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				Registrar
Received				4 MAY 1982
Issued				E & IL
DEPT. OF MINES				
REF. No: 32/2/82				

PROJECT NAME: COMSTAFF PROPRIETARY LIMITED

TITLE: QUARTERLY REPORT TO THE DEPARTMENT OF MINES, TASMANIA
FOR THE PERIOD 1ST JANUARY TO 31ST MARCH 1982

EXPLORATION LICENCE 5/63

AREA NAME/S, STATE 1: 250,000 SHEET NO/S & COORDINATES: Burnie K55-3 and Queenstown K55-5 Sheets

COMMODITY/IES: Sn, Cu, Pb, Zn, Ag, W

TEXT PAGES NO: 8

PLAN NOS: TAS 2/1897, 1799, 1800, 1801, 1802

TABLE NOS:

APPENDICES: 1

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DATE: 7th April 1982

AUSTRALIAN ANGLO AMERICAN LIMITED

Incorporated in the State of Victoria

COMSTAFF PROPRIETARY LIMITEDQUARTERLY REPORT TO THE DEPARTMENT OF MINES, TASMANIAFOR THE PERIOD 1ST JANUARY TO 31ST MARCH 1982EXPLORATION LICENCE 5/631. SECTION 1 ARTHUR RIVER (Plan TAS 2/1897)1.1 Geology

A geological compilation of this section of the E.L. has been completed at a scale of 1:10,000 based on this summer season's field work, previous mapping by Comstaff geologists along with mapping carried out by P.R. Williams of the Geological Survey.

Partly deformed rock units of the ?Proterozoic Bischoff Series have been traced into Deep Gully Creek. They comprise carbonaceous shales, argillaceous quartzites and quartzites. This sequence is overlain by the Crimson Creek Formation which is comprised of an interbedded sequence of argillites/mudstones, tuffaceous lithic wackes, cherts, siltstones and sandstones along with concordant bodies of basic igneous rocks.

Dykes of quartz porphyry intrude both Bischoff and Crimson Creek lithologies in Deep Gully Creek. These occur along strike from the Mount Bischoff porphyries with which they have petrological affinities. There is evidence from heavy concentrate sampling results that tin mineralisation is associated with these porphyries.

1.2 Geochemistry

The planned creek sediment sampling programme was completed on schedule. All results have now been received, plotted and studied.

Heavy concentrate sample values expressed as $\text{g m}^{-3} \text{SnO}_2$, progressively increase upstream in Deep Gully Creek with significant results between 5200 and 6800m above which the values drop away. This section of the creek straddles the contact between the Bischoff Series and the Crimson Creek Formation, and includes the porphyry dykes.

1.3 Geophysics

A fixed wing aeromagnetic survey has been carried out along the Magnet-Bischoff trend line. The flight line spacing was 150m. A series of traverses were also carried out over Mt. Bischoff to allow for the integration of previous surveys. Results will be presented on a scale of 1:10,000 and should be available in the near future.

2. SECTION 2 RAMSAY (Plan TAS 2/1799)

2.1 Diamond drilling

Six diamond drill holes totalling 953.7m were completed in the Ramsay Section. Three holes, CAF 3, 5 and 7, were drilled into the main skarn zone; two holes, CAF 4 and 6, were drilled to test geophysical anomalies in sediments east of the skarn and one hole, CAL 1, was drilled to test an Input anomaly north of Mt. Ramsay. Summary logs of the drilling are presented as Appendix I, assay data are not yet available.

2.2 Geology

Geological mapping was carried out over extensions to the Mt. Ramsay (CAF) grid. The main skarn zone is abruptly terminated south of line 4220N, it may be displaced to a greater depth and/or laterally. A second zone of skarn alteration has been mapped east of the main skarn over a strike length of 350m. Generally the rock sequence on the southern grid extensions comprises hornfelsed lithic sandstones, siltstones and argillites with intercalated basalts.

2.3 Geochemistry

Soil sample values over the new grid lines at CAF, CAI, CAG and CAM are not strongly anomalous except over the skarn altered units at CAF. Most analytical data are now to hand and have been plotted on plan and section, statistically processed and contoured. Drill core has been split over sections of mineralisation and the remainder geochemically sampled by grinding.

2.4 Geophysics

Pulse Electromagnetic (PEM) surveys were carried out over grid lines at CAF, CAI, CAG and CAM. Five principal conductors have been located at CAF, three of which had been originally detected in the crone shootback (CEM) programme. Two of the conductors have been tested by diamond drilling and the responses found to be due to pyrrhotite mineralisation in skarn.

One conductor has been found to occur on grid CAI which is open to the north. The long strike length is indicative of a formational source. No conductors have been found at CAG, and no further work is recommended there. An interesting conductor occurs at CAM of about 300m in strike length.

Check CEM surveys and ground magnetic surveys have also been carried out on these grids. The magnetite and pyrrhotite mineralisation in the skarns give rise to strong responses, which correlate well with the PEM and CEM anomalies. An airborne magnetic survey has been carried out over the entire southern portion of the tenement from the Meredith Granite in the west across to the Dundas Group sediments in the east. Results of this survey have not yet been received.

3. SECTION 3 MOUNT BLOCK - SOCK CREEK (Plan TAS 2/1800)

3.1 Geology

The geology mapped over Mount Block comprises a complex succession of acid to intermediate volcanic pyroclastics and lavas. A small sedimentary tuffaceous siltstone unit with fine grained banded pyrite was found in Farm Creek between 5830-5850m. This siltstone was the only sedimentary rock recognised from field observation.

The most common rock type is massive rhyodacite, distinctive by its pink colouration and infilled chloritic fractures. A moderately porphyritic rock, it has quartz and feldspar phenocrysts in a very fine grained matrix, is very hard, extensively and randomly jointed and exhibits no orientation flow features in hand specimen.

Interbedded with the rhyodacites are pyroclastic units of varying thickness and texture, from very fine ash tuffs, fine grained quartz-feldspar crystal tuffs to coarser crystal tuffs and crystal lithic lapilli tuffs. Pyroclastic breccias have also been noted in several areas, comprising angular clasts of cream-pink rhyodacite set into a finer Fe enriched matrix. On Steve's Road it is fairly coarse but becomes finer to the south i.e. Fork Creek, suggesting greater distance from a vent area. Andesitic units, associated with rusty brown weathering characteristics and Fe enriched clayey soils are quite distinctive from the rhyodacites and quartz feldspar tuffs which produce a leached pale surface. Most commonly as tuffaceous dykes and flows, andesites occur in alternating sequence with rhyodacite between 2652-2780m on Mount Block Road and as small isolated units toward Animal Creek. They are quite common along Steve's Road with relatively thick sequences exposed between 1260-1380m and 2877-3155m, and have also been found in Farm and Animal Creeks.

3.2 Geochemistry

Results of stream sediment sampling are generally low in value. There are no anomalous values in the Animal Creek system, a slight Cu anomaly occurs in Farm Creek however the value is very low with no corresponding Pb or Zn anomaly. There is nothing in the geochemistry to suggest these areas are particularly prospective and the surface geology mapped tends to support this.

More interesting results occur in the Tullabadine area. Although values are still low, Bonnie Lass Creek indicates coincident anomalous values in Cu, Pb and Zn in both -80 and -20#, and records one of the few Au detections over the entire Mount Block area.

Previous geochemical sampling in the Tullabadine area picked up anomalous values, for example Zn - 8000 ppm and a grid was started but never completed. Old flags found suggest this grid was situated on fairly swampy ground which would have affected results and there was no analysis for Pb. Bonnie Lass Creek results are therefore possibly closer to a source of mineralisation, however the terrain makes access and sampling difficult with drainage systems difficult to define.

A high Cu value occurs at the last sample point up stream on Fork Creek and Cu values are generally higher than normal for Mount Block, however no coincident Pb, Zn values occur, in fact Pb values are particularly low.

Ag is below detection limit or of extreme low value over the entire area sampled. Sn values are certainly below consideration and Au is generally below detection limit although insufficient sample prevented analysis of many sample points.

4. SECTION 4 CHESTER - PINNACLES (Plan TAS 2/1801)

4.1 Geology

A programme of geological mapping and sediment sampling is continuing over the eastern sector of the area. Roads, tracks and creeks are being mapped along with the HEC Transmission line.

West of the Murchison Highway much of the relief is low lying and swampy, outcrop is scarce and discontinuous with extensive glacial till, however outcrop on the Pieman Road gives good indication of geology in the area.

Unreasonable Creek, east of the Highway has extensive outcrop of intermediate volcanic's predominantly fine grained andesitic tuffs, often containing fine grained disseminated pyrite mineralisation and with extensive quartz veining at intervals up the length of creek mapped. Several rock samples have been sent for thin section analysis. Very rugged terrain makes access into this area difficult.

4.2 Geochemistry

Sediment sampling of the various creeks in the area is in progress. No geochemical results are available as yet.

5. SECTION 5 HUSKISSON

No work was carried out in this section of the tenement during the quarter.

6. SECTION 6 EAST RENISON (Plan TAS 2/1802)

6.1 Work Completed

6.1.1 Diamond Drilling

GAR Grid

No drilling was undertaken during the period. Outstanding core logging was completed.

6.1.2 Geochemistry, Grid Line Cutting and Surveying

GAP and GAT Grid Areas

19 line kilometres were cut, flagged, surveyed and soil auger sampled.

6.1.3 Geophysics

GAR Grid South

A SIROTEM down the hole survey was completed on RBE 28. Two 12m loops were surveyed from 395-20m.

GAP and GAT Grid Areas

The ground magnetic survey was completed over the freshly cut 19 kilometres of grid lines.

6.1.4 Geology

GAP and GAT Grid Areas

17 of the 19 new fill in line kilometres were mapped in detail. Inspection of the rock chips in the soil samples augmented the mapping.

6.1.5 Photogeology

GAP, GAT, GAR Grid Areas

A photo geological interpretation and report was completed.

6.1.6 Data Compilation

GAP, GAT, GAR Grid Areas

The six monthly report to 30.12.81 was compiled.

6.2 Results Achieved

6.2.1 GAR Grid North

Complete base metal and the results (weighted average) for drill holes. RBE 29, 30, 31 and 32 are tabulated below.

RBE 29

A tin value of 0.66% was returned over a drilled width of 0.30m associated with a vein and disseminations of pyrrhotite/pyrite in carbonated gabbro.

Other tin values ranging from 0.11 - 0.25% are associated with discrete quartz pyrrhotite, chalcopyrite veins or weak quartz vein stock works of the same which attain a maximum drilled width of 1.20 metres. There are no vein zone concentrations at the level drilled which constitute an on going target tin quartz vein stockwork zone. As seen frequently in other drill holes of the GAR area, there is a weak tin concentration at a gabbro/sediment contact.

Hole No	Internal Metres	Drilled Width (m)	True Width (m)	Pb %	Zn %	Ag ppm	Cu %	Sn ppm/%	Lithology/Association
RBE 30	82.45 - 85.00	2.55	1.50	0.68	3.15	24	0.06	688 ppm	Quartz carbonate vein flanked by sediments.
	88.40 - 92.80	4.40	2.97	1.04	3.35	110	0.36	803 ppm	Quartz pyrrhotite, arsenopyrite vein (massive) with later phase Qtz carb vein plus lead/zinc. Sediment flanked.
	96.20 - 98.65	2.45	1.08	0.95	1.69	51	0.16	470 ppm	Mixed quartz pyrrhotite, quartz carbonate lead/zinc vein as above.
	98.65 - 99.70	1.05	-	0.08	0.08	41	0.89	0.29%	Quartz and quartz/carbonate vein plus Po/Py/Cp/Aspy
	111.60 - 112.0	0.40	-	0.10	0.06	57	0.73	0.16%	Mixed sediments with minor Qtz/carbonate veins with Po/Py/Cp.
	130.70 - 132.70	2.0	-	0.03	0.01	2.8	0.23	0.23%	Massive white vein Qtz stoping Qtz/carb vein at Gabbro contact.
	145.40 - 145.95	0.55	-	0.09	0.28	30	1.15	0.28%	Quartz arsenopyrite chalcopyrite vein.
	153.52 - 156.25	2.73	-	0.02	0.64	39	1.87	0.04%	Qtz/carb vein breccia and massive Aspy/Cp vein.
RBE 31	114.55 - 118.0	3.45	1.45	2.25	1.37	42	0.04	915 ppm	Qtz/carb vein partially stoped by late phase vein Qtz. Sediment flanked.
	135.55 - 138.55	3.0	-	0.07	0.30	23	0.78	0.20%	Semi massive pyrrhotite, pyrite (Aspy/Cp) replacing talc carbonate
	137.55 - 139.75	2.20	1.41	0.04	0.12	35	1.48	0.13%	Semi massive pyrrhotite, pyrite (Aspy, Cp) replacing talc carbonate.
	171.40 - 173.30	1.90	1.34	0.55	0.71	81	0.01	124 ppm	Qtz/carb vein with cocks comb texture - stoped by late phase massive vein quartz. Sediment flanked.
RBE 32	355.60 - 356.35	0.65	-	0.26	0.62	14	0.06	0.27%	Qtz/carb vein stockwork stoped by later quartz veins.
	357.15 - 358.30	1.15	0.73	0.22	1.15	40	0.08	146 ppm	- - - - - As above - - - - - Sediment flanked.
	488.90 - 489.70	0.80	0.40	0.03	0.10	-	0.03	0.99%	Mixed white vein quartz and yellowish Qtz/carb veins on western contact of gabbro dyke. Down dip expression of tin zone in RBE 25.

7.

6.2.2 GeochemistryGAP and GAT Grid Areas

Results are outstanding.

6.2.3 GeophysicsGAR Grid South

SIROTEM results indicate responses due to conductive bodies at 207m, 235m, 285m and 310m. The significance of these various conductors is being appraised.

GAP and GAT Grid Areas

The new magnetic field data are being compiled.

6.2.4 GeologyGAP and GAT Grid Areas

Surface quartz carbonate vein debris containing galena associated with possible talc carbonate was located on the GAP grid and it would appear to form a westerly faulted southern continuation of the GAR Fentons structure.

6.2.5 PhotogeologyGAP, GAT, GAR Grid Areas

The major probable fault components of the area were defined. The principle fault structures are:-

Basset Federal
Ring River
Cole-Ring
Colebrook
Fentons

They form a series of sub-parallel north to north west trending (340°) sutures with interconnecting cross faults forming a series of block faulted units.

6.3 Forecast

- 6.3.1 Further infill line cutting, soil sampling, ground magnetics and geological mapping in the GAP and GAR South grid areas.

Further diamond drilling along the northerly strike extension of the GAR Fentons structure towards the Pieman River.

Infill drilling between RBE 7 and RBE 14.



for

G F Pigott, Senior Geologist
B E Anderson, Geologist
N P Green, Geologist
S R Yardley, Senior Geologist
J D Crimeen, Geologist

Approved by



R J Kernick
Exploration Manager

A P P E N D I X 1

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DRILLHOLE LOG

Summary Sheet

PROJECT Ramsay	AREA CAF GRID	DRILLHOLE TYPE
CO-ORDS 371306 N E 5395079 m N	DECLIN 70°	AZIMUTH 264° MN RL
DATE COMMENCED 8/1/82	DATE COMPLETED 11/1/82	DRILLED BY LONGYEAR
DRILL RIG LONGYEAR 3E	Non Coring to: 3.00m	HQ Core to: 21.00m
BQ Core to: 63.00m	EOH 63.00m	

SURVEY DATA

Instrumentation

DEPTH	DECLINATION		AZIMUTH	DEPTH	DECLINATION		AZIMUTH
	Uncorr	Corr			Uncorr	Corr	
0		70°	264° Mag.				
30m		69.5°	271° Mag.				
59.5m		68°	286.5° "				

LOG SUMMARY

ROCK TYPE	MINERALIZATION		
	Style	Grade	Intersection width (Corr)
0-3m Triconed (Horizontal) Sediments			
3-7.2m Ferrihastingsite skarn & minor calc-silicate replaced pelitic ls	Disc & Band Mt 5%, Vein Py 1%	6%	
7.2-9.9m Med. disequilibrium lab xtaline leucocranite & skarn xenolith			
9.9-10.5m Plagioclasic Ferrihastingsite Skarn	Banded & disc Mt 15% Potr	15%	
10.5-15.4m Banded Vesuvianite-Diopside-Ferrihastingsite-Magnetite skarn	Banded & disc Mt 15%, Vein Po tr	15%	
15.4-18.2m Banded Palagonite or pelitic ls & calc-silicate all sorts	Diss. Po & f. vein Po	tr	
18.2-19.3m Fine equicrystalline biotite granite			
19.3-21.9m Patchworked Ferrihastingsite-Mt skarn	Banded mass Mt 15%, Vein Patch Hb Py 2%	17%	
21.9-26.0m Patchworked Vesuvianite-Diopside-Ferrihastingsite-Mt skarn	Patch tr. Mt 5%, patch Py 1% Py rim-Co-tr f. diss Po tr	6%	
26.0-31.7m Interlayered ls. Siderite calc-silicate replaced rocks	Diss & Vein Po - 3%, Vein Py - 1%	4%	
31.7-31.9m Fine xtaline eq biotite granite			
31.9-42.6m Interbedded ls. Sediments	Vein f. disc Po - 2%, Vein Py-tr	2%	
42.6-53.2m Intercalated ls. Sediments & minor spotted ls	" " - 1% " "	1%	
53.2-57.3m Sl. Differentiated semi-porph. biotite granite	Vein To & qz	tr	
57.3-63.0m Porphyritic biotite granite			

AUSTRALIAN ANGLO AMERICAN LIMITED
DRILLHOLE LOG

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Summary Sheet

PROJECT <u>Ramsay</u>	AREA <u>CAF Grid</u>	DRILLHOLE TYPE <u>DDH</u>
CO-ORDS <u>371616.74 m E</u> <u>5395042.96 m N</u>	DECLIN <u>-45°</u>	AZIMUTH <u>076° TN</u> RL <u>680.7</u>
DATE COMMENCED <u>13/1/82</u>	DATE COMPLETED <u>30/1/82</u>	DRILLED BY <u>Longyear</u>
on Coring to: <u>1.4 m</u> HQ Core to: <u>—</u>		DRILL RIG <u>Longyear 38</u>
NQ Core to: <u>21.0 m</u>		BQ Core to: <u>150.8 m EOH 150.8 m</u>

SURVEY DATA

Instrument:

DEPTH	DECLINATION		AZIMUTH	DEPTH	DECLINATION		AZIMUTH
	Uncorr	Corr			Uncorr	Corr	
0 m		<u>-45°</u>	<u>078° MN</u>	<u>149.5 m</u>		<u>-43 3/4°</u>	<u>84.5° MN</u>
60 m		<u>-44°</u>	<u>87 1/2° "</u>				
0 m		<u>-43 3/4°</u>	<u>86 1/2° "</u>				
6.8 m		<u>-44 1/2°</u>	<u>85.5° "</u>				

LOG SUMMARY

ROCK TYPE (Metres)	MINERALIZATION		
	Style	Grade	Intersection width (Corr)
<u>-1.4 Triconed</u>			
<u>1.4-20.9 Intercalated altered tuff. (Hewade), s.s. and ar.</u>	<u>Po & Py v.f. veins</u> <u>Po - f. blebs, v^{ns}, Py - f^{ns}</u>	<u>tr</u> <u>5% @ base</u>	
<u>20.9-32.8 Hornfelsed sa. (Hewade?)</u>	<u>↓ ↓ ↓</u>	<u>↓</u>	
<u>32.8-43.7 Hornfelsed sediments</u>	<u>Po - f.v^{ns} patch ± tr Cpy, diss</u>	<u>3%</u>	
<u>43.7-85.3 Altered hornfelsed sediments</u>	<u>Po & Py - f^{ns}, Po - diss patch</u>	<u>2%</u>	
<u>85.3-101.2 Metasomatized " "</u>	<u>Po (& Py) - " , To - rare f. diss</u>	<u>1%</u>	
<u>101.2-106.1 Broken " " "</u>	<u>Py - v^{ns}, minor Po v^{ns}</u>	<u>3%</u>	
<u>106.1-108.0 Altered py. microgab?</u>	<u>Barron</u>	<u>0%</u>	
<u>108.0-111.5 Oxidised altered sediments</u>	<u>"</u>	<u>0%</u>	
<u>111.5-112.9 " py. g.?</u>	<u>"</u>	<u>0%</u>	
<u>112.9-120.6 " altered sediments</u>	<u>"</u>	<u>0%</u>	
<u>120.6-125.8 Altered hornfelsed "</u>	<u>Py - v^{ns} patch</u>	<u>3-2%</u>	
<u>125.8-127.4 Oxidised altered "</u>	<u>Barron</u>	<u>0%</u>	
<u>127.4-128.2 Altered sediments</u>	<u>Py - f. v^{ns}</u>	<u>tr</u>	
<u>128.2-129.9 Spotted biolite ho.</u>	<u>" "</u>	<u>tr</u>	
<u>129.9-134.4 Altered sediments</u>	<u>Py - patchy v^{ns}.</u>	<u>5%</u>	
<u>134.4-136.7 Oxidised altered "</u>	<u>Barron</u>	<u>0%</u>	
<u>136.7-140.4 Metasomatized hornfelsed sets</u>	<u>Py - f. v^{ns}, Po - diss.</u>	<u>tr</u>	
<u>140.4-141.4 Hornfelsed py. microgab.?</u>	<u>Aspy - f. patch, in v^{ns}</u>	<u>tr</u>	
<u>141.4-150.8 Metasomatized hornfelsed sediments</u>	<u>Py & Po f. v^{ns}.</u>	<u>tr</u>	

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DRILLHOLE LOG

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Summary Sheet

PROJECT **Ramsay** AREA **GRID CAF** DRILLHOLE TYPE **DDH**
 CO-ORDS **371405mE** **5394900mN** DECLIN **-55°** AZIMUTH **270° TN RL** DH No. **CAF 5**
 DATE COMMENCED **13/2/82** DATE COMPLETED **22/2/82** DRILLED BY **LONGYEAR** DRILL RIG **LONGYEAR 38**
 Non Coring to: **4.5m** HQ Core to: **N.A.** NQ Core to: **29.0m** BQ Core to: **182.8m** EOH **182.8m**

SURVEY DATA

Instrument:

DEPTH	DECLINATION		AZIMUTH	DEPTH	DECLINATION		AZIMUTH
	Uncorr	Corr			Uncorr	Corr	
0m		-55	258° M.N.	150m	Unacceptable	-51 3/4°	193° MN
30m	Unacceptable	-53 3/4°	191° M.N.	180m		-52°	258°
60m		-53 1/2°	251 1/2° M.N.				
90m	Unacceptable	-53°	316 1/2° M.N.				
120m		-52 1/2°	279 1/2°				

LOG SUMMARY

ROCK TYPE	MINERALIZATION		
	Style	Grade	Intersection width (Corr)
0-4.5 Triconed			
4.5-45.2 Altered hornfelsed Sediments	Py & Po - f. veining	tr	
45.2-68.5 Interbedded " & Pelitic Chert	Po - f. vms, rare f. diss & scattered f. patches & ch.	3%	
68.5-72.9 Pelitic Ho.	Po - f. vms, scattered f. patches, Cpy - tr. masses & P	7%	
72.9-99.7 Intercalated Skarn & Altered Pelitic Units	Po - diss & patchy & tr Cpy	5%	
99.7-109.1 Diopside - Vesuvianite - Ferrohastingsite Skarn	Po - scattered f. patches & tr Cpy	1%	
109.1-112.5 Diopside - Ferrohastingsite Skarn	" " "	1%	
112.5-124.5 Diopside - Vesuvianite - Ferrohastingsite Skarn	Po - " " "	2%	
124.5-128.0 Ferrohastingsite - Diopside Skarn	Po - f. veinlets & minor patchy	5%	
128.0-144.6 Altered (greisen, clay) Granite / Adamellite	Py - v.f. along frac Po - small clusters	tr	
144.6-174.3 Altered / Fresh Py Granite / Adamellite	As above	tr	
174.3-182.8 Altered (greisen, clay) Granite / Adamellite	As above	tr	

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DRILLHOLE LOG

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Summary Sheet

PROJECT	RAMSAY		AREA	CAF - South Extension Grid		DRILLHOLE TYPE	DDH
CO-ORDS	371671 E	5394540 N	DECLIN	- 45°	AZIMUTH	RL	DH No. CAF 6
DATE COMMENCED	23/2/82	DATE COMPLETED	27/2/82	DRILLED BY	LONGYEAR	DRILL RIG	longyear '38
Non Coring to:	3.50m	HQ Core to:	N.A.	NQ Core to:	30.0m	BQ Core to:	99.2m EOH 99.2m

SURVEY DATA Instruments:

DEPTH	DECLINATION		AZIMUTH	DEPTH	DECLINATION		AZIMUTH
	Uncorr	Corr.			Uncorr	Corr.	
0m		-45°	069° MN				
30m		-43 1/4°	066° MN				
60m		-42 3/4°	074 1/2° "				
99.2m		-42°	078 1/2° "				

LOG SUMMARY

ROCK TYPE	MINERALIZATION		
	Style	Grade	Intersection width (Corr)
0 - 3.5 Triconed			
3.5 - 10.7 Broken Sediments	Barren	0%	
10.7 - 22.9 Altered hornfelsed Sediments	Pg & Po assoc. ± alteration	tr	
22.9 - 26.9 Pyrrhotitic Interbedded Altered hornfelsed Sediments	Po - v.f. diss. & f. vms, Py along fracs, Cpy-tr assoc. ± Po	10%	
26.9 - 29.9 Diopside Pelitic Chert	Po - small patches, rare vms Py, Cpy, Te, Cs? - tr	10%	
29.9 - 43.1 Intercalated Altered Sediments & Pelitic Chert	Po - f. co. patches & diss & v.f. vms in Seds, Py, Cpy, Te, Cs?	10%	
43.1 - 46.8 Pelitic Chert	As above.	10%	
46.8 - 68.7 Altered hornfelsed Sediments	Po - Scattered f. patches & f. vms	1%	
68.7 - 76.1 Veined altered "	" " " " "	1%	
76.1 - 85.6 Altered Chert & Pelitic Seds	Po - " " " & diss. replacement	10%	
85.6 - 99.2 Pyrrhotitic - As above.	" " " "	12%	

DRILLHOLE LOG

Summary Sheet

PROJECT	Ramsay	AREA	CAF Grid - South Extension	DRILLHOLE TYPE	D.D.H
CO-ORDS	371490 m E 5394510 m N	DECLIN	-55°	AZIMUTH	251° MN RL
DATE COMMENCED	28/2/82	DATE COMPLETED	10/3/82	DRILLED BY	Longyear
				DRILL RIG	Longyear '38
Non Coring to:	10.8m	HQ Core to:	N.A.	NQ Core to:	42.70m
				BQ Core to:	230.5m EOH 230.50m

SURVEY DATA

Instrument:

DEPTH	DECLINATION		AZIMUTH	DEPTH	DECLINATION		AZIMUTH
	Uncorr	Corr			Uncorr	Corr	
0		-55°	251° M.N.	170 m		-53°	258.5° M.N
50 m		-53 3/4°	241.5° "	200 m		-52 3/4°	243° "
80 m	Unacceptable	-53 3/4°	229.5° "				
110 m	Unacceptable	-53°	293° "				
140 m		-52 3/4°	263° "				

LOG SUMMARY

ROCK TYPE	MINERALIZATION		
	Style	Grade	Intersection width (Corr)
0-10.8 Triconed			
10.8-23.7 Broken Weathered Sediments	Barren		
23.7-45.8 Sl. Altered Sediments	Pg - assoc. ± calc-sil-alt	tr	
45.8-49.3 Altered Pelitic Ho.	Po - f. diss. to parts, Pg-tr	tr	
49.3-56.3 Altered hornfelsed Sediments	Po - f. patches + rare diss. Pg-tr	3%	
56.3-65.2 Altered hornfelsed tuff. sa & Ch.	" " " " "	4%	
65.2-73.2 Altered Pelitic Ho	Po - f. diss + f. veinlets.	5%	
73.2-82.2 Altered ho. sa & Ch.	" " "	5%	
82.2-92.1 Intld. Pel. Ho. & Ch.	Po - f. veinlets // ± bdy + patch	10%	
92.1-97.0 Pyrobitic Bedded Pelitic Ho.	Po - diss. on bdy + patch, Pg-tr	12%	
97.0-163.6 Patchworked - Varying Concentrations of (in order of abundance)	Conc. - highly irregular Mt - f. xtaline masses Po - f-co. irreg. patches	15%	
- Diopside - Ferrostannite - Vesuvianite - Carbonate - Magnetite - Pyrrhotite - Garnet	Cpy - tr - 1% assoc ± Po v. rarely discrete		
163.6-173.0 Intercalated Pelitic Ho - highly sl. altered & Skarn (as above)	Po - f. veinlets + patches. Mt - few. f masses + Skarn	3%	
173.0-175.5 Altered f. Bd. ho. Pelitic Seds	Po - diss. (v.f.f) + v.f. veinlets	7%	
175.5-190.6 Altered hornfelsed Sediments	Po - f. veinlets.	2%	
190.6-198.8 Altered High Grade hornfelsed Sediments	" " "	tr	
198.8-204.9 Altered hornfelsed Sediments & Aplitic Dykes	Po - rare v.f. veinlets	tr	
204.9-215.1 Altered Differentiated Granitoid	Po - scattered f. grains	1%	
215.1-230.5 Fresh, Hd, Co. & equicrystalline Granitoid = Meredith Cap.	Qtz - To - Pg veins.	tr	

AUSTRALIAN ANGLO AMERICAN LIMITED
DRILLHOLE LOG

Page 1
of

Summary Sheet

PROJECT **Ramsay** AREA **CAL Grid** DRILLHOLE TYPE **DDH**
CO-ORDS **372675m E** **5396810m N** DECLIN **-45°** AZIMUTH **270° TN RL** DH No. **CAL I**
DATE COMMENCED **1/2/82** DATE COMPLETED **12/2/82** DRILLED BY **Longyear** DRILL RIG **Longyear 38**
Non Coring to: **6.0m** HQ Core to: **---** NQ Core to: **31.0m** BQ Core to: **207.4m** EOH **207.4m**

SURVEY DATA

Instrument:

DEPTH	DECLINATION		AZIMUTH	DEPTH	DECLINATION		AZIMUTH
	Uncorr	Corr			Uncorr	Corr	
0m		-45°	258° MN	135m		-42 3/4°	273 1/2° MN
45m		-45°	253° "	165m		-42 3/4°	254 1/2° "
75m		-44 1/2°	263° "	195m		-42 3/4°	260 1/2° "
25m		-43 1/2°	249° "	225m		-42 3/4°	254° "

LOG SUMMARY

(Metres)	ROCK TYPE	MINERALIZATION		
		Style	Grade	Intersection width (Corr)
-6 -	Triconed			
6.0 - 43.7	Metasomatised hornfels sediments	Py & Po - vein & diss.	5%	
43.7 - 94.2	Altered hornfelsed sediments	Po - vein, patch & diss, Py - patch	2%	
94.2 - 100.3	Hornfelsed sediments	Po - f. veinlets	tr	
100.3 - 112.8	Altered hornfelsed sediments	Po - " " patches ± tr Cpy	2%	
112.8 - 114.8	Spotted hornfels		0%	
114.8 - 123.6	Altered hornfelsed sediments	Po - f. irregular, discontinuous V's	tr	
123.6 - 129.4	Metasomatised " "	Po ± tr Cpy - patches, Py - trao V's	3%	
129.4 - 134.3	Altered " "	Po - veinlets & patches	1%	
134.3 - 144.7	Hornfelsed sediments	Po - " "	tr	
144.7 - 157.5	Fractured hornfelsed sediments	" " "	"	
157.5 - 184.9	Metasomatised " "	Po - veinlets & diss.	1%	
184.9 - 200.6		Py - blebs		
200.6 - 205.0	Hornfelsed Py. Bs.?	Po + Py - f. diss.	tr	
205.0 - 216.4	Metasomatised hornfelsed Sediments	Po - f. patches & veinlets	tr	
216.4 - 227.4	Altered hornfelsed Sediments	Po - f. patches, veinlets, Py - blebs	tr	

I, OSVALDO TIBURCIO FILOMENO FONSECA of 56 Partridge Crescent, Frankston in the State of Victoria, Accountant DO SOLEMNLY AND SINCERELY DECLARE as follows :

1. That the details of work for the six months ending 31 March 1982 on Exploration Licence 5/63 are described in the accompanying report.
2. That in the six months ending 31 March 1982 Comstaff has expended \$341 350 on work on Exploration Licence 5/63 and that this is further broken down into:

	\$
(a) Field staff and associated costs	102 344
(b) Operating costs	39 693
(c) Tenement costs	85
(d) Specialist services	9 218
(e) Project management	34 307
(f) Drilling	99 668
(g) Contractors	44 589
(h) Capital expenditure	11 446
	\$341 350

AND I MAKE this solemn declaration conscientiously believing the same to be true and by virtue of the provisions of an Act of the Parliament of Victoria rendering persons making a false declaration punishable for wilful and corrupt perjury.

Declared at *Melbourne*)
)
 in the State of Victoria)
)
 this *26th* day of)
)
 April 1982)

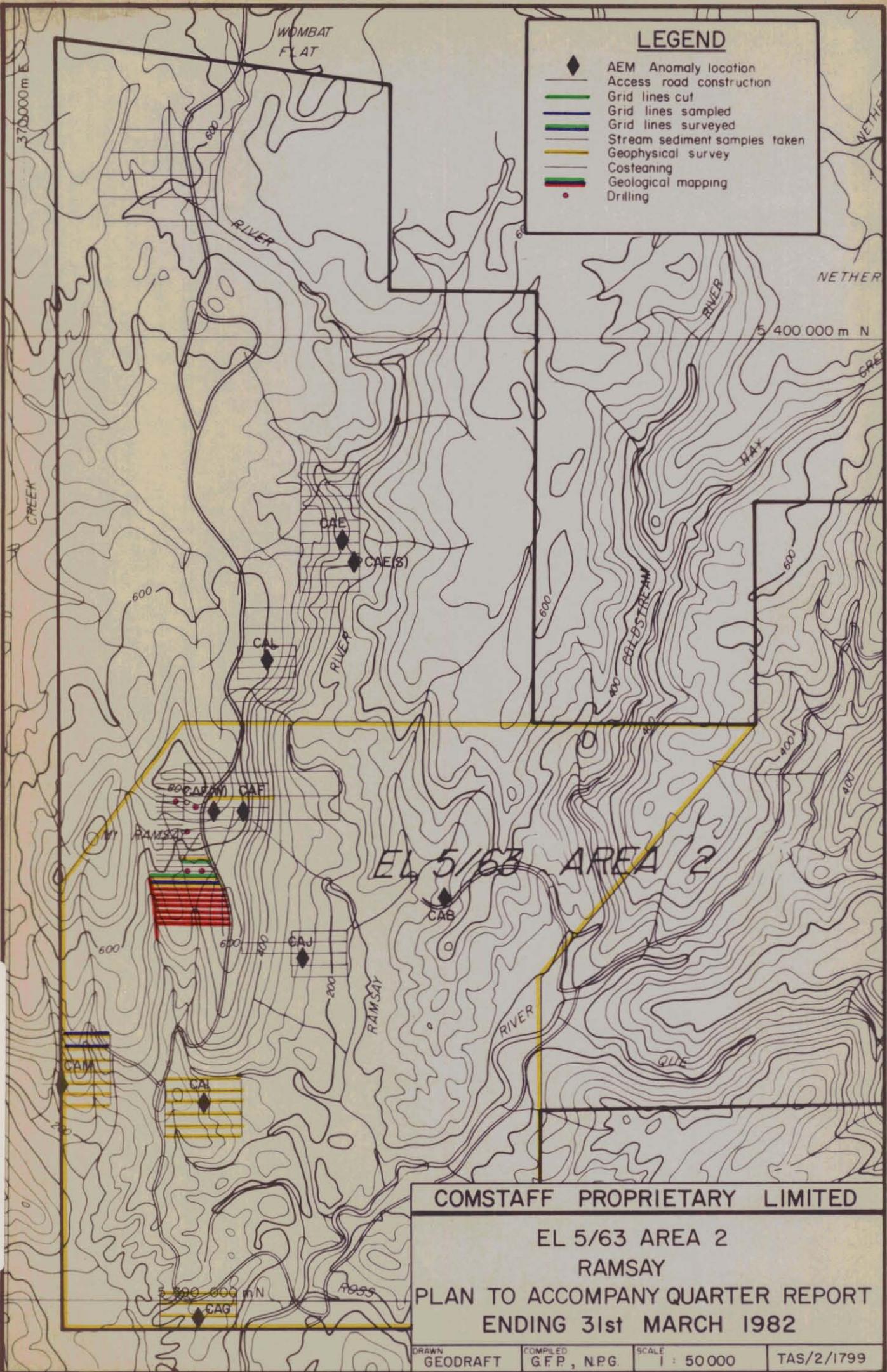
O. Fonseca

Before me:

[Signature]

A Commissioner for taking Declarations and Affidavits under the Evidence Act 1958.

804018



LEGEND

- ◆ AEM Anomaly location
- - - Access road construction
- (green) Grid lines cut
- (blue) Grid lines sampled
- (red) Grid lines surveyed
- (yellow) Stream sediment samples taken
- (black) Geophysical survey
- (red) Costeering
- (green) Geological mapping
- (red) Drilling

EL 5/63 AREA 2

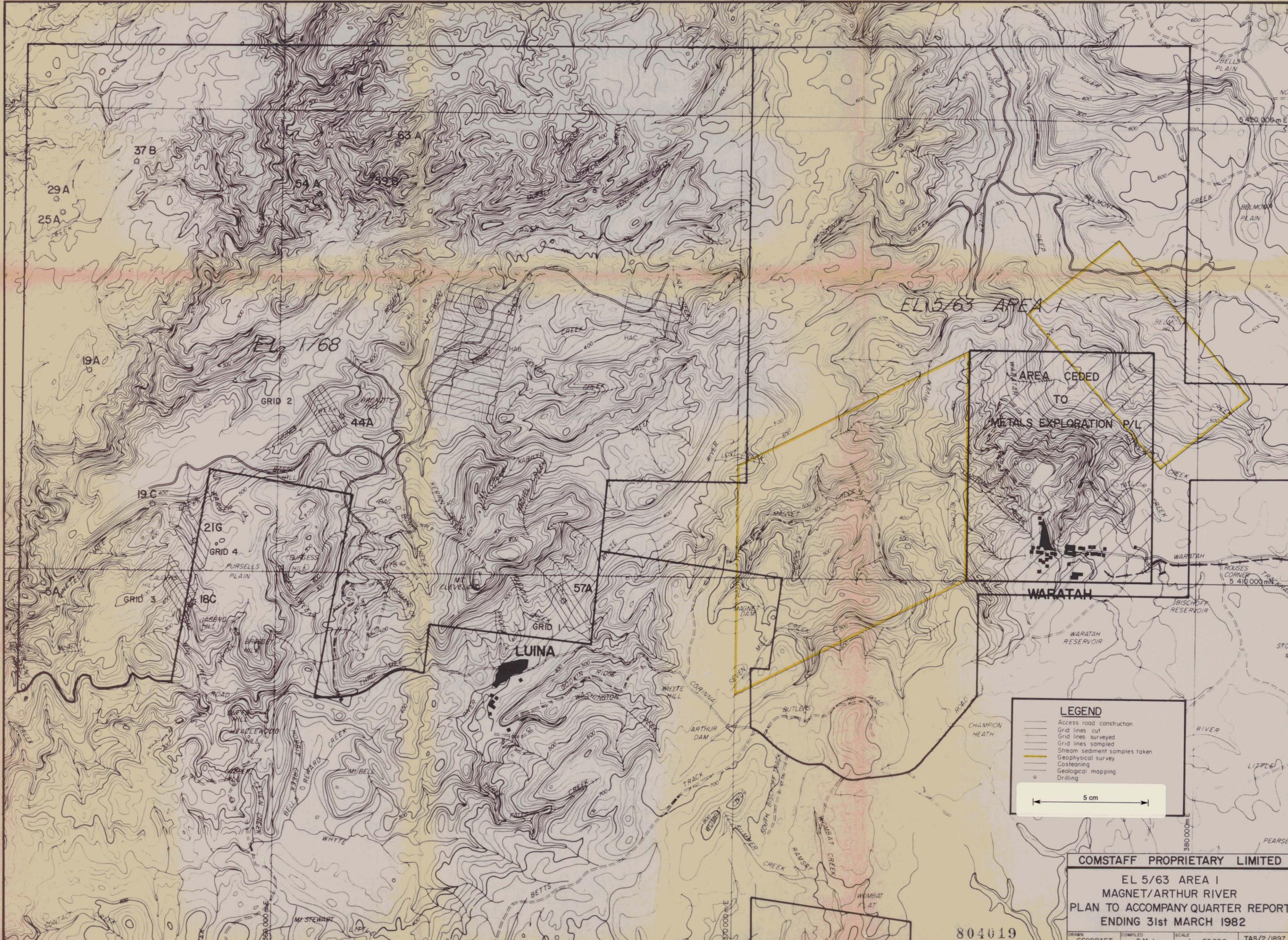
5 cm

COMSTAFF PROPRIETARY LIMITED

EL 5/63 AREA 2
RAMSAY

PLAN TO ACCOMPANY QUARTER REPORT
ENDING 31st MARCH 1982

DRAWN GEODRAFT	COMPILED G.F.P., N.P.G.	SCALE 1 : 50 000	TAS/2/1799
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LEGEND

- Access road construction
- Grid lines cut
- Grid lines surveyed
- Grid lines sampled
- Stream sediment samples taken
- Geophysical survey
- Costing
- Geological mapping
- Drilling

5 cm

COMSTAFF PROPRIETARY LIMITED

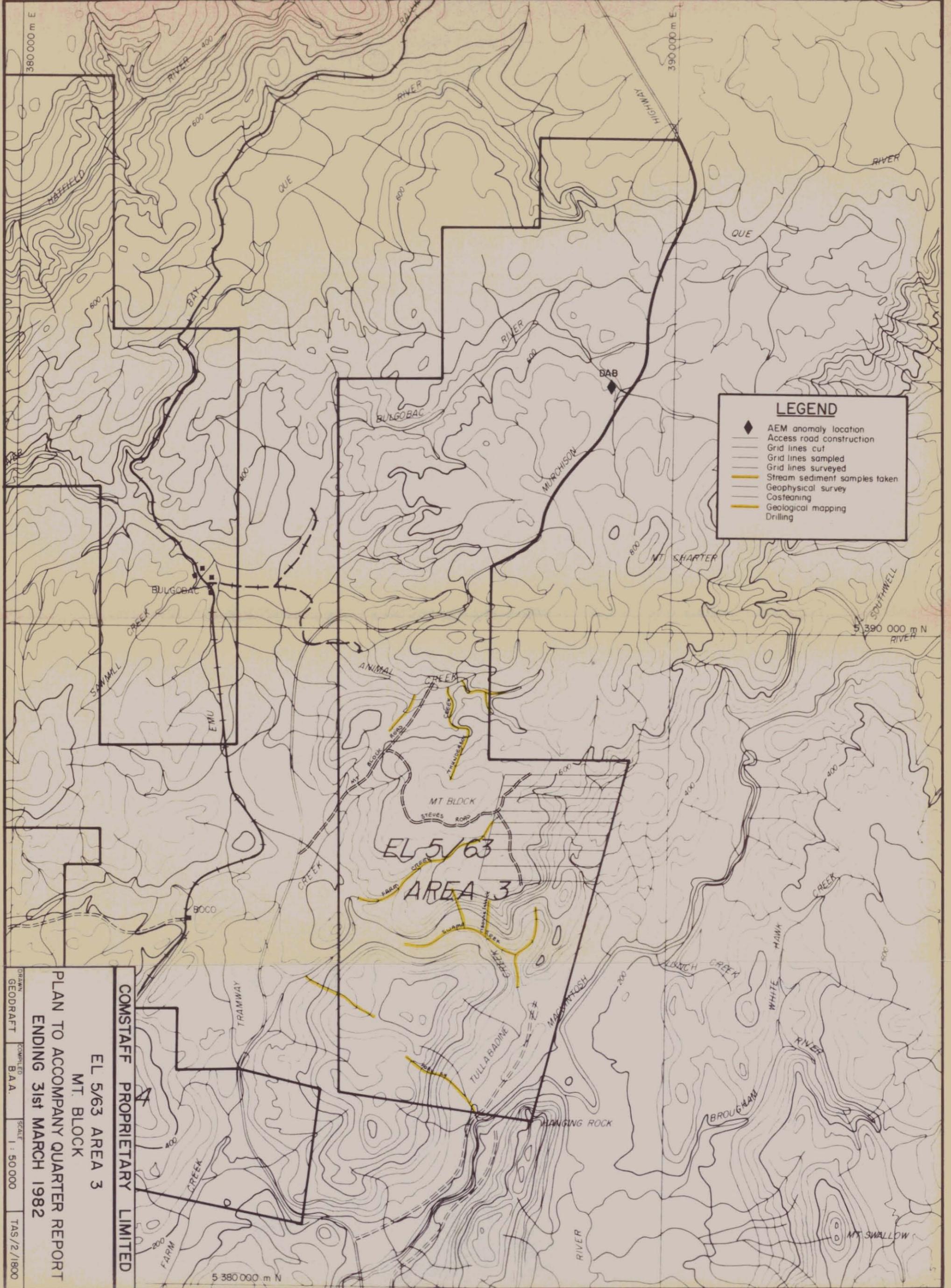
EL 5/63 AREA I
MAGNET/ARTHUR RIVER
PLAN TO ACCOMPANY QUARTER REPORT
ENDING 31st MARCH 1982

804019

DRAWN GEODRAFT	COMPILED C.M.J.	SCALE 1 : 50000	TAS/2/1897
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5 cm

804020



LEGEND

- ◆ AEM anomaly location
- Access road construction
- Grid lines cut
- Grid lines sampled
- Grid lines surveyed
- Stream sediment samples taken
- Geophysical survey
- Costeaming
- Geological mapping
- Drilling

EL 5/63
AREA 3

COMSTAFF PROPRIETARY LIMITED

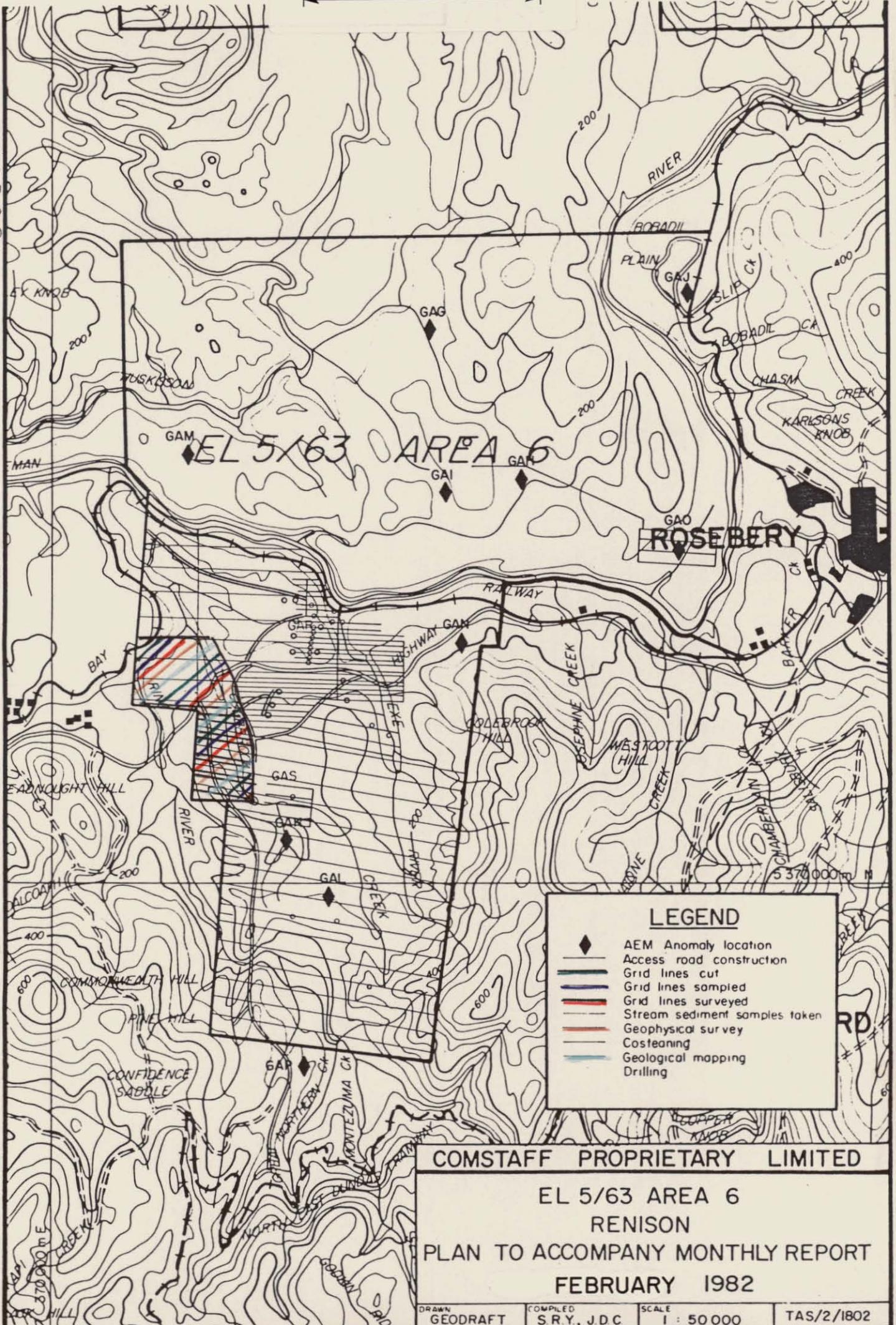
EL 5/63 AREA 3
MT. BLDCK

PLAN TO ACCOMPANY QUARTER REPORT
ENDING 31st MARCH 1982

DRAWN BY: GEODRAFT
COMPLETED BY: B.A.A.
SCALE: 1 : 50 000
TAS/2/1800

804022

5 cm



LEGEND

- ◆ AEM Anomaly location
- Access road construction
- ▨ Grid lines cut
- ▧ Grid lines sampled
- ▩ Grid lines surveyed
- Stream sediment samples taken
- Geophysical survey
- Costeaming
- Geological mapping
- Drilling

COMSTAFF PROPRIETARY LIMITED

EL 5/63 AREA 6
RENISON

PLAN TO ACCOMPANY MONTHLY REPORT
FEBRUARY 1982

DRAWN GEODRAFT COMPILED S.R.Y., J.D.C SCALE 1 : 50 000 TAS/2/1802