ CO ₂	
													
R	A 392/352	70	o N	2501	40								
	A 396/352	60	0 ,		49								
	A 396/352	90	o N	235	45								
ינים	1 330/354	90		500'	97								
	•												
E)	A 390/356	90	0	250	49								
	A 392/356	90	0	500'	98							-	
	A 394/356	90	0	250°	45					,			
	A 396/356		о И	230									
	A 3 98 /356		o N		46								
-	. 330/330	ου	1/4	240'	47		•						
137	202/200	70	٥	3 = 0.1									
	392/360			250	49								
	396/360	80	o M	256'	48								
E.F	3 98/ 3 60	70	N	225'	44								
	392/364	709	И	2301	45								
EA	396/364	70	N	2401	45								
			_										
EA	389/368	90)	485'	94								
EA	392/368	90	•	250*	49								
EA	395/368	90)	250	49								
	396/368	70 ^c		230	45						•		
	398/368	700		200	39								
		, 0		200	23								
FΆ	396/372	70 ⁹) _{NT}	235	4.5								
	3 97 /3 72	70) N		46						•		
	398/372	70 ^c		230'	45								
	399/372	70 ^C		250'	49								
ĽA	399/3/4	/0~	N	2351	45								
177.3	207/276	0)		_								
	§97/376	900	1	245	7 1								
	398/376	70°	N	245'	46	25							
	399/376	60°		230'	45								
	399/376	900		500'	9 9								
EA	402/376	70 ⁰	N	200'	43				-			•	
	3 97/ 3 80	900		225'	44								
	398/380	70 ⁰	N	260'	51								
EΑ	3 98/380	90°		י 500	98								
EA	3 99/380	70 ⁰	N	2501	49			•					
					-								
EA	399/384	70 ⁰	N	2501	49								
ΕA	400/384	700	N	245	48								
					10								
EA	400/388	70 ⁰	N	250'	49								
	100,000	,,	44	450	47								
PΑ	400/392	70 ⁰	NT	240'	47				•				
4.	100/ 538	,,	7.8	440	4/								
₩.T	443/404	90 ⁰		4001	=-								
HU	773/4U4	90		400	79								
T.778	ı	c.0		222	. ~								
WA	1	60°	N	235'	46								
7. 	1	 .0											
WB	1	70 ⁰	N	250'	49								
		_ ^											
WC	1	70°	N	215'	42				-				
_	39		Ì	0761	2163	25							
	tal;-92			•								20	
Ta	pley/Boolooroo		2	2,942	4542	51		6	26	4	26	30	

LOG OF BOREHOLE No. 492/140

Area: DOLOMITE

Dip: 70° S.W.

Date: 29/10/70

Drilled by:

INVESTIGATION DRILLING PTY. LTD. (Percussion Drilling with 3" bit)

Depth	Cu , ppn	Cu (%)	Colour	Renarks
5- 10	50		Yellow	
10- 15	40		L. Brown	
15- 20	40		Yellowish	
20- 25	10		L. Brown	
25- 30	10		n	
30- 35	10	,	ti	
35 - 40	10		L. Grey	
40- 45	10		Creamy	,
45- 50	10		Yellowish	
5 0- 55	10		Creamy	, •
55- 60	10		n -	•
60- 65	2		L. Brown	Minor
65- 70	10		N	
70- 75	2,200		Creamy	Sulphides
75- 80	50		Pinkish	• •
80- 85	30	i i	n n	throughout.
85- 90	20		L. Grey	•
90- 95	7.0		Creamy	
95-100	10		"	
100-105	20		H	
105-110	۵۵		Ħ	
110-115	10		Pinkish	
115-120	15		Creamy	
120-125	20		Yellowish	
125-130	15		L. Brown	
130-135	15		ti .	
135-140	15		Pinkish	
140-145	70.		Ħ	
145-150	10		L. Brown	
150-155	10		H	
155-160	:0		U	

LOG OF BOREHOLE No. 492/148

Area: DOLOMITE

Dip: 70° S.W.

Date: 29/10/70

Drilled by:

INVESTIGATION DRILLING PTY. LTD. (Percussion Drilling with 3" bit)

Depth	Cu,ppm	Cu (%)	Colour	Remarks
5- 10	50		L. Brown	
10- 15	420		Yellow	
15- 20	30		Pink	
20- 25	20		H.	
25- 30	10		11	
3 0- 35	4,500		L. Brown	
35- 40	2,500		u	
40- 45	80		u	
45- 50	260		u	
50- 55	20		· · · · · · · · · · · · · · · · · · ·	
55 - 60	20		u	
6 0- 6 5	10		11	•
65- 70	2 60		n	
70- 75	10		. 0	
75- 80	1,300		ti	
80- 8 5	8,500	0.85	, a	
85 ~ 90	2,000	-	n .	
90- 95	180		ti	
95-100	70		Brown	
100-105	60		Creamy	
105-110	40		L. Brown	
110-115	50		tt	
115-120	20		, ti	•
120-125	20		, u	
125-130	10		` II	
130-135	20		Ħ	
135-140	10		H	•
140-145	10		H .	•
145-150	15		Yellowish	
150-155	2,600		Orange B.	
155-160	110		11 11	

LOG OF BOREHOLE No. 492/152

Area: BOOLOOROO

Dip: 750 S.W.

Date: June/July 1970

Drilled by:

Depth	Cu,ppm Cu(%)	Remarks
0- 5	500	
5- 10	missing	
10- 15	720	
15- 20	440	
20- 25	missing	
25- 30	62 0	
3 0- 35	700	
3 5- 40	6,400	
40- 45	8,600 0.75	
45- 50	3,000	
50- 55	7,400	
55- 60	2,600	
60- 65	1,160	
65- 70	880	
70- 75	1,300	
75- 80	1,060	
80- 8 5	460	
85- 90	320	
90- 95	340	
95-100	120	
100-105	120	
105-110	120	
110-115	60	
115-120	50	
120-125	30	
125-130	30	
130-135	60	
135-140	50	
140-145	80	
145-150	50	

LOG OF BOREHOLE No. 493/152

Area: BOOLOOROO

Dip: 550 S.W. Date: June/July 1970

Drilled by:

De	pth	Cu,ppm	Cu (%)	Remarks
0-	5	220		
5-	10	280		
10-	15	390		
15-	20	270		
20-	25	510		
25-	3 0	520		•
3 0-	35	3 80		
35-	40	570		
4 0-	45	1,700		Hole abandoned because of cave-i

LOG OF BOREHOLE No. 493/156

Area: BOOLOOROO

Dip: 550 S.W. Date: June/July 1970

Drilled by:

Depth	Cu,ppm	Cu (%)	CO2% Au(o2s) longton	Remarks
0 5	150		1:45	
5- 10	150		3	
10- 15	790		43	
15- 20	430		05	
20- 25	770		05 20:01	
25- 30	490		05	
3 0- 35	250		'45	
3 5- 40	590		3.0	
40- 45	230		6,25	
45- 50	100		4.0 (0.01	
50 - 55	90	_	7.6	
55 - 60	6,300	_0.6 3	17.5	
60- 6 5	2,000		10.5	
65- 70	5,200		11.9	
70- 75	5,900		11.5 20:01	
75- 80	3,100		11 '3	
80- 85	1,400		10· 6 11·0	
85- 90	780			
90- 95	480		7.6 <0.01	
95-100	230		, ,	
100-105	130		7·2 7·2	
105-110	160			
110-115	430		7.3	
115-120	550			
120-125	210		6.0 70.01 2.8	
125-130	140		6.0	
130-135	160 110		5.8	
135-140 14 0-1 45	70		6'6	
140-145	80		7.1 40.01	
149-190	au		. 2001	

LOG OF BOREHOLE No. 410/240

Area: BOOLOOROO

Dip: 70° N

Date: 21/11/70

Drilled by: INVESTIGATION DRILLING PTY. LTD. (Percussion Drilling with 3" bit)

Depth	Cu,ppm	Cu (%)	Colour	Remarks
5- 10	75		Mauve	
10- 15	50		L. Pink	
15- 20	55		H '.	
20- 25	45		ti	
25- 30	50		L. Grey	
3 0- 35	50			
3 5- 40	45		H	
40- 45	55		Mauve	
45- 50	50		11	
50- 55	45		ł)	
55 - 6 0	50		19	
60- 65	40		Pink	
65- 70	50		Mauve	
70- 75	5 5		White	
75- 80	. 55		Pink	
80- 85	70			•
85- 90	60		u	
90- 95	50		Yellowish	
95-100	130		Pink	•
100-105	120		, п	
105-110	210		L. Brown	
110-115	90		, и	
115-120	150		Red Brown	
120-125	180		Red	
125-130	1,600		и	.
130-135	400	· ·	Yellow	Tr Oxide Copper
135-140	210		4 11	
140-145	140		•	
145-150	130		Red Brown	mu auda auman
150-155	95		L. Brown	Tr Oxide Copper
155-160	50 50		Yellowish "	
160-165	50 5 c		. B	
165-170 170-175	55 100		H ·	
170-175	35		Red	
180-185	50		red Pink	
185-190	50 55		# PAIIK	4
190-195	20		11	
195-200	30		ø	
200-205	30		L. Brown	
205-210	80		Orange	
210-215	80		u u	
215-220	65		ii .	
220-225	50		0	·
225-230	45		ti .	
230-235	70		ti	
235-240	50		II	,
240-245	45		ti	
245-250	45		n	

LOG OF BOREHOLE No. 406/252

Area: BOOLOOROO

Dip: 700 N

Date: \ 21/11/70

Drilled by: INVESTIGATION DRILLING PTY. LTD
(Percussion Drilling with 3" bit)

Depth	Cu,ppm	Cu (%)	Colour	Remarks
5- 10	150		Creamy	
10- 15	50		White	.*
15- 20	40		Mauve	
20- 25	50			
25- 30	- 15		Ü	
30~ 35	60		Creamy	
35- 40	60		ti	
40- 45	30		Mauve	
45- 50	45		V.Light Brown	
50- 55	5 0		11	
55- 60	30		Mauve	
60- 6 5	40		8	
65- 70	30		e ´	
70- 75	40		Light Brown	
75- 80	30		Mauve	•
80~ 85	40		Light Grey	
85- 90	35		L. Brown	
90- 95	30		ti .	
95-100	35		Grey	
100-105	45		tr _	
105-110	80		Dark Grey	
110-115	90		II.	Tr Oxides
115-120	80		Black	П
120-125	190		II .	Pyritie Sulphides IC
125-130	380		9	9
130-135	1,200		4)	Ð
135-140	1,600		0 .	
140-145	600			tt
145-150	450		H	а
150-155	720		V. Dark Brown	n
155-160	350	•	ıı ı	#
160-165	300		Brown	, ti
165-170	420		Light Brown	
170-175	480		N	
175-180	250			
180-185	220		R .	
185-190	200		Creamy	
190-195	100		. (1	•
195-200	90		Light Pink	
200-205	100		Yellowish	
205-210 A 205-210 B	95 90		Light Grey	
			11	
210-215 215-220	60 80		u u	
220-225	70		t)	
225-230	70 95			
230-235	150		Light Grey	
235-240	110		Creamy Yellowish	
240-245	70		Creamy	
245-250	70 70		White	
₩ まり [™] は りひ	70		MITCA	

LOG OF BOREHOLD No. 404/260

Area: BOOLOOROO

Dip: 700 N

Date: 8/10/70

Drilled by:

INVESTIGATION DRILLING PTY. LTD. (Percussion Drilling with 3" bit)

nsged	Cu,ppm	Cu (%)	Colour	Remarko
3 - 5	130		Pink	Siltstone
5- 10	180		a	
10- 15	180		ti e	
15- 20	90		Grey	
2 0- 25	50		n	
350	50		O.	
3 0- 85	્0		n ,	
3 5- 40	75		11	
4 0- 49	40	٠.,	Pink	
4 5- 50	70		At .	•
50- 55	45		e e	
55- 60	35		a	
60~ 65	70		n	
65- 70	45		Grey	
70- 75	50		Pink	
75- 80	90		E Ziire.	
80- 85	80		Dark Grey	Williams
85- 90	440		n n	ACAMA ANTONI
9 0- 95	370		Brown	
95-100	1,500		210011	
100-105	400	0.44	0	
105-110	5,400 5,400	-0.44	ts .	
110-115	1,500		it.	
115-120	2,400	•	Black	distant.
140-145	490		Red	Siltstone
125-120	7,700	•	Reu II	Silestone
130-135	4,400	0.6	a / ·	
135-140	1,300	•	Pink	
140-145	330	•	E AHR	
145-150	250		et	
150-155	190		# .	
155-160	150		a	
160-165	200		Yellow	
165-170	160		Yellow	
170-175	140		Pink "	
175-100	150	•	"	Wala
2 (D= 2 (SQ)	150			Hole completed.

LOG OF BOREHOLE No. 406/260

Area: BOOLOOROO

Dip: 350 N

Date: June, July 1970

Drilled by:

Depth	Cu,ppm	Cu (%)	Remarks
0- 5	260		
5- 10	190		
10- 15	260		
15- 20	2,800		
20- 25	3,100		
25- 30	2,200		
3 0- 3 5	3,600	_	
35- 40	11,000	1.1	
40- 45	4,400	-	
∃5− 50	2,000		
50- 55	1,600		
55- 60	530		
60- 65	360		
65- 7 0	320		
70- 75	2 60		
75- 80	290		
80- 85	210		
85- 90	190		
90- 95	180		
95-100	210		
100-105	230		
105-110	200		
110-115	240		
115-120	200		•

LOG OF BOREHOLE No. 404/264

Area: BOOLOOROO

Dip: 900

Date: 7/10/70

Drilled by:

INVESTIGATION DRILLING PTY. LTD. (Percussion Drilling with 3" bit)

Depth	Cu,ppm	Cu (%)	Colour	Remarks
S - 5	120		Grey	
5- 10	130		Pink	
10- 15	900		tt	
15- 40	90		Red Brown	
20- 25	45		H	
25- 30	35		Dark Grey	
3 0 - 35	30		Pink	
35- 40	25	•	a	
4 0- 45	45		cs .	
45 - 50	60		a	
5 0- 55	85		Grey	
5 5- 6 9	270		L. Brown	
6 0- 65	530		ti .	
65- 70	3,400	0.51	41	
70- 7 5	6,700	0.51	ti	
75- 80	2,300	-	Grey	
80- 85	1,890		and some Red	
85- 90	860		Grey	
9 0- 95	1,300		Brown	
95-100	440		Grey	
00-105	870		L. Brown	•
05-110	860		et	ς.
10-115	970	•	tt	
15-120	2,500		ti	
20-125	2,000		Grey	
25-130	1,300		Black	O HUU.
30-135	7,.00	-0.7 3	Q	
35-140	1,600	_	Deep Red	
40-145	1,000		Red	
45-150	450		Pink	
50-155	△70		L. Pink	
55-160	380		Grey	
60- 1 65	270		ti	1
65-170	1,200		L. Brown	
70-175	1,100	_	tt	
75-180	5,900	0.58	В	
80-185 .	1,200	_	Pink	
35-190	5,500	0.58	ti	
90-195	6,000	0.56	L. Brown	,
95-200	2,500	-	Yellow	
00-205	1,400		ti	
015-210	1,200		B	
10-215	2,700		Grey	
15-220	1,700		, tr	
20-225	1,100		Pink	
25-230	940		Pale Yellow	
3 0-2 34	missin	9	-	Contaminated and small recovery.

LOG OF BOREHOLE No. 405/263

Area: BOOLOOROO

Dip: 400 N

Date: June/July 1970

Drilled by:

Depth	Cu,ppm	Cu (%)
0- 5	2 60	
5- 10	700	
10- 15	320	
15- 20	260	
2 0- 25	940	
25- 30	980	
3 0- 35	540	
3 5- 40	2,400	
4 0- 45	3,400	-
45- 50	7,300	_0.78
5 0- 55	3,200	
55 - 60	980	
60- 65	530	,
65- 70	280	
70- 7 5	240	
75- 80	480	
80- 85	700	
85- 90	₹40	
9 0- 9 5	340	
95-100	280	
100-105	240	
105-110	440	
110-115	280	
115-120	180	
12 0-1 25	160	
125-130	180	
130-135	200	
135-140	3 80	
140-145	400	
145-150	360	

LOG OF BOREHOLE No. 405/264

Area: BOOLOOROO

Dip: 600 N

Date: June/July 1970.

Drilled by:

Depth	Cu,ppm	Cu (%)	Remarks
0- 5	missin	g	
5- 10	1,080	-	
10- 15	400		
15- 20	640		
2 0- 25	1,820		
25- 30	700		
3 0- 3 5	1,080		
3 5- 40	900	_	
40- 45	7,000	⁻ 0.7	
45- 50	2,000	_	
50- 55	11,600	_1.16	
5 5- 6 0	4,600	-	•
60- 6 5	1,200		
65- 70	4,200		
70~ 75	560		
75- 80	540		
80- 95	220		
85- 90	680		
90 - 95	420		
95-100	180		
100-105	220		
105-110	2 60		
110-115	160		
115-120	missing	3	
120-125	32 0		
125-130	900		
130-135	460		
135-140	280		
140-145	420		
145-150	680		

LOG OF BOREHOLE No. 398/268

Area: BOOLOOROO

Dip 900

Date 16-1-71

Drilled by:

BORING ENTERPRISES. (Percussion Drilling with 3 bit)

Depth	Cu,ppm	Cu	(%)	Colour	Remarks			
5-10	340			Mauve	No visible		lisation	
10-15	220				11	11		
15-20	70			. "	11	, n	•	
20-25	60			u ·	ti	11		
25-30	50			10	0	11	4	
3 0- 35	70			· u		11		
35-40	70			11	. 8	, ir		
40-45	60			u	u .	# .		
45-50	50				ŧ	. 11		
50-55	60		1	II	· 11	11		
5560	60			II	II	11		
√60 − 65	60			H	ŧI	II II		
6570	60			L. Grey		ia		
70-7 5	60			ff f	11	II		
7 5-80	90			Grey	ti	11		
80-85	85			ii T	If			
85-90	70			it	. tr	H,		
90-95	100			Erey Brown	ŧi	10		
95-100	95			Grey	ij	Ħ		
100-105	85			it .	Ħ	n		
105-110	80			Blue Grey	Tr Pyritio	sulph	ides	
110-115	210			H ,	Tr poss. F	Red Oxi	des	
115-120	90			lł .	Tr pyrition	sulph	ides	
120-125	1,300			H	Minor "	Ū,		
125-130	3,300			H	. 0 0		,	
130-135	2,600			t#	Tr "	ta .		
135-140	1,400			tt	Minor "	-		
140-145	900			. 11	11 11	45		
145-150	550			ti.	n n	Ħ		
150-155	220			H .	U E	H		
155-160	170			11	er er	ti		
160-165	150			11	n ù	II		
165-170	530			•	0 0	H		
170-175	170			11	u , (t	. 18		
175-180	50			li i	Tr "	11		
180-185	100					. 11	Ai	
185-190	60			11	Minor "	á ,	Quartz grains	
190-195	900			n	11 11	ŧI	11	
195-200	190			u ·	0 11	0	#	
200-265	95			n ·		, 0	15	
205-250	530			H	0 1	U	-	
210-2:5	95			u	11 11	n		
215-220	75			. # .	Increasing	pyrit	ic sulph.	
220-225	45			11				
225-230	50			11	" Coffsiderab	lequar	cz grains	
230- 235	190			11	U	Ħ,	ţi 11	
235-240	50			11	If	u	11 11	
240-245	50			н	Minor	67	11 (1	
245-250	50			n .	11	#1	18 11	
250-255	50		•	ti	H .	· H	11 11	
255-260	70			n	Ÿ	ti	. (1	
260-26 5	80			II		и	u i	
265-270	150			n ·	Increased		tt f	
270-275	220			11	H	u	H (
275-280	140				H	: H	a t	
280-285	60				Minor	11	ti t	

Depth	Cu,ppm	Cu (%)	Colour	Remarks.
285-290	50		B. Grey	Minor pyritic sulphides
290-295	40			н п
295-300	80	•	a '	11 II II
305-310	90		Ħ	in the second
310-315	missing		n	Соле
315-320	50		11	Minor " "
320-325	40		n .	" thin quartz seams
325-330	80		81 , .	ar ny sa sa sa
330-335	50		ti .	n n n
335-340	60		u	о ин и п
340-345	50		n ,	B 4 H
345-350	340			Increas. pyrite sulphides
350 -355	170		ti ti	Lift in thin quartz seams'
355-360	90		- 11	n u u u
360 -365	35		11	ui n n
365- 370	50		11	Minor pyritic sulphides
37 0-375	90		11	Consid.
375- 380	80		10	11 11 17
380-385	800		10 ;	Some iron staining & quartz chips
385- 390	200		0	· 41 11
390 -295	150			u u
395-400	70		14	. 10 17
400-405	400			n n
405-410	230		11	11 11 -
410-415	1,700		lt .	decreasing
415-420	900		41	Ů
420-425	280		at .	ij
425-430	80		H	. 10
430-435	missing		ti	Core
435-440	60		Ĥ	Consid. Pyritic sulphides
440-445	150		iı	ti ti
445-450	1,200		ŧſ	t1 11
450-455	1,900		tt	ti (i
455-460	310		Dk. Brown	ti ti
460-465	70		Grey	decreasing sulphide
465-470	250		u ·	Minor pyritic sulphides
470-475	220		11	R A O
475-480	800		II.	11 11 15
489-485	900		II.	u jú
485-490	100		li .	Increasing "
490-495	90	•	10	Minor sulphides
495-500	190	• •	, It	Minor "

Hole completed to 500 feet - Cores 310-315 430-435

^{6&}quot; Button bit throughout.

LOG OF BOREUOLE No. 402/263

Area: BOOLOOROO

Did: 600 N

Date: 6/10/70

Drilled by:

INVESTIGATION DRILLING PTY. LTD. (Porcussion Drilling with 3" bit)

Depth	Cu,yym	Cu (%)	Colour	Remarks
5- B	240		Grey	Mudstone
5- 10	55		11	·
10- 15	40		ti	
15- 20	: 45		· tt	
20 - 25	25		ŧi	
25- 30	4 0		11	
3 0- 35	25		, . 	•
35- 40	- 30		t)	
40- 45	6 5		ti .	
45- 50	10			•
5 0- 55	55		Pink	
55-, 60	45		ta	
60- 65	30		II .	
65 - 7 0	55	•	Grey	
70- 7 5	170		น้	
75- 8 0	051		rr	•
80- 85	360		11	•
85- 90	3,700		ej .	
90- 95	1,800	•	L. Brown	
95-100	530		tt	
100-105	460		Brown	
105-110	270	•	Red Brown	
110-115	310		11	
115-140	2,000		Red	
160-125	15,000	-	B	
125-130	16,000	1.55	II .	Possible contamination
130-135	6,700	0.67	H	
135-140	2,400		Pink	
140-145	1,400			· .
145-150	1,000		· ti	
150-1 55	580		u ;	
155-160	290	•	Ħ	
160-160	580		Yellow	
165-170	310	_	, u	
170-175	310	•	łt	
175-180	2,100		'a .	Hole completed.

LOG OF BOREHOLE No. 404/268

Area: BOOLOOROO

Dip: 400 N

Date: June/July 1970.

Drilled by:

Depth	Cu,ppm	Cu (%)	Remarks
0- 5	420		
5- 10	160		
10- 15	90		
15- 20	100		
20- 25	200		·
25- 30	2,800		
3 0- 35	6,600	•	
3 5- 40	4,600	0.6	
40- 45	7,000		
45 - 50	2,600	-	
5 0- 55	3,200		•
55- 60	7,200	_0.72	
60- 65	4,200		
65- 70	1,620		
70- 75	480		
75- 80	540		
80- 85	3 80		
85- 90	340		
90- 95	280		
95-100	300		
100-105	580		
105-110	480		
110-115	340		
115-120	360		
120-125	400		
125-130	800		
13 0-1 35	760		
135-140	620		
140-145	620		
145-150	720		

LOG OF BOREHOLE No. 404/263

Area: BOOLOOROO

Dip: 600 N Date: June/July 1970.

Drilled by: S.A. DEPARTMENT OF MINES

Depth	Cu,ppm	Cu (%)	Remarks
0- 9	missing		
5 - 10	320		
10- 15	90		
15- 20	70		
20- 25	120		
25- 30	160		
S O- 3 5	940		
35- 40	1,380		
4 0- 45	540		
45- 50	3 30		
5 0- 55	880	•	
55 - 6 0	1,060		
60- 65	3,200		
65- 70	20,500	1.42	
70- 7 5	8,800	.±•44	
75- 80	2,400	-	
80- 85	1,120		
85- 90	1,140		
90- 95	1,020		
95-100	7 40		
100-105	480		
105-110	420		
110-115	460		
115-120	440		
120-125	440		
125-130	640		
130-135	200		
135-140	220		
140-145	280	•	
145-150	3 80		

LOB OF BOREHOLE NO. 398/272

Area: BOOLOOROO

<u>Dip:</u> 70°

Date: 15 - 12 - 70

Drilled by: INVESTIGATION DRILLING PTYL IATD

<u>Depth</u>	<u>Cu'ppm</u>	(<u>Cu%</u>)	Colour	Remarks
5- 10	70		White	and the state of t
10- 15	25		E)	
15- 20	20		Ð	•
20- 25	40		ti .	
25- 30	40		Pale Pink	N.
3 0- 35	30		White	No
35- 40	40		1i	
X40- 45	50		Pale Pink	Visible
45- 50	60		a	
50- 55	50		White	A. 3 . 1 . 1 . 2
55- 60	55		a	Sulphides
60- 65	60		11	
65- 70	70		11	
70- 7 5	90 x		V.L. Brown	
75- 80	220		Brown	
80- 85	80		11	Sulphides
85- 90	970		11	
90- 95	1600		4	
9 5-100	320		ti	
100-105	420		4)	
105-110	120		Grey	Minor sulphides
110-115	130		Brown	
115-120	50		ti 	
120-125	140		di 	
125-130	150		Grey	Considerable pyritic sulph's
130-135	55		ù 	Minor "
135-140	80		t)	
140-145 145-150	60 95		a	
150-155			u	
155-160	"40 90			
160-165	50 50			and . As
165-1702	100		Brown	Minor "
170-175	45		Grey Brown	u
175-180	65		# DrOwit	u
180-185	50		n	Minor "
185-190	60		Grey	u u
190-195	55		n 7	u
195-200	75		Brown	ស
200-205	70		a a	0
205-210	100		ti	8
210-215	50		11	U
215-220	70		u	es .
220-225	80		19	Minor
225-230	60		Brown	Sulphides
230-235	100		0	a
235-240	75		Ħ	ts
240-245	75		ii .	11
245-250	210			•

Area: BOOLOOROO

Dip: 70°N

<u>Date:</u> 14-12-70

-			
Drilled	by:	R.W.	O'Neill

<u>Depth</u>	Cu,ppm	<u>Cu (%)</u>	Colour	Remarks
5 - 10	40		Mauve	,
10 - 15	40		Mauve	
15 - 20	40		Mauve	
20 - 25	45		Mauve	
25 - 30	110		Brown	
30 - 35	150		Brown	
35 - 40	110		Yellow Brown	1
40 - 45	7 5		L. Brown	
45 - 50	65		Pink	No
50 - 55	60		11	evidence
55 - 60	80		L. Brown	of
60 - 65	100		L. Brown	mineral-
65 - 70	85		Pink	isation
70 - 75	90		Pink	
75 - 80	90		Pink	
80 - 85	100		Pink	
85 - 90	80		Mauve	
90 - 95	80		Mauve	
95 - 100	40		Pink	•
100- 105	35		Off White	
105 110	30		White	
110- 115	30		Creamy	
115- 120	50		White	
120- 125	30		White	
125- 130	25	•	B. Grey	rì
130- 135	50	real.	B. Grey	Minor pysetic sulphides
135- 140	200		B. Grey	II II
140- 145	980		Dark Brown	n á
145- 150	170		Dark Brown	n n
150- 155	55		Dark Brown	n ù
155- 160	50		Dark Brown	H H
160 165	85		Dark Brown	t) tr
165- 170	45		tt 11	i a
170- 175	60		11 11	u a
175- 180	50		II 4	H Å
180- 185	6 5		tt tt .	0 n
185- 190	55		11 13	ů u
190- 195	65		11 13	n À
195- 200	50		a ti	0 0
200- 205	45		Dark Grey	n ù
205- 210	70		n a	ti ți
210- 215	1,000		11 #1	ji, u
215- 220	430		L. Brown	u ů
220- 225	2 60		V.L. Brown	II (I
225- 230	130		V.L. Brown	Minor pyritic sulphides
230- 235	2,400		tr HE	0 0
235- 240	3,300		Off White	n n
240- 245	1,700		Off White	ti u
245- 250	930		Off White	a ú

0067 <u>LOG OF BOREHOLE No. 398/280</u>

Area: BOOLOOROO Dip: 70°N Date: 13-12-70

Drilled by: R.W. O'Neill

	emarka	Re	Colour	Cu,ppm (Cu)%	<u>Depth</u>
			White	25	5- 10
			Mauve	20	10- 15
			Mauve	25	15- 20
			Pink	25	20- 25
			Mauve	20	25- 30
			Mauve	20	30- 35
			Mauve	20	35- 40
			White	25	40- 45
			Mauve	45	45-, 50
		No	Pink	25	50- 55
	ible		Mauve	35	55- 60
	neral-		Mauve	55	60- 65
	sation		Mauve	35	65- 70
		•	Mauve	45	70- 75
			Mauve	55	75- 80
			Mauve	65	80- 85
			Mauve	95	85- 90
			Pink	100	90- 95
			Pink	60	95-100
			Pink	40	00-110
			Red	40	10-115
	eu. 🖎		Red	30	15-120
	ع م <i>رودی</i> (ona :الاقا	Carbo	Dark Brown	30	20-125
11020	Olluson D		Dark Brown	30	25-130
			Dark Brown	35	30-135
hidas E	tic Sulp	Purif	Dark Brown	40	35-140
. 5	ore party	0	Dark Brown	85	40-145
.17	H	11	0	55	15-150
.3	n	ti	ti	40	50-155
27	t)	0	u	90	55-160
.75	ŧi	ta	ti	70	6 0- 1 65
3	ŧ	a	u	90	55-170
2.	41	U	n	90	7 9- 1 7 5
1.	IJ	u	B. Grey	110	75-180
17.	ff	u	0	220	30-185
• !	#	#	Brown	880	35-190
des .	. Sulphid	Minor	L. Brown	460	95-200
	11	u	V.L. Brown	170	0-206
	tt .	19	El .	230	5-210
	44	ŧı	L. Brown	250	0-215
	u u	u	L. Brown	440	5-220
	11	4	L. Brown	350	0-225
	0	g	V.L. Brown	390	5-230
	ii ii	t)	L. Brown	250	0-235
			L. Brown	190	5-240
	ides	Sulph	L. Brown	120	0-245
				180	5-250

LOG OF BOREHOLE No. 396/284

Area: BOOLOOROO

Dip: 700 N

Date: 24/25-10-70

Drilled by:

INVESTIGATION DRILLING PTY. LTD. (Percussion Drilling with 3" bit)

Depth	Cu,ppm	Cu (%)	Colour	r Remarks
5- 10	40		L. Brown	
10- 15	40		Pink	•
15- 20	110		L. Brown	
20- 25	120		11	
25- 30	100		11	
3 0- 35	250		II	
35- 40	20		Pinkish	
40- 45	40		L. Brown	
45- 50	10		II	•
50- 55	10		Creamy	
55- 60	10		"	Sulphides as quoted
60- 65	20		L. Brown	below are Total
65- 70	30		Creamy	Sulphides of a
70- 75	10		Pinkish	Pyritic nature sug-
75- ε0	10		M. Brown	gestive of
80- 8 5	20		tı	Chalacopyrite
85- 90	20	*	Creamy	
90- 95	10		L. Brown	
95-100	15	• •	. 11	
100-105	20	•	Brown	
105-110	3 0		. 0	
110-115	35		и,	
115-120	30		Pinkish	
120-125	30		Brown	
125-130	40	•	B. Grey	Sulphide
130-135	35		D. Grey	u u
135-140	45		a ·	n
140-145	90		D. Brown	H .
145-150	90		D. Grey	u
150-155	270		D. Brown	Minor Sulphides
155-160	210		Brown	Considerable "
160-165	300		D. Brown	Minor "
165-170	240		ti	H .
170-175	190		ti	tt.
175-180	130		п	Considerable Sulphides
1 80-18 5	65		11	0
185-190	55		u	H
190-195	70	,	ti	II .
195-200	80		li .	11
200-205	50		11	u .
205-210	65		ti	ti
210-215	70		. 11	II .
215-220	60		u	U
220-225	55		11	n
225-230	240		ti	ii
230-235	2,000		Blue Grey	
235-240	3,100		L.B. Grey	
2 40- 245	3,300		\$1 t)	

Area: BOOLOOROO

<u>Dip</u>: 70°N <u>Date</u>: 12/13-12-70

Drilled by: INVESTIGATION DRILLING PTY. LTD.

Depth	<u>Cu</u> ,	PPm (Cu Ø)	Colour	Remarks
5- 10	45		Pale Mauve	and a star of the production was to be the substitution cause up to see define to be any entire to see the second contract of the second
10- 15	35		Mauve	
15- 20	35		Mauve	
20- 25	40		Mauve	
25- 30	110		L. Brown	
3 0- 35	35		Pinkich	
35- 40	50		L. Brown	
40- 45	30		V.L. Brown	•
45- 50	30		V.L. Brown	
50- 55	30		V.L. Brown	
55- 60	50		White	ио
60- 65	45		White	visible
65~ 70	35		L. Brown	mineral-
70- 75	30		Pinkich	isation
75- 80	25		Pinkich	1341108
80-, 85	45		R. Brown	•
85- 90	45		R. Brown	
90- 95	50		R. Brown	
95-100	95		R. Brown	
00-105	50		R. Brown	•
05-110	55		Brown	
10-115	120		D. Brown	Cus I what down
15-120	65			Sulphides
20-125	80		D. Brown D. Brown	Sulphides
25-130	50		Black	Sulphides
30-135	75		B. Grey	Sulphides
35-140	80		B. Grey	Considerable pyritic sulph's
40-145	170		B. Grey	u u u
45-150	520		B. Grey	10 0 0
50-155	2500		B. Grey	· · · · · · · · · · · · · · · · · · ·
55-160	21000	1.5	o Orcz	Minor chalcocite
60-165	1100	-,-	L. Brown	ti ti
65-170	870		V.L. Brown	
70-175	380		V.L. Brown	
75-180	380		V.L. Brown	
90-185	400		Creamy	
35-190	480		Creamy	
90-195	560		Creamy	•
95-200	980		Creamy	
00-205	630		Off White	
05-210	380		V.L. Grey	No 1 and 4 a
10-215	3100		V.L. Grey	Malachite " Sulphides
5-220	4600		V.L. Grey	" Sulphides
0-225	****		Off White	-
5-230	1300		Off White	Curl whi dan
0-235	****		Off White	Sulphides
5-240	2200		Off White	
+	4000		OFF MUTES	
0-245	1400		Off White	

LOG OF BOREHOLE No. 396/288

Area: BOOLOOROO

Dip: 700 N

Date: 23/10/70

Drilled by:

INVESTIGATION DRILLING PTY. LTD. (Percussion Drilling with 3" bit)

Depth	Cu,ppm	Cu (%)	Colour	Remar	ks
5- 10	30		Pink		
10- 15	50		L. Brown		
15- 20	150		Creamy		
20- 25	220		n *		
25- 30	250		Pinkish		
3 0- 35	200		Creamy		
35- 40	540		0		•
40- 45	380		Œ		
45- 50	240		L. Brown		
50- 55	120		Pinkish		
55- 60	150		4		
60- 65	1,600		Brown		
65- 70	290		H		
70- 75	150		L. Brown	Sulphides	Onoted
75- 80	270		11	below are	
80- 8 5	1,500		11	Sulphi	
85- 90	220		a ·	Pyritic Su	
90- 95	130		e	Chalcopyri	
95-100	100		H	ance	. appear-
100-105	280		H		
105-110	90		Ħ		•
110-115	140		Brown		
115-120	60		Brown	Minor Sulph	hi <i>A</i> oc
120-125	720		D. Brown (Considerable	
125-130	980		D. "	a Stantarder	#
130-135	1,500		D. "	0	Ħ
135-140	1,400		D. Brown	n	Ħ
140-145	230		Brown	ti	H
145-150	180		L. Brown	Minor Sulph	nides
150-155	170		R. Brown	Tr	11460
155-160	110		Red	Tr	-
160-165	90		Red	-	
165-170	70		Brown	Tr	
170-175	240			onsiderable S	Sulphides
175-180	90		н	11	
180-185	60		10	tt	a
185-190	50		D. Blue Grey	, 11	41
190-195	45		D. Brown	er er	Ð
195-200	45		D. "	15	#
200-205	90		D. "	t)	Ð
205-210	240		V.D. Brown	11	a
210-215	950		D. Blue	u	ti .
215-220		1.0	D.B. Grey	Chalcocite	
220-225		0.78	B. Grey	11	
225-230	1,600	•	L. Brown	Tr	
230-235	1,200		V.L. Brown	Tr	•
235-240	440		L. Pink	Tr	
			4		
240-245	270		. **	Tr	

Area: BOOLOOROO

Dip: 70°N

Date 11-12-00

Drilled by: INVESTIGATION DRILLING PTY. LTD.

<u>Depth</u>	Cu,ppm	(Cu %)	Colour	Remarks
5- 10	60	· · · · · ·	L. Brown	
10- 15	65		L. Brown	•
15- 20	45		L. Brown	•
20-285	55		Mauve	
25- 30	2 9		Mauve	
30~ 35	3 0		Mauve	
35- 40	20		Brown	
40- 45	40		L. Brown	
45- 50	3 0		V.L. Brown	
50- 55	50		Y. Brown	
55- 60	55		L. Brown	,
60- 65	75		L. Brown	
65- 70	140		Pinkish	•
70- 75	170		Pinkish	
75- 80	90		Pink	
80- 85	150		Pink	N o
85- 90	80		Creamy	v i s i b l e
90- 95	7 0		Creamy	mineral-
95-100	75		Off White	isation
00-105	400		L. Brown	
05-110	6 80		Off White	
10-115	460		Off Maown	•
15-120	680		Pink	
20-125	530		V.L. Brown	
25-130	340		Off White	
30-135	300		Off White	
35-140	240		Off White	
40-145	2800		L. Brown	
45-150	10000 1.0	1 •	L. Brown	
50-155	1500		Mauve	
55-160	520		Pink	
60-165	400		Pink	
65-170	410		V.L. Brown	
70-175	920		V.L. Brown	Malachite
75-180	530		Pale Pink	
80-185	400		Off White	•
85-190	680		Creamy	
90-195	750		Creamy	
95-200	33 00		Creamy	Minor Malachite
00-205	830		Pale Pink	H.
05-210	470s Pin	i.	Pale Pink	(I
10-215	1700		White	ŧi
15-220	920		White	ŧŧ
20-225	1400		Creamy	•
25-230	2500		Creamy	•
30-235	1400		Creamy	
35-240	1000		Creamy	
40-245	550		Creamy	
45 −250	540		Creamy	

LOG OF BOREHOLE No. 396/292

Area: BOOLOOROO

Dip: 700 N

Date: 23/10/70

Drilled by:

Depth	Cu,ppm	Cu (%)	Colour	Remarks
5- 10	250		L. Brown	This hole is a
10- 15	450		0	redrill due to Cave-
15- 20	480		ŧī	in.
20- 25	800		H	
25- 30	1,200		II	
3 0- 35	700		Brown	Exact position
35 - 40	240		L. Brown	20 feet east of
40- 45	280		il	39 6/ 292.
45- 50	280		tt .	•
50- 55	710		tt	
5 5- 60	55		II .	•
60- 65	50		ti	
65- 70	35		11	
70- 75	40		Pinkish	
75- 80	40		er e	
80- 85	45		L. Brown	
85- 90	40		# .	
90- 95	45		ti .	
95-100	40		ti .	
100-105	85		tt .	
105-110	60		. 0	
110-115	25		Pinkish	
115-120	30		L. Brown	
120-125	30		Pinkish	
125-130	35		I)	
130-135	35		Pinkish	
135-140	60		Pink	•
140-145	70		Ð	
145-150	55		n	Possible Tr Sulphide
150-155	40		ħ	•
155-160	50		n	
160-165	40		D. Brown	Tr Sulphides
165-170	40		D. Grey	Minor Sulphides
170-175	60		11	Pyritic Sulphides
175-180	90		D. Brown	1% Chalcocite
180-185	45		D. Grey	ti .
185-190	70			tt .
190-195	170		D. Brown	ti .
195-200	1,100		D. Grey	U ·
200-205	1,000		tt.	n
205-210	1,700		ū	11
210-215	2,800		Grey	0 .
215-220	4,100			n '
220-225	400		L. Grey	Minor "
225-230	320		L. Grey	Minor Sulphides
230-235	560			# II
235-240	2,500		L. Grey	.5%
240-245	4,700		II .	.5%
245-250	960			Minor "
250-255	1,000		L. Brown	.5% "
255 -260	740		L. Grey	Minor "

Area: BOOLCOROO

<u>Dip</u>: 70°N <u>Date</u> 10/11-12-70

Drilled by: INVESTIGATION DRILLING PTY. LTD.

<u>Depth</u>	Cu,ppi	(Cu H)	Colour	Remarko
5- 10	260	Marine i Vice Maleya e Aprille e piece i i e Maleira	Y. Brown	- and Table a facility of the second of the second states and the second and the
10- 15	100		Y. Brown	
15- 20	300		L. Brown	
20- 25	530		L. Brown	
25- 30	120		L. Brown	
3 0- 35	75		L. Brown	·.
35- 40	60		P. Mauve	·
40- 45	150		L. Brown	
45- 50	370		Mauve	
50- 55	400		Mauve	
55- 60	90		P. Mauve	N o
60- 65	801		L. Brown	visible
65 - 70	130		L. Mauve	mineral-
70- 75	110		Mauve	isation
75- 80	75		L. Brown	
80- 85	130		L. Pink	•
85 -90	120		L. Pink	I.
90- 95	220		Pink	
95-100	1 60		Pink	
100-105	130		L. Brown	
105-110	310		L. Pink	
110-115	700		White	
115-120	1800		Creamy	
120-125	3400		White	Minor Malachite
125-130	670		L. Grey	u ·
130-135	300		Off White	
135-140		0.82	Off White	Minor Malachite
140-145	1900		Off White	u
145-150	2200		Off White	e e
150-155	1100		Off White	
155-160	1100		L. Brown	1)
160-165 165-170	510		Off White	
170-175	230 1000		Creamy Y. Brown	
175-180	650		Pale Y. Bro	·
180-185	740		Creamy	MI:
185-190	4100		Creamy	
190-195	3400		Creamy	
195-208		2	Creamy	
200-205	1800		Creamy	
205-210	1200		Creamy	
210-215	780		Creamy	
055-215	600		Creamy	
220-225	470	•	L. Brown	
225-230	310		L. Brown	
230-235	270		L. Brown	
235-240	240		L. Brown	
240-245	170		L. Brown	
245-250	140			

LOG OF BOREHOLE No. 396/296

Area: BOOLOOROO

Dip: 700 N

Date: 15/16-10-70

Drilled by:

Depth	Cu,ppm	Cu (%) Zn(%)	Colour	Remarks
5- 10	40		L. Brown	
10- 15	25	•	ti .	· • * **
15- 20	15		Ð	•
20- 25	15		(1	•
25- 30	20		11	
3 0- 35	25		ts .	•
35- 40	35		u .	* *
4 0- 45	20		19	
45- 50	3 5		ii .	
5 0- 55	20		a	
55 - 6 0	60		Grey	
60- 6 5	3 0		11	
65- 7 0	30		7 II 7 7	* *
70- 7 5	30		ti	
75- 80	35	•	B. Grey	
80- 8 5	30		V 0	Cavity necessary to
85- 90	25		Brown	plaster hole before
90- 95	, 60		. B	continuing drilling
95-100	90		B	
100-105	7 5		R. Brown	
105-110	50		Red	
110-115	- 60		ti .	•
115-120	50		R. Brown	Possible Chalcocite
120-125	50		li .	· · · · · · · · · · · · · · · · · · ·
125-130	20		L. Brown	throughout (Minor)
130-135	30		a a	
135-140	50		M. Brown	Pyrite
140-145	40		D. Brown	
145-150 15 0- 155	50 60	•	Black	
155-160	60		D. Brown	ii ti
:	55 % (Amdal) 45	e/ / n . * 1.1\$		u u
165-170	% (Amdel) 45 1008 40	Zn%(Amdel) 0.005	Black	
170-175	-005 80	2 0 · 005	D. Brown	
175-180	.14 1,300	20 005	Black	U
180-135	15 1,400	40.005	Grey	n
185-190	2,000		L. Grey	" Chalcocite .5%
190-195	2,000		n orel	# 153%
195-200	850		H	Minor Sulphides
200-205	.30 2,600		Pinkish	II
205-210	·33 2,800		1)	#
210-215	37 3,600		e e	a a
215-220	10 850		Ħ	H .
220-225	520		, a	₽:
225-230	520		Brown	Hole abandoned due to water.

0075 LOG OF BOREHOLE No. 398/296

Area: WOOLOOROO

<u>Dip:</u> 70°N

Date: 9-12-70

Drilled by: INVESTIGATION DRILLING PTY. LTD.

Depth	Cur	PR (Cu g)	Colour	Remarko
5- 10	60		Mauve	na Pickath <mark>Cantron ann an Gailleann ann an Aireann an Cantron an Aireann an Aireann an Aireann an Aireann an Airean</mark>
10- 15	55		Mauve	
15- 20	50		Pink	•
20- 25	60		Pink	
25- 30	45		L. Brown	
30- 95	260	•	L. Brown	
35- 40	1000	•	L. Brown	1
40- 45	170		L. Brown	
45- 50	50		L. Brown	
50- 55	50		L. Brown	
55- 60	50		L. Brown	
60- 65	50		L. Brown	Azurite
65- 70	35		Pink	eccaning the Arthur
70- 75	190		Pink	
75- 80	600		L. Brown	
80- 85	3400		L. Brown	
85- 80	1500		V.L. Brown	,
90- 95	3100		V.L. Grey	
95-100	8800	0.88	L. Brown	Azurite
100-105	800		L. Brown	eum des se de de
105-110	1800		V.L. Brown	
110-115	8200	0.82	V.L. Brown	Malachie
115-120	i 600	****	V.L. Brown	Malachite
120-125	24000)		Off White	Malachite
125-130	8000)	1.34	L. Brown	Minor Malachite
130-135	8400)	- 4 - 4	Y. Brown	u instantia
135-140	6500	0.65	Creamy	o ,
40-145	3300		Y. Brown	
45-150	4500		Y. Brown	ţ1
50-155	2300		V.L. Brown	Minor Malachite
55-160	2700		L. Brown	the threadity 22
60-165	1700		V.L.Y. Brown	p
65-170	1900		11	
70-175	1700		V.L. Brown	
75-180	460		q	
20-105	1100		e ·	
85-190	910		Y. Brown	
90-195	700		L.Y. Brown	
95-200	1300		Off White	
205-005	710		L. Brown	
05-210	530		n	
10-215	350		Off White	
15-220	170		4	
20-225	190			

Area: BOOLOOROO

Dip: 700 N

Date: 21/10/70

Drilled by:

Depth	Cu,ppm	Cu (%)	Colour	Remarks
5- 10	20	-	L. Brown	
10- 15	20		u ·	
15-, 20	20		ti i i i	•
20- 25	15	•	ti	
25- 30	20 -		H .	
3 0- 35	. 10		u .	
35- 40	10		n.	
40- 45	10	2	n	Company of the second
45- 50	15		ti	
50- 55	130		0	
55− €0	110			
€0- 65	350		n	
65- 70	1 60		Pink	•
70- 75	100		L. Brown	
75- 80	60		R. Brown	•
80- 85	130		0.00	
85- 90	110		#	
90- 95	70		Pinkish	
95-100	50		tr .	•
100-105	- 3 5		8	
105-110	40		H	•
110-115	20		11	
115-120	100		H .	
120-125	200		ii	
125-130	60		R. Brown	
130-135	300		L. Brown	
135-140	480		n ·	
140-145	800		19	
145-150	1,600		Brown	
150-155	1,200		u	
155-160	1,400		L. Brown	Tr Pyrite
160-165	1,200		W.L. Brown	u
165-170	4,800		Pinkish	u
170-175	1,300		V.L. Pink	U
175-180	1,300	,	u	
180-185	400		H .	
185-190	1,600		Creamy	
190-195	760		п	
i 95-200	480		ti .	
200-205	760		L. Pink	•
205-210	600		II .	Tr
210-215	600		Creamy	
215-220	400		n	
220-225	460		⊕	Tr
225-230	350	4	Creamy	Pyrite
230-235	170		п	ii .
235-240	100		ti	it .

Area: BOOLOOROO Dip: 70°N Date: 9-12-70

Drilled by: INVESTIGATION DRILLING PTY. LTD.

<u>Depth</u>	Cu.ppm (Cus)	Colour	Remarks
5- 10	50	L. Brown	ar identification de suite de principal de la contrata del Contrata de la Contrata de la Contrata del Contrata de la Contrata del Contrata de la Contrata de la Contrata del Contrata de la Contrata del Contrata del Contrata del Contrata de la Contrata del C
10- 15	40	L. Brown	
15- 20	50	L. Brown	
20- 25	50	L. Brown	
25- 30	90	Pink	,
30- 35	120	Pink	
35 → 4 0	60	Pink	
40- 45	110	Pink	
45- 50	110	Pink	
5 0- 55	70	Pink	
55 → 60	120	Pink	
60- 65	130	L. Brown	
65- 70	240	L. Brown	
70- 75	780	L. Brown	
75- 80	2300	L. Brown	Malachite
80- 65	580	V.L. Brown	
85- 90	4000	V.L. Brown	4
90- 95	500	White	•
95-100	550	Mite	Malach te e
100-105	3300	Creary	đ
105-110	6300) 0.56	White	Minor Malachite
110-115	4800)	Whito	
115-120	2200	White	я
120-125	1500	Creamy	a
125-130	450	Croamy	a
130-135	370	Creamy	ti .
135-140	1900	L. Brown	Sample damp ground
140-145	200	L. Brown	
145-150	320	L. Brown	
150-155	270	L. Brown	
155-160	950	L. Brown	
160-165	300	L. Brown	
165-170 170-175	440	L. Brown	
175-180	80	L. Brown	
180-185	65 230	L. Brown	
185-190		L. Brown	
90-195	540 940	L. Brown	
95-200	240 140	L. Brown	
200-205	140	L. Brown	
.00-203 .05 - 210		L. Brown	•
10-215	85 190	L. Brown	
15-220	70	L. Brown	
20-225	90	L. Brown	
25-230	45	L. Brown	0. ·
30-235	75	V.L. Brown	No
35-240	75 70	V.L. Brown	visible
40-245	9 0	V.L. Brown V.L. Brown	m inn e r a 1-
45-250	600		isation
4J 4J4	000	V.L. Brown	

Area: BOOLOOROO

Dip 900

Date 21-1-71

Drilled by:

BORING ENTERPRISES (percussion Drilling with 3" bit)

Depth	Cu,ppm	Cu (%)	Colour	Remarks	
0-10	40		Very L. Brown	n –	
10-15	40		u	•	
15-20	30		H	Minor Limonite	9
20-25	30		ti		
25 - 30	40		Ginger Brown	Some Hematate	;
30- 35	30			II	
35-40	40		Lt. Brown	_	
40-45	30		mid. Brown	-	
45-50	: 10		11	Lge pieces Her	natite
50~55	15		. 0		
55-60	15		11		
60~65	100		Ginger brown	-	
	10		urnacr promi	-	
65-70			. 11	_	
70- 75	20			_	
75-80	20		1		
80-85	10		Mid. "Brown		
85-90	10		Lt. Brown		
90-95	10			Hematite piece	98
95-100	15		. 11	-	
100-105	20		"	· ·	
105-110	20		mid. brown	Minor Hematite	3
110-115	20		. 11	11	
115-120	25		(I	Large pieces I	
120-125	30		. 0	Minor Hematite	3
125-130	30		Lt. brown	.	
130-135	20		r 89	B	
135-140	35		ti	· <u>-</u> -	
140-145	40		#1	-	
145-150	60		#		
150-155	40		tt .	Minor Hematite	€
155-160	40		mid. brown	consid. "	
160-165	70		ti		
165-170	180		Dark grey	Minor pyritic	sulphides
170-175	1,500		ii -	11 11	u
175-180	1,200		19	O H	- 11
180-185	2,000		Bark Brown	some Hema	crcd
185-190	1,600		" (Wate	er) " pyritic s	ulphides
190-195	1,200		Blue Grey	. p . u	n
195-200	7,800	0.78	"	u 16	u
200-205	1,900	****	41	11.78 "	H .
205-210	920		Brown	5% "	H
210-215	5,000	0.5	11	3% "	0
215-220	1,300		u	1% "	11
220-225	2,200		Blue grey	1%	u
	800		11	Minor "	
225-230	900		H	11 11	н
230-235			н	ti N	ıt
235-240	290		II	11	11 .
240-255	460		n	11 11	
2.5-250	1,200		u .	11 31	II
250-255	800		0	n e u	n
255-260	700		11	0 0	11
260-265	1,000		e e		
265-270	3,000		n		11
270-275	1,300				n
275-280	500		11		'' II
280-285	2,300		(1		" "
285-290	600		(1	ti 11	

LOG OF BOREHOLE No. 397/	30
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Dip	200
טגע	シひ

Date 21-1-71

Depth	Cu,ppm	Cu (%)	Coloun	Remarks
 290-295	1,000		Blue grey	Minor pyritic sulphides
295-300	850	. *.	. "	и и и
300 -3 09	1,100		и ,	er er er
305-310	800		ti	Considerable sulphides
310-315	55,000 -		mid brown	35 Malachite agurite
315-320	9,000	2.85	L. Brown	3% Malachite azurite nat copper & Red Oxic: .5% Malachite
320-325	11,000		н	i% "
325-330	28,000 -		Mauve	2% "
330-335	900		L. Brown	Minor "
335-340	190		u	Tr "
340-345	460		H .	5% "
345-350	15,000 I	1.5	H .	Minor "
3 50-355	500		Mauve	·
355-3 60	1,100		tt	Contaminated
3 60- 3 6 5-	1,000		u	т н
3 65-370	500		pale Mauve	11
3 70-37 5	2,300		. u	
3 7 5-3 80	1,200	. .	H	u.
380-335	7,000 -	p 7	. It	n .

Hole abandoned due to caving below 350 ft. 5'" Button Bit throughout
Water estimated 5000 G.P.H.
No cores taken.

LOG OF BOREHOLE No. 596/304

Area: BOOLOOROO

Dip: 800 N

Date: 6/10/70

Drilled by:

Depth	Cu, prm Cu(%)	Colour	Remarks
3- 5"	65	L. Brown	Silstone
5- 1.0	50	e	•
10- 15	50		
15- 20	15	Brown	
20- 25	65	n	· · · · · · · · · · · · · · · · · · ·
25- 30	65	D. Brown	
30- 55	160	Red Brown	Ironstained
35- 0	80	, 11	
ુ 0−	340	n	
45 - 50	390	Red	
5 0- 55	290	ti	4
55- 60	200	11	•
60 - 65	130	. 0	•
65- 70	170	11	
70- 7 5	350	H	
75 - 80	170	O	
80- 85	100	ti	* •
85- 90	200	Brick Red	*
90- 95	250	BITCY VGG	
90 - 95 9 5-1 00	130	Red	
100-105	390	Reu n	
		II.	
105-110	2,100	tt	
110-115	1,500	•	
115-120	1,300	Red Brown	
120-125	1,500 -	Ironised "	
125-130	4,400		•
100-135	8,700	L. Brown	
135-140	2,400		
140-145	6,700 0.52	\$1	
145-150	2,300		
150-155	6,700	0	
155-160	6,700	* ! * # !	
160-165	3,900	Light Pink	•
165-170	1,400	0 0	
170-175	670		
175-180	490	Brown	
180-185	780	Light Brown	
185-190	320	u 1	
190-195	430		
i 95-200	350	11 0	
200-205	430	0 0	•
205-210	680		
210-212	missing	0 11	Hole abandoned due
,	*		to cave-in at depth

LOG OF BOREHOLE No. 397/304

Area: BOOLOOROO

Dip: 550 N

Date: June/July 1970

Drilled by:

S.A. DEPARTMENT OF MINES

			
Depth	Cu,ppm	Cu (%)	Remarks
0 5	1,300		
5- 10	700		
10- 15	160		
15- 20	130		
20- 25	100		
25- 30	190		
3 0- 35	210		
35- 40	190		
40- 45	460		
45- 50	370		
50- 55	670		
55- 60	870		
60- 65	950		
65- 70	16,000	1 24	
70- 75	8,800	1.24	
75- 80	4,800	-	
80- 85	4,500		
85- 90	2,300		
90- 95	2,000		
95-100	3,000		
100-105	4,100	_	
105-110	5,400	0.54	
110-115	4,700	-	
115-120	1,600		
120-125	1,200		
125-130	1,800		
130-135	2,300		
135-140	2,600		
140-145	1,700		
145-150	930		

LOG OF BOREHOLE No. 398/304

Area: BOOLOOROO

Dip: 350 N Date: June/July 1970

Drilled by:

S.A. DEPARTMENT OF MINES

Depth	Cu,ppm	Cu (%)	Remarks
0- 5	missing	y .	
5- 10	10		
10- 15	710		
15- 20	920		
20- 25	1,200		
2 5- 30	2,700		
3 0- 35	5,400	0.54	
35- 40	2,100	-	
40- 45	2,200		
45- 50	1,800		
50- 55	2,300		
55- 60	850		
60- 65	920		
65- 70	820		
70- 75	1,600		
75- 80	1,500		
80- 85	1,100		
85- 90	830		
90- 95	830		
95-100	1,100		
100-105	2,000		
105-110	2,700		
110-115	1,500		
115-120	590		
120-125	320		
125-130	240		
130-135	230		
135-140	430		

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LOG OF BOREHOLE No. 398/304

Area: BOOLOOROO

Dip: 550 N

Date: June/July 1970

Drilled by:

S.A. DEPARTMENT OF MINES

Depth	Cu,ppm	Cu (%)	Remarks
0- 5	240		
5- 10	280		
10- 15	170		
15- 20	240		
20- 25	2,300		
25- 30	3,900		
3 0- 35	5,700	_0.57	
35- 40	2,900	-	
40- 45	980		
45- 50	470		
50- 55	610		
55- 60	1,500		
60- 65	920		
65- 70	1,700		
70- 7 5	650		
75- 80	1,700		
80- 85	800		
85- 90	890		
90- 95	600		
95-100	860	-	
100-105	9,000	0.9	
105-110	2,700		
110-115	1,800		
115-120	980		
120-125	280		
125-130	220		
13 0- 135	230		
135 -140	310		
140-145	180		
145-150	150		

Area: BOOLOOROO

Dip: 700 N

Date: 49/40/44/10.

Drilled by: INVESTIGATION DRILLING PTY. LTD. (Percussion Drilling with 3" bit)

Depth	Cu,ppm	Cu (%)	Colour	•	Remarks
5- 10	600		Light Brow	תי	
10- 15	650		Ú		
15- 20	420		ŧ		
20- 25	450		Yellow Bro	wn	
25- 30	50		, , ,		
3 0- 35	50				
35- 40	90		u	• . •	
40- 45	150		0	t.	
45- 50	150			:	
50- 55	140		u	ā	
55- 60	100		4	41	
60- 65	90				
65- 70	80		Ð	**	
70- 75	200				•
75- 80	420		ti ti	. '	
80- 85	600		8		•
85- 90	700		Brown	•	
90- 95	400		Red Brown		•
95-100	550		8		
100-105	580				•
105-110	1,500		Ð		
110-115	900		n		
115-120	1,200		ti		
120-125	900		Ú	2	
125-130	950		4 0		
130-135	1,300		9 9		
135-140	1,200		e a		
140-145	1,000		Red Brown		
145-150	1,600		V.Dark Bro	LITTA	
150-155	450		Dark Grey		Sulphides
155-160	850		" Brown	n l r r c r (e oarburade
160-165	2,600		V.Dark Brown	wn Minor S	ulph & Oxide
165-170	13,000	-1. 3	4.5077. 510.	WII PIZITOR L	H H
170-175	1,300	-	Light Brown	n Minor (vidas
175-180	1,100			Tr	ii ii
180-185	700		n n	• ••	
185-190	250		, is ti	4	
190-195	700		:: ti		·
195-200	550		in B	12	
200-205	700		11 11 (ı	4
205-210	360		. H H		
210-215	430				i i
215-220	350		31 II		
220-225	360		, a 8 0	4,	;
225-230	360		a a		** **
230-235	300		H H		
235-240	250		n H		
24 0- 245	250		u n		,
245-250	320		1) (t		

LOG OF BOREHOLE No. 392/312.

0085 Area: BOOLOOROO

Dip 900

Date 23/27-1-71

Drilled by:

BORING ENTERPRISES

Depth	Cu, ppm	Cu	(%)	Colour	Remarks
5-10	560			Mauve	£14
10-15 15-20	180			Off white	Some Hematie
20-25.	180			Creamy	-
20-25. 25-30	290				
30 - 35	220			White	
35-40	500				
40-45	650			L. Brown	•
45-50	330			White	•
50~50	130				sc
55 -6 0	280 370			Creamy	-
60 -6 5	570 600			L. Brown	
65~ 7 0	1,700			11	
70-75		0.0		*	Tr Malachite
75-80	8,000 10,000	8.0		mid Brown	Minor "
75-85 80~85	2,000	1.0		и	11 11
35-90	-				eks * saa
£0-95	2,200 700			Yellow brown	1 • • • • • • • • • • • • • • • • • • •
95-100		-			E0 (*
100-105	1,000				ST NJ
105-110	600				in in
110-115	780 310			•	er , es '
115-120	300			Creamy	
120-125	300 330		•	u	Aug
125-130	200				
100-135	40			Off white	
135-140	: 40 300 ↔			. "	
140-145	900				Tr Malachite
145-150	330			L. Brown	, men
150-155	140			и .	cwi
155-160	1:0			Off white	took
160-165	70			Off Murce	
165-170	500			L. Brown	•
170-175	160			Off white	- ·
175-180	170			OTT MITTE	
180-185	150			V. L. Grey	_
185-190	200			L. Grey	_
190-195	180			- н	
195-200	60			, n	
200-205	2,800			Grey	Tr Pyritic sulphides
205-210	1,100			B. Grey	Tr " "
212-015	200			11	Tr " "
215~226	4,500			11	Minor copper
220-225	3,∉00			. 0	" " Trc metallic
225-230	650			n n	Minor copper "copper"
20-235	10				- -
235-240	140			"	Tr pyritic sulphides
359-2-5 3- 0-2-5	140			U U	Minor copper
2.5-250	240 230			11	Tr pyritic sulphides
5-250 !50255	4 8 0			11	
55-260	120		4,	. 11	Minor " "
160-265 .	440				, ,
65-270	.00			R. Brown	n n n
70-275	210			B. Grey	H H H
75-280	390				
80-285	560			R. Brown	Moderate " "
85-290	2,200			H	
90-295	2,000			· u	CMinor " "
	-				•

Log of Borehole No. 392/312

Dip 90° Date 23/27 -1-71

Depth	Cu,ppm	Cu (%)	Colour	Rema	rks	
295-300	7,600 -	0 00	B. Grey	Moderate	pyritic	sulph.
300-305	/,100 -	0.58	ŧ)	Minor	•	n
305-310	2,200		ti	Cohsid.	н	11
310-315	800		11	Moderate	H	II
J15-320	550		11	Minor	ti .	11
320-325	2,000		R. Brown	Moderate	H	tt
325-330	2,400		ti .	10	11	11
330-335	2,800		11	Minor	u	n
535−340	2,000		Ü	tt	ŧı	ti .
3-0-345	1,900		B. Grey	Consid.	ŧŧ	11
345-350	1,400			11	10	II.
35 0- 355	3,100		11	Mihor	09	ņ
355 ~36 0	4,000		\$1	Tr	u	u
J60 - 365	1,000		Grey & Mauve	-		
365-370	500 ⊷		V.L. Brown	Tr malacl	nite,Quan	rtzchip
3 70- 3 7 5	12,000		some mauve L. Brown	-	•	-
≗ 7 5⊬∟90	11,000		Mauve	.5% Malac	chite	
180-385	2,200	1.13	13	Minor '	some 1	Limonit
385~390	10,000		n	0 ' 1	1 0	11
390~395	5, 00		13	. 5%	1	
395-70 0	27,000 -	•	(i	Tr	1	
⊘00 ⊷⊘05	1,300		ti	Tr	,	
05110	300		Grey & Mauve	- Some I	M ematite	
410-415	430		L. Grey	Minor sul	phides	
41520	600		V.L. Grey	II	tt .	
. 20-425	800		11	Tr		
2530	350			Tr "	ľ	
0 ⊶ 35	€50		Đ	Minor	D	
2 5-440	120		n	11	ti	
440-445	210		В	Tr	И	
5-450	280		fl	11	o '	
45 0- 455						

^{5 5/8&}quot; Button Bit o' - 350ft 5" Casing to 350ft. 4" Roller Come 350' - 450 ft.

Coring not possible. Hole abandoned after passing through one zone and drilling 35 ft into V.L. Grey sandatone. Sulphides as listed 410-450 ft in Sandatone possible black pyrite.

LOG OF BOREHOLE No. 396/312

Area: BOOLOOROO

Dip: 70° N

Date:

Drilled by:

Depth	Cu,ppm Cu(%)	Colour	Remarks
5- 10	1,100		
10- 15	700	•	
15- 20	320		
20- 25	missing		
25- 30	410		
3 0- 35	500 _		
35 - 40	30,000		
40- 45	8,500 1.62		
45- 50	10,000		
50- 55	2,200	•	
55- 60	3,600		
60- 65	3,600		
65- 70	1,800		
70- 75	1,300		
75- 80	1,200		
80- 85	980		
85- 90	900		
90- 95	700		
95-100	900		
100-105	920		
105-110	8 2 0		
110-115	600		
115-120	550		
120-125	600		
125-130	750		
130-135	800		
135-140	800		
140-145	500		
145-150	880		
150-155	550		
155-160	1,100		

0088 LOG OF BOREHOLE No. 396/312

Area: BOOLOOROO

<u>Dip</u>: 70⁰N <u>Date</u>: 9-12-70

Drilled by: R.W. O'Neill

Dep	Depth Cu,		Cu (%)	Colour	Remarks
5 -	10	1,100		White	
10 -	15	700		Creamy	
15	20	320			
20 -	25	missing		Pink "	
25 -	30	410			Malaghita
3 0 -	35	500		Off White	Malachite Azurite &
3 5 -	40	30,000		Lt. Pink	Malachite
40	4 5	8,500	1.62	e4	.5 Azurite
40 - 45 -	45 50	10,000	1100	Pink	.5 Malachite
50 -	55	2,200		11	Minor "
55 -	60	3,600		Lt. Brown	.4 "
60 -	65	3,600		V.L. Brown	Minor "
65 -	70	1,800		L. Brown	44
70 -	75	1,300		V.L. Brown	
75 -	80	1,200		ti	
80 -	85	980		Ü	
85 -	90	900			
90 -	95	700		ŧ	No
95 -	100	900		tt.	further
100 -	105	920		0	mineral-
105 -	110	820		U	isation
110 -	115	600		a	evident
115 -	120	550		il	
120 -	125	600		t i	
125 -	130	750		II.	
130 -	135	800		tt	
135 -	140	800		ii	
140 -	145	500		n	
145 -	150	880		8	
150 -	155	550		ti	
155 -	160	1,100			
160 -	165	520		ii	
165 -	170	650		11	
170 -	175	700		u	
175 -	180	1,500		e e	
180 -	185	1,900		0	
185 -	190	1,900		 1F	
190 -	195	1,700		 81	
195 -	200	1,200		"	
100 -	205	950		ii .	
20 0 -	210	1,400			

Area: BOOLOOROO

Dip: 700 N

Date: 19/11/70

Drilled by: INVESTIGATION DRILLING PTY. ITD. (Percussion Drilling with 3" bit)

Depth	Cu,ppm	Cu (%)	Colour	Remarks
5- 10	660		Light Pink	
10- 15	1,500		" Brown	
15- 20	1,100		Pinkish	
20- 25	1,200		Light Brown	
25~ 30	610		Pinkish	
3 0- 35	490		Pink	,
35- 40	450		n	
40- 45	400		н	
45- 50	450		#	•
50- 55	1,000		Light Brown	
55 - 60	520		Pink	
60- 65	900		Pinkish	No Visible Copper
65- 70	1,500	•	Brown	detected
70- 75	1,300		Yellowish	(5-225')
75- 80	1,300		U	
80- 8 5	1,300		tt	•
85- 90	1,200		Pink	Tr Sulphides
90- 95	1,000		t	(225'-230')
95-100	1,300		#	
100-105	1,700		Light Brown	
105-110	1,000		Brownish	
110-115	400		ti	
115-120	1,100		Ħ	
120-125	900		n	Hole abandoned
125-130	600		11	at 230 feet, due to
130-135	500		0	water.
135-140	650		(I	Small Recovery
140-145	900		19	
145-150	320		Creamy	
150-155	460		Pinkish	
l 55-1 60	430		Yellow Brown	
160-165	490		i i	
165-170	3 7 0		H B	
170-175	330		Creamy	
175-180	260		tt	
180-185	350		п	•
185-190	420		11	
190-195	420	•	n	
195-200	400	,	n	
200-205	390		er	
205-210	350		8	
210-215	350		19	
215-220	400		ŧI	
220-225	440		10	
225-230	500		Light Brown	Tr Sulphides

LOG OF BOREHOLE No. 395/320

Area: BOOLOOROO

Dip: 700 N

Date: 7/12/70

Drilled by:

Depth	Cu,ppm	Cu (%)	Colour	Remarks
5- 10	2,200		L. Brown	
10- 15	430		11	
15- 20	2,800		Ħ	
20- 25	2,900		It	
25- 30	400		V.L. Brown	
3 0- 35	500		ti .	
35- 40	800		II	
40- 45	900		16	
45- 50	2,300		Mid Brown	
50- 55	2,400		ti	
55- 60	2,900		ti	
60- 65	1,200		tt	No Visible
65- 70	1,000		H	
70- 75	1,000		ti	Copper
75- 80	3,900		Yellow Brown	
80- 85	1,700		V.L. Brown	throughout
85- 90	1,500		is to	
90- 95	1,600		11	5' - 235'
95-100	4,000		Ginger Brown	
100-105	2,300		11	
105-110	6,000	0.6	tt .	
110-115	3,300		Yellow Brown	
115-120	3,400		0	
120-125	3,400		Ginger Brown	
125-130	2,600		021.902 22011.	
130-135	2,500		a ·	
135-140	2,000		Yellow Brown	
L40-145	1,900		10 20 11 11	
145-150	2,000		U	
150-155	2,200		N .	
155-160	2,100		п	
160-165	1,800		а	•
165-170	1,700		11	
170-175	1,000			
L75-180	1,100		ti	
L8 0-18 5	1,100		ti .	
L85-190	1,000		n	
190-195	1,400		u	
195-200	•		'n	
200-205	1,200		ti	· ·
205-210	1,300		ti	•
210-215	1,200 1,300		11	
:10-215 :15-220	2,000	•	11	
20-225	2,000		··	
25-230			ø	
30 – 235	1,800 1,900		11	
	•		n	
35-240	1,400 1,700		n	
40-245				

Area: BOOLOOROO

Dip: 700 N

Date: 22-11-70

Drilled by: INVESTIGATION DRILLING PTY. LTD. (Percussion Drilling with 3" bit)

Depth	Cu,ppm	Cu (%)	Colour Remarks
5- 10	22,000	-	Pink Min Malachite
10- 15	11,000		Red " "
15- 20	18,000)) (1 H
20- 25	14,000		Mauve .75% Malachite
25- 30	9,200		n 1% n
30- 35	2,100	1.68	Orange Minor "
35- 40	29,000		Mauve 2% "
40- 45	28,000		V.L. Brown 1'% "
45- 50	15,000		L. Brown .5% "
50- 55	18,000		1 % "
55- 60	18,000		V.L.Brown 11% "
60- 65	4,000	-	L. Brown Minor "
65- 70	3,500		11 th ti
70- 75	3,500		Orange " "
75- 80	3,600		L. Brown Tr "
80- 85	4,000		11 11 11
85- 90	2,500		Orange Iron stained Quartz
90 95	2,300		н н н
95-100	2,400		ti a H
100-105	2,400		Y. Brown " "
105-110	2,100		n e n
110-115	1,900		1 0 41 43
115-120	2,400		4 II ti
120-125	1,900		# , # #
125-130	2,800		" Tr "
130-135	2,500		· H H
135-140	3,000		" Minor"
140-145	1,700		u Tr u
145-150	2,400		" Tr
150-155	2,500		" Tr "
155-160	2,300		" Tr "
160-165	1,700		e v r
165-170	1,700		n Tr n
170-175	1,700		u Tr u
175-180	2,000		a Tr
180-185	3,600		" Minor "
185-190	3,500		L. Brown " "
190-195	4,200		n u
195-200	3,500		Brown " "
200-205	3,900		small recovary
205-210	3,200		" (DAMP)

Hole abandoned due to water. 3" Hammer Bit throughout.

LOG OF BOREHOLE No. 397/324

0092 Area: BOOLOOROO

Dip: 700 N

Date: 18/19-11-70

Drilled by:

Depth	Cu,ppm	Cu (%)		Colour	Rema	rks
5- 10	400		Ligh	t Brown		
10- 15	700	,	ti	Ħ		
15- 20	10,000	1.0	Brow	n	Tr Oxide	Copper
20- 25	1,000	•	Ligh	t Brown		
25- 30	850		, ii	10		
3 0- 35	800		a	\$1		
35- 40	1,200			ti		
40- 45	950		tJ	ti.		
45- 50	500		. 11	Ħ		
50- 55	800		Brow	n ·		
55~ 60	750			t Brown		
60- 65	1,000		Crea			
65- 70	4,200		R Br	-	Tr Oxide	Connar
70- 75	1,700		Brow		II OXIMG	copper
75- 80	430		DIOW.	44		
80- 85	320		V o.11.	ow Brown	Sulph	idon
85 - 90	260		1677.	OM PLOMI	agrbii.	Considerat
90- 95	150		ti	ts	12	CONSTREIA
95-100	80		'n		tr	Ounnha
100-105	60					Quartz
					. "	eri. 2
105-110	100			" "		Chips
110-115	60					_
115-120	50		Brow	n	**	Some
120-125	930			_	"	
125-130	200		Yell	ow Brown	11	<u>Mica</u>
130-135	40	-	0 -	51 . 11		
135-140	50				tt	
140-145	3,000		n	11 	II	
145-150	500			11		Minor
150-155	420		Crea	ny	4	Tr
155-160	250		0.			Tr
160-165	450		0		n ,	-
165-170	350	•	- #1			Tr
170-175	270		L Gre	-	#	Tr
175-180	320		-	t Brown	0	Tr
180-185	2,500	→ ·	Grey		ø	Minor
185-190	7,000	0.56		Grey	ti .	11
190-195	4,200	_		Grey	ti	H
195-200	10,000	_1.0		11		If
200-205	8,500	0.64				. 11
205-210	4,400	_	_	: Brown		0
210-215	3,100		Pink		Native Co	
215-220	2,200		Pink	ish	Minor Amo	
220-225	2,700		Pink		210'-225'	
225-230	2,800		H		Native Co	
230-235	4,300		EI .		evident a	nd increa
235-240	2,100		#		ing towar of hole 2	ds bottom

Area: BOOLOOROO

<u>Dip:</u> 700

Date 15-12-70

Drilled by: INVESTIGATION DRILLING PTY. LTD.

Depth	Cu,pp	om (<u>Cu%</u>)	Colour	Remarks	
5- 10			L. Brown		_
10- 15	210		ti		
15- 20	550		tt		
20- 25	100		tr		
25- 30	250		H		
30- 35	590		Ü		
35- 40	320		H		
40- 45	3 90		u		
45- 50	350		tt		
50- 55	490		u		
55- 60	510		11		
60- 65	250		19		
65- 70	510		Ð		
70- 75	620		H _C		
75- 80	680		tt		
80- 85	870		U		
85- 90	2100		u		
90- 95	1500		Ħ		
95~100	650		ti .		
100-105	680		41		
105-110	560		ts		
110-115	460		ii .		
115-120	300		ti .		
120-125	340		el .		
225-130	900		u •		
130-135	580		tr .		
135-140	210		V.L. Brown		
140-145	450		L. Brown		
145-150	340		Brown		
150-155	540		n		
155-160	320		tt .		
160-165	320		41		
165-170	1000		1. Brown		
170-175	940		V.L. Brown		
175-180	440		Off White		
180-185	440		H .		
185-190	330		D .		
190-195	250		Mauve		
195-200	310		u		
200-205	400		ti		
205-210	590		Pinkish		
210-215	870		Brown		
15-220	150009)		Grey	Sulphide	
20-225	16000)		D. Brown	. -	
25-230	17000)		Brown	Malachite	
30-235	24000)	1.86	Pink	ti .	
35-240	22000)		L. Brown	u	
40-245	20000)		U	Malachite	
45-250	16000)		ti	Minor malachite	

LOG OF BOREHOLE No. 397/332

Area: BOOLOOROO

Dip: 700 N

Date: 17/18-11-70

Drilled by:

Depth	Cu,ppm Cu(%)	Colour Remarks
5- 10	110	Light Brown
10- 15	140	n u
15- 20	210	tt ti .
20- 25	1,100	Yellow Brown
25- 30	650	II 0 .
30- 35	4,700	Brown Ironized Siltstone
35- 40	120	n
40- 45	850	Yellow Brown Some Quartz chips
45- 50	580	H H H H 'W
. 50- 5 5	33 0	H H H H
55 - 6 0	380	Creamy
60- 65	200	Light Brown
65- 7 0	170	at ti
70- 75	650	Brown
75- 80	240	Pinkish
80- 8 5	410	Brown
85- 90	190	Pinkish
9 0- 9 5	350	Brown
95-100	200	Light Brown
100-105	150	u u
105-110	280	Pink
110-115	200	u
115-120	200	" (minor)
120-125	1,800	Light Brown Copper Carbonates/
125-130	550	e e Tr
130-135	250	Yellow Brown Tr "
135-140	200	u u Tr u
140-145	290	Brown " "
145-150	200	Pink " "
150-155	3,200	It to the
155-160	150	Light Grey " or
160-165	820	Blue Grey Copper Sulphides (min
165-170	420	Dark Grey Tr "
170-175	300	" " Tr Oxides Cu
175-180	200	Grey Tr Sulphides
180-185	200	" Tr
185-190	200	11 tt - 11
190-195	7,500	Purple " "
195-200	4,300 0.59	Light Brown Tr Oxides Cu
200-205	3,100	u u Tr u u
205-210	1,800	Yellowish Tr " "
210-215	1,400	Creamy Tr " "
215-220	880	Light Brown Tr " "
220-225	550	Creamy
225-230	600	Ħ

Acca: BOOLOOROO Dip 90°

Date 27-1-71

Drilled by:

Dip 90⁰ BORING ENTERPRISES

Division Division			Market A . S. St. Stephenson and A. S. St. St. Williams St. St.	
Dooth	Cu, nam	Cu (%)	Colour	Remarks
5-10	70		V.L. Brown	(A
10-15	100		ii.	•
£5-20	4.0		L Brown	to at
20-25	50		Ginger Brown	-
25-30	60			
10-35	₹.0		II .	<u></u>
35-40	50		ri .	-
4 9 ⊷45	3.5		L. Brown	·
5-50	. 5		11	·
50~55	. 30	•	11	*0
55~ 60	25		Ginger Brown	-
60 65	25		Mauve	
60- 70	30		51	 '
70~7 5	120		ta	sco.
7∄~80	170		Palë Mauve	
308 <i>!</i>	170		V.L. Brown	-
3r 90	3 60		. 11	₩s.,
, ≲0~95	290		(1	6.5
95~100	. 160		. 0	3
100~100	- 380		" ()	Crair
105~410	540		"	-
110-1 5	1,000		;;	-
.15-120	520	•		~
420-125	50		 H	_
125-130	5		n	_
::30-135	25		n	
135-140	80		tt	
140-145	60 40	•	9	au.
145-150	40 35		11	Ð
150-155	60		11	sce
155-160 169-165	100		U	••
165-170	45		Mauve	
170-175	520		u	0
175-180	250		н	••
180-185	85		11	-
185-190	50		H	-
.90-195	7 5		Grey & Brown	
<u>: 95- 200</u>	150			w
200-205	1.0		B. Grey	Carbonated
205-210	55		ti	
210-215	1 60		¢t .	Tr pyritic sulphides
215-220	210		11 D	Minor " "
220-225	300			a a H
220-250	100		Blue Grey	,
230-23 5	3 80		"	Poss, minor chalgopyrite Minor pyritic sulphides
235-240	45 340		. "	MINOR BALLOTE adjustees
240-2-7	240			n n n
245-250	230			Tr " "
250-255	610		11	-
255260	400			Possib. minor chaleo- byrite
260-265	140		10	Mino: pyritic sulphides
265-270	550		H	Tr
270-275	270		н	Minor The Land
275-280	240		В	n u u

CiC

Dooth	Cu, מפרה	Ca (ෆ්)	Colour	Ronarks
100-20.1	,,000 m		Blue Grey	Poss. minor chaleony-
38203	. 7 0		R R	To zite
250-25	2.0		U	Minor pyritic sulphides
29: -009	1:0		ti	g g n
100 00:	:,coo		H .	di n H
0110	3,000		ra	" chalcopyrite
360 213	.80	·	• 11	" pyritic sulphides
25"-520	1,000		ti	a ii a
220-125	- i.aa		, n	TI II II
025-010	3:0		t1	to the co
(0-2/5	700		· H	∰;• 00 ca
	7 00		80	ig a
373-371	300		n ·	कृतु व व
\$150.00	280		ti	Micoc " "
5 0 - 100	୯୭୬		č;	TO MOCOVOTY & COME
21 - (6)	160		n	In pychtic ou obice:
369-36	9,000 -	A 50 5 5	Dlue"& Brown	0 0
368-370	5, 30	0.73	bel, aged	23 G B
1700.7°	300		Doop Maavo	•
£ 7 ~~.80	300		u marya	Minor " "
. 90- , 80	008		11 0	Tr o o
1.00 -25%	690		A. Baora	Tr u o
.50-05"	1, 00		II	Mimor Malachite
.00 - 00	700		to ·	të și
00 00	a, m		L. Boods & Mouve	to g
3 3	16,007 🗡		Bala Mauvo	Ta "Minor Sulph.
49 < 1	7/200	30.3	L. Gnoy	Minor Malachite
(1 °0434	8,000	30,0	Geoy & Linuvo	11 0
430-131	× 000,05		Couvo	₩. O
35-253	೭೦,೦ ೦೨		. н	
400 400	2,.00	٠	, u,	· ·
"3 ~ 49	700		Pale Mauve	
(9~ ° I	,.00	, ,	Grey & Mauvo	Minor Malachito
/ ~4"G	7,000 -	0.5 7	L. Groy	" Sulph. To Malach.
- 1001 5 5	1, 100 H		Gtey & Mauva	" Sulyh, To Malach. Sysitic albhide
C = 1671	2,00		Mauve	ma n
209-16	900		12	Tr a a
164-4 7 0	900		L. Brown	Mimor . 0
₹ 7 0 -1 7 -	050		1;	Tr. o
70 -080	309			Minos culphidos
430~1 3 1	700		F. Nanac	Mar . B
3' - 93	9,000		_	Ta "
160~10t	1,200		Mauve	Tx
199~500	√5 0		. 11	Tr n

Actombts to core at 200 - 100 resulted in no recovery; the reversal was however recovered as an ordinary sample. It is clear that attempts to come in this material with a percussion drill is an absolute failure.

Thin Sidefite bands are very provalent throughout the black whole area some manor chalcopyrite is also present; winor malachite beyond 100 ft

Area ELSIE ADAIR Dip: 70°N

<u>Date</u>: 16-12-70

Drilledby: INVESTIGATION DRILLING PTY. LTD.

Depth	Cu'ppm (Cu%)	Colour	Remarks
5- 10	140	Y. Brown	
10- 15	150	tr	
15- 20	140	ti	
20- 25	180	u	
25- 30	200	41	
30- 35	130	L. Brown	
35 0 40	290	ii	
40- 45	240	I)	
45- 50	110	Ħ	
50- 55	85	ti .	
55- 60	190	11	
60- 65	180	V.L. Grey	
65- 70	160	L. Brown	
08- 75	400	ŧı	
75- 80	560	н	
80- 85	340	H .	
85- 90	490	V. Brown	
90- 95	320	Off White	
95-100	500	Creamy	•
100-105	2000	L. Brown	
105-110	5 0 00)	ŧi	Minor Malachite
110-115	4000) 0.53	V.L. Brown	11
115-120	30 00)	L. Brown	п
120-125	2800	Y. Brown	Minor malachite
125-130	2300	V.L. Brown	n
130-135	11000)	Y. Brown	Minor "
135-140	14000)	V.L. Grey	· ii
140-145	3400)	U	U
145-150	3900)		п
150-155	25,000)	Mauve	
155-160	3100	L. Red Brown	
160-165	1100	Off White	
165-170	950	ti .	В
170-175	540	Creamy	
75-180	300	n	as a second
80-185	800		ti
85-190	700	ti .	•
90-195	840		
95-200	900	a	Malachite
00-205	1000	1	
05-219	750		Malachite
10-215	700		
15-220	600	l1 II	
20-225	1000		
25-230	600	Creamy	
30-235	900	#1 #3	
35-240 40-245	1000	H H	
40-245 45-250	1300	# #	
#3-65U	780	**	

LOG OF BOREHOLE No. 396/340

Area: BOOLOOROO

Dip: 700 N

Date: 4/11/70

Drilled by:

Depth	Cu, ppm	Cu (%)	Colour	Remarks
5- 10	550		L. Brown	
10- 15	450		11	
15- 20	330		lf-	•
2 0- 25	190		Pinkish	
25- 30	320		L. Brown	•
3 0- 35	39 0		G .	•
35- 40	360		H,	
4 0- 45	300		. #	**
45- 50	160		ti	
5 0- 55	110		U	
5 5 → 60	90		B	•
60- 65	160		Pink	·.
65- 70	50		11	
70 - 75	40		Pinkish	•
75- 80	35		ti .	
80- 8 5	70	•	Pink	•
35- 90	80		a	
9 0- 95	100		fi fi	
95-100	35	:	, u	
100-105	90	. •	n	
105-110	90		a e	
105-110	60		o '	
110-115	75	•	Creamy	
115-120	90	*.	L. Brown	4 4
120-125	90		0, 0,	
125-130	80		a .	
130-105	70		Brown	
135-140	130		u	Sulphides
140-145	37400		· u	n ·
145-150	1,600		D. Grey	H
150-155	2,300		n .	ti
155-160	9,000	¯0 . 9	t)	Ħ
160-165	1,000		Ħ	Contaminated
165-170	5,600	0.56	u ·	Some Oxide Copper
170-175	5,700	0.56	D. Brown	11
175-180	1,200	; -	M. Brown	•
180-185	2,600		L. Brown	
185-190	1,800		Creamy	

LOG OF BOREHOLE No. 396/344

Area: BOOLOOROO

Dip: 70° N

Date: 28/10/70

Drilled by:

Depth	Cu,ppm	Cu (%)		Colour	R	emarks
5- 10	60			Pink		
10- 15	40			H		
15- 20	30			n		
20- 25	3 0			ŧ		
25- 30	20			ŧŧ		
3 0- 35	20			19		
35- 40	20			89		
40- 45	40			10	No Visi	ble Copper
45- 50	3 0			Ħ		tected
50- 55	20			Light Brown		
55 - 6 0	20			Pink		
60- 65	3 0		,	ti .		
65- 70	40			18		
70- 75	10	*		. 0		
75- 80	20			u		
80- 85	30			Light Brown		
85- 90	30			Creamy		
90- 95	50.			Pale Pink		
95-100	55	1		Creamy		
100-105	70			Light Brown		
105-110	70			Creamy		
110-115	70		•	Light Brown		
115-120	70			n n		
120-125	130			L. Grey		
125-130	280			D. Grey		keens Kaak Shale
130-135	440			n Groy	Carsona	own Diale
135-140	000,د			er	Duritic	Sulphides
140-145	12,000	•		ti	. u	#
145-150	13,000	1.25		u	u	H .
150-155	2,800	•		ti .	H	a
155-160	640			Dark Brown	•	
160-165	520			11 11		
165-170	320		*	Yellow Brown		
170-175	280			L. Brown		
175-180	410			Y. Brown	,	
180-185	300			Pinkish		
185-190	3 60			a strike ou		
190-195	180			u .		
195~200	160			11		
200-205	200			11		
205-210	260			11		
210-215	380			Creamy		
215-220	580			Pinkish		•
220-225	560			L. Brown		
225-230	460			Creamy		
230-235	440	-		Creamy	Small D/	covery due
204 600	770					conditions.

LOG OF BOREHOLE No. 396/348

Area: -ELSIE ADAIR

Dip: 700 N

Date: 27/10/70

Drilled by:

- **J**

Depth	Cu,ppm C	(%) Colour	Remarks
5- 10	75	L. Brown	
10- 15	130	Pinkish	•
15- 20	75	17	•
20- 25	50	White	
25- 30	7 5	n	,
3 0- 35	55	a	
35- 40	55	H ·	
40- 45	6 5	#	,
45- 50	40	Pinkish	•
50- 55	20	Pink	
55- 60	25	1 f	
60- 65	25		No Visible
65- 70	95	ti ti	
70- 75	70	(1	Copper 5' - 165'
75- 80	120	White	
80- 85	140	ts	
85- 90	7 5	L. Brown	
90- 95	90	U	•
95-100	90		•
100-105	95	. 44	
105-110	110	- 4	
110-115	120	11	
115-120	95	n	•
120-125	140	\$ †	
125-130	110	n	
130-135	170	n	
135-140	220	L. Grey	•
i 40-145	310	it	
145-150	320	Grey	,
150-155	370	u ¯	
155-160	1,000		
160-165	6,000	U .	e e e e
165-170	6,500 _	,62 u	Sulphides) 0.63
175-180		D. Grey	#) 0.0 5

0101 LOG OF BOREHOLE No. 396/352

Area: ELSIE ADAIR <u>Dip</u>: 90° <u>Date</u>: 9-12-70

Drilled by: BORING ENTERPRISES

<u>Depth</u>	Cu,ppm Cu(%)	Colour	Remarks
5 - 10	260	White	
10 - 15	280	White	
15 - 20	160	White	
20 - 25	320	White	
25 - 30	330	White	
30 - 35	280	White	
35 - 40	230		
40 - 45	290	White	
45 - 50	470	White	
50 55	730	Creamy	
55 - 60		White	
	1,200	White	
	280	Creamy	
	250	White	
•	100	White	
75 - 80	120	L. Brown	
80 - 85	170	White	
8 5 - 90	170	White	
90 - 95	400	White	
95 - 100	5,600 0.56	L. Brown	Malachite
00 - 105	880	V.L. Brown	Min. "
05 - 110	400	ti	ŧ
10 - 115	640	Brown	
15 - 120	450	L. Brown	Malachite
20 - 125	900	H (1997)	***
25 - 130	1,100	Pink	
30 - 135	470	P. Mauve	
35 - 140	700	L. Brown	
40 - 145	790	Pink	
45 - 150	550	Pink	
50 - 155	700	Pink	
55 - 160	380	V. Pink	
60 - 165	240	11	
55 - 170	500	tt	
70 - 175	700	Red	
75 - 180	700	Brown	
30 - 185	510	Brown	
35 - 190	230	Grey	
90 - 195	3 40	Brown	
95 - 200	370	Brown	
0 - 205	480	L. Brown	
05 - 210	520	L. Brown	
0 - 215	250	Off White	
5 - 220	450	L. Brown	
0 - 225	200	Mauve	
5 - 230	180	L. Brown	
0 - 235	480	Pink	
5 - 240	430	P. Mauve	
0 - 245	380	L. Brown	Some iron
5 - 250	210	Off Brown	damp Quartz chi
			como Timor
0 - 255	550	Y. Brown	some Limon Large Iron Quartz chi

LOG OF BOREHOLE No. 392/352

0102 Area: ELSIE ADAIR

Dip: 70⁰ N

Date: 9/10-11-70

Drilled by:

Depth	Cu,ppm	Cu (%)	Colour	Remarks
5- 10	110	· · · · · · · · · · · · · · · · · · ·	White	No Visible Copper
10- 15	230		Creamy	n dans of the
i5- 20	210		u ozodanj	ti ii
20- 25	130		Pink	н
25- 30	80		Pale Pink	Ħ
30 - 35	30		PALE PINA	\$1
35 - 40	50		EI N	II
			ti ti	11
40- 45	120		41 G	
45 - 50	130		ti ti	# .
50- 55	140		11 11	n .
55- 60	90			17
60- 65	110			
65- 70	55		# #	#1
70- 75	70		Light Brown	11
75- 80	140		Yellowish	n
80- 85	180		u	. 11
85- 90	120		Pinkish	u .
90- 95	150		#	10
95-100	31 0		ü	#
100-105	700		W	0
105-110	900		Light Brown	Tr Oxide Copper
110-115	1,400		Yellowish	Tr " "
115-120	1,600		N	Tr a s
120-125	1,100		II .	Tr " "
125-130	3,900		H	Minor Oxide Copper
130-135	3,100		Pink	.5 " "
135-140	2,500		'n	.5 " "
140-145	2,500	,	Creamy	.5 " "
145-150	1,600		L. Brown	Minor " "
150-155	1,500		Pink	# # 11
155-160	3,000		u.	4 8 9
160-165	750		Pinkish	11 B II
165-170	340		n	n n
170-175	300			Tr a n
175-180	420		Light Brown	Tr " "
180-185	410		H H	Tr "
185-190	980		er ir	Minor " "
190-195	950		Pinkish	11 11 11
195-200	1,800		Yellowish	n II n
200-205	2,900		Light Brown	Oxide Copper .75%
205-210	2,400		Pinkish	" ".75%
210-215	2,700		a Eliuran	.75%
215-220	2,200			.75%
220-225	2,700		Brown	Minor Oxide Copper
225-230	29,000	2.9	Dark Grey	a a a
230 - 235	4,500		Brown	m 11 41
235 - 240	2,100		Light Brown	a u u
240 - 245	1,000		Pinkish	Tr Oxide Copper
245 - 250	700		Pink Pink	Tr oxide Coppar
				Carbona Zone
				Oxide Copper showi

LOG OF BOREHOLE No. 396/352

Area: ELSIE ADAIR

Dip: 600 N

Date: 8/10/70

Drilled by:

Depth	Cu,ppm	Cu (%)	Colour	Romarks
Ĵ - 5	170		White	
5- 10	200		ŧi .	
10- 15	100		e e	
15- 20	120		Pink	
20- 25	110		White	
25- 30	200		#I .	
3 0- 35	370		ta	
35 - 40	270		U	
₫0- ₫5	270		ti	
45- 50	1,100		ti	
50- 55	500		tt	
55- 60	270		11	
69- 65	130		(1	
65- 70	150		n .	
70- 7 5	160		Pink	
75 - 80	1,300		ti	'
90- B5	130		Red	
85- 90	120		H	
90- 95	220		ti	
95-100	250	1	(1	
100-105	210		Dull Red	
105-110	2 60		n n	
110-115	280		Grey	
115-120	130		Dull Red	
120-125	150		0 0	
125-130	170	•	0 - 0	
130-115	2,800		Grey	
135-140	1,000		Dark Grey	•
140-145	2,200	•	Black	THE STATE OF THE S
145-150	9,400	0.58	Red (dark)	MAN ASSEMBLE ASSETS
150-155	570	-	Red (bright)	
160-165	270		n . n	
165-170	3∂0		15 . #	•
170-175	300		u i u	
175-180	2,500	-	Brown	
180-185	12,000		Dark Grey	
105-190	2,500	0.6	Dark Brown	
190-195	7,000		u n	
195-200	19,000	-	11 t f	
400-405	29,000		Dark Grey	
205 -21 0	28,000	2.24	Black	BSA
210-215	18,000		Black	p p
215-220	18,000	-	Brown	ti
220-225	6,300		n 970/11	
245-230	4,300	0.53	u	Siltstone
230-235	missing		•	Eole abandoned duo t

No. 396/352

Depth	Cu,ppm Cu(%)	Colour	Remarks
260 - 265	4,200	L. Brown	Much iron - minor
200 - 203	4,200	H. BLOWII	Malachite
265 - 270	3,200	n	lt.
270 - 275	670	ti	V. Much Iron
	•••		minor quartz
275 - 280	760	Red	Much iron TV
	7 00	1104	Malachite quartz
280 - 285	950	D. Mauve	V. Much iron
200 - 205	200	D. Mauve	
285 - 290	6,800)	Duarm	TR Malachite
205 - 290	0,000	Brown	Some iron
200 200	8 800 0.66	7	5% Malachite
290 - 295	8,800 } 0.66	L. Brown	Some Iron
20- 000			1% Malachite
295 - 300	4,300	H	1% Malachite
300 - 305	2,300	и	Minor Tillite
			5% Malachite
305 - 310	1,400	tı	O
310 - 315	900	u	Much iron some
			quartz TV Malachite
315 - 320	730	ti	Some quartz
320 - 325	280	u	Some tillite
			some iron - minor
			Malachite
325 - 330	2 60	n	Minor "
330 - 335	150	11	II II
335 - 340	430	L. Brown	Much iron Tillite
222 240	430	H. DIOWN	TV Malachite
340 - 345	260	II.	Siltstone
345 - 350	430	u	Some tillite Minor
313 330	130		Iron
350 - 355	700	V.L. Brown	TV Malachite
355 - 360	9,500 0.95	Grey & Red	
360 - 365	310	L. Brown	
365 - 370	300	u	Malachite
370 - 375	1,000	0	0
375 - 380	310	11	u
380 - 385	150	ar .	
385 - 390	350	ti	
390 - 395	340	B .	Some Lim op ite
395 - 400	390	Brōwn	Malachite
400 - 405	300	DT OM II	Some Tillite Mal.
405 - 410		T Bueron	Some Tillite Mal.
	540	L. Brown	
410 - 415	390	L. Brown	Minor Quartz "
415 - 420	480	L. Brown	Some Iron
420 - 425	410	L. Brown	Minor Malachite
425 - 430	980	L. Brown	n
430 - 435	240	L. Brown	11
435 - 440	600	V.L. Brown	Minor Limonite
440 - 445	43 0	L. Brown	H .
445 - 450	280		Minor iron Malachit
450 - 455	650	ti	t) I)
455 - 460	500	ti	16 11
460 - 465	490	Mauve Some B	r. # #
465 - 470	630	Brown Light.	Some Limnonite
		₹'	

No. 396/352

<u>Depth</u>	Cu,ppm Cu(%)	Colour	Remarks
470 - 475	800	L. Brown	Some Limmonite Much Limmonite Minor " Gritty Some "
475 - 480	1,900	Very Brown	
485 - 490	620	Light Brown	
480 - 485	290	Very Brown	
490 - 495	Missing	Light Brown	Much Limanonite
495 - 500	Missing	Ve ry Brown	

Area: ELSIE ADAIR

Dip: 900

Date: 8/11/70

Drilled by:

Depth	Cu,ppm	Cu (%)	Colour	Remarks
5- 10	120		White	
10- 15	130		tt .	
15- 20	95	•	0	
20- 25	310		Pinkish	
25- 3 0	170		ti	
3 0- 35	190		Very Pink	•
35 - 40	3 50		Pink	
40- 45	85		Red	
45- 50	110		CI .	
5 0- 5 5	200		Pink	
55- 60	490		н	
60- 65	470		#	
65- 70	900		Yellowish	
70- 75	370		B .	
75 - 80	800		Creamy	•
80- 8 5	780		White	•
85- 90	700		ŧ	
90- 95	240		Yellowish	
95-100	140		11	
100-105	240		V.Light Brown	n
105-110	240		u n' u	•
110-115	110		White	
115-120	150		Brownish	
120-125	180		Dark Grey	(Carbonated) Coca Cola
125-130	200	•	· # #	• • •
130-135	180			Tr Copper Sulphides
135-140	850	_	D.Blue Grey	0, 0
140-145	6,000		4 H H	H 1,10 H
145-150	10,000	1.15	H H H	ti ti
150-155	19,000	1.17	ti 1) (1	# O B
155-160	11,000	_	Dark Brown	# # . #
160-165	7 50		Red Brown	
165-170	600		Red	
170-175	, 3 90		Pink	
175-180	410		. #	
180-185	380		Light Brown	
185-190	290		10 00	
19 0- 195	310		U D	
195-200	430		n n	
200-205	330		as to	
205-210	950		. н н	
210-215	1,200		# #	Tr Oxide Copper
215-220	1,000		Pinkish	H # H
220-225	1,200		Đ	th en th
225-230	2,300		. "	11 14 15
230-235	600		. 0	U 11 #
235-240	700			
240-245	650			•
245-250	760			

0107 <u>LOG OF BOREHOLE NO. 392/356</u>

Area: ELSIE ADAIR

<u>Dip:</u> 90°

<u>Date</u>: 6/12/70

<u>Drilled by:</u> BORING ENTERPRISES

Depth	Cu.ppm (Cu%)	Colour	Remarks
5- 10	35	Pink	
10- 15	20	II.	•
15- 20	90	White	·
20- 25	60	a	
25- 30	50	11	
30 - 35	120	Creamy	
35- 40	80	L. Brown	
40- 45	100	White	
45- 50	210	n	
50- 55	170	L. Brown	
55- 60	260	ti .	•
60- 65	280	Ħ	
65- 70	250	White	
70- 75	330	Yellow	
75- 80	200	White	
80+ 85	490	V.L. Brown	
85- 90	800	L. Brown	
90- 95	800	Yellow	Malachite
95-100	440	L.Brown	
100-105	380	41	
105-110	500	Y. Brown	
110-115	460	L. Brown	
115-120	1000		
120+125	1300	R. Brown	M. A
125-130	950	L. Brown	Malachite
130-135 135-140	1500	u u	
140-145	180 150	e e	
145-150	180	II.	
150-155	220	t)	
155-160	100	#1	
160-165	160	L. Brown	
165-170	300	9	
170-175	300	ű	
175-180	160	Pink	
180-185	100	D	
185-190	110	n	
190-195	180	tt	
195-200	200	L. Brown	
200-205	190	U ·	
205-210	150	n	
210-215	1 60	11	
215-220	110	D	
220-225	140	u	
225-230	150	Pank	
230-235	240	L. Brown	
235-240	260		
240-245	250	· ti	
245-250	290	ti	
250-255	270	Y. Brown	Some Limonite
255-260	350	fi	11

Depth	Cu, pr	om (Cu%)	Colour	Remarks
260-265	170		Brown	
265-270	200		O.	
270-275	430		ti	
275-280	300		u u	
280-285	500		14	
285-290	300		u	
290-295	590		ii.	
295-300	530		ti	
300-305	680		u ·	
305-310	700		4	
310-315	800		ar .	
315-320	920		Y. Brown	monit
320-325	940		# DFAMII	Lintenised
325-330	950		tr .	
330-335	1000		ti	
335-340	880		· ·	Quartz chips
340-345	940		u	tí
345-350	770		Red Brown	
350-355	810			Very much Quartz
55-360	1000		Y. Brown	
60-365	1000		tr	# #
65-370	880		U	"
70-375	610		ir Ir	
75-380	2900		•	Native copper
80-385	940		Pinkish	IF
85-390	400		9	Hard shale Native copper
90-395	2100			11
95-400	2700		0	Metallic copper clearly evid
00-405		0.86	i i	i)
05-410	3300	V.00	ti	1)
10-415	530			ita
			Brown	Con. Limionite - Minor coppe some malachite
15-420	770		15	R
20-425	380			łt.
25-430	940		r,	Native copper
0-435	1200		" Some mauve	Minor limionite
35-440	800		17	Minor copper
0-445	940		H	
5-450	810		Brown some m	auve/minor limeonite
0-455	1600		U	4
5-460	1500		Mauve	#.
0-465	1400		Mauve	ů.
5-470	1300		H	·u.
0-475	1500		û.	ú
5-480	1400		Brown	.81
0-485	860		ü	ņ
5-490	770		ń	250% Limonite
0-495	750		ů.	# wante
5-500	270		u	

LOG OF BOREHOLE No. 394/356

Area: ELSIE ADAIR

Dip: 900

Date: 9/11/70

Drilled by:

Depth	Cu,ppm Cu(%)	Colour	Remarks
5- 10	150	White	
10- !5	240	Pink	
1520	340	Pale Pink	
20- 25	130	H H	
25- 30	130	Pink	
30- 35	120	14	
35- 40	400	ŧI	
40- 45	3 50	Light Brown	
45- 50	3 80	Pink	
50- 55	110	Light Brown	
55- 60	40	White	
60- 65	35	Light Brown	
65- 70	30	White	•
70- 75	50	a	
75- 80	110	Pink	
80- 85	140	Red	
85- 90	300	, tt	
90- 95	340	Œ	
95-100	170	Pink	
100-105	200	Light Brown	
105-110	510	Pinkish	
110-115	800	Light Brown	Tr Oxides
115-120	1,200	H 9	Tr "
120-125	1,000	0 11	Tr "
125-130	1,400	es 11	Tr "
130-135	1,200	Creamy	Tr "
135-140	650	Yellowish	Tr "
140-145	750	Ħ	Tr "
145-150	1,200	n	Tr "
150-155	1,000	er	
155-160	550	a	
160-165	1,000	Light Brown	
165-170	750	Pinkish	
170-175	550	a ,	
175-180	350	Brownish	
180-185	600	Light Brown	
185-190	430	u v	Tr Oxides
190-195	250	Pinkish	
195-200	380	D	
200-205	270	Ħ	
205-210	150	u,	
210-215.	230	n	1
215-220	260	n	Wet Conditions
220-225	280	n .	10 ft sample 220'-230'
225-230	220	ti	

LOG OF BOREHOLE No. 396/356

Area: ELSIE ADAIR

Dip: 800 N

Date: 9/10/70

Drilled by:

Dopth	Cu , ppa Cu (%)	Colour	Renarko
3- 5	500	L. Brown	Mudstone
5- 10	240	ti ·	
10- 15	290	n	
15- 20	260	11	
20- 25	230	0	
2 5- 30	250	ti .	
3 0- 35	29 0	Pink	
35- 40	200	t)	
4 0- 45	3 30	O O	
45- 50	540	Yellow	
5 0- 55	1,300	Yellow Brown	
55 - 60	2,800	H 0	
6 0- 65	540	ti p	
65- 70	370	Pinkish	•
7 0- 75	440	Pink	
75 - 80	300	ů	
80- 8 5	170	n	
85- 90	470	It	
90- 95	- 440	, a	
95-100	470	17	
100-105	3 80	17	
105-110	560	Pink & Brown	
110-115	350	Pink	
115-120	310	a `	
120-125	140	tr	•
125-130	210	Pink	Black Carbon Staimin
190-195	∌40	Yellow Brown	
135-140	290	Pink	
140-145	290	u	
145-150	24 0	13	
15 0-1 55	250	H	***
155-160	2,200	Grey	Carbona##d
160-165	14,000 1.4	.	
165-170	1,200	Brown	
:70-175	950 _	n	
175-180	8,100		Ceous
180-185	16,000	Black	Carbonated Siltstone
105-190	15,000	tt	Ħ
19 0-1 95	10,000 1.1	11	
195-200	6,600	#I	
200-205	7,500	tt .	
205-210	13,000 _	II	
210-215	2,000 -	Rod	Siltatone
215-220	1,900	ti .	ceons
220-225	19,000	Red	Carbonaked Siltstone
225 - 230	23,000 2.1		energonance of Trepening

LOG OF BOREHOLE No. 398/356

Area: ELSIE ADAIR

Dip: 80⁰ N

Date: 23/11/70

Drilled by:

	<u> </u>			
Depth	Cu,ppm	Cu (%)	Colour	Remarks
5- 10	110		White	
10- 15	70		Pinkish	
15- 20	missing		White	
20- 25	30		11	
25- 30	95		Ħ	
30- 35	240		Creamy	
35- 40	170		u u	
40- 45	100		Pale Mauve	
45- 50	85		11 11	
50- 55	90		White	
55- 60	60		(1	
60- 65	80		Mauve	
65- 70	80	•	L. Brown	
70- 75	75		White	,
75- 80	60		L. Grey	
80- 85	60		V.L Brown	
85- 90	70		L. Grey	,
90- 95	95			
95-100	140		Creamy	
100-105	140		u u	
105-110	160		L. Grey	
110-115	200		D. Grey	Carbona 33 3
115-120	150		D. Gray	Carbona se a
120-125	230		. 16	
125-130	3,600			Tr Chalcocite
130-135	9,500	-	er er	Minor Chalcopyrite
135-140	7,800		11	.5% "
140-145	7,000	0.78	n	.75% "
145-150	7,000			.5% "
150-155	2,500	-	II.	. 5/-
155-160	2,400		N	Ð
160-165	3,500		H	B
165-170	2,300	,	u	u
170-175	25,000	7	a	ti ti
175-180	7,200	/ 1.61	R Brown	Minor Chalcocite
180-185	2,500	-	H	Tr "
185-190	1,100		Red	Tr
190-195	850		'n	Tr
195-200	650		Pink	Tr "
200-205	750		11	Tr "
205-210	2,400		n	Minor Carbonates Malachi
210-215	3,200		R. Brown	Tr "
215-220	1,600		# B20111	Tr "
220-225	1,100		Brown	Tr "
225-230	950		Brown	Tr Malachites
230-235	1,000		H	Tr "
235-240	1,400		L. Brown	Tr #
	-, 100			-

LOG OF BOREHOLE No. 392/360

Area: ELSIE ADAIR

Dip: 700 N

Date: 28/29-11-70

Drilled by:

Depth	Cu, ppm	Cu (5)	Colour	Remarks
5- 10	2,800		Pink	Tr M alachite
10- 15	2,700		19	II II
15- 20	3,000		Yellow	Minor "
20- 25	1,100		Pink	Tr "
25- 30	240		11	11 11
3 0- 35	200		Ħ	
35- 40	120		a	
40- 45	100		Pale Pink	No Visible
45- 50	140		17 : 41	10 12020
5 0- 5 5	150		Creamy	Mineralisation
55- 60	100		n ar can'y	12
60- 65	90		Off White	below 30 feet.
65- 70	200		Very Pink	
70- 75	160		WGLY FINE	
75- 80	100		11 (1	
80- 3 5	60		n u	
85- 90	190		11 11	
90- 95	180		Light Brown	4
95-100	180		n a	
100+105	180		lt d	
105-110	160		Light Pink	
110-115	190		n n	
115-120	190		11 61	
120-125	150		V.Light Brown	
125-130	150		Pink	
130-135	200		Light Pink	
135-140	200		Pink	
140-145	150		11	
145-150	200		11	
150-155	200		is .	
155-160	150		Light Brown	
160-165	3 00		ů v	
165-170	3 00		H H	
170-175	150		Pink	
175-180	150		n	
180-18 5	100		u u	
185-190	100		ŧj	
190- 195	85		O C	
195-200	170		0	t
200-205	170		Yellowish	
205-210	140		V.L. Brown	
210-215	100		II ti	
215-220	150		t1 f1	
220-225	160		f1 f1	
225-230	130		Pink	
230-235	85		Light Brown	
235-240	160		Pink	
240-245	1/10		n	
245-250	160		n	

LOG OF BOREHOLE No. 396/360

Area: ELSIE ADAIR

Dip: 800 N

Date: 11/10/70

Drilled by:

Depth	Cu,ppm	Cu (%)	Colour	Remarks
5- 10	1,200		White	
10- 15	1,200		Pink	
15- 20	8,000	:••	White	
20- 25	8,000		11	• •
25- 30	2,700	2.2	Pink	
3 0- 35	86,000		Yellow	*
35→ 40	5,100		Pink	
40- 45	2,800	••	10	
45- 50	4,200		Yellow	•
50- 55	4,900		Yellowish	
55- 60	1,200		Pink	,
60- 65	230	٠	PIRK	
65- 70	n2 60		H	
70- 75	350		Yellow	
75- 80	340		Pink	
80- 85	850			
85- 90	2,000		Red "	
90 95	3,000		u ·	
95-100	4,300		. 19	
100-105	4,500		0	•
105-110	3,500			
110-115	3,800		Red	
115-120	2,800		Pink	
120-125	1,400		11	•
125-130	1,300		Red	
130-135	310		Pink	Hole stopped at
135-140	550		D. Pink	4.30 p.m. to prevent
140-145	. 270		Red -	water entering O/night
145-150	200		8	
150-155	180		11	
155-160	200	• •		
160-165	250		#	
165-170	250			1 2
170-175	430			
175-180	270			Tr some Charles
180-185	280			
185-190	440		u, - • •	
190-195	310		Pink "	
195-200	220			Tr
200-205	190		#	
205-210	220			
210-215				
215-220	290		n 	
220-225	200			Tr
225-230	200 360		Pink	Tr
	360		•	
230 - 235 235 - 240	250		H Comment	
	190		11	a of
240-256	700		" Sulp	hides minor oxides
				(Chalcocite)

O 1 1/1 LOG OF BOREHOLE No. 398/360

Area: TAPLEYS (ELSIE ADAIR)

Dip: 700 N

Date: 24/11/70

Drilled by: <u>INVESTIGATION: DRILLING PTY. LITD.</u>
(Percussion Drilling with 3" bit)

Depth	Cu,ppm Cu(%)		Colour	Remarks		
5- 10	280		Pink			
10- 15	190		L Brown			
15- 20	120		II .			
20- 25	150					
25- 30	190		Pink			
30- 35	380					
35- 40	820		Red	Malachite		
40- 45	1,700					
45- 50	900		Pink	1		
50- 55	320		White	Minor Malachite		
55- 60	290		W	Tr "		
60- 65	220		н ,			
65- 70	650		Mauve			
70- 75	390		11	Tr "		
75- 80	1,400	•	tt	Minor "		
80- 8 5	8,000	-	V.L Brown	1%		
85- 90	5,600	0.78	White	1%		
90- 95	9,800	0.70	V. L Brown	1% "		
95-100	1,500	-	Light "	Minor "		
100-105	800		n n	4 11		
105-110	450		0 4	ti· B		
110-115			Red Brown	Tr "		
115-120	790 3 8 0		0 4	Minor "		
120-125	280		Light Grey			
125-130			Grey			
130-135	290 3 6 0		L. Grey			
135-140			Brown			
140-145	250 490		11			
145-150	1,800		B	Minor Malachite		
150-155			II .	H II		
155-160	2,400		11	tt ä		
1 60- 1 6 5	1,500		ti	Tr "		
65-170	1,200		Pink	Tr "		
170-175	430 500		Light Brown	Tr "		
175-180	240		Pinkish	•-		
180-185	250		V.L Brown			
185-190	250		a a			
190-195	240		41	Tr'		
95-200	240 250		n	Tr		
100-205	290 290		Pinkish	Tr "		
.00 - 205			Light Brown	Tr "		
310-215	220 450		0 N	Small Recovery (dar		
15-220	450 450		H 11	Tr Malachite		
13-440	450 440		8 8 m.	Small Recovery (dam		

LOG OF BOREHOLE No. 392/364

Area: ELSIE ADAIR

Dip: 700 N

Date: 4/11/70

Drilled by:

Depth	Cu,ppm	Cu (%)	Colour	Remarks
5- 10	25,000	2.5	Pink	Oxide Copper
10- 15	390	-	11	tt ti
15- 20	500		Creamy	
20- 25	300		ti .	
25- 30	300		Pinkish	
30- 35	200	4	. 0	
35- 40	300		Pink	
4 0- 45	250		II .	
45- 50	180		ŧi ,	
50- 55	210	•	ii .	
55- 60	490	4	L. Brown	
60 - 6 5	500		a .	
65- 70	550			
70- 75	340		Pinkish	
75- 80	280		11	No Visible
80- 85	230		Pink	Mineralisation
85- 90	180	•	П	beyond 15 ft.
90- 95	190		11 11	mojona 15 12.
95-100A	380		· n.	
95-100B	250	٠	j - 11	
100-105	470		u .	,
105-110	320		п	
110-115	500		0	
115-120	440		п	
120-125	420		II .	
125-130	580		u .	* *
130-135	580		11	·
135-140	500		L. Brown	•
140-145	600		n. promi	
145-150	850	•	11	•
150-155	1,100		Yellow Brown	4 - 10 to 10
155-160	200		Pink	100
160-165	390		Pinkish	
165-170A	470		ETHYTOH	
165-170B	500	•	n	
170-175	3 60		u	
175-180	380	•	. 0	
180-185	820		Ü	
185-190	520		. 0	•
190-195	410			*,
195-200	890		u .	
200-205	600		Red	
205-210	350		R. Brown	•
210-215	280		# BLOWII,	•
215-220	350		tt	* * * * * * * * * * * * * * * * * * * *
220-225	500		ti	
225-230	450		ti	

Area: TAPLEYS (ELSIE ADAIR) Dip: 70° N LOG OF BOREHOLE NO. 396/364

Date: 27/11/70

Drilled by: INVESTIGATION DRILLING PTY. LTD. (Percussion Drilling with 3" bit)

Depth	Cu,ppm Cu(%)	Colour	Remarks
5- 10	450	Red	
10- 15	450	U)	
15- 20	500	Pink	
20- 25	360	Red "	
25- 30	130	tt .	
3 0- 35	200	Pink '	
3 5- 40	400	L. Brown	
4045	400	Creamy	No visible
45- 50	320	L. Brown	
50- 55	350	Mauve	Mineralisation
55- 60	400	Creamy	
60- 65	170	L. Brown	5 - 235 ft.
65- 70	300	O '	. 1
70- 75	300	Brown	
75- 80	430	s Iro	n stained Quartz Chips
80- 8 5	390	n ,	
85- 90	1,200	V.L Brown	
90- 95	300	' H	
95-100	350	Ħ	
100-105	290	n	
105-110	3 00	Brown	
110-115	400	#	
115-120	240	11	
120-125	250	e	
125-130	240	Brown	
130-135	1 60	Mauve	
135-140	300	Brown	,
140-145	400	19	
145-150	250	ti	
150-155	300	Yellow	
155-160	190	Pinkish	
160-165	200	Yellow Brown	
165-170	420	ti ti	
170-175	450	H H	
175-180	250	Mauve	
180-185	400	Yellow Brown	
185-190	300	Brown	
190-195	390	Mauve	
195-200	370	Red	
200-205	550	Brown	
205-210	550	Mauve	
210-215	550	n	
215-220	540	Brown	
220-225	550	L. Brown	
225-230	820	Light Brown	

Area: ELSIE ADAIR Drilled by: LOG OF BOREHOLE NO. 389/368

Date: 13/14/1-71

BORING ENTERPRISES

(Percussion Drilling with 3" bit)

De pth	Cu,ppm (Cu (%)	Colour	Remarks
5-40	4,500		Mauve	.5% Malachite
10-15	1,500		н	Tr "
15-20	1,400		n	
20-25	8,000 -		n	Tr "
25-30	•	0.64	Pink	Tr "
30-35	7,900 -		Brownish	Minor some Cuprite
35- 40	1,900		L. Brown	
40-45	1,000		Dk Brown	Tr Malachite
45-50	1,500		Off White	11
50-55	10,000 -	1.5	L. Mauve	• 5 /0
55-60	20,000 -			Minor "
60- 65	3,500		Mauve	Tr "
65-70	980		Brownish	Tr "
70-7 5	170		L. Yellow	
75-80	320		White	-
80-85	55		u	£
85-90	80		tı	1
90-95	120		H	
95-100	150		Off white	
100-105	1,000-	0.71	Mauve	
105-110	7,100 -	0.11	Brown	Minor Malachite
110-115	1,300		DI GWII	
	-			Limonita
115-120	1,500		L. Brown	Tr " some.
120-125	4,300 -	0.56		Azurite
125-130	7,000		Mauve	.75% " "
130-135	2,000			MILHOL
135-140	500		u	Tr " Limonite
140-145	1,000		L.Brown	
145-150	1,400		\$I	Tr " -
150-155	2,400		Brown	Tr " -
155-160	1,800		L. Brown	
160-165	900		ti	ra · m
165-170	900			-
170-175	530		41	cade) (Solo
175-180	140		ti	
180-185	130		White	cons cons
185-190	120		L. Brown	
190-195	180		Grey Carbo	nated
195-200	240		"	Tr Pyritocsulphides
200-205	2,800		Blue gray	Tr " "Red some Oxides
***			44	
205-210	2,400		"	PARIOL
210-215	2,100			Tr " "
215-220	1,300		15	Tr " "
22 0- 225	600		11	Einor "
225-230	480		11	Pyritic sulph some chalecci
230-235	210		II .	Minor Pyr. sulph.
235-240	170		11	ti ti ti
240-245	4,700		11	u u et
245-250	13,000 -		Brown	" Metallic copper
250-255	13,000		II .	Consid. metal.copr
255-260	16,000	1.12	#	41 B #
260- 265	5,600		11	Minor " "
265-270	5,600		" Water	Tr n n
270-275	14,000 -		31	יייןי "

Doyah	Cu,ppm	Cu	(%)	Colour	Rem	arks
275-280	2,500		*******	B. Grey	Minor Py	. sulph Tr.M.
200-285	800			11	•	
2 05~390	790			ŧ		ta si
200-295	. 230			11	ar ,	id \$3
295-300	190				u ·	8 8
300-305	100			# -	81	ti ti i
305-310	310			It	tt ,	q p
310-315	270	•		ŧ	H	H. B
315-320	350			ti	n	11 11
320-325	240			11	•	11 11
325-330	£90			H,	11	81 #
33 0-335	. 780			ti	Ħ	" ", possible
335-340	150			, n	tt	"Ahtimony"
340 -345	170			ű	u	ti d b
3 45-350	110		•	. #	ti .	" "some qutz
35 0-355	180			1)	u .	n u n n
355-360	70				69	u' a # #
36 0-365	290			n .	19	n n n
36 5-370	80		,	41 .	13	n a n . n
37 0-375	70				n	ti 10 \$1 40
37 5-380	70			#	tl	ti ii 11 II
38 9-305	130			1)	н	8 0 D R
38 5-100	65			ú	es	H 0 H 0
390 -395	70				u,	u u u
39 5-400	85			n	£8 .	e u o u
400-405	80				Co	re
405-410	150			Ħ	Pv	. sulph some
410-415	120			ń	Minor py	ritic sulphides
415-420	330			11	D .	п н
420-425	390			tf	tt .	" quartz
425-430	180			13	11	n 11
430-435	230			10	#1	n ' 0 A'
435-440	90			• н	ti	i n is a
440-445	140			11	. H	m n n
445-450	85			n	. a	a n
450- 455	80			ti	tt	n n n
455-460	70				Ħ	n a a
460-465	80			n	H .	u u _
465-470	220			0	D .	o ti
470~475	720			**	tt .	ti A
47 5-480				n	Ħ	a 11 n
480-485				ø	n .	K H H

490 Hole abandoned at 485 feet (No recovery)

Target depth 500 ft.

Depth reached 485 ft.

Coring 400' - 405' Two foot recovery Coring 480' - 485' No recovery

Water flow tested at 2 gallons per second. 4%" button bit though-

Although drilling was possible beyond 480' recovery was small and cuttings were coming up rounded indicating wavitation at depth.

LOG OF BOREHOLE No. 392/363

Area: ELSIE ADAIR

Dip: 900

Date: 9/10/70

Drilled by:

Depth	Cu, ppn	Cu (%)	Colour	Remarks
∴- 5	3,000		Brown	Siltstone
5 - 1 0	1,700		Pink	
10- 15	1,400		CP CP	
15- 20	550		a ·	
20- 25	450		. 0	
25- 30	1,200		ti	
2 0- 35	13,000	-	ti	
35- 40	10,000	1.15	White	
4 0- 4 5	1,100	-	Pink	
45- 50	1,700		n	
50- 55	3,500		a	
55 - 6 9	600 ء ,		Red	
60- 6 5	1,:00		Pink	
65- 70	2,200		Red	
70~ 7 5	3,600		Pink	
75- 80	2,900		ti .	
80- 85	2,900		្	
85- 90	1,600		Yellow	
90- 95	5,600	0.56	Red	
95-100	9,100	-	U	
100-105	9,800		ti .	
105-110	18,000	1.04	Pink	
110-115	3,100		0	
115-120	12,000		Red	
120-125	1,700	-	41	
125-130	14,000	-	Pink	
150-135	3,100	1.04	d d	
115-140	9,200		tī	
140-145	6,700	-	Red	
145-150	4,800	0.58	11	
150-155	1,900	-	Pink	
155-160	1,900		11	
160-165	2,000		11	
165-170	2,500		a	
170-179	1,100		n	ceour
175-180	4,500	-	Grey	Carbona Shale
180-185	15,000	0.65	11	Pyrite
185-190	2,100	- * - *	Brown	appears
190-195	16,000	-	D. Grey	evident
95-200	26,000		Red	throughout
200-205	5,200		D. Brown	Carbonated
205-210	9,200	• •	Red & D. Bro	
210-215	24,000	1.74	0	
215-220	29,000		n	Copper Sulphides
220-225	17,000		tt	also present
225-230	13,000		ŧį	below Carbonated
230-235	8,600	-	· H	band
235-240	7,800	0.55	11	(Chalcocite)
240-245	5,600	0.66	D. Grey	(Chalcopyrite)
245-250	4,400		<u>.</u> •	

LOG OF BOREHOLE No. 395/368

Area: ELSIE ADAIR

Dip: 900

Date: 10/10/70

Drilled by:

INVESTIGATION DRILLING PTY. LTD. (Percussion Drilling with 3" bit)

Depth	Cu,ppm	Cu (%)	Colour	Remarks
5- 10	17,000	-	L. Grey	
10- 15	4,500	0.93	White	
15- 20	6,500		L. Grey	
20- 25	1,400	-	(1	
25- 30	1,200		tt	
3 0- 35	3 60		ii .	
35- 40	170		White	
4 0- 45	110		u	
45- 50	120		Yellow	
50- 55	190		Pink	
55- 60	2,100		White	
60- 65	2,000		Creamy	
65- 70	1,500		11	
70- 75	2,500		Pink	
75- 80	4,600		Yellow	
80- 85	3,500		Pink	•
85- 90	1,900		White	
90- 95	1,000		Creamy	
95-100	- 580		Pink	
100-105	580		White	
105-110	700		11	
110-115	500		Pink	
115-120-	240		ti .	
120-125	240		L. Brown	
125-130	350		u	•
130-135	34 0		n .	
135-140	320		19	
140-145	2 60		Pink	
145-150	250		L. Pink	
150-155	200		Grey	
155-160	2 60		Black	
160-165	300		Sulphides	Carbonated
165-170	540		11	u .
170-175	7,000	n 60	ti	a .
175-180	6,800	0.69	n	O
180-185	3,900	_		U
185-190	1,500	_	D. Grey	Carbonated Shale
190-195	6,000	_o.6		a a graduated sustain
195-200	2,700	_	n '	n n #
200-205	1,500		n .	11 11 11 11 11 11 11 11 11 11 11 11 11
205-210	700		Brown	11 #
210-215	1,200		D. Grey	£1 II
215-220	360	•	ti	u u
220-225	280		tī	11 11
225-230	230		li .	n n
230-235	2,800		II ·	n u
235-240	1,400		t)	tt , 11
240-245	1,100		u	£) (†·
245-250	700		t)	Target depth 250' Wet no Samples

Pyrite appears evident throughout the Carbonated Zone

Area: TAPLEYS (ELSIE ADAIR)

Dip: 700 N

Date: 26/11/70

Depth	Depth Cu,ppm Cu(%) Colour		Remarks	
5- 10	3,000		L. Brown	Minor Malachite
1 0- 1 5	12,000		Pale Mauve	0 0
15- 20	20,000		White	.75 "
20- 25	16,000		Pale Mauve	.75
25- 30	12,600	,	V.L Brown	Minor "
30- 35	2,900		Pink	is to
35- 40	8,000	1.26	Pale Mauve	.25 H
40- 45	3 9,00 0	1.40	· II II	1.5%
45- 50	4,900		Off White	.35 "
50- 55	4,500		Pale Pink	.25 u
5 5- 60	5,000		Off White	.25 ^H
60- 65	14,000	=	V.L Brown	. 5
65- 70	5,000	0.48	Red Brown	Minor "
70- 75	4,500	0.40	Brown	H H
75- 80	600	•	Pinkish	Te "
80- 85	340		L. Brown	Te "
85- 90	1,400		10	
90- 95	2,000		Red	
95-100	2,800		Red Brown	Minor "
100-105	1,200		Red	Milot
105-110	430		Brown	
110-115	230		L. Brown	TR "
115-120	150		4	48
120-125	150			• ;
125-130	120	** **	L. Grey	
130-135	190	7.4	V.L. Brown	•
135-140	150		ii	
140-145	240		es	
145-150	200		Grey	
150-155	340		0	
155-160	240		R Brown	
1 60-1 65	35 0		Pinkish	Minor Malachite
165-170	890		B Grey	Carbonated Minor Oxides
170-175	3,400		Brown	darsonated hiner Cyldes
175-180	16,000	- 1.6	B Grey	Minor Sulph & Oxides
180-185	3,300		Dark Brown	minor buppin a Oxides
185-190	6,500	- 0.65	8 11	Minor Sulphides
190-195	2,900		B. Grey	Minor Pyritic Sulphides
195-200	2,000	•	u . 0.01	Minor Sulph & Oxides
200-205	1,600		11	.5% " " "
205-210	25,000		u .	5.7% Sulphides
210-215	6,200		u .	.75% "
215-220	49,000	2.18	ll .	1.5%
220-225	8,000	• •	V.D Brown	Minor Sulphides
225-230	21,000		B. Grey	.5% "
		••	n. dral	الراق و

LOG OF BOREHOLE No. 398/369

Area: TAPEEYS (ELSIE ADAIR)

Dip: 700 N

Date: 25/11/70

Depth	Cu, ppm	Cu (%)	Colour	Remarks
5- 10	510		Pink	
10- 15	450		Brown	
15- 20	410		18	
20- 25	350		#	
25- 30	4 60		Dark Brown	
30- 35	290		Red Brown	
3 5- 40	2 60		11 0 .	$_{i}$ = t
40- 45	460		Dark "	
45 - 5 0	490		Brown	· · ·
5 0→ 55	210		Red	1
55- 60	140		Pink	
60- 65	220		Brown	
65- 70	220		tt ,	
70- 75	150		Pink	
75- 80	160		Red Brown	•
80- 8 5	230		Yellow Brown	
85- 90	1 60		Red Brown	*** *** *** *** *** *** *** *** *** **
90- 95	300		H ' H .	•
95-100	300	÷	13 EI	
100-105	500		B II	
105-110	11,000	• • •	\$F FF	Tr Malachite
110-115	9,000	1.0	Red	Tr "
115-120	700	•	Pink	
120-125	600		H	• •
125-130	340		White	•
130-135	270		Pale Mauve	$(x_1, \dots, x_n) = (x_1, \dots, x_n)^{-1}$
135-140	400		Pink	4.1
140-145	3,90		ff N	
150-155	390 400		V.Pink	
155-160	590		V Pink	
160-165	620		Brown	•
165-170	800		L. Brown	Considerable Quartz
170-175	750		* #	•
175-180	650		ti	
180-185	520		ti	•
185-190	450		N N	•
190-195	590		Yellow Brown	
195-200	510		Creamy	

0123 LOG O

LOG OF BOREHOLE No. 396/372

Dip: 70° N

Date: 7/11/70

Drilled by:

Depth	Cu,ppm	Cu (%)	Colour	Remarks
5- 10	450		White	
10- 15	700		P. Yellow	
15- 20	380		Creamy	•
20- 25	340		. 4	•
25- 30	340			
3 0- 35	170		H	
35- 40	110		ti	
40- 45	90		Pinkish	
45- 50	55		White	
50 - 55	80	•	# .	
55 - 60	200		Creamy	
60- 65	1 60		White	·
65- 70	350		tt tt	Tr Oxide Copper
70- 75	220		ti	
75- 80	630		Pinkish	
80- 85	700		Ħ	•
85- 90	1,000		an and an analysis of	
90- 95	1,000		Creamy	Minor Oxide Copper
95-100	940		White	U (I II
100-105	510		n	
105-110	710		Pinkish	Tr " "
110-115	750		Creamy	" -
115-120	500			
120-125	530		Ħ	
125-130	500		u ·	
130-135	500		Н	
135-140	380		11	
140-145	290	9	n	
145-150	250		Pinkish	Copper Sulphides
150-155	350		L Grey	Throughout
155-160	560		L Brown	•
160-165	360		Grey	Carbonated
165-170	2,800		D Grey	Zone 160-235
170-175	7,000	_	H II	
175-180	4,400	0.57	er #	
180-185	2,900	•	, n n	
185-190	3,800		8 U	
190-195	2,700		8 N	
195-200	1,800		H H	
200-205	900		ti ti	
205-210	850		11 11	
210-215	350		ii 11	
215-220	1,300		11 II	
220-225	840		H B	
225-230	960		t) (1	•
230-235	2,200	•	n 11	

Area: TAPLEYS (ELSIE ADAIR) Dip: 70° N

Date: 27/11/70

Drilled by: INVESTIGATION DRILLING PTY. LTD. (Percussion Drilling with 3" bit)

Depth	Cu,ppm	Cu (%)	Colour	Remarks
5- 10	300		Light Brown	. *
/10- 15	1,000		Pink	
15- 20	700		Yellow Brown	
20- 25	16,000	-	Light Brown	Malachite
25- 30	3,900		11 .	ii .
30- 35	22,000	1.8	Creamy	H
35- 40	30,000	-	Pale Mauve	# · · · · · · · · · · · · · · · · · · ·
40- 45	1,000		H	#
45- 50	1,200		Creamy	0
50- 55	35,000	- , ,	White	H .
55- 60	7,000	2.6	Pale Pink	ii
60- 65	1,200		Yellow Brown)
65- 70	1,400		Pinkish	0
70- 75	20,000	₩	Pale Mauve	Malachite & Azurite
75- 80	15,000		Light Brown	n • \
80- 85	28,000			и
85- 90	7,500		Pale Mauve	# ¥
90- 95	25,000	1.82	Pink	. 00
95-100	36,000		Light Brown	0
100-105	14,000		Pink	, tr
105-110	9,200		Red	H ti
110-115	9,000	-	# .	. 11
115-120	4,900	- 0.49		. 0
120-125	3,000		11	d .
125-130	1,400		Brown	ti .
130-135	800	•	Mauve	ti ·
135-140	600		4	ti
140-145	530		Light Brown	
145-150	820		Dark Grey	
150-155	500		Dark Mauve	
155-160	720		Red Brown	
160-165	15,000	-	Black	Carbonated Shale Minor Sulphides
165-170	12,000	1.2	Blue Black	H H
170-175	11,000	1.6		44 44
175-180	9,800	-	u .	n 11
180-185	7,800	0.56	u	
185-190	3,500	• .	. 41	
190-195	1,300		u	Pyritic Sulphides .5%
195-200	1,000		Dark Grey	Winer Culphides
200-205	1,000		nary grea	Minor Sulphides Pyritic " .5%
205-210	2,800		er er	Pyritic " .5%
210-215	3,900		Black	Considerable Pyritic Sulph
215-220	1,000		BIGCK	omerante satisfic parbu
220-225	1,600		#	Considerable Sulphides
225-230	900		•	compressinte parbuides

Area: ELSIE ADAIR

Dip: 700 N

Date: 26/10/70

Drilled by:

Depth	Cu,ppm	Cu (%)		Colour	Remarks
5- 10	450			L. Brown	
10- 15	600			a a	
15- 20	550			ų.	• •
20- 25	720			tr i	•
25- 30	1,700			Brown	
3 0- 35	620			L. Brown	•
35− 40	420			L. Pink	
45 45	1,400			L. Brown	
45- 50	1,400			H	
5 0- 55	1,100			II	•
55 - 6 0	620			Y. Brown	
60- 65	1,100			L. Brown	
65- 70	1,300	•		Pink	
70- 75	1,300			u į	
75- 80	1,000			U	
80- 85	1,400			11	•
85- 90	14,200	1.04		L. Brown	
90- 95	6,500	1.04		10 1	
95-100	2,200	-		L. Pink	
100-105	2,200			L. Brown	•
105-110	7,200	1.61		Y. Brown	•
110-115	25,000			Creamy	•
115-120	3,000	-		Pink .	
120-125	5,600	0.56		L. Brown	
125-130	2,200	-		Pink	
130-135	1,800			Y. Brown	
135-140	2,700			Red	•
140-145	2,100			. a	•
145-150	2,400			R. Brown	
150-155	8,000	_		Red	**************************************
155-160	15,000			D ·	
160-165	11,500	1.0		Brown	
165-170	4,600			Pink	Only Minor Pyritic
170-175	11,100		•	Brown	Sulphides detected
175-180	2,800	-		R. Brown	180' - 210'
180-185	5,000	0.5		D. Grey	
185-190	4,300	-			
(a) 190 - 195	1,600	•	•	L. Brown	
(b) 190-195	4,500			Creamy	
195-200	3,700			L. Brown	
200-205	1,300			L. Grey	•
205-210	950			Red	•
210-215	740			D	
215-220	1,300			L. Brown	
220-225	600		•	L. Brown	.
225-230	630			O .	
230-235	800			Y. Brown	
235-240	700			4	
240-245	1,300	•			•
245-250	1,500			n,	
				<i>i</i>	

LOG OF BOREHOLE No. 399/372

Area: ELSIE ADAIR

Dip: 700 N

Date: 6-12-70

Drilled by:

INVESTIGATION DRILLING PTY. LTD. (Percussion Drilling with 3" bit)

Depth	Cu,ppm	Cu (%) Colour	Remarks
5- 10	250	White	No visible
10- 15	440	L. Brown	mineralisation
15- 20	600	R. Brown	u
20- 25	2,50	P. Mauve	n
25- 30	260	Ħ	11
30- 35	90	White	H
35- 40	190	Mauve	n ,
40- 45	700	L Brown	Ħ
45- 50	410	P. Mauve	n
50- 5 5	35 0	L. Brown	II.
5 5- 60	680	ŧi	n
60- 6 5	800	ii ii	a
65- 70	1,100	ŧi	
70- 75	1,200	P.Pink	n
75- 80	620	Pink	u
80- 8 5	900	1)	ii
85- 90	2,000	Brown	Я
90- 95	1,200	11	ti .
95-100	650	P. Pink	н
100-105	600	L. Brown	11
105-110	350	91	н
110-115	280	Y. Brown	ti
115-120	220	White	и.,
120-125	410	V.L. Pink	tt
125-130	520	Red	ti
130-135	780	#	11
135-140	720	D. Pink	H
140-145	240	L. Pink	n
145-150	150	н	n
150-155	2 60		
155-160	420	n	n
160-165	320	ti	II
165-170	320	Pink	H
170-175	380	L. Pink	н ,
175-180	280	Creamy	n
180-185	270	White	я
185-190	280	Creamy	ıı
190-195	290	U Canag	н
195-200	440	L. Brown	4f
200-205	350	a	11
205-210	680	11	n
210-215	260	п	ti
215-220	190	ft ft	н
240-225	200	n	•
225-230	190	P. Mauve	-
230-235	missing	L. Brown	

Wet conditions. Hole abandoned at 235 ft. 3" Hammer Bit.

LOG OF BOREHOLE No. 397/376

Area: ELSIE ADAIR

Dip: 900

Date: 5/11/70

Drilled by:

Depth	Cu,ppm	Cu (%) Cu (check) Colour	Remarks
5- 10	45		Creamy	
10- 15	50		L. Brown	
15- 20	60		Pinkish	
20- 25	10		Yellowish	
25- 30	10		11	
3 0- 35	10		ti .	
35 40	10		. 11	
4 0- 45	15	*	, 11 ,	
45- 50	10		. N	
50- 55	10	•		
55- 60	10		L. Brown	
60- 65	15	•	ti	$(x_1, \dots, x_{n-1}) \in \mathcal{C}_{n-1}$
65- 70	15		ti .	
70- 75	15		. 11	
75- 80	15		a	•
80- 85	15		H	
85- 90	15		n	4
90- 95	15			
95-100	20	,	. #1	
100-105	130		n	
105-110	15		Yellow Brown	•
110-115	35		11	
115-120	20		11	
120-125	15	50	U	
125-130	10	30	Brown	
130-135	10	29	8	
135-140	20	30	Grey	Sulphides Tr
140-145	20	45	11	
145-150	20	39	Blue Grey	
150-155	20	300	#	
155-160	20	30	n	Sulphides Tr
160-165	30	25		
165-170	30	30	n .	0
: 70-175	25	35	4	n v
175-180	50	35	Ħ	n '
180-185	50	50	#	i n
185-190	. 30	90	u u	U
190-195	70	45	H .	a
195-200	45		ti :	n
200-205	75	65	0	R ·
205-210	50	45	D. Grey	Samples takeb 5/11/70
210-215	- 60	80	n 0.201	Blocked Bit 10' came
220-225	70	60	D. Brown	ii
225-230	50	50	D. Grey	Sulphides
230-235	60	250	D.B. Grey	"
235-240	300	4 0	n .	n
240-245	250	170	. #	01.7
240 523	u JV	- 		Small recovery.

LOG OF BOREHOLE No. 398/376

Area: ELSIE ADAIR

Dip: 700 N

Date: 13/10/70

Drilled by:

Depth	Cu,ppm	Cu (%)	Ag , ल्ला	Colour	Remarks
5- 10	1,100			L. Brown	
10- 15	80			L. Pink	•
15- 20	310			15	
20- 25	3 90			15	
25 - 30	270			ti	
3 0- 35	200			11	•
35- 40	33 0			a	•
40- 45	1,500			Pink	
45- 50	1,100		•	Y. Pink	
5 0- 55	1,300			Yellow	
55- 60	600			L. Pink	
60- 65	1,300			n .	
65- 70	1,300			Y. Pink	
70- 75	1,900			41	
75- 80	570			H	
80- 85	310			11 .	
85- 90 <u>.</u>	180			. 9	Samples missing.
100-105	3천0	•		D. Grey	samples missing.
:05-110	370			ıı .	
110-115	270			u ·	Considerable
115-120	56 0			Blue Grey	Sulphides
120-125	6,000		2	4 4	ranging from 1.0% -
125-130	6,100		2	н н	7.0% between
130-135	6,100	0.63	فأ	n a	100' and 245'
135-140	6,500		4	D. Grey	200 Will #15
140-145	7,100		2	Blue Grey	
145-150	9,800	*	ટ	Brown	(Chalcocite and
150-155	13,000		2	11	Chalcopyrites)
i 55-1 60	11,000)	Blue Grey	
160-165	18,000		45	Brown	
165-170	40,000	3 4		Blue Grey	•
170-175	31,000	2.4	Ċ,	ม คื	
175-180	25,000		. 2	61 M	
180-185	11,000		2	41 13	
185-190	73,000		2	11 0	i
190-195	11,000		2	IF IF	
و 95–200	3,200	-	Ĝ	u a	
200-205	2,800		. 3	· 15 B	
205-210	7,200	 	Ğ	H . H	
210-215	7,100	0.71		n n	
2:5-220	12,000	• '	Ġ	D. Grey	
220-225	15,000	1		L. Brown	
225-230	26,000	1.57	Λ	Brown	Considerable Copper
250-235	10,000		1.31	Orange Brown	Sulphides (Chalcocite
25-240	8,000	•		Yellow Brown	5-7% (Covellites)
240-245	11,000	_	X	L. Brown	n u

LOG OF BOREHOLE No. 399/376

Area: TAPLEYS (ELSIE ADAIR)

Dip: 60° N

Date: 25/11/70

Depth	Cu,ppm	Cu (%)	Colour	Ŗ	emarks
5- 10	240		Yellow Brown		
10- 15	3 50		H H		
15- 20	900		R Brown		
20- 25	990		Brown		
25- 30	1,400		Pink	Tr Mal	achite.
3 0- 35	1,400		Brown	Tr	Ħ
35- 40	2,000		Pink	Tr	Ħ
40- 45	900		Brown		
45- 50	250		Pink		
5 0- 55	320		Red Brown		
55- 60	150		Yellow Brown		
60- 65	130		Pink		
65- 70	160		. 11		
70- 75	160		Yellow Brown		
75- 80	150		Brown		
80- 85	180		tt .	Tr Mal	achite
85- 90	150		Pink		
90- 95	190		Red		
95-100	350		**		
100-105	490		Red Brown		
105-110	340		" H H		
110-115	2 60		Red		
115-120	270		Dark Pink		
120-125	200		Pale Mauve		
125-130	250		Pink		
130-135	350		Light Brown		
135-140	33 0		H H		
140-145	210		Red Brown		
145-150	130		Yellow Brown		
50-155	90	į	Yellow		
155-160	110		ti	Quartz	chips
160-165	120		Yellow Brown		
165-170	3 60		i) 11		
170-175	600		Yellow		
175-180	1,600			Tr Mal	
180-185	2,400		Yellow Brown	Tr	#
185-190	/ 1,900		Light Brown	Minor	ti
1 90- 195	1,400		Pale Yellow	ts	D
195-200	700		Light Brown	n	B
200-205	430		Creamy	Tr	n
205-210	410	,	Ħ		
210-215	330		Light Brown		
215-220	310		Yellowish	Tr	Ð
220-225	270		Creamy		
25-230	250		a	Tr	It

LOG OF BOREHOLE No. 399/376

Area: ELSIE ADAIR

Dip: 900

Date: 3/4-12-70

Drilled by:

Depth	Cu,ppm Cu(%)		Colour	Remarks
5- 10	2 60		L. Brown	5½ Button Bit
10- 15	330		11	(Hammer)
15- 20	680		11	
20- 25	510		White	No
25- 30	650		ti .	
30- 35	1,600		U 	Visible
35- 40	1,900		ti ti	
40- 45	600	•		Copper
45- 50	280		L. Brown	5' - 110'
50 - 55	310			
55- 60	250		n	
60- 65	240		Brown	
65 - 70	230		White	
70 - 75	280		11	
75- 80 80- 85	200		Mauve	
85- 90	200			
90 - 95	230 210		L. Brown	
95 -1 00	250		L. Grey	Carbonated <u>Shale</u>
100-105	30 0		11	
105-110	240			
110-115	300		Grey	ma culubia
115-120	4,600	-	Blue Grey	Tr Sulphides
120-125	5,600		n n	Minor Sulphides
125-130	7,800		tt tr	11 11
130-135	4,800		. 11 41	1.0% Chalcocite
135-140	8,500		u n	Minor Sulphides
140-145	3 ,800		11 15	11 11 11 11 11 11 11 11 11 11 11 11 11
145-150	5,800	0.55	Grey	.5% "
150-155	5,000		Brown	Minor "
155-160	4,600		Blue Grey	11 11
160-165	3,500		a u	Tr "
165-170	5,300		11 11	Tr "
170-175	7,000			Core 170' - 175'
175-180	5 ,600		Blue Grey	Minor Sulphides
180-185	3 ,800	_	11 11	11 11
185-190	3,200		11 11	H 11
190-195	1,900		lt 11	; # B
195-200A	1,300		Core	195' - 200'
195-200B	1,600			Bi
200-205	1,100		Blue Grey	Contaminated, Roller,
205-210	900		11 11	Minor Sulphides
210-215	380		• "	# II
215-220	280			H H
220-225	160		Dark Brown	# #
225-230	250		Dark Brown	Minor Sulphides
230-235	220			u s
235-240 240-245	180		 U U	
245-250	140 140		Black	u u
250-255	140		Brack	.5% "
255 - 260	160		Y. Brown	Minor "
260-265	27,000	-	1. BLOWN	WINOT "
265-270	5,600	1.63	Y.R. Brown	11 11
270 - 275	400	-	Y. Brown	Tr "
275-280	500		ii Brown	Tr "
280-285	190		u .	Tr "
285-290	160		11	Tr "

	Depth	Cu,ppm	Cu (%)	Colour		Remarks	
Cont.	285-290					***************************************	
	290-295	150		Y. Brown			
	295-300	210		Yellow	Tr	Sulphides	3
	300-305	130		Y. Brown	Minor		
	205-310	3,500		Brown	Consider	able Pyri	ic Si
	310-315	3,000		D. Grey	ti) II	phide
	315-320	8,500	- 0.03	Black	12	ti	0
	32 0- 325	8,000	0.82	D. Brown	ti	9	11
	325-330	2,800	-	D. Brown	n	41	£9
	330-335	300		L. Brown	n	U	13
	335-340	600		0	Tillite	Chips Tr S	in I nh
	34 0- 345	700		u i	11	0.00	O TOTAL
	345-350	850	•	11	11	ti ti	11
	350-355	900		n	n	13 e	11
	355-360	1,000		II .	11	" Minor	12
	3 60- 3 6 5	1,100		ŧi	Conto	minated	
	365-370	1,600		. u Noc			401
	3 70- 3 7 5	600		n Nec		o case 0-3	ΨO.
	3 75- 380	400			Cavin	_	
	3 80- 3 8 5	29 0			Tr	Sulphide	8
	385 - 390			L. Yellow	Tr	u u	
	3 90- 395	140			Tr	**	
		600					
	395-000	1,300		L. Brown	_		
	400-405	35 0			Tr	Sulphide	13
	405-410	440					
	410-415	100		L. Yellow	_		
	415-420	320		Pinkish		Siltstone	
	420-425	300		L. Brown	ti	13	
	425-430	120		ŧI	tt	. 11	
	430- 435	220		Pinkish	ŧı	ti	
	435-440	200		n	er	ri .	
	440-465	300		White	n	11	
	445-450	250		L. Brown	Some Til	lite Chips	
	450-455	450		Pinkish	ti i	11 11	
	455-460	3 80		L. Brown			
	460-465	240		* ti	Quart	z Chips	
	465− 4 7 0	250		Redish	Minor	Tillite	
	470-475	200		Pink	Tr	Sulphide	S
	475-480	160		" Min	or Shale	Tr Sulphi	
	480-48 5	380		t) A	Ħ	u u	ite
	485-490	290		" V. Har	d Some Qu	artz Cons	
	4 90- 495	50		L. Brown	Tr	Sulphide	
•	495-500	40		L. Brown	Tr	- n	
						tton Bit	
					43" Ro	oller " 3	65-50

LOG OF BOREHOLE No. 402/376

Area: ELSIE ADAIR

Dip: 700 N

Date: 12/10/70

Drilled by:

Depth	Cu , ppm	Cu (%)	Colour	Remarks
5- 10	5,200		Mite	
10- 15	8,000	0.78%	Pink	1
15- 20	14,000	0.76%	Light Pink	,
20- 25	4,100		B -	
25- 30	2,600		. 40	•
3 0- 35	800		Ŋ	
15- 40	2,600		White)	Possible .5 $\%$
40 - 45	2,400		Light Pink)	
45 ~ 50	4,200		(Thite)	•
5 0- 55	500	·	Light Brown	•
55 - 60	560		Red Brown	•
60- 65	500		ū	
65- 70	7 50	:	11	
70- 7 5	120		White	
75- 80	50		1)	
80- 85	65		. #	**
85- 90	55		Pinkish	
90- 95	100		Pink	
95-100	390		Red	
100-105	390		Pink	
105-110	3 60		Yellowish	
110-115	430		Light Brown	
115-120	350		Yellowish	
120-125	450		Brown	. 3
125-130	480		u .	
130-135	380	٠.	· u	
135-140	1,900		Ü	Possible Contamina-
140-145	200			tion
145-150	2,000		11	14/10/70
150-155	850		Yollow	
155-160	580		u'	
160-165	430		9 1	
165-170	220		u ,	
170-175	230		. U	•.
175-180 Cu?			. 8	, S
	03 220		; en	
185-190 0.	02 160		, P	
190-195 0.			Pinkish	•
195-200			Yellowish	

LOG OF BOREHOLE No. 397/380

Area: ELSIE ADAIR

Dip: 90°

Date: 6/11/70

Drilled by:

Depth	cu,ppm	Cu (%)	Colour	Remarks
5- 10	100		Yellow Brown	
10- 15	25			
15- 20	15			
20- 25	15		Ħ	•
25- 30	15		0	
30~ 35	15		n	•
35- 40	25		u	
40- 45	20		0 .	
45- 50	15		u	•
50- 55	15		H	
55- 60	. 35		Ħ	
60- 65	35		ti .	•
65- 70	35		1ì	
70- 75	35			
75- 80	100		U U	
80- 85	70		L. Grey	
85- 90	30		U .	
90- 95	25		Grey	
95-100	40		Ħ	
100-105	25		Yellow Brown	,
105-110	15		H	
110-115	10			
115-120	30			
120-125	35		B. Grey	
125-130	30		#1	
130-135	20		L. Brown	
135-140	30		-	
140-145	25		Grey "	
145-150 150-155	35 30			
155-160	30 50			
160-165	50		B. Grey	
165-170	3 5 55			
170-175	30		Duarra	
175-180	70		Brown	
180-185	45		11	Sulphides throughout
185-190	45		ti .	Carbonated Zone
190-195	3 5		B. Grey	Approx. 130'-225'
195-200	65		n. greå	Sulphides continue
200-205	60		и	beyond 225 ft.
205-210	70		ii .	vertical
210-215	70		· a	
215-220	65		H	
220-225	55		. n	

LOG OF BOREHOLE No. 398/380

Area: ELSIE ADAIR

Dip: 700 N

Date: 25/26-10-70

Drilled by:

Depth	Cu,ppm	Cu (%)		Colour	Remarks
5- 10	45			L. Brown	
10- 15	40			u	
15- 20	30			ti	
20- 25	30	•		H ·	
25- 30	30			69	
3 0- 35	25			ų u	
35 - 4 0	20			Ħ	
4 0- 45	25			H .	
45- 50	15			O C	
5 0- 55	15			Pinkish	4
55- 60	20			Y. Brown	•
60- 65	30			Creamy	
65- 70	25	•		đ	a a
70- 75	35			L. Brown	•
75- 80	45			Creamy	
80- 85	30			W	2
85- 90	45			0	• · · · · · · · · · · · · · · · · · · ·
90- 95	50			ti	·
95-100	50			11	,
100-105	40			L. Brown	
105-110	40			#	
110-115	40			ŧı	
115-120	50			Grey	
120-125	70	* •		Brown	
125-130	45			D. Grey	
130-135	40			"	Pyritic
135-140	340	•		B. Grey	Sulphides
140-145	370			D.B. Grey	1)
145-150	500			11	a
150-155	100			a .	e e e e e e e e e e e e e e e e e e e
155-160	75.			' II	li .
160-165	65			9.	e
165-170	100				, II
170-175	70		4.	O	ti
175-180	2,200			. 0	t
180-185	2,600			D. Brown	n
185-190	7,700	_		D.B. Grey	B .
190-195	14,800	1.5		0	a
195-200	22,800			D. Brown	n
200-205	3,500	-		M. Brown	a .
205-210	1,400			Red	" Tr
210-215	650			D. Pink	" Tr
215-220	640			1)	•
220-225	700			. 10	" Tr
225-230	22,000	-		D. Brown	Sulphides Tr
230-235	23,800		+ 1	D.B. Grey	" Chalcocite
235-240	25,300			H	tt i tt
240-245	22,300	2.07			и , и ,
245-250	18,500			ti	" Minor
250-255	16,500			II .	н .

Area: ELSIE ADAIR <u>Dip:</u> 90°

Date 12-12-70

Drilled by: BOREING ENTERPRISES

<u>Dopth</u>	Cu,ppm (Cu%)	Colour	Remarks
5- 10	35	Yellow	e di Maria de Paris de Maria de Caracteria de Maria de Caracteria de La como como como como de Caracteria de C
10- 15	20	ti	N o
15- 20	20	tt-	
20- 25	25	tl .	visibl
25- 30	20	a i	•
30- 35	20	H .	c o pper
35- 40	25	II	- -
40- 45	80	L. Brown	
45- 50	.110	0	
50- 55	110	L. Pink	
55 → 60	300	Creamy	
60- 65	680	Y. Brown	
65- 70	7 80	Yellow	
70- 75	60	Yellow	•
75- 80	35	tt ·	
80- 85	35	n	
85- 90	35	L. Brown	•
90- 95	35	Y. Brown	Some black shale
95-100	30	a	H
100-105	35	e r	Some Limonite
105-110	50	Pink	Ú
110-115	60	ti e	
115-120	130	Creamy	Some brown shale
120-125	110	Yellowish	Dam wayiri Ditang
125-130	160	Brown	· .
130-135	190	B. Gray	Pyritic supphides
135-140	180	<u> </u>	4
140-145	100	O ·	ų.
145-150	6 5	p	8
150-155	60	u	ri 🗎
155-160	65	u	a
169-165	90	4	u ·
165-170	60	e .	0
70-175	40	i)	a
75-180	45	a	n
180-185	50	el .	Minor "
185-190	30		u .
B90-195	65	ŧi	a .
95-200	60	11	Minor "
200-205	60	- ù	1% "
205-210	65	ù	Minor "
10-215	3 7 0	U	0
15-220	110	ii ii	Minor "
20-225	85	ú	Considerable "
25-230	85	B. Grey	Con. pyritic supphides
30-235	120	ė .	11
35-240	Missing	Ù	Minor pyritic supphides
40-245	110	4	5% "
45-250	300	Ü	Minor "
50-255	430	Ħ	5% "
55-260	100	ú	5% "
60-265	80	ń	Minor "
65-270	190	à	
70-275	120	9	

prodiction of the second	and the state of t	and a fellower little is second to the property of the second	
Depth	Cu, ppm (Cus)	Colour	Remarks
275-280	150	B. Grey	Consid. pyritic supphides
280 1 235	150		Minor "
185-190	60	tt	0
290-295		0	ti
295-300	70		ti
300-305	1900	a	11
305-310	10000 }	40	₩
310-315	10000)	į.	ĥ ·
315-320	480	R. Brown	u
320-325	220	Pink	Minor native copper
325-330	550	Mauve Brown	Native Copper
33 0~ 33 5	260	B	Minor "
335-340	570	ů.	ti .
340345	570	ò	ti
345-350	180	L. Brown	Core
350-355	310	Contaminated	due to casing
355-360	70	mauve & Brow	m
360~365	190	#	
3 65~370	220	L. Brown	
3 70- 3 7 5	190	a .	,
375-380	310	ü	
380-385	440	ù	
385-390	690	Mauve	
390-395	1300	L. Erown	Quartz Malachite
395-4005	60 560	ti	. "
400-405	820	Pale Pink	Much Linionite
405-410	410	ű	
410-415	1100	L. Brown	Some Limionite Quartz & Ma
415-420	1100	Pink Gritty	" & Malachite
420-425	760	u .	. ● (1)
425-430	950	White & Mauv	eMinor Malachite
4306435	270	L. Brown	
435-440	280	H	
440-445	260	*	
445-450	360	Pink	Minor tillite
450-455	320	L. Brown	
455-460	300	tr	Some pink
460 \$ 465	350	á	Some Limionite
465-470	240	ģ.	
470-475	100	U.	
175-480	160	ú	$\mathbf{u} \sim \mathbf{y}_{i_1,\dots,i_{r-1}}$
480-485	170	ít	A contract of the contract of
485-490	85	Ü	Minor shale
490-495	220	Pink	
495-500	190	L. Brown	Minor tillite

Area: ELSIE ADAIR Dip: 70°N Date: 17-12-70

Drilled by: INVESTIGATION DRILLING PTY. LTD.

Depth	cu'ppm (Cuগ্র)	Colour	Remarks
5-10	5	L. Brown	
10-15	10	U	
15-20	10	a	
20-25	10	II .	
25-30	10	ti	
30-35	10	" (Y)	
3 50-40	10	19	
40-45	10	n	N o
45-50	15	ti	visible
50-55	20	H	copper
55-60	15	L. Brown	
60-65	20	Y. Brown	
65-70	30	Pinkish	
70-7 5	35	Y. Brown	
75-80	35	P	Malachite
80-85	30	19	************
85-90	50	9	
90-95	50	Orange	
95-100	700	L. Brown	
100-105	9 00	Grey	Sulphides
105-110	2300	B. Grey	Minor sulphides
110-115	2400	ii	a name name name
115-120	3300	u	at .
120-125	3400	ti	No visible copper
125-130	3000	n	"
130-135	3100	u	
135-140	2900	ri	
140-145	3600	H	#
45-150	4200	61	# #
150-155	7500)	ta .	Ó
55-160	35000)	4	#
60-165	15000) 1.89	M	n
65-170	18000)	Brown	No visible copper
70-175	3900	" (Y)	II .
75-180	1500	n	Ø
80-185	1400	ម	a .
85-190	1100	·tt	
90-195	1100	ti	o .
95-200	700	L. Brown	II .
00-205	450	Y. Brown	ti
05-210	500	ŧı	ii
10-215	520	t)	u
15-220	560	EF:	11
20-225	560	ti	ti
25-230	550	Y. Brown	ti
30-235	550	e s	ti
35240	550	ti	
40-245	540	q	n
45-250	810		

Area: ELSIE ADAIR

Dip: 70°N

Date: 18-12-70

Drilled by: INVESTIGATION DRILLING PTY. LTD.

Depth	Cu'	ppm (Cu5)	Colour	Remarks
5- 10	20		L. Brown	•
10- 15	20		*	
15- 20	20		ti	
20- 25	25		ET .	
25- 30	130		u .	
30- 35	50		. 0	
35- 40	90		II .	
40- 45	170		B .	
45- 50	20		M. Brown	•
50- 55	30		u	
55- 60	35		u	N o
60- 65	30		8	visible
65- 70	40		u	mineral-
70- 75	40		u	isation
75- 80	25		L. Grey	rsation
80- 85	20		MrBrown	
85- 801			Brown	
90- 95	30		B. Grey	
95-100	150		e Grey	
100-105	80		#	
105-110	50		Ħ	
110-115	50		e	
555-120	40		u	
120-125	40		Ð	
125-130	40		1r	
130-135	40		tı	
135-140	40		a)	
140-145	30		()	Minor sulphides
145-150	120		O .	rinor authordes
150-155	70		U	
155-160	5200	0.52	II .	
160-165	490	V.,,	L. Grey	
165-170	220		Pale Mauve	
170-175	2000		n reto Monda	
135-180	11000	1.1	Mauve	
180-185	900	••-	11	
185-190	490		Y. Brown	
190-195	230		0	No visible mineralisation
195-200	250		ti	no visible infleralisation
200-205	270		ŧı	
204-210	250		ÇI .	
210-215	290		0	
215-220	180		ti	
220-225	180		n	
25-230	380		Off Brown	
30-235	750		0	
35-240	330		L.Y. Brown	
40-245	540		n Tore Drown	
45-250	750		ti	
. ZJ-630	150			

LOG OF BOREHOLE No. 400/384

Area: ELSIE ADAIR

Dip: 700 N

Date: 3/11/70

Drilled by:

Depth	Cu,ppm	Cu (%)	Colour	Remarks
5- 10	25		L. Brown	
ù0- 1 5	20		O	
15- 20	20		Brown	
20- 25	20		n .	••
25- 30	20		L. Brown	
30- 35	30		Yellow	
35- 40	30		Brown	
40- 45	65		Pink	
45- 50	70		Brown	
50- 55	40		R. Brown	
55- 60	45		Brown	
60- 65	40		Grey	,
65- 70	50		D. Grey	
70- 75	85		11	
75- 80	50			
80- 85	80		ff	
95- 90	70		A	
90- 95	80	•	n	Culmbide Me
95-100	85		11	Sulphide Tr
100-105	1,400		. 13	
105-110	1,900		er -	Pyrite
110-115	1,200		11	_
115-120	500		- 11	Possible Chalcopyrit
120-125	520		a	
125-130	480		a	0-11 D /3
130-135	920		11	Small Recovery (damp
135-140	1,300			Deminia de delabida
140-145			ni	Pyritic Sulphides
145-150	2,300		11	Chalcocite possible
150-155	3,400 9,000	-		n
155-160	18,000	1.35	. 10	
160-165	1,600	•		
165-170	900		Brown	
170-175	450		Red	
175-180				
180-185	900 700		R. Brown	
185-190		*	Y. Brown	
190-195	500 320		"	
195-200	220			•
200-205	310		Red	•
205-210	460			
			Y. Brown	•
210-215 215-220	400		Yellish	
220-225	480		L. Brown	
	320		L. Pink	
225-230	490		Pink	
230-235	900		u	
235-240	1,000		11	
240-245	1,000		**	

LOG OF BOREHOLE No. 400/388

Aroa: Blsie Adair

Dip: 70° N

Date: 2/11/70

Drilled by:

Depth	Cu,ppm	Cu (%)	Colour	Remarks
5- 10	110		Light Brown	
10- 15	80		u n	
15- 20	80		11 11	
20- 25	40		n u	
2 5- 3 0	. 20		Creamy	
3 0- 35	20		tt	•
35 - 40	30		Light Brown	
40- 45	30		White	1
45- 50	150		Pink	
50- 55	140		Light Brown	
55 - 60	140		Yellowish	
60- 65	380		L. Brown	
65- 70	320		M. Brown	
70- 75	100		Pinkish	
75- 80	280			
80 - 85	340		Grey	
85 - 9 0	440		D. Grey	Tr
90- 95	260			•
95-100	200		M. Brown	
100-105 105-110	140		L. Grey	
110-115	160 9,000	-	D. Grey	Culubidas
115-120	10,800	1.0	D.B. Grey	Sulphides
120-125	720	***	R. Brown	Tr
125-130	900		D.Y. Brown	Tr
130-135	3 40		D. Pink	· ##
135-140	340		H LTIN	
140-145	480		Y. Brown	Tr
145-150	400		Brown	
150-155	340		Pinkish	
155-160	180		L. Brown	
160-165	2 60		Pinkish	
165-170	140		L. Brown	
170-175	280		Pink	•
175-180	32 0	•	n	
180-185	280		L. Brown	•
185-190	340		ti .	
190-195	150		Creamy	
195-200	320		Brown	
200-205	320	_	Pink	
205-210	240		0	
210-215	480		L. Brown	
215-220	480		11	
220-225	480		10	
225-230	500		## ##	
23 0- 235 235 - 240	480 330		" "	
	330 320		н .	
240-245				

Area: ELSIE ADAIR

Dip: 70°N

Date: 18-12-70

Drilled by: INVESTIGATION DRILLING PTY. LTD.

		# - ~ **	- 1	
Depth	Cu'ppm	(<u>Cu%</u>)	Colour	Remarks
5- 10	80		Off White	
10- 15	60		11	
15- 20	100		White	
20-25	210		ti .	
25- 30	140		ii	
3 0- 35	180		ŧ	
35- 40	150		li .	
40- 45	210		Off White	
45- 50	3 50		II .	
50- 55	290		White	
55 - 60	200		Off white	N o
60- 65	210		White	evidence
65- 70	100		45	of
0 0- 75	90		Off White	mineral-
75- 80	100		ıi	isation
80- 85	190		U	through-
85 - 9 0	140		Mauve	out
90- 95	90		Off White	o u c
95- 100	120		Creamy Brown	
100-105	210		Dark Creamy	
105-110	140		L. Brown	
110-115	60		Mauve	
115-120	250		Creamy Brown	
120-125	180		L. Brown	
125-130	160		H	
130-135	250		tı	
135-140	3 30		ú	
140-145	310		ŧi	
145-150	280		n	
150-155	150		Off White	
155-160	\$60	15.4 A.	Creamy Brown	
160-165	180		11	
165-170	190			
170-175	150		Mauve Brown	
175-180	110		Off White	
180-185	310		L. Brown	
185-190	480			
190-195	370		L. Brown	
195-200	380		u	
200-205	430		0	
205-210	380		D.	
210-215	290			
215-220	210		Creamy	
220-225	210			
225 - 230 230 - 235	180 190		Creamy	
235-240	260		u u	
435-440	4 0 0			

LOG OF BOREHOLE No. 400/396

Area: BOOLOOROO Dip: 70°

<u>Date</u>: 18-12-70

Drilled by INVESTIGATION DRILLING PTY, LTD.

Depth	Cu'ppm (Cu%)	Colour	Remarks
5- 10	60	Off White	
10- 15	90	OLL MULTE	٥
15- 20	55	ti d	
20- 25	60	u	
25- 30	40	White	
30 - 35	40	MUTER	
35 - 40	30	u u	
40- 45	20	a ·	
45- 50	20	Off White	
50- 55	20	OLI MULCO	Ma
55 - 60	30	u	No Visible
60 - 65	30	ŧ	_
65- 70	40	o ·	Copper
70- 75	45	u	
75- 80	60	L. Brown	
80 - 85	45	L. Mauve	
85- 904	60	L. Brown	
90- 95	60	0 DIOWII	
95-100	90	Y. Brown	
100-105	70	L. Brown	
105-110	50	L. Mauve	
110-115	230	Grey	
115-120	150	B. Grey	
120-125	150	0	
125-130	490	ti	Sulphides
130-135	3600	#	n and stands
135-140	1900	0	Minor "
140-145	220	ij	0
145-150	4200	t)	si .
150-155	1 60	ti .	No visible copper
155-160	170	R. Brown	H
160-165	70	L. Brown/Grey	? ⁴¹
165-170	70	Brown	, to
170-175	70 ·	L. Grey	#
175-180	50	Off White	Ü
180-185	50	L. Brown	
185-190	45	V.L. Brown	
190-195	40	Off White	
195-200	140	L. Brown	
200-205	130	Yellow	
205-210	140	11	
210-215	110	U .	
215-220	190	u n	
220-225	140	ti 19	
225-230	250		
230-235	Missing		
235-240	Missing	.•	

0143 LOG OF BOREHOLE No. 443/404

Area: TAPLEY

Dip 90°

Date: 31-1-71

Drilled by:

BORING ENTERPRISES.

Depth	Cu,ppm	Cu (%)	Colour	Remarks	
5- 10	130		Pale Mauve		
10- 15	190		V.L. Brown		
15- 20	270		P. Mauve	•	
20- 25	430		V.L. Brown		
25- 30	540		0	Tr Malachite	
30 35	290		#		
35- 40	360		u		
4 0- 45	380		6		
₹5- 50	310		I\$		
50- 55	34 0				
555- 69	2 ∉ 0		P.Y. Brown	•	•
60- 6 5	420		V.L. Brown		
6 5- 70	700		L. Brown		1
70- 75	3 6 0		Creamy		
75- 80	270		H		
80- 85	200		a	·	1 .
85- 90	430		L. Y. Brown		h .
90- 95	3 60		W.Brown		1
95-100	1,500		L. Brown		Å
100-105	900		V. Brown		ή
105-110	680		0		1
110-115	1,100		Off White	Tr Malachite	11
115-120	700		ti .	n	6 1
120-125	800	•	Creamy	H	1.
125-130	500		*		11
130-135	700				
135-140	35 0		H		
140-145	210		11		
145-150	150		ıı		1.
150-155	140		Off White		//
155-160	270		Creamy		1/2
160-165	110		0		i. -
165-170	120		ii		
170-175	250		n		J
175-180	310		L. Brown	Minor Limonite	ļ.
180-185	260		Off White		
185-190	2 7 0		Creamy	,	
190-195	150		tt		
195-200	80		ta .		į.
200-205	80		ti		
205-210	50		Off White	•	
210-215	90		Creamy		
215-220	70		Ħ	Minor Limonite	
220-205	80		u		
225-230	290		L. Brown	Minor Limonite	
230-235	80	*	Creamy		
235-240	100		L. Yellow		'
240-245	80	4	Mauve		
245 -2 50	100		Y. Brown		
25 0-25 5	90		U		
255 -26 0	100		u.		
260-26 5	150		L. Brown		
65-270	90		Yellow & Maur	ve No visible	
2 76-27 5	45		P.Y. Brown	mineralisatio	n
75-280	30				
80-285	50		11	•	•
285-290	40	•	H		
2 90- 295	40		L. Pink		

LOG OF BO	rehole no.	443/404	Dip 900	Date: 31-1-71
Depth	Cu,ppm	Cu (%)	Colour	Remarks
295-300	60		Pink & Brov	vn
300-305	40		L. Brown	TILLITE
305-310	25		Ħ	ø
510-315	30		n	n
315-320	40		Ħ	Some Limbnite
320-325	25		n	11 91
325-330	30		11	H 1)
330-335	60		t)	8 11
33- 10	20		Off White	
340-345	40		. #	No visible
345-350	3 0		41	mineralisation
350-355	25		n	
355-360	90		ti	
360-365	200		Ħ	
365-370	70		Creamy	
370-375	220		Ħ	
3 75-380	210		Ħ	
380=385	100	•	a .	
385-390	120		#	•
390-395	30			and the second second
395-400	100		Ħ	Hole abandoned at 400ft 6" Button Bit through- out.

LOG OF BOREHOLE No. 416/504

Area: DIAMOND JUBILEE

Dip: 700 S

Date:

Drilled by:

Depth	Cu,ppm	Cu (%)	Colour	Remarks
5-10	20			
10- 15	3 0			
15- 20	15			
20- 25	25			•
25- 30	85			
3 0- 35	10			
35- 40	10			
40- 45	10			
45- 50	45			
50- 55	15			
55- 60	30			
60- 65	100			
65- 70	20			
70 - 75	30			
75- 80	20			
80- 85	15			
85- 90	10			
90- 95	15		•	
95-100	120			
100-105	180			
105-110	40			
110-115	40			
115-120	400			
120-125	40			
125-130	20			
130-135	70			
135-140	20		•	
140-145	30			
145-150	20			
150-155	10			
155-160	50			
160-165	15			
165-170	2,400			
170-175	150			
175-180	120	•		
180-185	40			
185-190	110			
190-195	80			
195-200	70			
200-205	40			
205-210	80			
210-215	25			
215-220	25			
220-225	20			
225-230	30			
230-235	40			
235-240	20			
240-245	20			

0146

LOG OF BOREHOLE No. 414/508

Area: DIAMOND JUBILEE

Dip: 700 S

Date: 5/12/70

Drilled by:

Depth	Cu,ppm	Cu (%)	Colour	Remarks
5- 10	50		Yellow Brown	
10- 15	20		# 11	
15- 20	25		11 11	
20- 25	60		et 19	
25- 30	20		11 11	
3 0- 35	35		# 41	
3 5- 40	60		ti ti	
40- 45	30		11 11	No Visible
45- 50	15			
50- 55	20			Copper
55- 60	20			
60~ 6 5	20		t) ti	5' - 125'
65- 70	25		n n	•
70- 75	60		u n	
75- 80	35		ıı n	
80- 85	70		11 11	
85- 90	180		H U	
90- 95	30		11 11	
95-100	60		ii 11	
100-105	50		11 H	
105-110	3 5		u n	
110-115	20		H H	
115-120	20		Light Brown	
120-125	50		i n	
125-230	30		Grey	Considerable Pyrite
130-135	45		n ⁻	Sulphides throughou
135-140	3 70		H	125' - 235'
140-145	260		H	
145-150	- 50		19	
150-155	500		tt	
155-160	40		n	
160-165	40		a)	Listed depth 250'
165-170	40		ei .	_
170-175	100		Ħ	Hole stopped due to
175-180	95		Ħ	no return after 235
180-185	80		u	
185-190	160		tt	
190-195	160		n	
195-200	140		u	
200-205	95		a	
205-210	140		II .	
210-215	150	1	61	
215-220	120		It	
220-225	75		Ħ	
225-230	150		a	
230-235	120		li .	

Area: DIAMOND JUBILEE

Dip: 600 S

Date: 29/30-11-70

Drilled by:

Depth	Cu,ppm	Cu (%)	Colour	R	emark	3	-
5- 10	160		Light Brown				
10- 15	50		u n				
15- 20	10		Yellowish				
20- 25	15		н				
2 5- 3 0	50		Light Brown				
30- 35	20		Yellowish				
3 5- 40	30		Yellow				
40- 45	50		11	Minor	Malac	ite	
45 - 50	20		Brown	Tr Mal			ur
5 0- 55	10		ti	Tr	H		te
55- 60	15		Ħ	Tr	n		
60- 65	20		ti				
65- 70	15		Yellowish				
70- 75	25		Light Brown				
75- 80	50		Yellowish				
80- 85	30		V.L. Brown				
85- 90	65		Grey				
90- 95	180		0.03				
95-100	20		L. Brown				
100-105	50		0	Tr Mal	achite	,	
105-110	40	•	Yellowish	Tr Sul			
110-115	30		Grey	Minor	-		Cu
115-120	15		Dark Grey	Tr Mal			Çu
120-125	15		Brown	1.0% P			'n.
125-130	40		0	.5%	1		***
130-135	25		Blue Slates	Minor	ts	n	
135-140	40		Grey "	11	Ħ	tt	
140-145	340		# II	Consid	erable	Sulp	h.
145-150	2 60		Blue	n		G.	
150-155	50		0 0	11			
155-160	450		u a	19		14	
160-165	50		ti ti	#		u	
165-170	40		n u	Minor	Sulphi	des	
170-175	40		8 11	1)	0		
175-180	400		n u	11	ŧ		
180-185	1,000		8 8	.5%	ŧ		
185-190	550		0 0	.5%	H		
190-195	450		ti ti	Minor	n		
195-200	2.60		11 11	#	13		
200-205	300		n n	93	13	~	
205-210	170		n n	Very c	lear O	uartz	hir /
210-215	350	;	11 11	n n	11	0	,
215-220	220		u u	11	n	13	
220-225	450		11 19	13	Ħ	t)	ti
225-230	450		t) 11	Pyritic	Suln	hides	
230-235	3 60		u a	ii EATICE	- Darb	II TOGS	

Area: TAPLEY (WEST JUBILEE) Dip: 600 N

Date: 14/10/70

Drilled by:

Depth	Cu,pom	Cu (%)	Colour	Renarks
5- 10	380		L. Brown	
10- 15	180	_	#	
15- 20	150		L. Pink	
20- 25	380		Red Brown	
25- 30	130	٠, ,	a	
30- 35	85		ti .	
35- 40	120		Red	
40- 45	190		Dark Pink	
45- 50	180		Red	No Visible
50- 55	180		Pink	
55 - 6 0	320.		L. Brown	Mineralisation
60- 65	250	,	Yellowish	
65- 70	120	•	11	detected
70 - 7 5	i 60	•	b	
75- 80	140		Creamy	throughout
80- 85	130		. u	our enduren
85- 90	120		Yellowish	
90- 95	700.		Brown	
95-100	170		Pale Yellow	
100-105	210		Pink	
105-110	320		L. Brown	
110-115	160	•	n Drown	
115-120	180		o	
120-125	140		. 11	
125-130	200		Yellow Brown	
130-135	200 290		10. 11. TOWAS	•
				And the second s
135-140	340		L. Brown	
140-145	130		Y. Brown	. •
145-150	230		L. Brown	
150-155	160		Y. Brown	
155-160	200		L. Brown	
160-165	230	•	n	
165-170	340		ı,	
170-175	280	•		
175-180	120		Pink Brown	
180-185	190	*		
185-190	150		Orange Brown	
190-195	220		L. Brown	
195-200	240			
200-205	170		a	•
205-210	170		n	
210-215	200	•		•
215-220	150		Pinkish	
220-225	140		g Ø	
225 - 230 23 0- 235	150 230		Pink	Contaminated

LOG OF BOREHOLE No. W.D.1

Arga: TAPLEY (WEST JUBILEE) Dip: 600 N

Date: 14/10/70

Drilled by:

Depth	Cu , ppm	Cu (%)	Colour	Romarko
5- 10	110		Yellow Brown	
10- 15	100		ti H	
15- 20	220		ti ti	
20- 25	160		tt U	Quartz Chips
25- 30	90	*	\$1 41	
3 0- 35	110		Pink	
35- 40	130		Orange	
40- 45	85		Pink	
45- 50	310		Yellow Brown	No Mineralisation
50~ 55	220		â u	Visible
55- 60	200		Light Brown	
60~ 65	75		Light Yellow	
65- 70	100		13 16	
70- 75	100		ii ii	
75- 80	160		Yellow Brown	
80- 85	95		Creamy	
85- 90	200		Brown	
90- 95	170		Medium Brown	•
95-100	190		Yellow Brown	
100-105	160		11 11	
105-110	120	•	Yellow	
110-115	100		0 ,	
115-120	150		Yellow Brown	
120-125	140	• •	Pale Yellow	
125-130	80		n a	
130-135	120		u n	
135-140	120		и и .	
140-145	130		55 18	
45-150	120		ė a	
150-155	1 60		ti ti	
155-160	100	•	11 11	
160-165	65		Creamy	
165-170	110		Yellow	
170-175	160		u	
175-180	170		ii .	
180-185	200		Ħ	
185-190	130		H	
190-195	150		ti	·.
195-200	1 60		13	
200-205	190		11	
205-210	240		Yellow Brown	
210-215	90		Pinkish	•
215-220	120		Yellow	
220-225	140		u .	
225-230	150		Yellowish	
2 3 0-235	0 : 2		Yellow	
235-240	140		u	
240-245	100		Pink	
245-250	160		tt .	

LOG OF BOREHOLE No. W.C.1

Area: TAPLEY (WEST JUBILEE) Dip: 700 N

Date: 14/15-10-70

Drilled by:

Depth	Cu , ypm	Cu (%)	Colour	Remarks
5- 10	140		L. Brown	
10- 15	300		Ħ	
15- 20	250		P. Yellow	•
20- 25	280		, n	
25- 3 0	340		Yellow	
3 0- 35	220		P. Yellow	•
35- 40	120	• .	Creamy	
40- 45	250		L. Brown	
45− 50	270		Yellow Brown	
50 - 55	190		Yellow	
55- 60	150		65	No
60- 65	170		L. Brown	
65- 70	400		Brown	Mineralisation
70- 75	420		Orange Brown	
75- 80	3 80	•	. 11 11	Detected
80- 85	500		Rusty Brown	
85- 90	210		Orange Pink	Throughout
90- 95	280		Brown	
95-100	210		R. Brown	
100-105	270		Yellow	
105-110	180		L. Yellow	
110-115	180		ti	
115-120	310		, a	
120-125	320		11	
125-130	160		11	
130-135	200		Yellow	
135-140	200		ll ,	
140-145	280		u .	
145-150	200		Brown	
150-155	190		L. Pink	
155-160	200		L. Brown	
160-165	180		n n	
165-170	230		n n	
170-175	250		Pink	
175-180	260		Ħ	· ·
180-185	210		H	
185-190	320		Yellow	
190-195	240		Red Brown	
195-200	340		Orange Brown	,
200-205	240		п п	Hole abandoned
205-210	230		Brown	at 215' due to
210-215	200			wat conditions

0151 SML 366.

QUARTERLY REPORT FOR BOOLOGROO,

PT. OF MINES

Quarter Ending June 17, 1971.

DEVI. OF

During this quarter a diamond drilling programme and a geophysical survey programme was carried out.

Diamond drilling programme was carried out to test the primary copper sulphides encountered in the percussion drill holes to the south of Mount Coffin Diapir. Two drilling rigs operated by "Associated Diamond Drillers" were employed from February 1971 to April 1971. Drilling Rig No. 1 was engaged to drill a hole at position 397N 324E where primary copper was encountered in the Percussion drill hole. The hole at 90° at this location proved impossible to drill beyond 240 feet depth. The highly fractured ground proved very difficult to penetrate further and the hole had to be abandoned.

To get the required information about the primary ore encountered in the percussion drill hole at this location, it was decided to drill at least one deep drill hole here. To reduce the expenditure it was decided to deepen the 397/324, 70° inclined percussion drill hole. The hole was deepened to 305 feet and due to broken and fractured ground could not be drilled any further and hence was abandoned.

To test the same zone another 90° hole was drilled at location 397/325, parallel to the percussion hole 397/324. It had to be abandoned due to the same reasons at 295 feet depth.

To pass the broken and fractured mineralised zone another hole was planned about 50 feet to the east of drill hole 397/324 at an angle of 70° . The hole was abandoned when at 40 feet depth, because at that time it was realised that it would run into the same difficulties.

Rig No. 2 was employed to drill a hole at position 393/336. This hole was a stratigraphic hole and was intended to locate the contact of shales and Tillites and to see if the contact was mineralised. The hole was abandoned at 657 feet, before it reached its target.

Study of drill cores showed that weathering zone extends up to 150 feet depth and that the primary sulphides occur at various levels below 240 feet depth. In all cases the Primary copper sulphides are associated with a stockwork of siderite.

The cores from the mineralised sections of the drill holes were sent to McPhar Geophysics Pty. Ltd. to be assayed for Copper, Silver, Gold, Antimony and Arsenic.

The following table shows some of the best intersections in the individual drill holes:

Hole No.	From	To	Width	Percentage of copper
397/324 900 397/324 700 397/325 900 393/336 900	154'9" 240' 190' 378'	173'9" 264' 200' 390'	19' 24' 10 '	0.43 % 1.3 % 0.5 % 0.1 %
				· \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \

Drill hole 393/336 showed dissiminated chalcopyrite from 300 feet up to 657 feet, but the assay results showed very low copper. Again a very high arsenic (4,000 PPM) value occurs in the drill hole assays.

An I.P survey was carried out for about two weeks by Seigel Associates (Aust.) Pty. Ltd. on the following pattern.

Expanders were carried out in the area of interest to examine the resistivity conditions within the oxidised zone. The expanders were capable of showing the depth of the oxidised zone in the area and were confirmed by the comparison of the drill hole information.

Based on the assumption that there would be a significant contrast in the apparent resistivity between the oxidised zone and the sulphide zone, a "Gradient Array Technique" was selected to be the best approach. A 3,000 feet gradient array was set up over the area of interest and lines over 200 feet and 400 feet spacing! were surveyed at approximately 100 feet interval. In addition, three array were surveyed over some of the lines using 200 and 400 feet spacing, with reading every 200 feet at each spacing.

A highly conductor zone has been delineated towards the south of the present drilling lines, over the siltstone area. The strike of this conductor zone is N-NW to S-SW, and varies in depth from the surface at various survey stations.

The report on this survey is awaited from the geophysical consultant and would be sent to the Department of Mines when available.

ZAHER SHAH.

SOUTHERN CROSS EXPLORATION N.L.



REPORT ON AN
INDUCED POLARIZATION SURVEY
COPLEY, SOUTH AUSTRALIA AREA
ON BEHALF OF
SOUTHERN CROSS EXPLORATION N. L.

0153

REPORT ON AN
INDUCED POLARIZATION SURVEY
COPLEY, SOUTH AUSTRALIA AREA
ON BEHALF OF
SOUTHERN CORSS EXPLORATION N. L.

by

John L. Irvine, B.Sc., P.Geoph.

Geophysicist

seigel associates australasia pty. Ltd.

GEOPHYSICAL CONSULTANTS AND CONTRACTORS

234 ROCKY POINT ROAD, RAMSGATE, N.S.W. 2217
TELEPHONES, 5297336 AND 292684
AFTER HOURS 4511330
TELEX - 4A21417 TELEGRAMS SCINTREX, 51DNEY

SUMMARY

This test survey revealed the presence of an extensive zone with an abnormally high I.P. response. An investigation of the drill hole results revealed this response was due to carbonaceous shales which exist above the known zone of mineralization.

Further I.P. work is recommended, especially the drill hole technique to obtain representative results from the mineralized zone.

CONTENTS

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SUMMARY	
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ĠEOTÓĠĂ	2
PRESENTATION OF RESULTS	3
DISCUSSION OF RESULTS	3
CONCLUSIONS & RECOMMENDATIONS	6

APPENDIX I.P.

PLATES

PLATE -1. GRID MAP
PLATE -2. I.P. DATA PROFILES.

PLATE -3. EXPANDER DATA RESULTS.

REPORT ON

AN INDUCED POLARIZATION SURVEY

COPLEY, SOUTH AUSTRALIA AREA

ON BEHALF OF

SOUTHERN CROSS EXPLORATION N.L.

INTRODUCTION

During the period from May 21 to May 27. 1971, Seigel Associates Australasia Pty.Ltd. executed an induced polarization survey in the Copley, South Australia area on behalf of Southern Cross Exploration N.L. The field work was under the supervision of J.Walters while John L. Irvine, B.Sc., P.Geoph: provided overall geophysical supervison.

The Boolooroo/Tapley grid is located about five miles east of Copley, and is readily accessible by road.

The ground surface is generally gentle hills with a rocky surface.

The attached appendix discusses the purpose of induced polarization surveys, the instrumentation used for the present survey as well as the electrode arrays nor mally employed.

The purpose of this present survey was to test the area with the induced polarization technique, to check the response expected and to ascertain its usefulness in the possibility of future work.

Two gradient set-ups were employed plus three Schlumberger expanders and one Wenner three-array expander. The gradient set-ups employed a current electrode spacing of approximately 910 metres (3000-ft) and a potential dipole spacing of 25 metres with readings taken every 25 metres. The expander arrays utilized spacings, varying from 10-feet to 2000-feet. The expander arrays require no grid and all necessary chaining was performed by Seigel personnel.

GEOLOGY

The geology of the survey area consists of the Mt.Coffin diapir intruding the Tapley hill formation, Tindlepina member and Yudnamutana sub group. West of the survey area is the Balcanoona formation which is a massive dolomite.

The Tindelpina member is a carbonaceous shale lying above the mineralized zone. Drilling results would indicate a thickness exceeding 200-feet.

Page-Three

The main target of the present survey would be the copper-bearing sediments lying below the carbonaceous shales but above the diapir contact.

PRESENTATION OF THE RESULTS

The presentation of the results are at a horizontal scale of 1 inch = 50 metres for the gradient results, and the expander results are at a logarithmic scale of 5 inches per cycle. The vertical scales for the gradient results are at the following scales:

Apparent chargeability: 1 inch = 10.0 milliseconds

Apparent resistivity : Logarithmic at 5 inches/cycle; base

level at 100 - 2 metres.

L/M ratio : 1 inch = 1.0

Examples of these scales are given on all plates.

DISCUSSION OF THE RESULTS

The chargeability profiles clearly indicate the high chargeability resulting from the carbonaceous shales. This is confirmed by the Wenner three-array expander which gave a calculated response of 64.0. milliseconds. This response is open to the west at line 288E and

eastward to line 328E. Lines 332E to 348E exhibit a much different nature in that the responses are open to the south. Also the contact with the diapir becomes readily apparent at the extreme north end of the lines, and the L/M ratio is indicative of undesirable coupling effects obtained from distortion of the gradient field across the contact. This arises from the fact that the M (chargeability) values change drastically across the contact.

All the apparent resistivity results indicate a general increase in resistivity to the south and hence a general change in character of the sediments. The local changes along each profile are most probably the changes in the near surface material.

The expanders yield a very interesting feature in that there was practically no change in the resistivity from surface materials to those at depth. Spread #1 (centred at 397N - 324E) was the only expander which yielded results that were previously expected. These results would

Page-Five

indicate the absence of a weathered and oxidized zone plus the fact that there is no alteration related to the surface material.

The expanding arrays have calculated depths to
the I.P. source varying from 150-feet in depth
to approximately 250-feet in depth. The
intrinsic chargeability of the source is
exceptionally strong (calculated at 64.0 milliseconds)
from the Wenner three-array and the previous drilling
suggests the carbonaceous shales as the source
material. The arrays would consequently have to
be of abnormally large dimensions to effectively
see below these shales and the very large
chargeability results from the shales would
effectively "mask" anything situated immediately
below.

From the known geology, Spread #3 should have yielded the shallowest depth to source but instead yielded the deepest. No geological explanation can be given and geophysically, the results are the least conclusive of all expanders, as the plotted results of the I.P. response are the most irregular of the four expanders.

Page-Six

CONCLUSIONS AND RECOMMENDATIONS

The present induced polarization survey has revealed the presence of an extensive area exhibiting a very high chargeability response. The cuttings from the percussion drilling verified that the source material was carbonaceous shales.

It is recommended that the association between the carbonaceous shales and copper mineralization be examined. If there is a direct association between the two, further I.P. work is recommended utilizing the shales as a "marker" to indicate the presence of copper mineralization which may occur below it.

It is also recommended that some drill hole I.P. be executed to determine the geophysical nature and possibly the extent of the sulphide mineralization.

Further I.P. surveying is recommended to the west towards the dolomites and north over the diapir to determine what kind of response exists from the mineralization that was observed in these areas. The present grid would have to be extended to the north to cover the diapir.

Seigel Associates Australasia Pty.Ltd. would be pleased to review the present results in the light of further information and participate in the laying out of any drill holes that may be requested by Southern Cross and to assist them in the planning of any future programme.

Respectfully submitted,

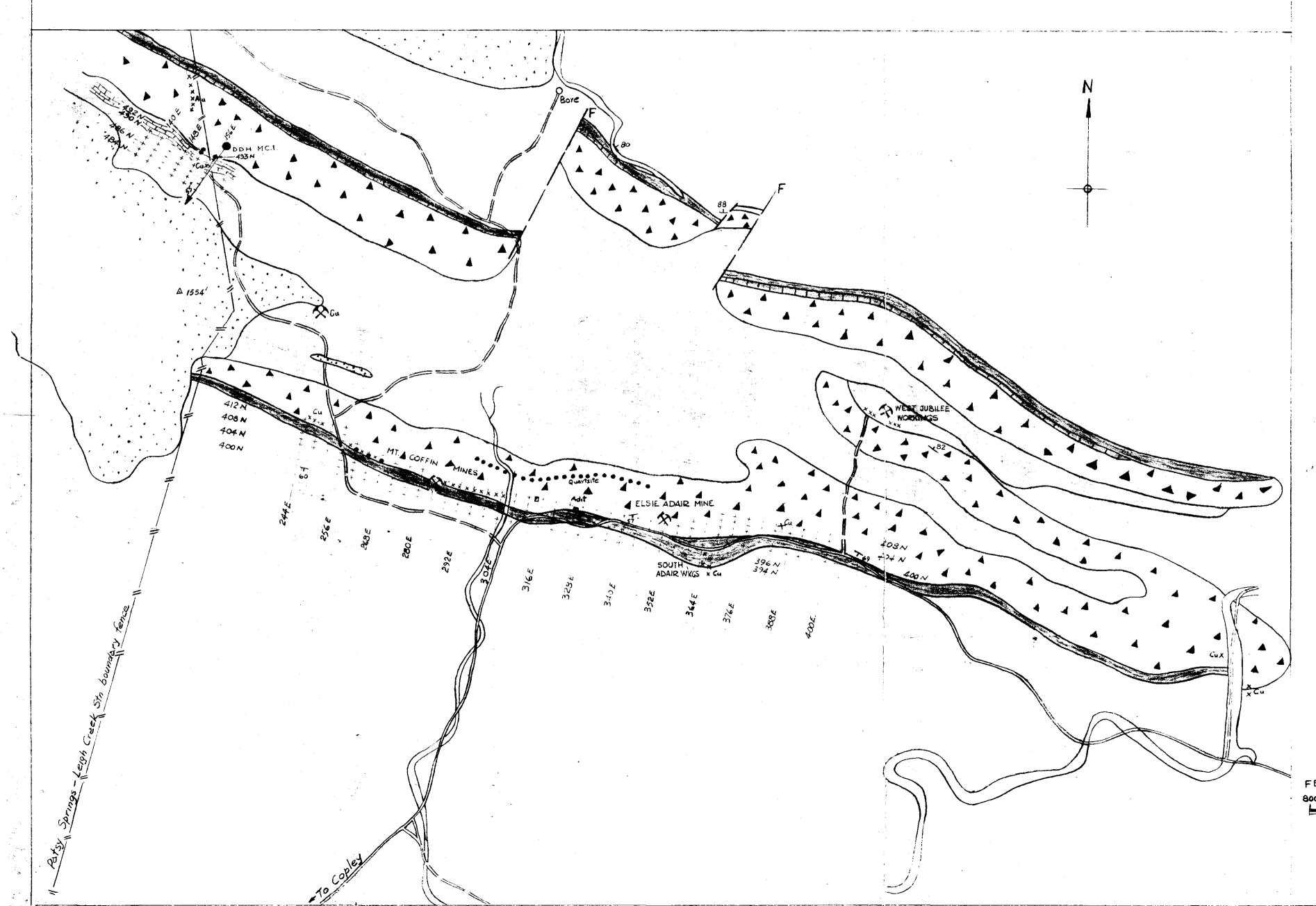
SETGEL ASSOCIATES AUSTRALASIA PTY.LTD.

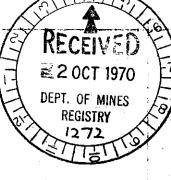
JOHN L. IRVINE, B.Sc., P. Geoph

GEÓPHYSICIST & MANAGER - EASTERN AUSTRALIA

MT. COFFIN DIAPIR

DRILLING PATTERN





LEGEND Creek bed alluvium and gravels AMBEROONA FORMATION Finely laminated green silty shales with minor lenticular limestones BALCANOONA FORMATION: Massive dolomite with some grey limestone TAPLEY HILL FORMATION: Laminated shales and siltstones with interbedded yellow-brown dolomites
TINDELPINA MEMBER: Black carbonaceous, byritic shale with basal yellow dolomite YUDNAMUTANA SUB-GROUP: Pebbly siltstone and shale Some arkose and grit Some lensing sandstones with occasional pebbles

Silicified sandstones and carbonate brecçia Massive dolomitic marble with disseminated copper sulphides Diapiric siltstone and dolomitic breccia Some sandstone with halite casts - Geological boundary

180 Strike and dip of bedding

Main road and track

____ Fault.

xxxxcu Minor Copper workings

Mine locality

Alluvial Gold workings

Mine shaft or adit

Barometric height Trig point

M.C.I. Diamond drill hole

· Drill hole site

SCALE

Original Geology by Department of Mines - South Australia.



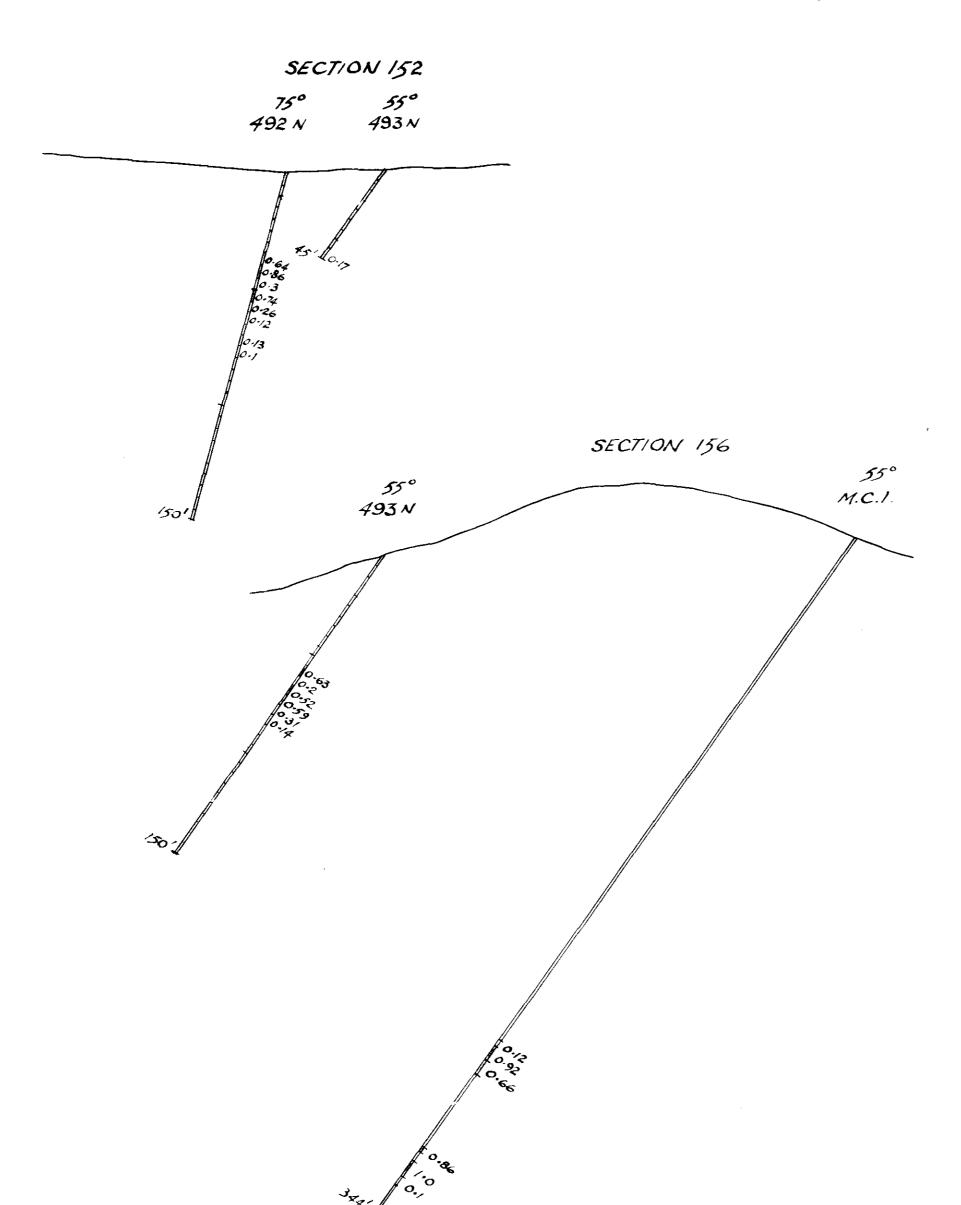
BOOLOOROO, MT. COFFIN.

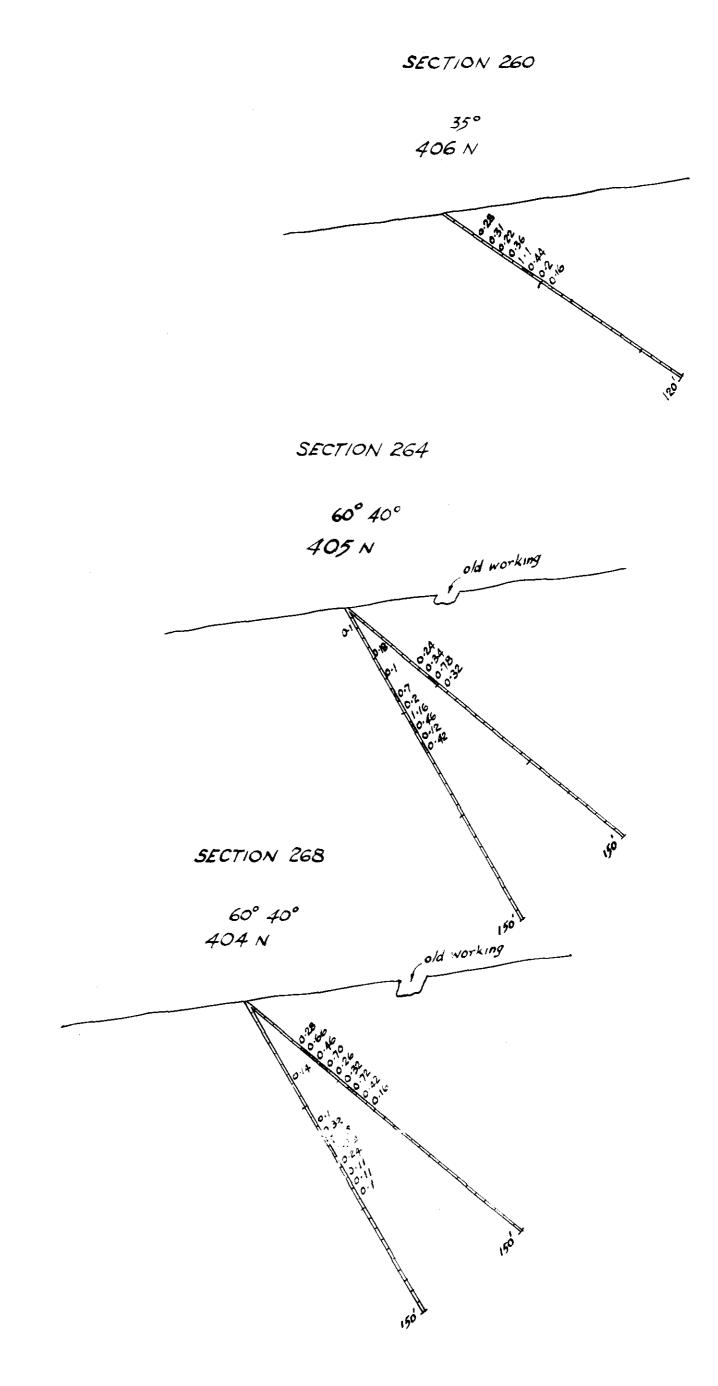
PERCUSSION DRILL HOLES

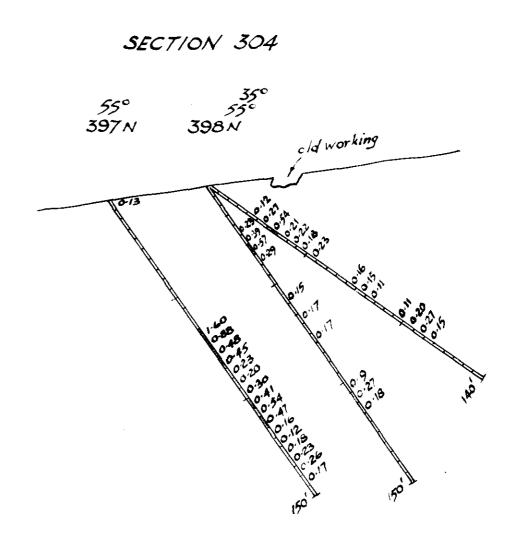
Copper Assay Values in %

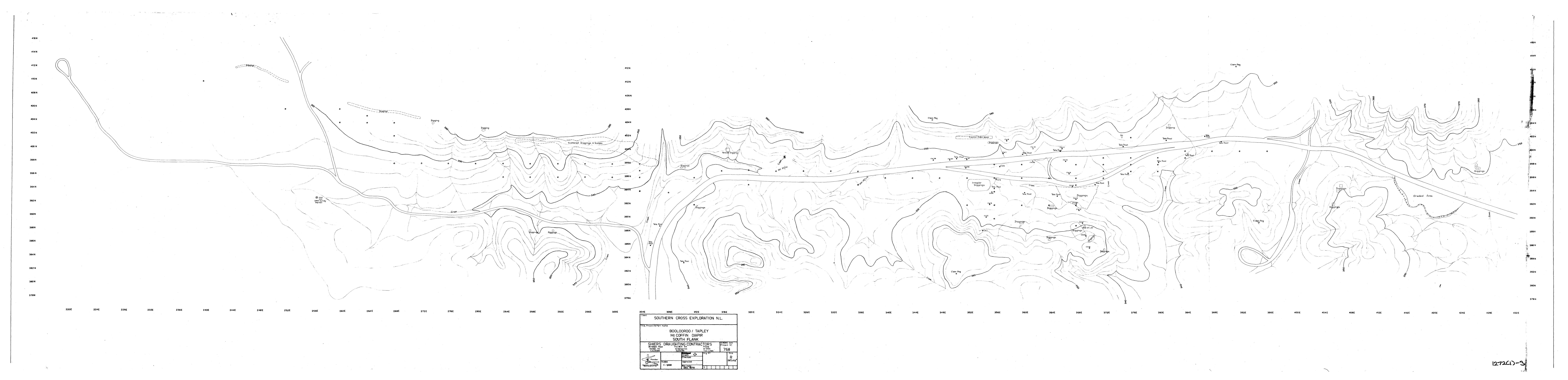
scale ~ 1:480

only Cu. values > 0.1% are plotted.
values > 0.4% coloured red.



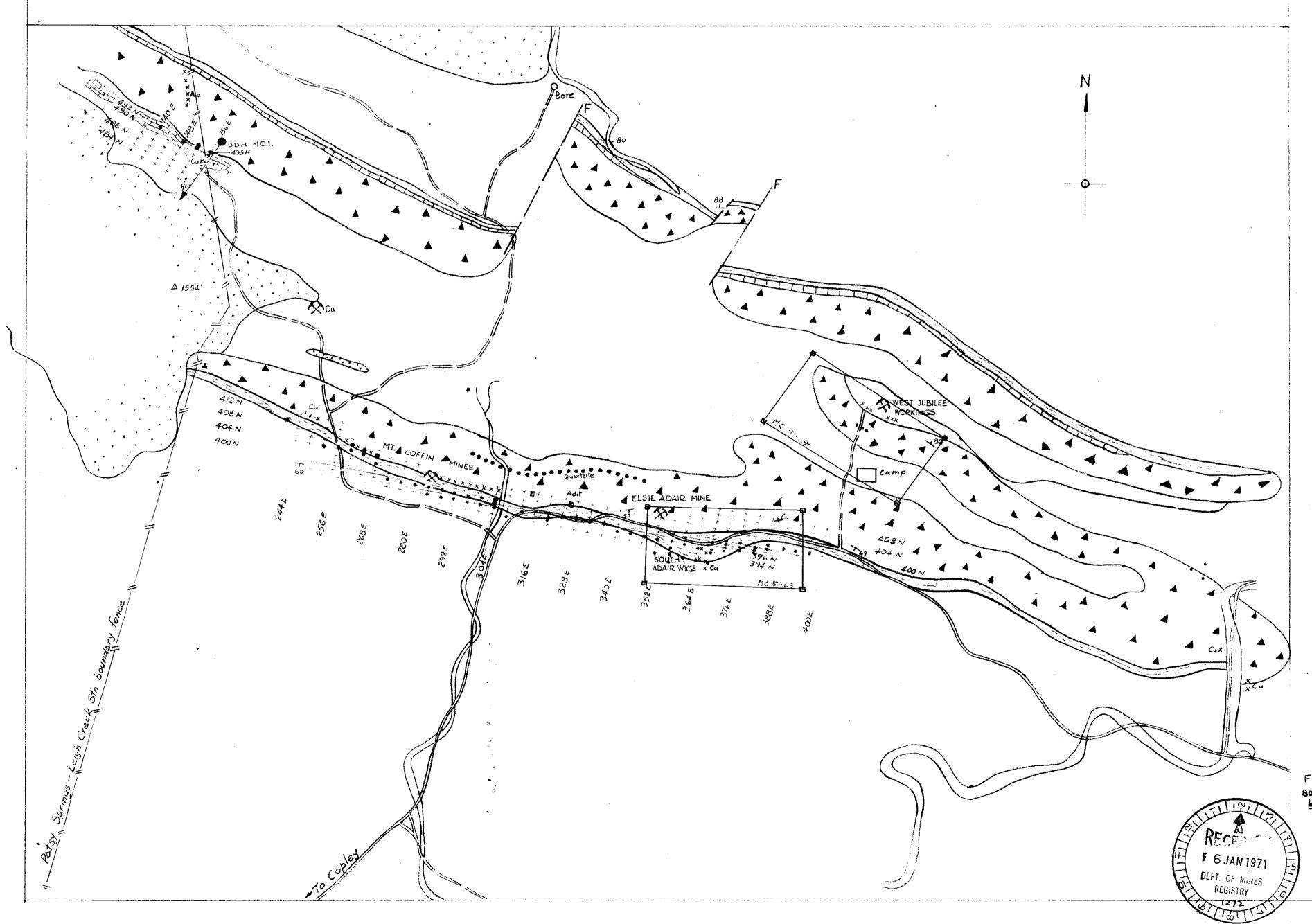






MT. COFFIN DIAPIR

DRILLING PATTERN



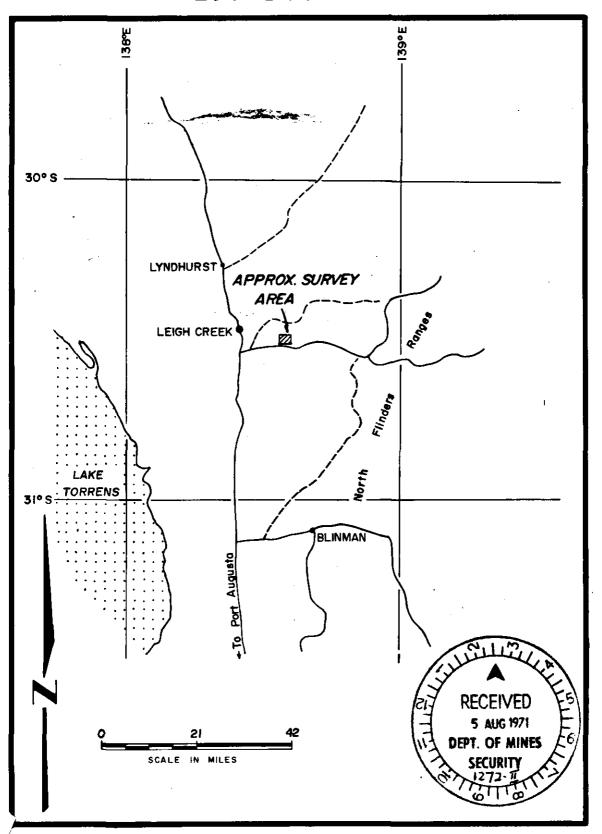
LEGEND

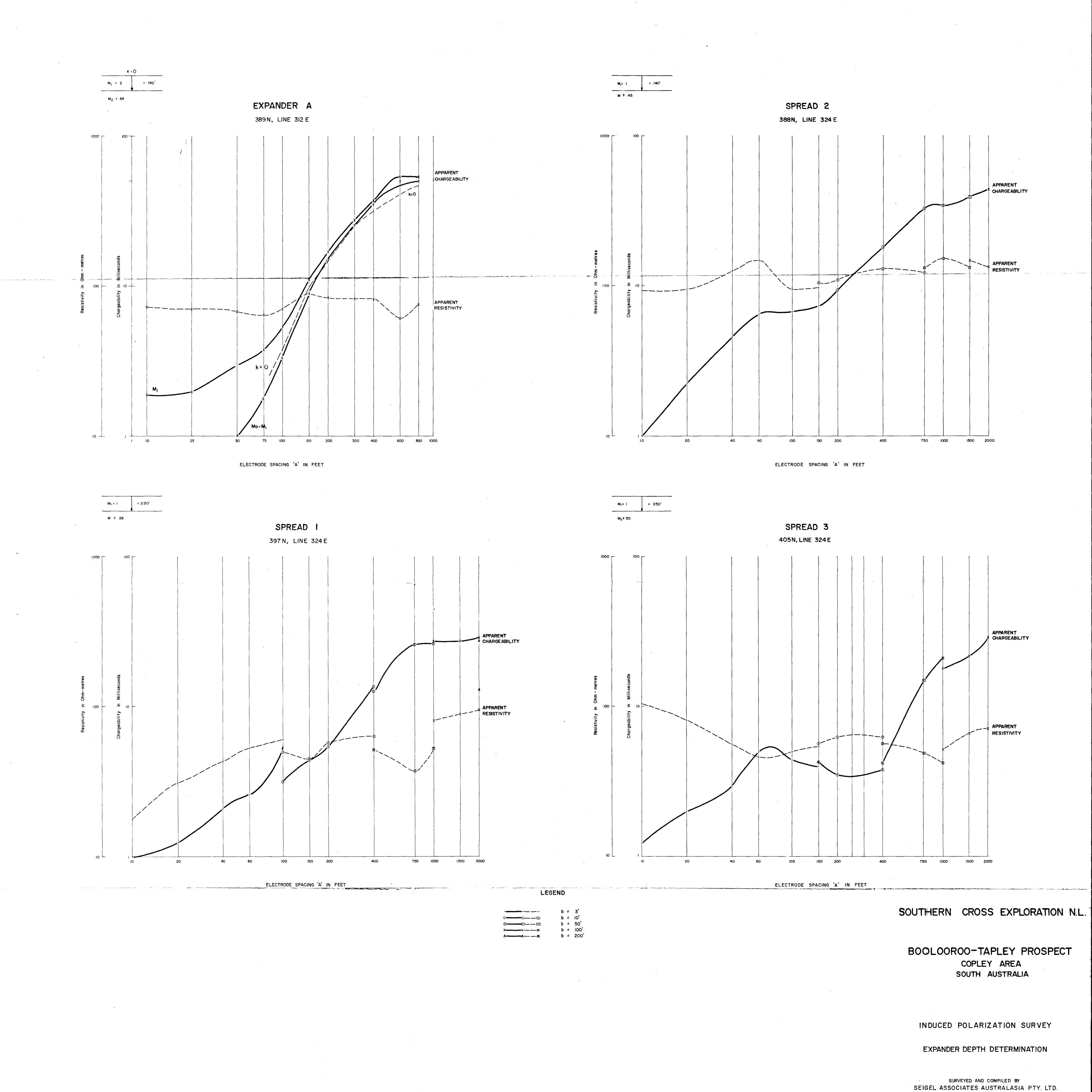
Creek bed alluvium and gravels AMBEROONA FORMATION Finely laminated green silty shales with minor lenticular limestones BALCANOONA FORMATION: Massive dolomite with some grey limestone TAPLEY HILL FORMATION: Laminated shales and siltstones with interbedded yellow-brown dolomites

TINDELPINA MEMBER: Black carbonaceous, pyritic shale with basal yellow dolomite YUDNAMUTANA SUB-GROUP: Pebbly siltstone and shale Some arkose and grit Some lensing sandstones with occasional pebbles Silicified sandstones and carbonate breccia Massive dolomitic marble with disseminated copper sulphides Diapiric siltstone and dolomitic breccia Some sandstone with halite casts - Geological boundary 180 Strike and dip of bedding Main road and track xxxxcu Minor Copper workings Alluvial Gold workings Mine shaft or adit Barometric height Trig point . M.C.I Diamond drill hole · Drill hole site SCALE FEET Original Geology by Department of Mines - South Australia.

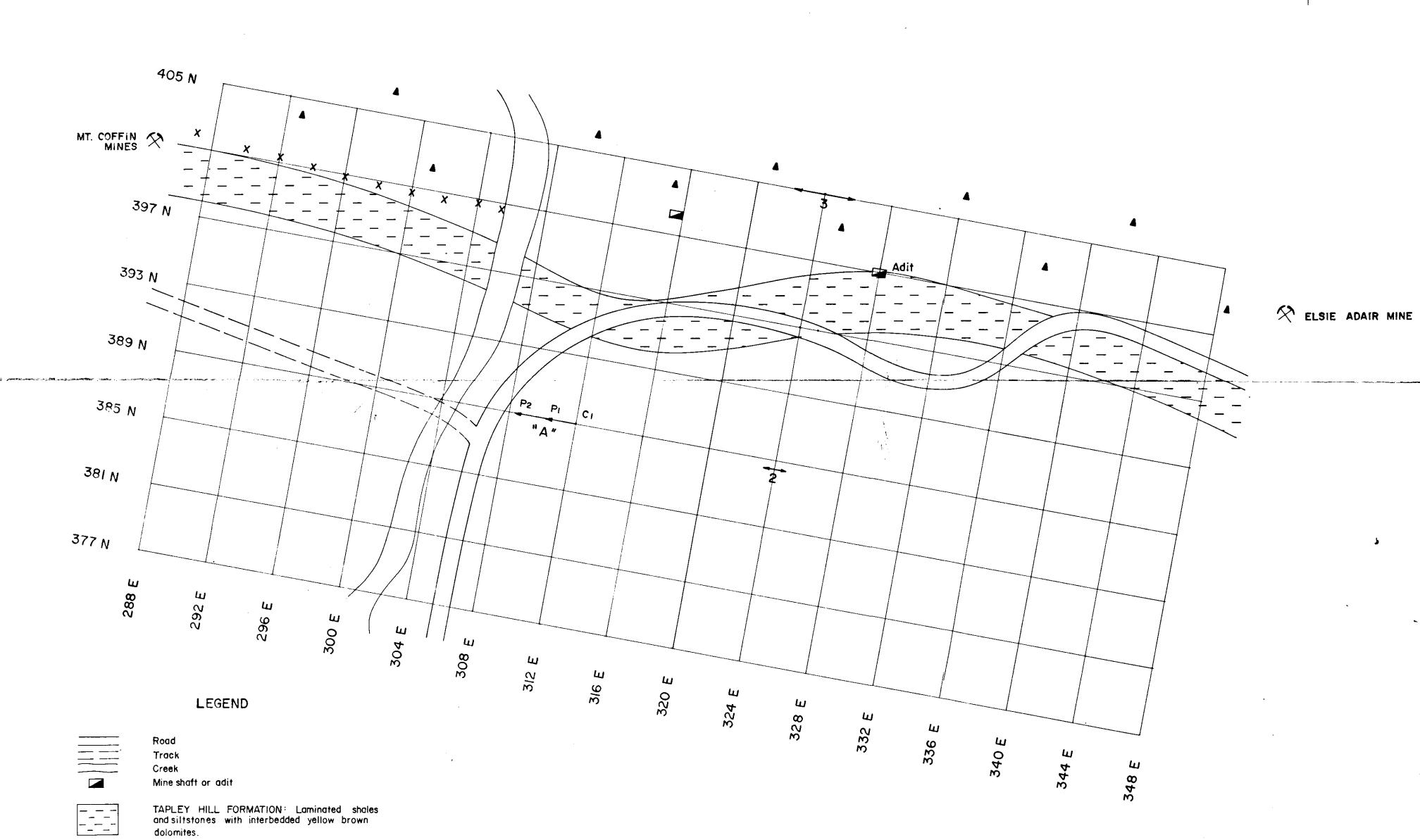
1272(1)-4

BOOLOOROO -TAPLEY PROSPECT LOCALITY PLAN





SCALE 5" = 1 LOGARTHMIC CYCLE
1272(2)-2
JOB No. SA 002 SHEET 1 OF 1 PLATE 3



YUDNAMUTANA SUB-GROUP: Pebbly siltstone and shale. Some arkose and grit. Some lensing sandstones with occasional pebbles.

Minor copper workings.

SOUTHERN CROSS EXPLORATION N.L.

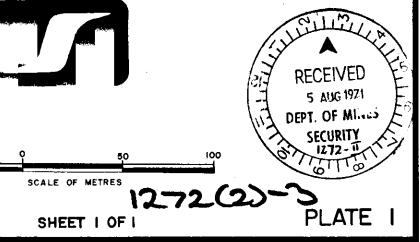
BOOLOOROO-TAPLEY PROSPECT COPLEY AREA SOUTH AUSTRALIA

INDUCED POLARIZATION SURVEY

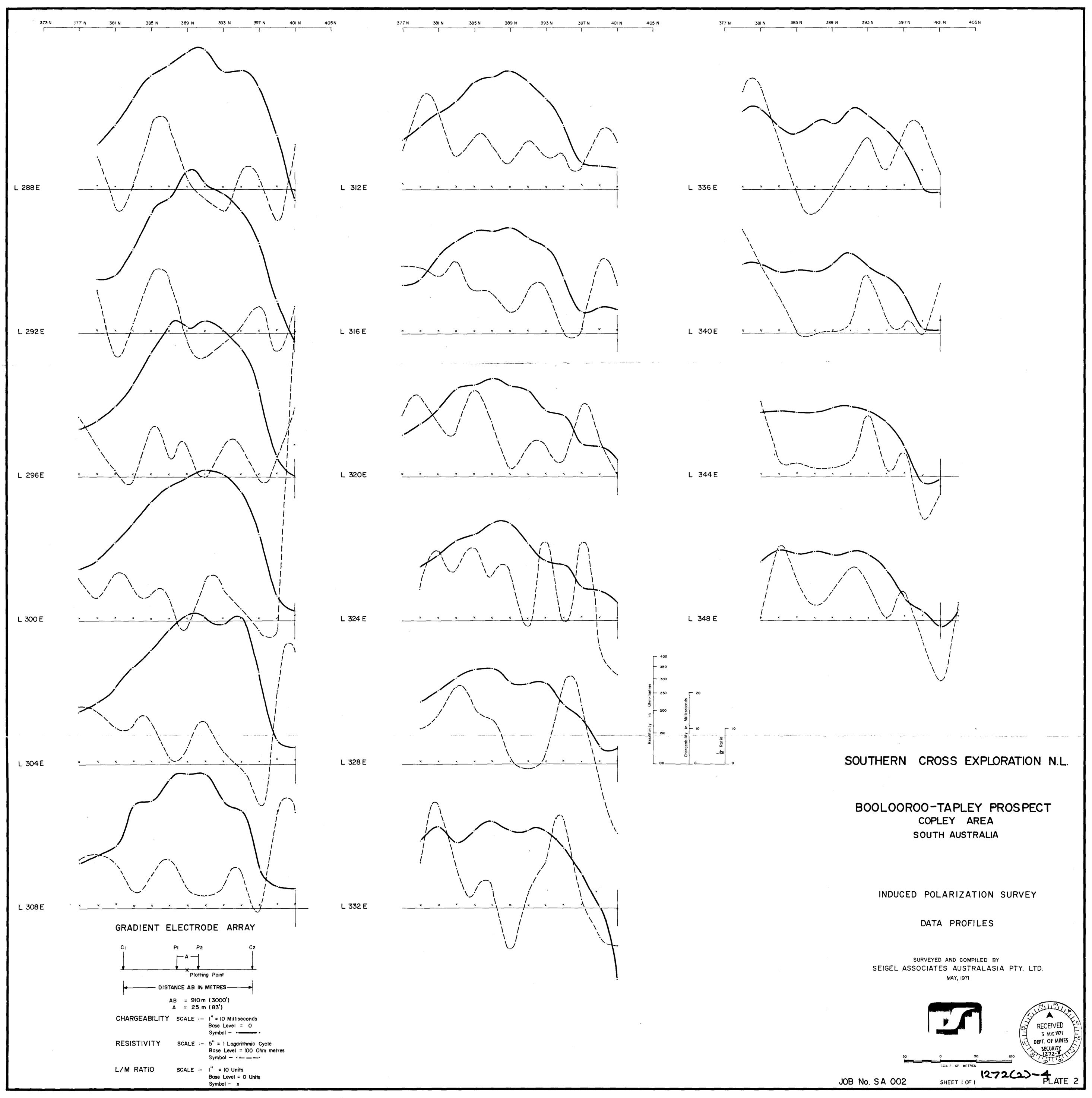
GRID MAP

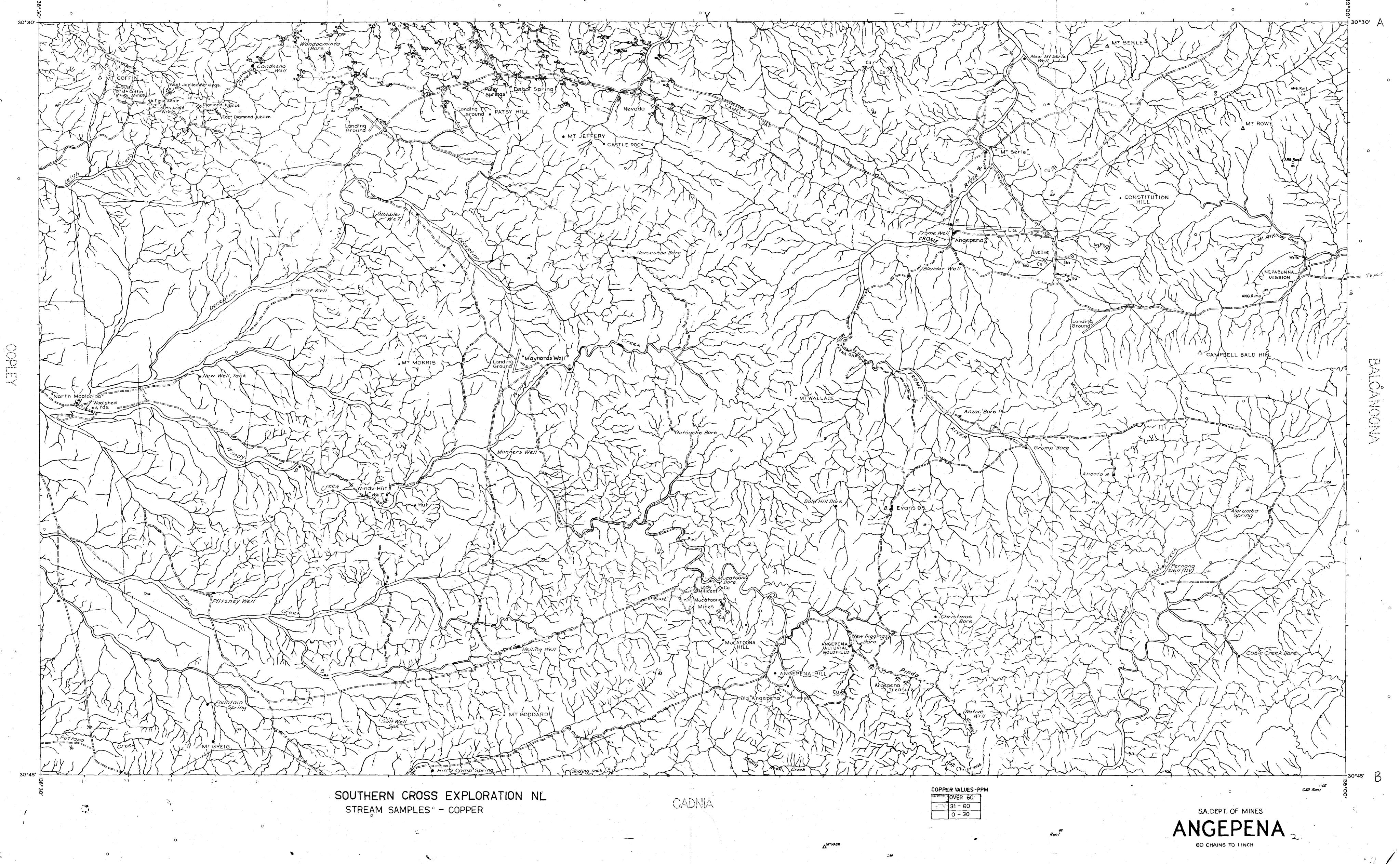
SURVEYED AND COMPILED BY SEIGEL ASSOCIATES AUSTRALASIA PTY. LTD.

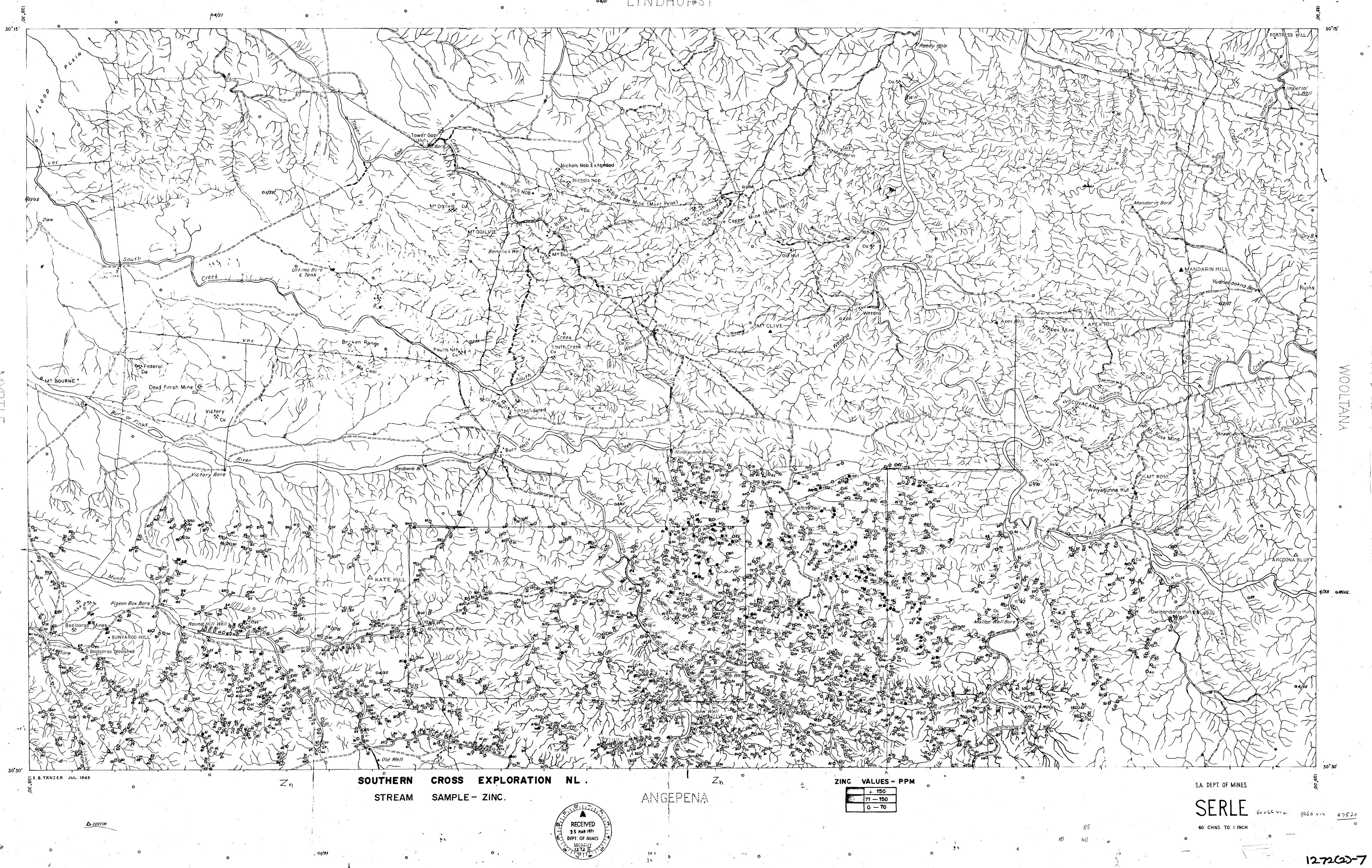




JOB No. SA 002







386 N ROAD 400 3990 39

1272(2)9

M _370

_360

_350

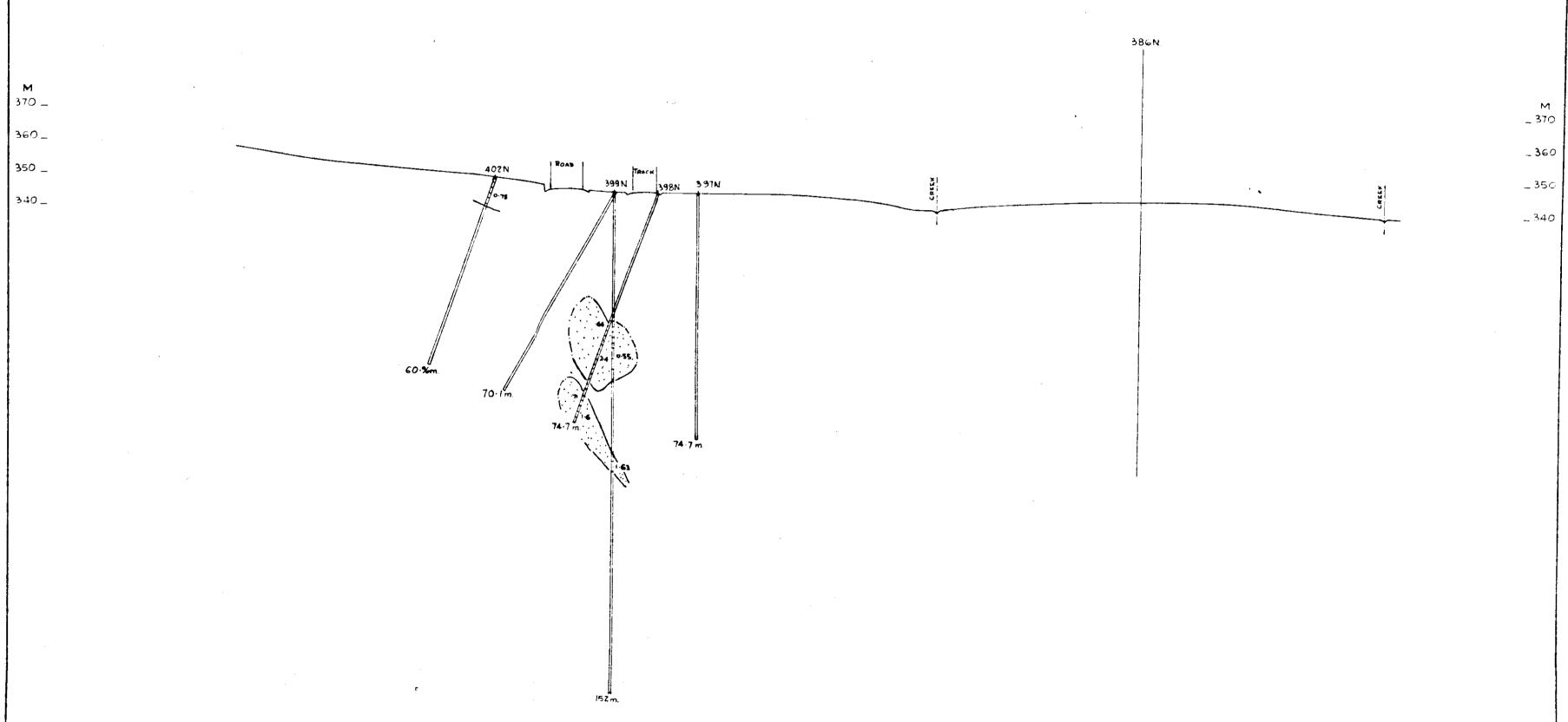
_ 340

M 370 _

360_

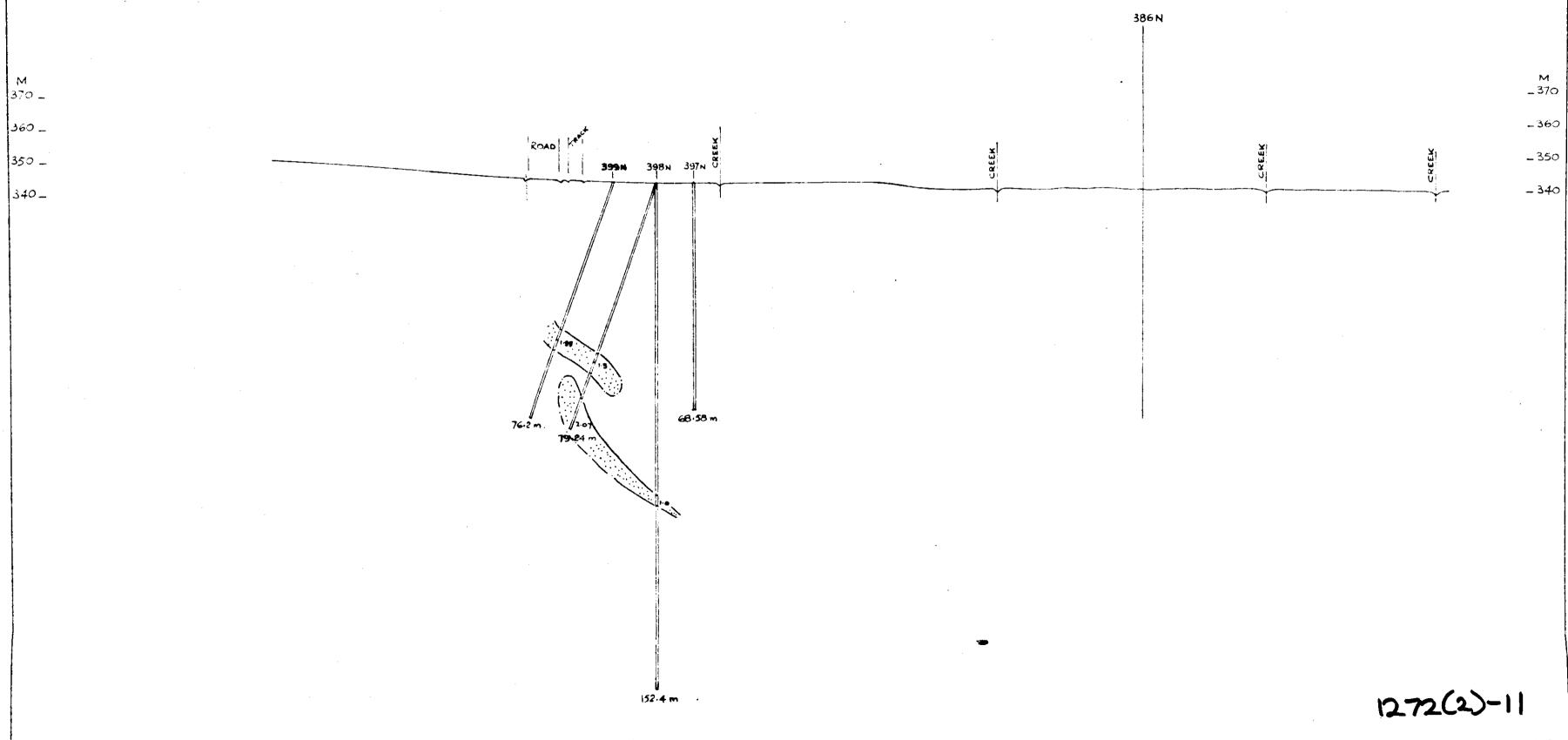
350_

340_



1272(2)-10

ELSIE ADAIR - PROFILE 376E



Scale 1:1,000

ELSIE ADAIR - PROFILE 380E

396 N.

| 3974 | 3994 | 3374 | 3374 | 5374 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 | 5375 |

1272(2)-12

M _ 370

_ 360

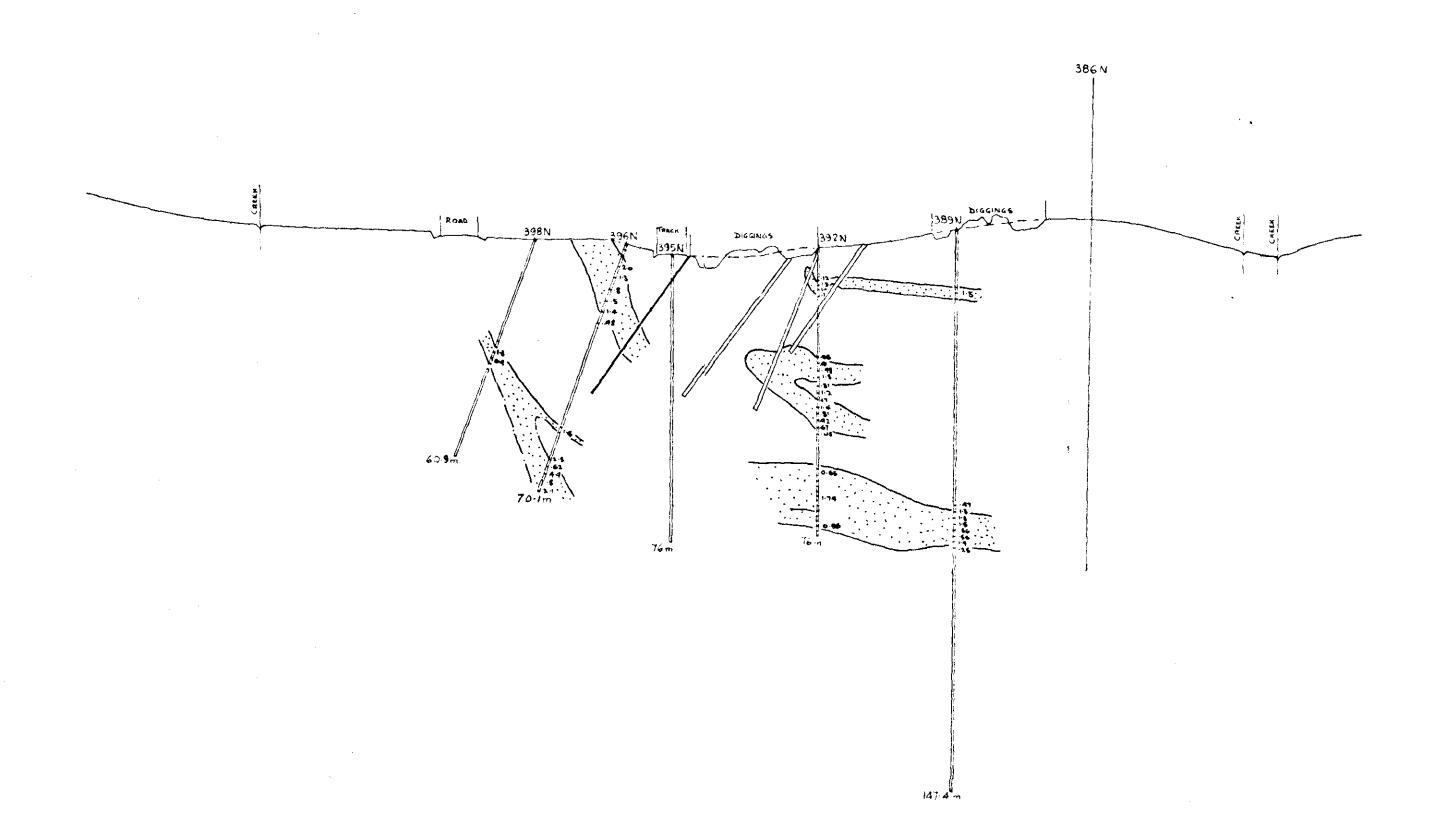
ELSIE ADAIR - PROFILE 372E

M: 370 _

360 _

350 _

340_



1272627-13

Scale 1:1,000

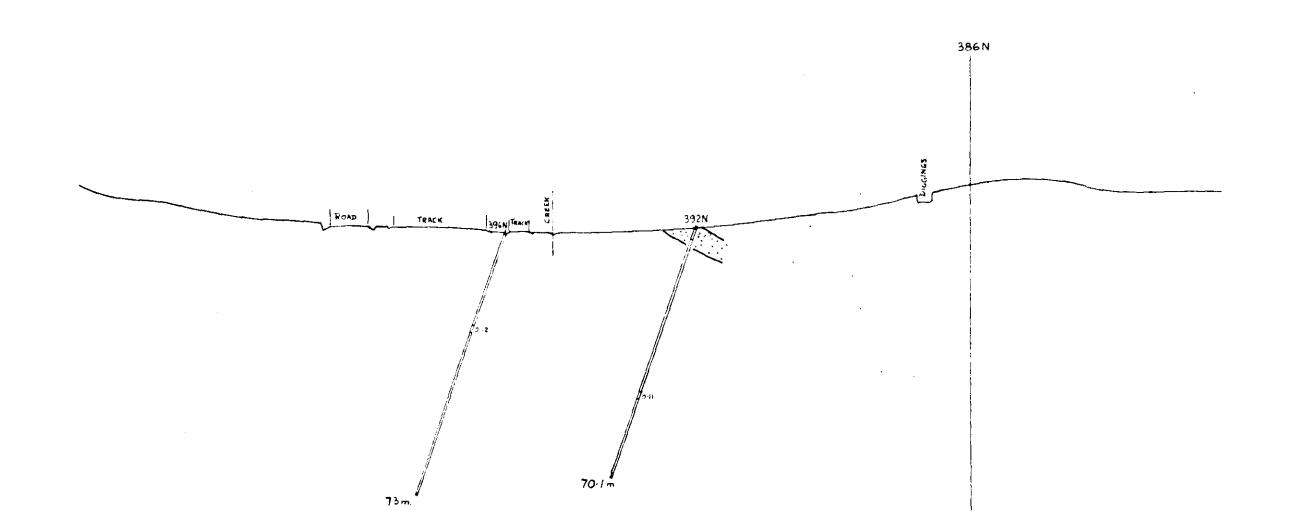
M 370 _

360 _

350 _

340_

ELSIE ADAIR - PROFILE 368E



M 370 _

360_

350 _

340 _

1272(2)-14

_ 340

ELSIE ADAIR - PROFILE 364

386 N

Ans. 338N

Ans.

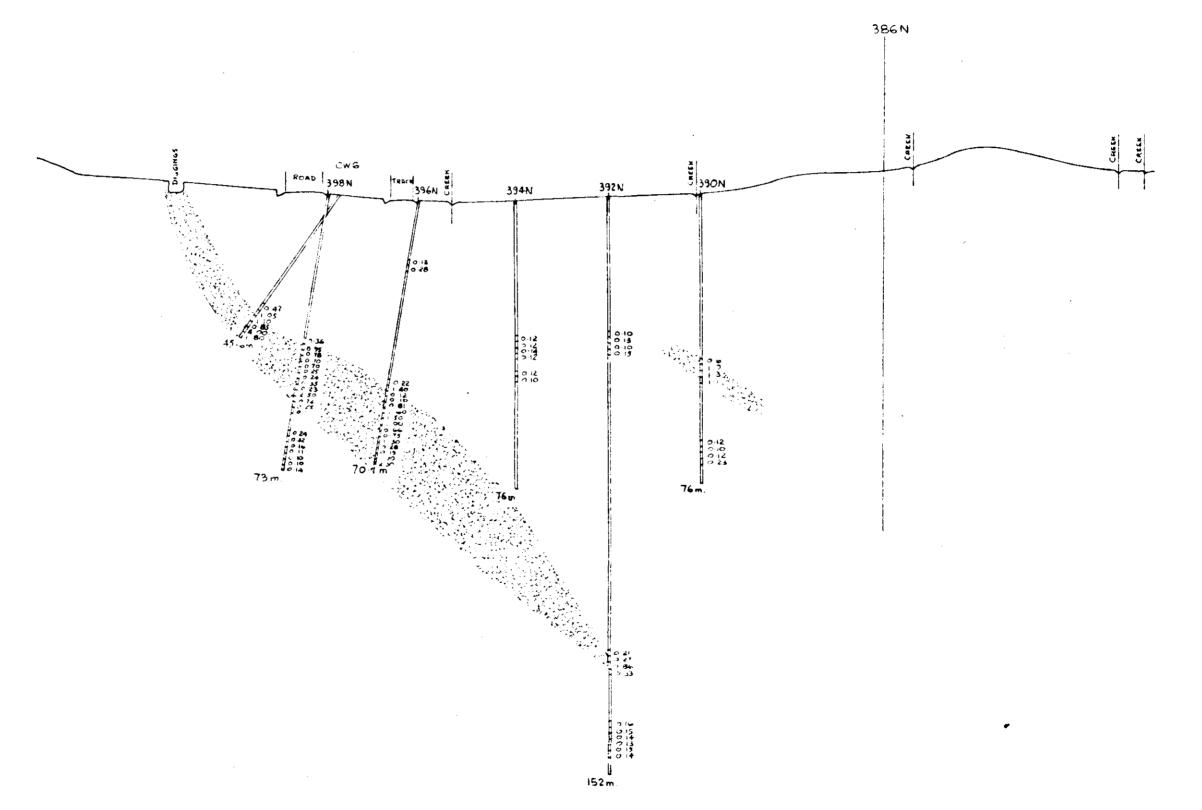
1272(2)-16

ELSIE ADAIR - PROFILE 360E

M 370 _

360 _

350 _



1272(2)/5

M _ 370

_ 360

_ 350

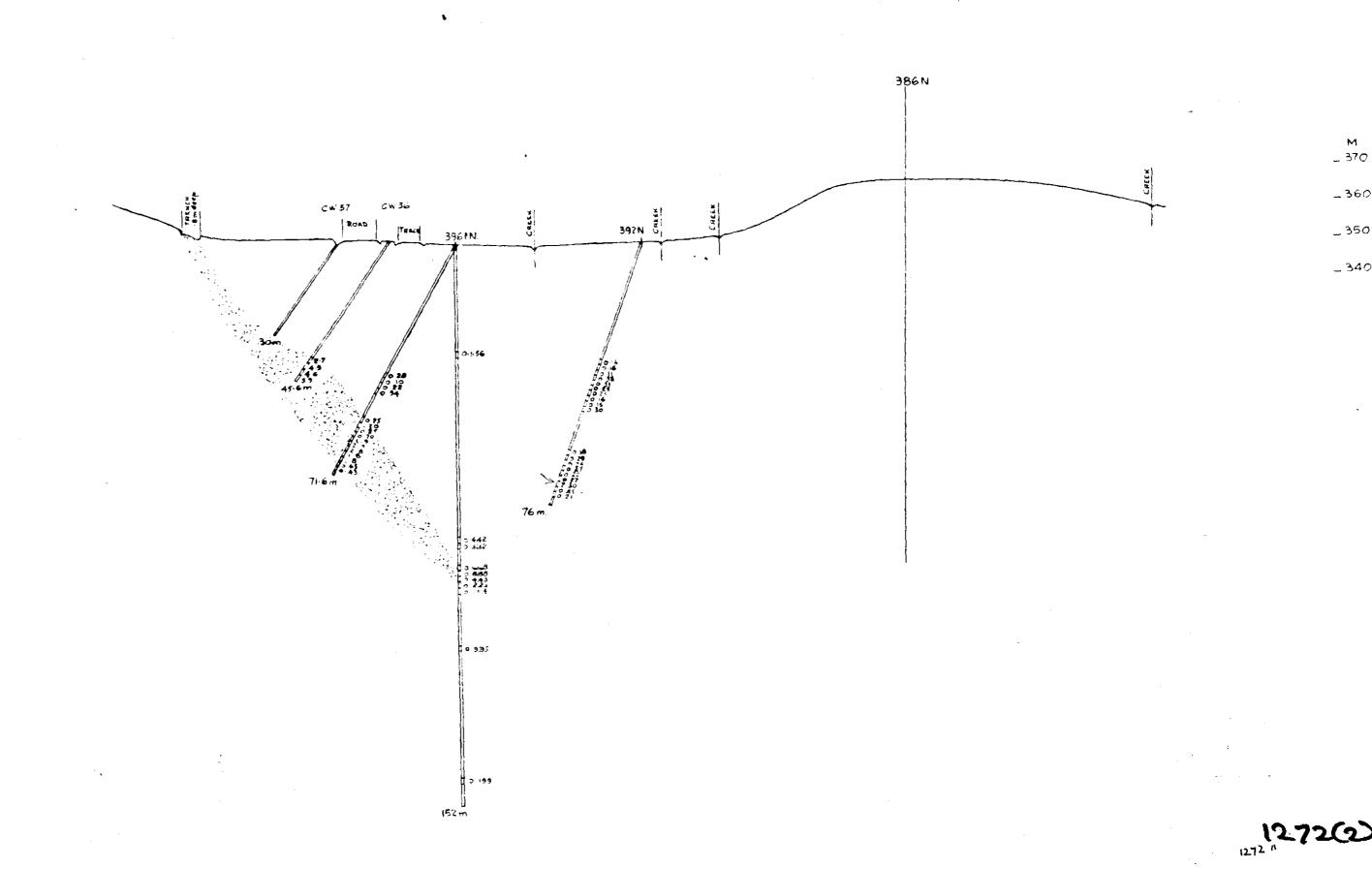
_340

ELSIE ADAIR - PROFILE 356E

M 370 _

360_

350 _



Scale 1:1,000

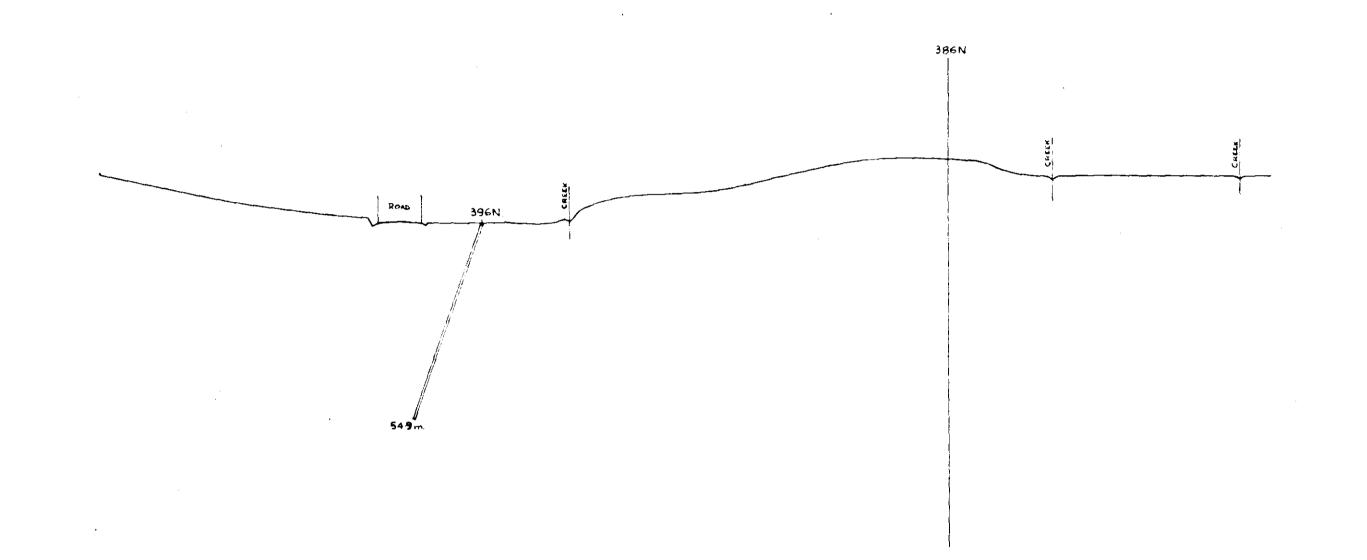
370 _

360 -

350 ...

340 _

ELSIE ADAIR - PROFILE 352E



_ 360

_ 350

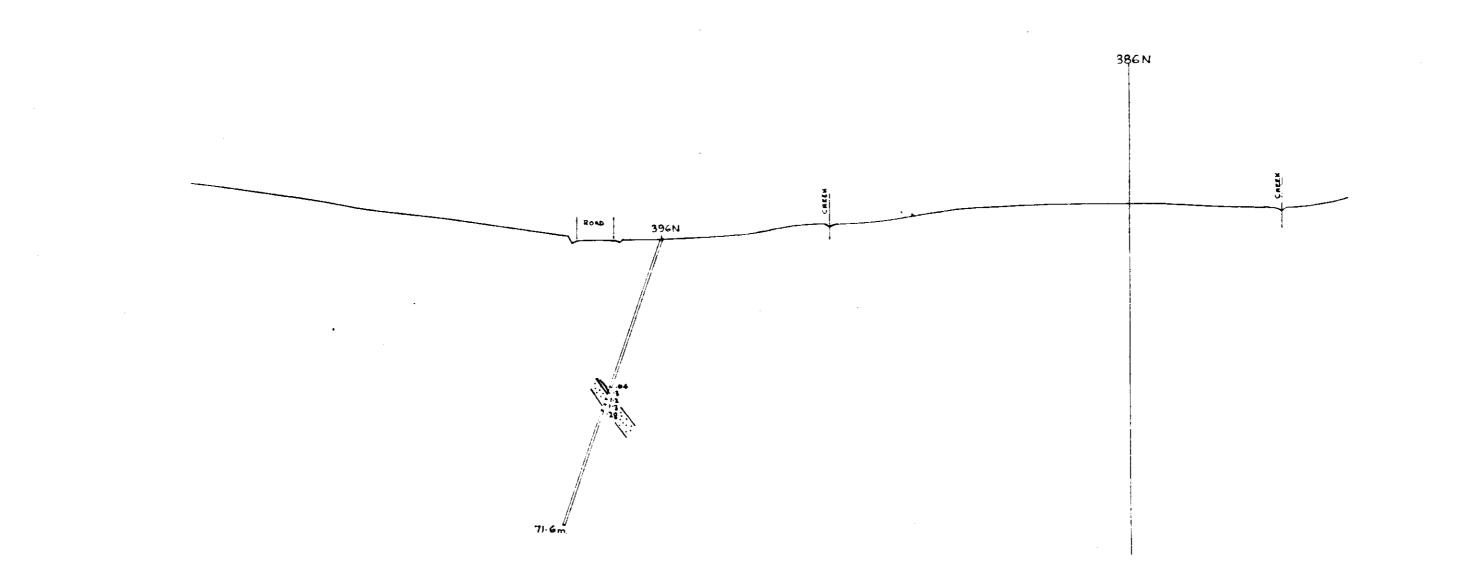
_ 340

ELSIE ADAIR - PROFILE 348E

M 370 __

360 _

350 _



M _ 370

_ 360

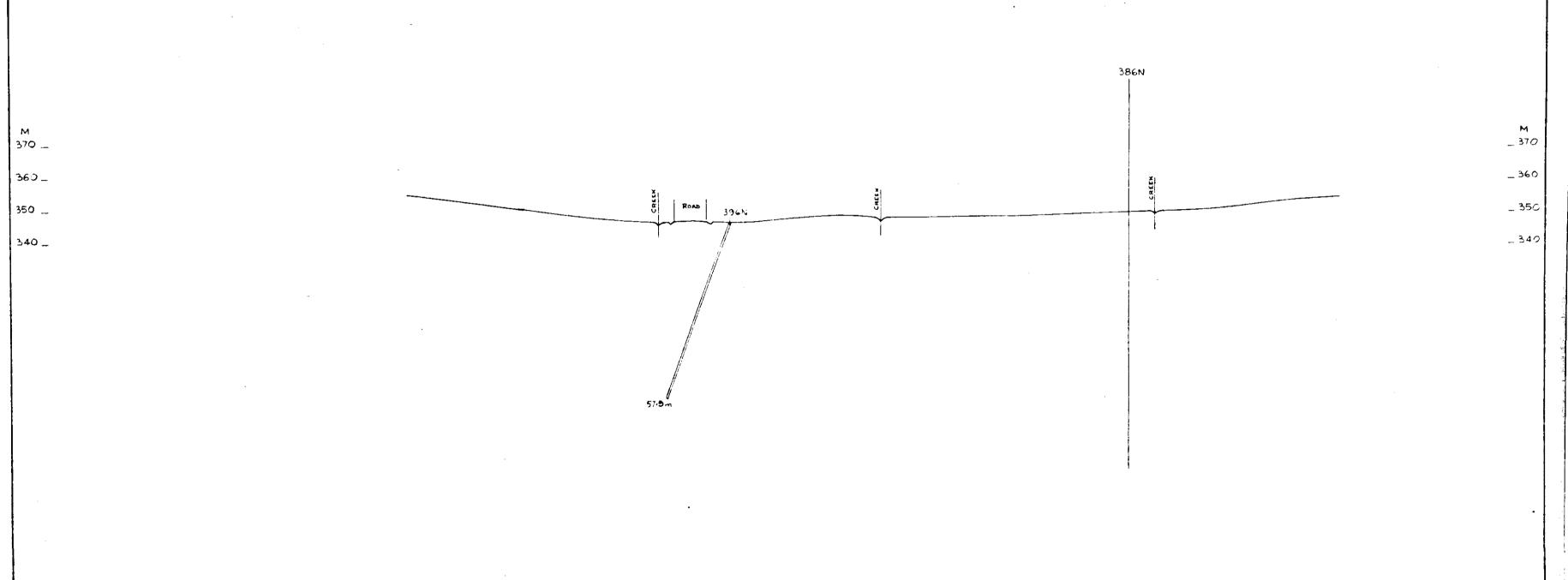
_ 350

_ 340

BOOLOGROO - PROFILE 344E

м 370 _

350_



BOOLOOROO - PROFILE 340E

360 - 350 - 340 - 373/3m

1272(2)-2

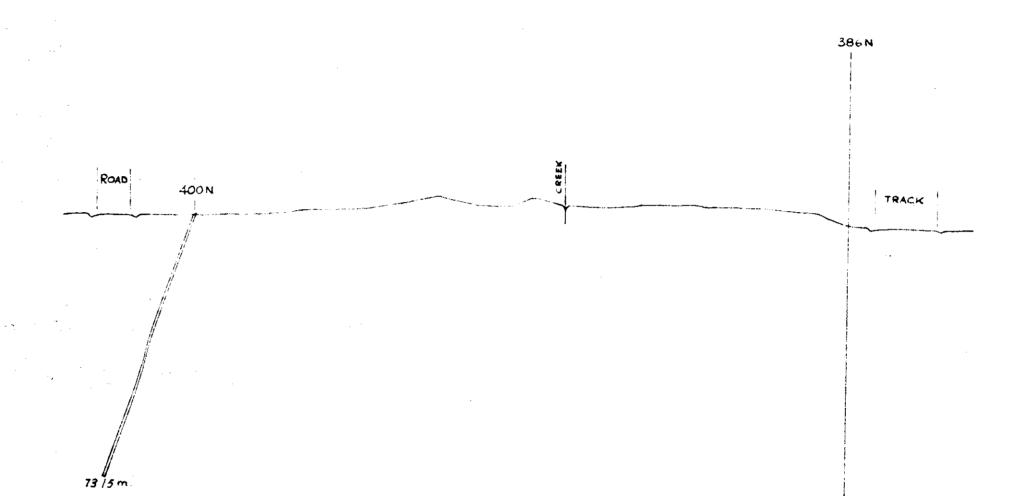
_370

_360

_350

_ 340

BOOLOGROO - PROFILE 396E



1272(2) 28

м _370

_360

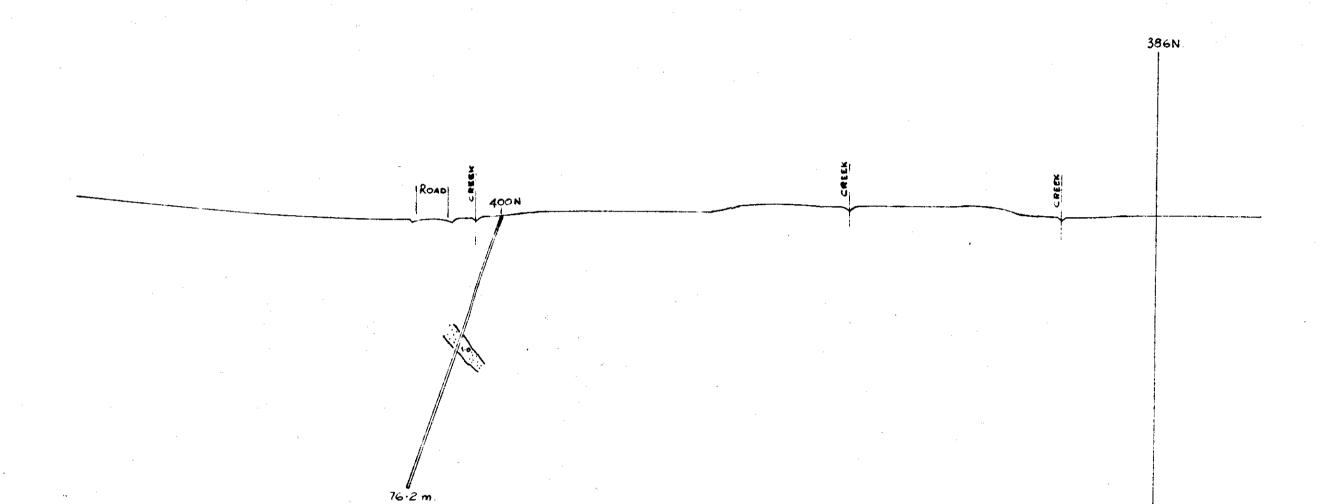
_350

_340

M 370 _

360 _

350 _



1272(2)

M _370

_360

_350

_340

Scale 1 1000

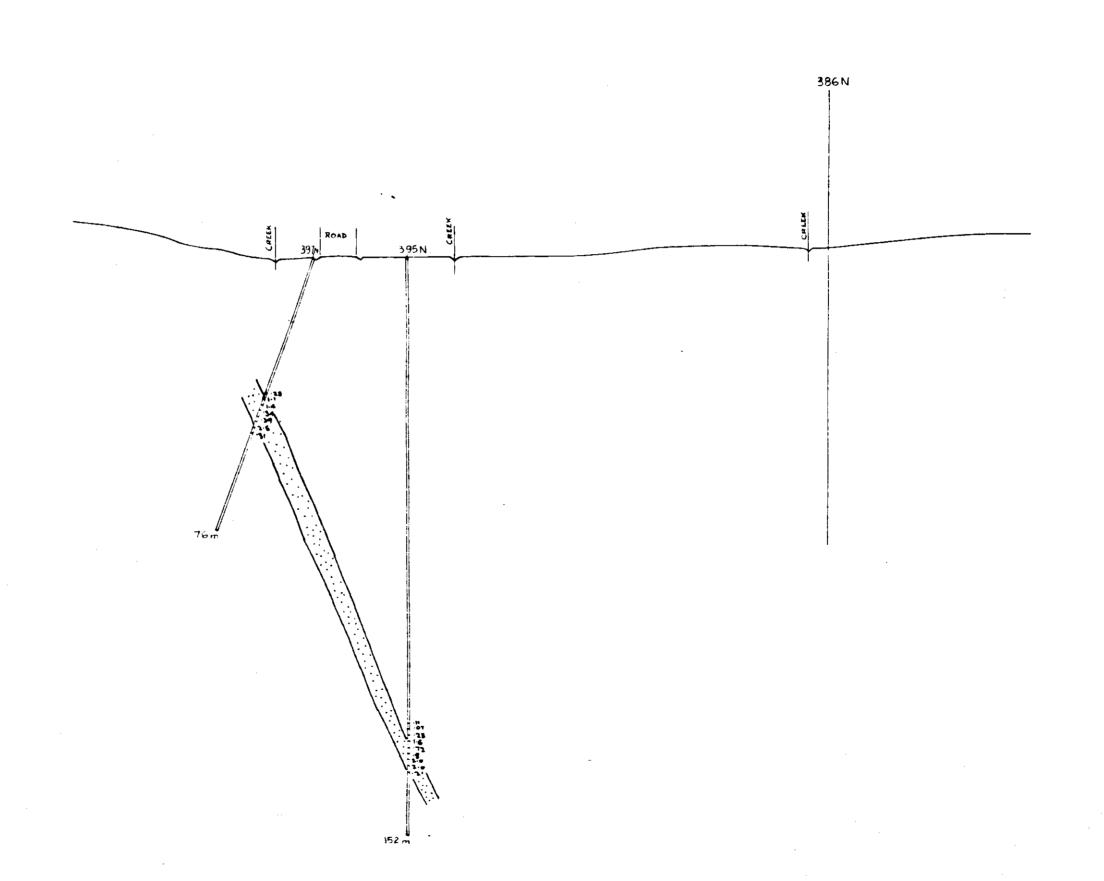
M 370 _

360 _

350 _

340_ |

ELSIE ADAIR - PROFILE 388E



_ 360

_ 370

_ 350

_ 340

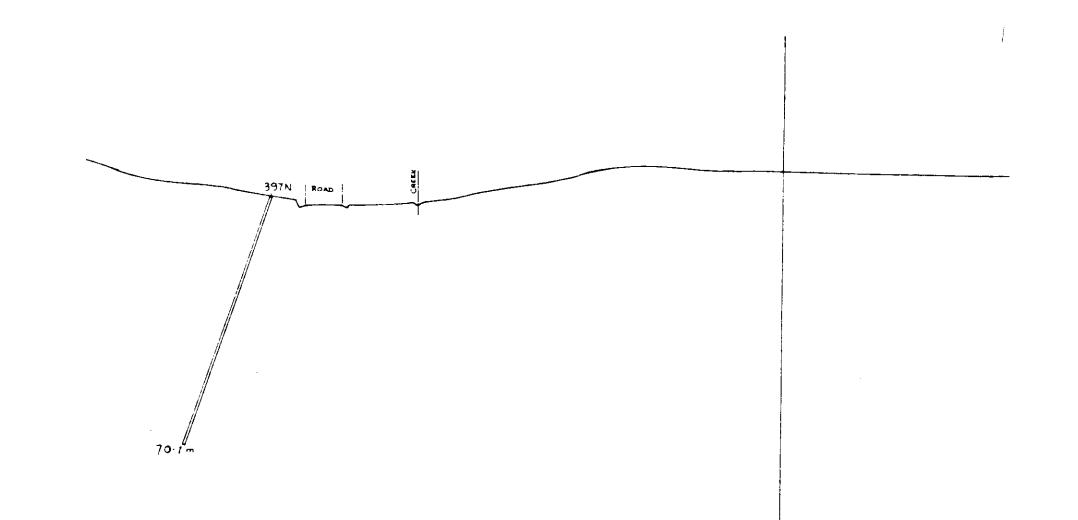
1272(2)-24

BOOLOOROO - PROFILE 336E

M 370 _

360 _

350 _



_ 340

Scale 1:1,000

M 370 _

360 _

350 ...

340_

BOOLOOROO - PROFILE 332E

396N

м 370 _—

360 _

340 _

1272(2)-26

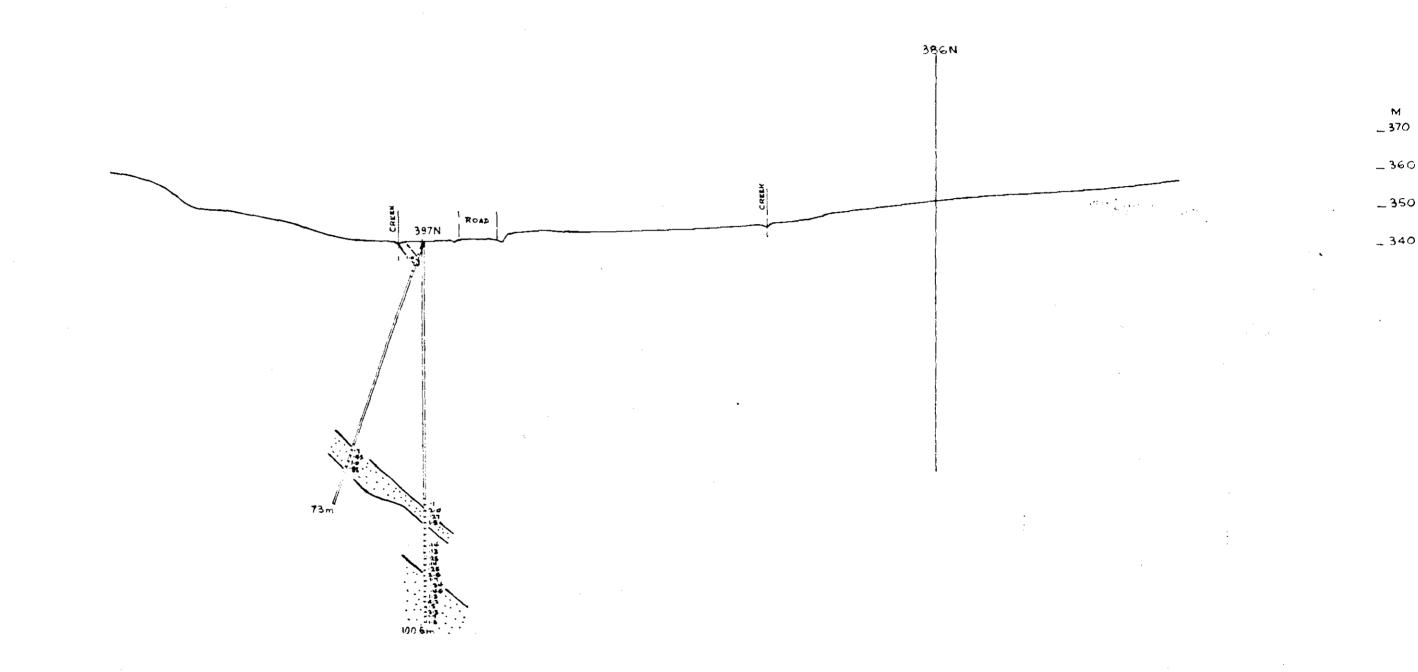
м _ 370

_ 360

_ 350

_ 340

BOOLOOROO - PROFILE 328

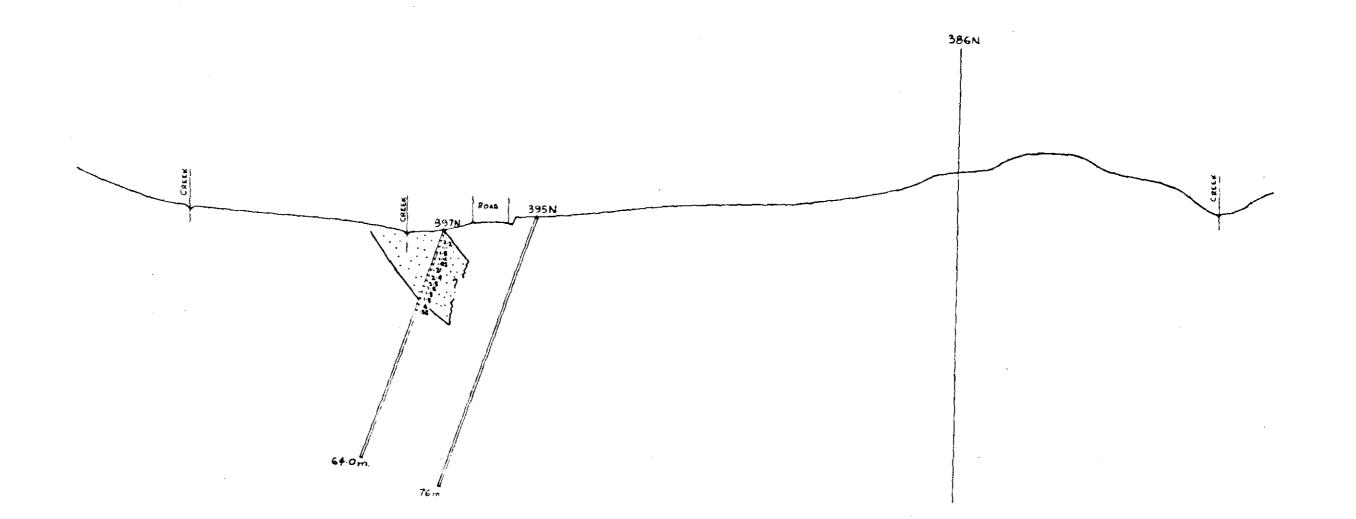


BOOLOOROO - PROFILE 324E

M 370 _

360 _

350 _



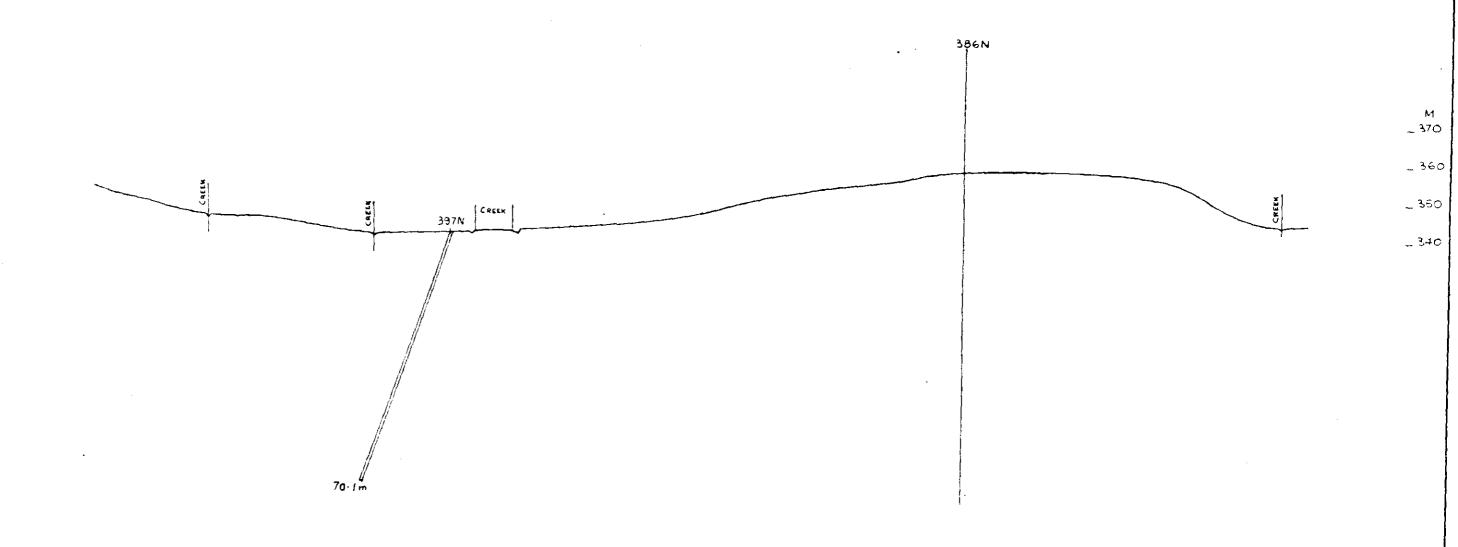
Scale 1:1000

360 <u></u>

350_

340_

1272(2)-28 BOOLOOROO - PROFILE 320E



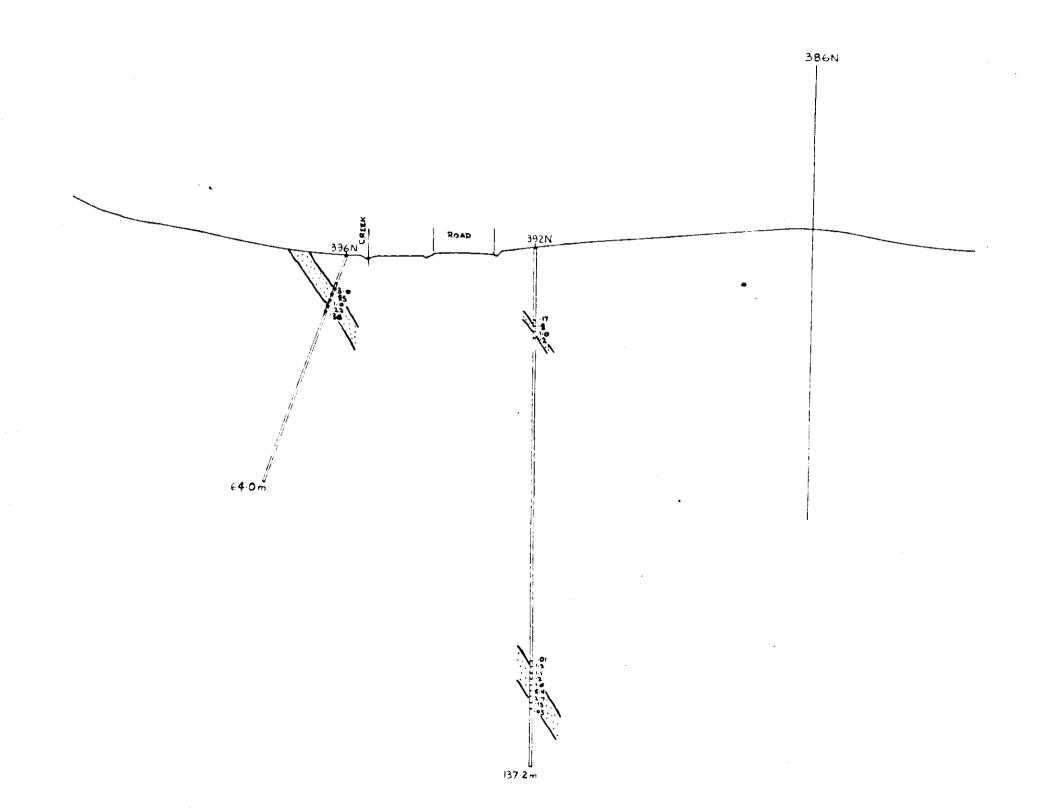
370 _

360_

350 _

340_

1272 (2)-29 BOOLOOROO - PROFILE 316E



_ 350

_ 340

BOOLOOROO - PROFILE 312E

M 370 _

360 _

350_

394N Road

1272(2)-31 BOOLOOROO - PROFILE 308E

M 370 _

360_

350 _

386N Should be said N 392 N

_ 370 _ 360

_ 350

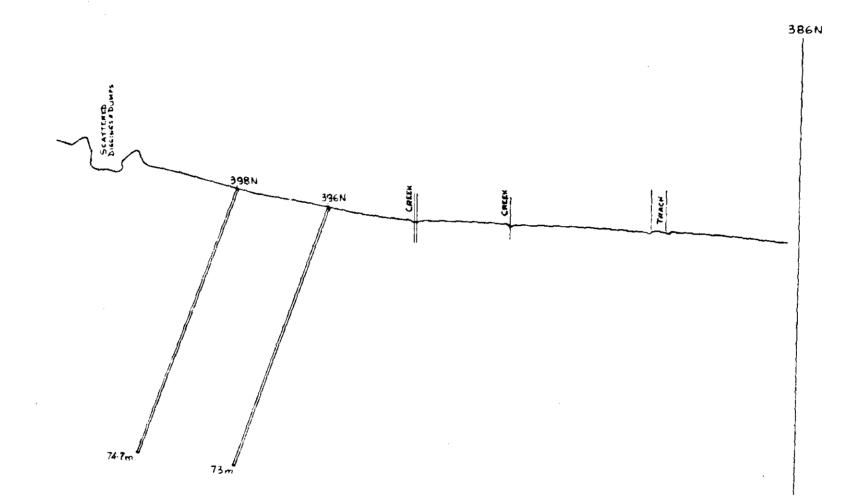
_340

1272 (2)-32 BOOLOOROO - PROFILE 304 E

M 370 _

360 _

350 _



Scale 1:1000

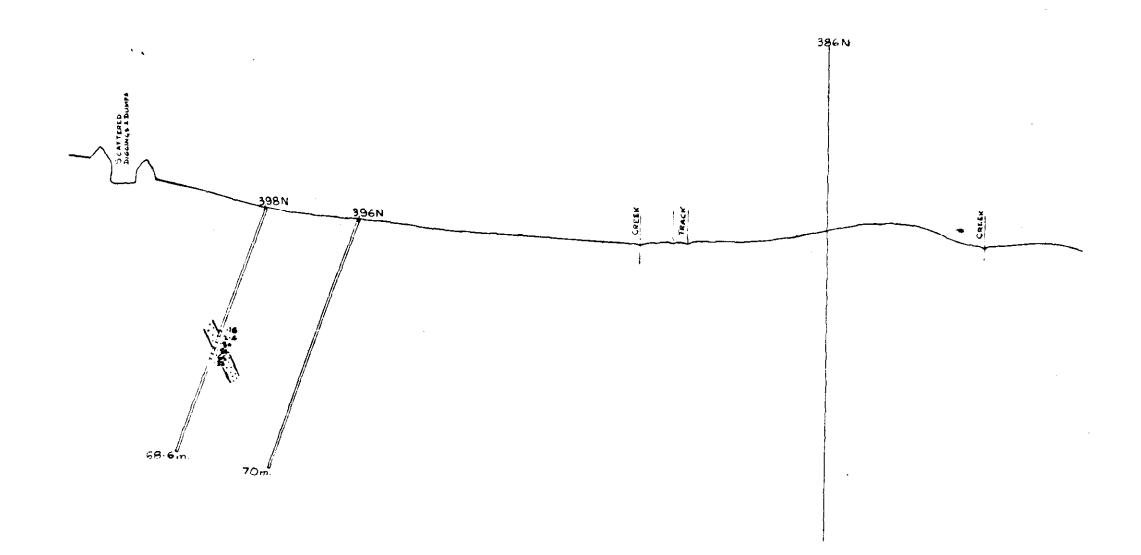
M 370 _

350 _

340_

1272(2)-33 BOOLOOROO - PROFILE 300E

_ 360



Scale 1:1000

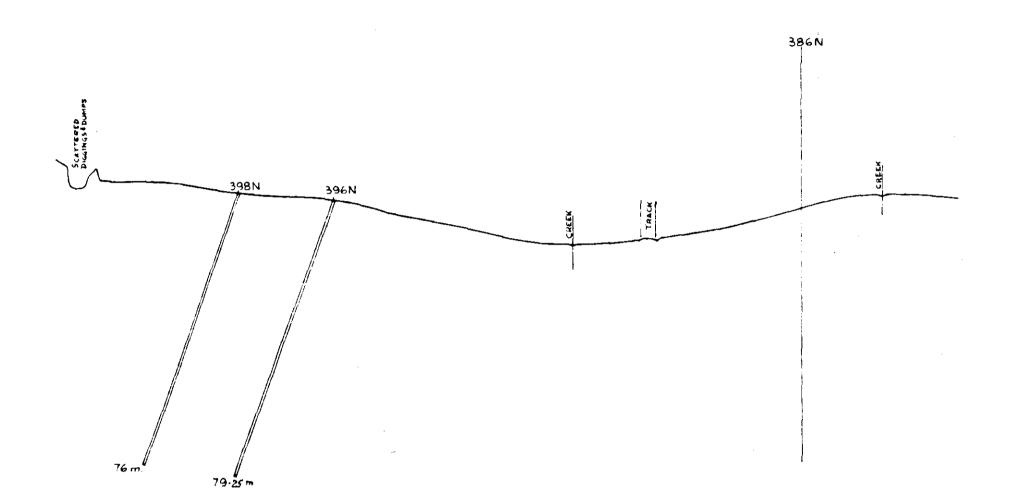
370 _

360 <u> </u>

350 _

340_

1272(2)-34 BOOLOOROO - PROFILE 296 E



1272(2)-55 BOOLOOROO - PROFILE 292E

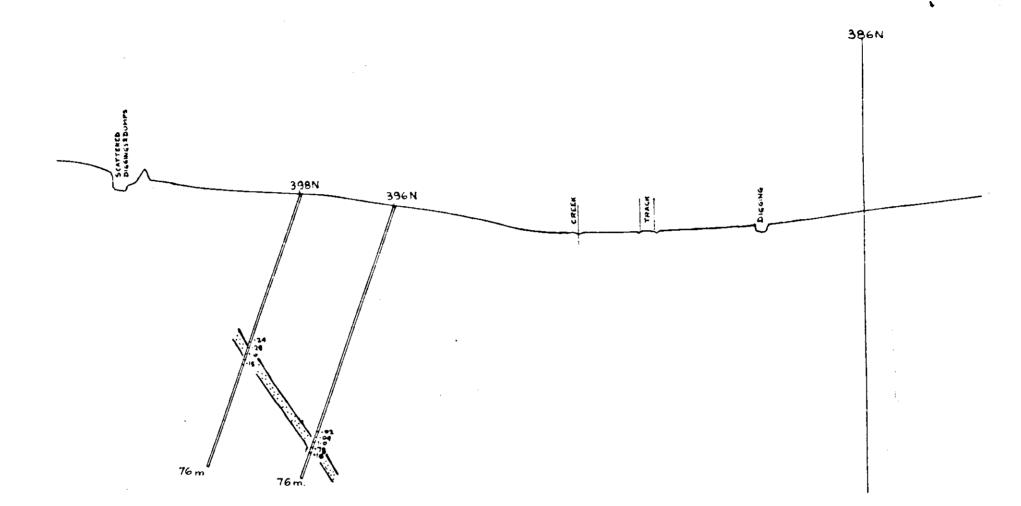
_ 360

_350

_ 340

360 _

350 _

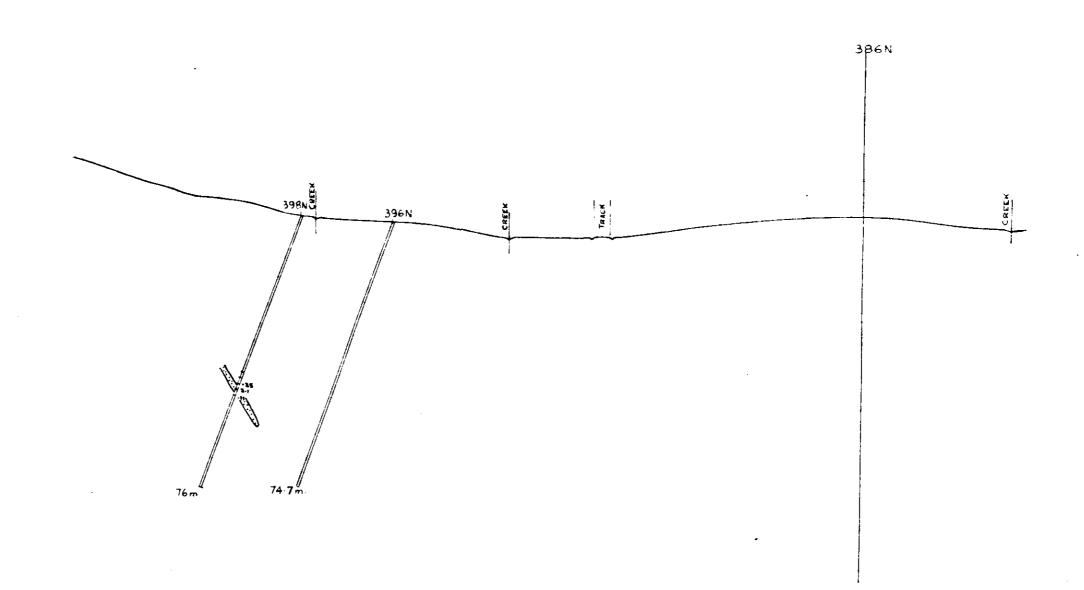


1272

1272(2)-36

BOOLOOROO - PROFILE 288

M 370 _



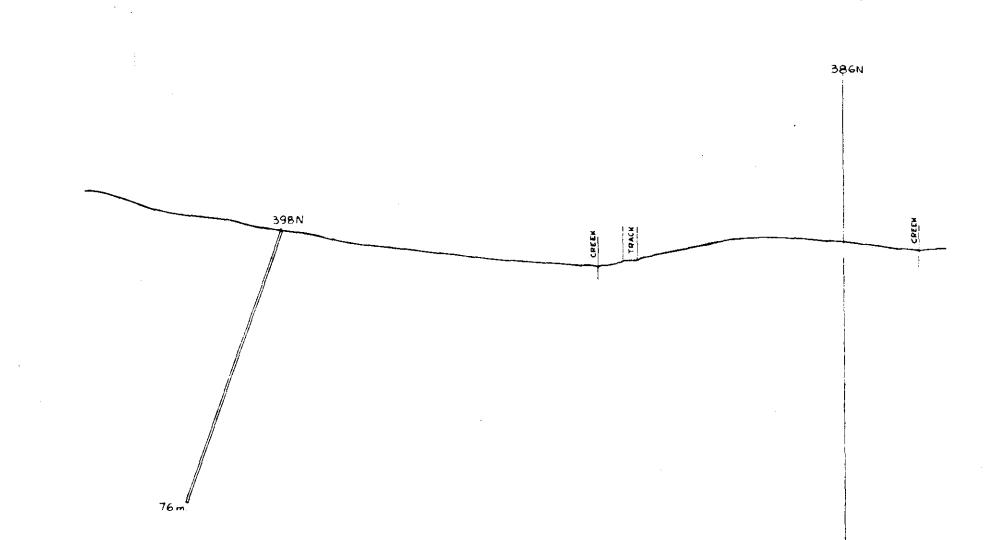
1272(2)-37 BOOLOOROO - PROFILE 284E

Scale 1:1,000

М 37**0** _

360_

35Q <u></u>



M 370 _

360 _

340 <u> </u>

Scale 1:1,000

1272(2)-38

BOOLOOROO - PROFILE 280E

396N Yes

M _370

386N

_ 560

_ 350

_ 340

1272(2)-39

Scale 1:1,000

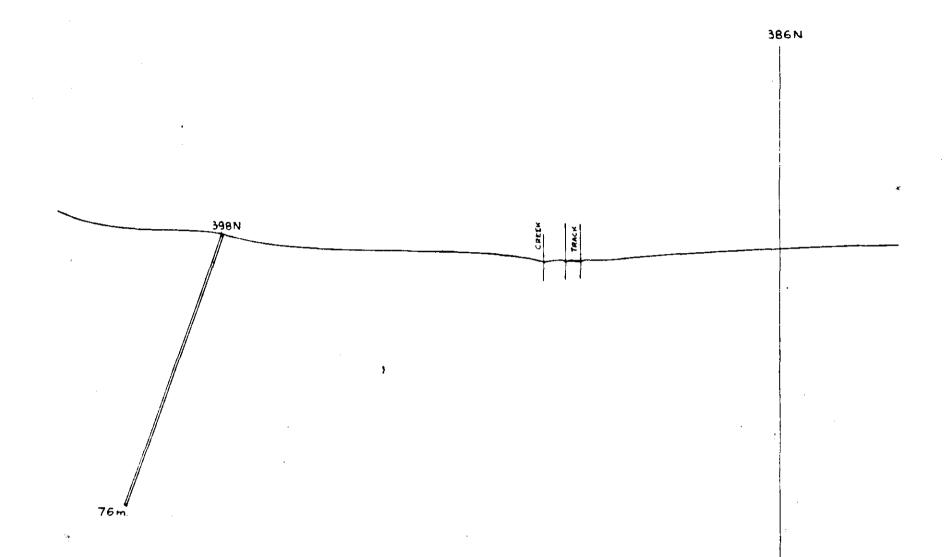
M 370 _

360 _

350 _

340 _

BOOLOOROO - PROFILE 276 E



127265-40
BOOLOOROO - PROFILE 272E

_ 340

Scale 1:1,000

M 370 _

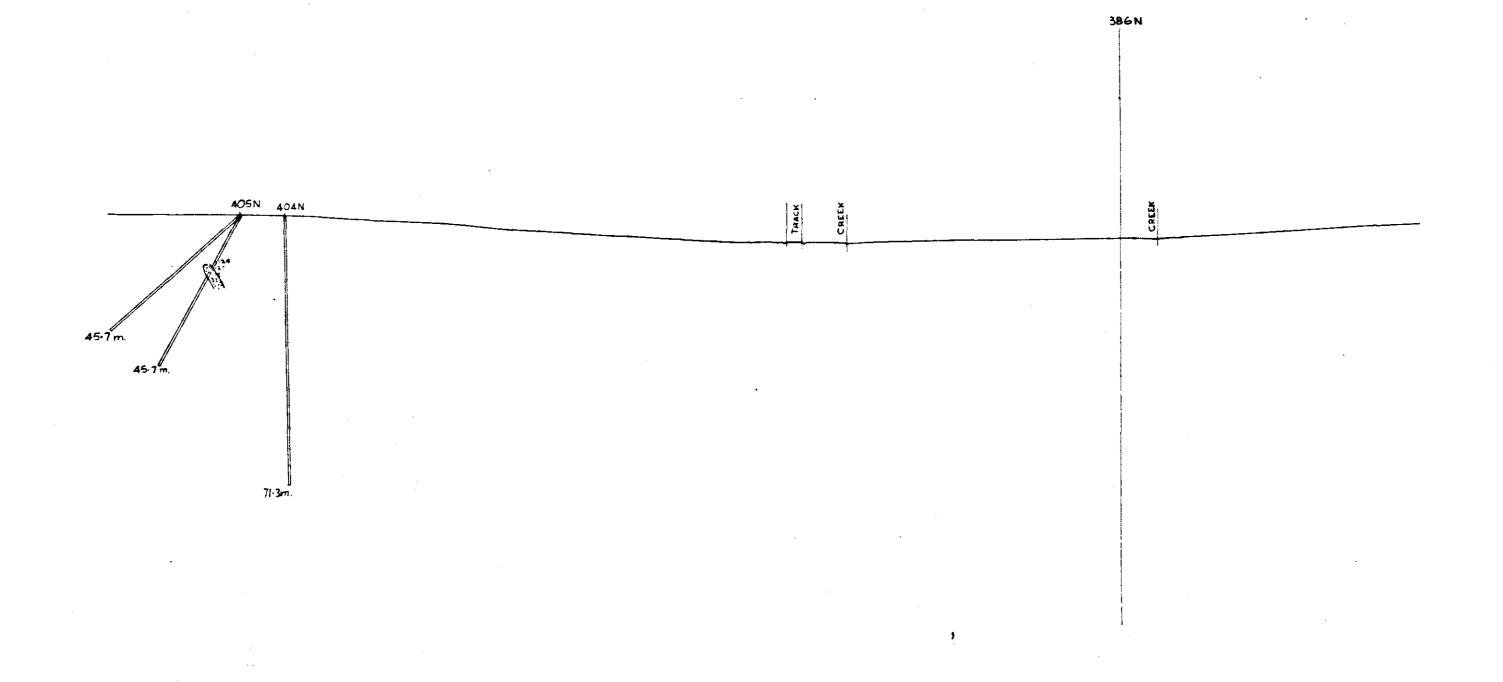
360 _

350 _

1272(2)-41

386 N

Scale 1:1,000



M _370

_ 360

_ 350

BOOLOOROO - PROFILE 264 E

M 370 _

360 _

350 _

AQ6N AQ4N 36-5m

1272(2)-43 BOOLOOROO-PROFILE 260E

M _ 370

_360

_ 350

340

54.9 m.

M 370_

360

350_