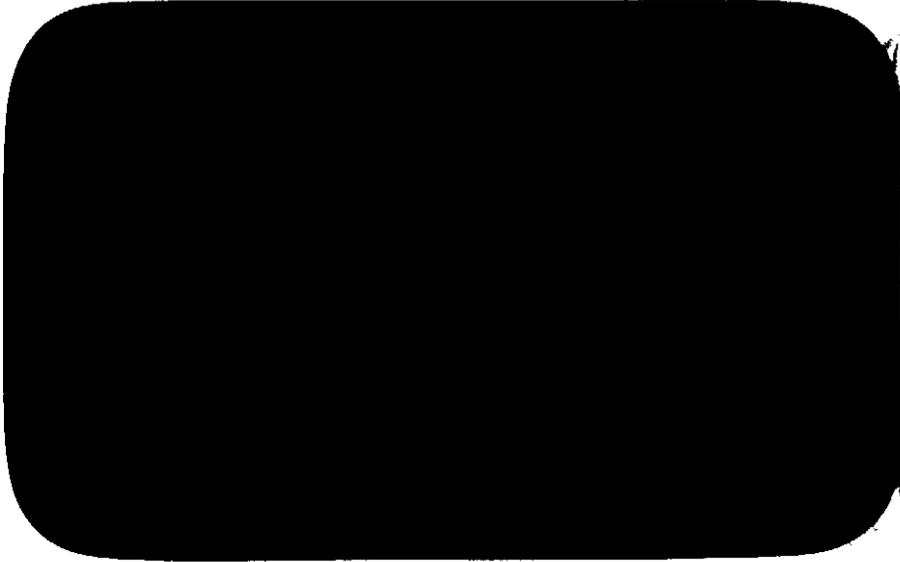


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30-11-81



EL 5/63

E.L. RENEWAL APPLICATION

for

EL. 5/63 WESTERN TASMANIA.

COMSTAFF PTY LTD

G.F. PIGGOT.

81-1644.

858c.

**MICROFILMED**

COMSTAFF PROPRIETARY LIMITED

858002

D of M	A.O.	C.G.	E.O.	D.S.M.E
Received Answered				Registrar
30 NOV 1981				E & IL
DEPT. OF MINES				
REF. No. 10,359/81				

581 Little Collins Street  
 Melbourne, Victoria, 3000  
 Cables: "Anmercosa" Melbourne  
 Telex: 30728  
 Telephone: 62 2141

23 November 1981

The Director  
 Department of Mines  
 GPO Box 124B  
HOBART TAS 7001

Dear Sir

We hereby apply for renewal of Exploration Licence No 5/63 over a reduced area of 350 square kilometres for a period 1 January to 31 December 1982. Attached hereto is the original licence document and our cheque for the sum of \$6 646.00 in payment of the fee and rental calculated as follows:

Standard Fee \$85.50 for two periods of six months	= \$	171.00
Rental to 30 June 1982		
350 km <sup>2</sup> x \$9.00		3 150.00
Rental to 31 December 1982		
350 km <sup>2</sup> x \$9.50		<u>3 325.00</u>
<b>TOTAL</b>		<b><u>\$6 646.00</u></b>

In support of our application we set out below a summary of the work undertaken and currently in progress in the six months ending 31 December 1981. Full details will be supplied in our Six-Monthly Report due on 31 December 1981.

A summary of proposed exploration for 1982, along with the estimated expenditure is included, with each section of the EL described separately. Summary plans showing work completed, in progress and proposed are appended.

1. Work Completed or in Progress

1.1. Section 1 Arthur River

The main drainage systems north east from Mount Bischoff have been prospected by geological mapping, sediment and heavy concentrate sampling. The Mount Bischoff Series - Crimson Creek contact zone has been traced into Deep Gully Creek, where porphyry dykes have also been mapped. Further mapping and prospecting continues in the Mount Bischoff Series to ascertain if dolomitic units exist, and to check for Sn mineralisation.

## 2.

A set of 1:10 000 topographic base plans have been prepared of the area.

1.2. Section 2 Ramsay

Two diamond drillholes were completed on the Mount Ramsay (CAF) grid, a total of 384.3m. The core was logged, sampled and measured for magnetic susceptibility. Drill hole CAF 1 intersected banded skarn mineral assemblages from 109.15 to 282.13m, but CAF 2 passed into the Meredith Adamellite and did not intersect the skarn. No ore grade mineralisation was seen, but the skarn is distinctly anomalous in Sn, Cu, Fe, S, F, Bi and Au.

Grid CAF is being extended 600m to the south utilising lines at 60m spacing to follow the skarn zone along strike. Preparations are underway to diamond drill the main  $WO_3$  anomaly in the skarn and to test a strong EM anomaly east of the main skarn outcrop. This EM anomaly is being checked with more refined equipment in order to estimate the dip and shape.

Grid CAM is being extended northwards to follow up the discovery of Success Creek Formation rock types in the area. Grid CAG has been auger sampled and geologically mapped. Ground magnetic surveys are underway on grids CAI and CAG and will be extended to cover the newly gridded portions of CAF and CAM.

Ground electromagnetic surveys are scheduled to be completed on grids CAI, CAM and CAG and checks run on CAE and CAL.

1.3. Section 3 Mount Block - Sock Creek

An appraisal of the various exploration activities carried out in this section of the tenement was carried out. As a result recommendations were made as to which portions should be relinquished or retained. It is proposed to reduce the size of this section by 14.4 square kilometres, the area is shown on the attached plan (Tas-2-2311).

An integrated programme of geological mapping and sediment sampling is currently underway over the remaining (southern) part of the tenement.

#### 1.4. Section 4 Chester - Pinnacles

Two diamond drill holes were completed on the East Chester (EAB) grid, a total of 525.0m. The core was logged and sampled. Drill hole EAB 1 was collared in porphyritic rhyolitic lavas and intersected a sequence of rhyolitic passing down into dacitic tuffs then mixed tuffites and shales, ending in andesitic lavas and minor tuffs. Distinctly anomalous values in Zn and Pb were recorded from pyritic, lithic, ash-lapilli dacitic tuff interbedded with carbonaceous shale, from sections of the tuffites and from pyritic lithic-crystal lapilli-ash andesitic tuff near the bottom of the hole. Drill hole EAB 2 was collared in mixed tuffites and carbonaceous shale with disseminated galena and sphalerite and passed down through porphyritic rhyodacitic lava into crystal dacitic tuff, ending in andesitic lavas and tuffs. As in EAB 1, distinctly anomalous value were recorded from the interbedded tuffites and shales, and from the dacitic tuff overlying the andesite.

#### 1.5. Section 5 Huskisson

No work was carried out in this sector of the tenement.

#### 1.6. Section 6 East Renison

The current phase of diamond drilling was completed at the Fenton - GAR Prospect with the drilling of RBE 32. Nine diamond drill holes, a total of 3399.4m, were completed during the current period. Results are summarised on the accompanying table.

The drilling programme has been aimed at evaluating the viability of the economic potential of the Fenton Vein Complex. A detailed examination of all data is currently underway and a stage report is being compiled. The in-ground geological reserves will be calculated so that future drilling can be planned if warranted.

Diamond drilling has also tested the quartz-carbonate-pyrrhotite-chalcopyrite veins associated with the cross cutting talc-carbonate-serpentinite unit, and replacement sulphide mineralisation associated with sedimentary carbonate units: the mineralisation in these two targets includes Sn.

Auger sampling and ground magnetic surveys were completed over grid GAT which lies between Fentons Prospect and the western boundary of the tenement. A series of coincident geochemical and geophysical anomalies have been outlined which require testing by diamond drilling.

Diamond drilling is currently underway on ML 62M/75 which lies close to the southern boundary of the tenement. Cassiterite-sulphide mineralisation in hydrothermally altered conglomerate and gabbro with associated geophysical anomalies appears to extend northwards into EL 5/63.

## 2. Proposed Exploration Programme 1982

### 2.1. Section 1 Arthur River

Target Sn

- 2.1.1. Continuation of the heavy concentrate and sediment sampling programme.
- 2.1.2. Geological mapping of the creeks, logging tracks and access roads.
- 2.1.3. Establishment of a grid over the Bischoff Series - Crimson Creek Formation contact zone north east of Mount Bischoff. This grid will be auger sampled, geologically mapped and geophysically surveyed.
- 2.1.4. Carry out a helicopter borne aeromagnetic survey along the 'Magnet-Bischoff line' and extend it to the north east. This programme is designed to prospect for pyrrhotite replacement ore bodies similar to the dolomitic beds at Bischoff.

### 2.2. Section 2 Ramsay

Target Sn W (Cu Au)

- 2.2.1. Diamond drilling of the Mount Ramsay skarn.
- 2.2.2. Diamond drilling of geophysical anomalies at CAL and CAF.
- 2.2.3. Establishment of grid extensions at South Bischoff concentrating on the granite-sediment contact zone. Auger sample and geologically map the lines.
- 2.2.4. Carry out stream sediment sampling and geological mapping in the south western and western section of the tenement.
- 2.2.5. Establishment of wide spaced grid lines over the Ramsay Group - Crimson Creek and Crimson Creek - Meredith Granite contacts. These lines will be auger sampled, geologically mapped and geophysically surveyed.

2.2.6. Geologically map the CAM grid extensions, auger sample and carry out ground magnetic and EM surveys.

2.2.7. Determine the prospectivity of the WOW/CAB area and diamond drill indicated targets.

2.3. Section 3 Mount Block - Sock Creek

Target Pb, Zn, Ag, Cu and Au

2.3.1. Continuation of the sediment sampling and geological mapping programme.

2.3.2. Establish follow up grid lines where warranted. Geologically map and soil sample those lines and carry out IP surveys.

2.4. Section 4 Chester - Pinnacles

Target Pb, Zn, Ag, Cu and Au

2.4.1. Carry out a programme of sediment sampling and geological mapping over the eastern sector of the area.

2.4.2. Establishment of grid extensions and closer spaced lines on grid EAB. These lines will be auger sampled and geologically mapped, while IP surveys will also be carried out.

2.4.3. Compilation of all geological geochemical and geophysical data from the tenement.

2.4.4. Establishment of follow-up grid lines where warranted.

2.4.5. Diamond drill indicated targets.

2.5. Section 5 Huskisson

Target Sn

2.5.1. Evaluate all available data pertaining to the prospectivity of the area.

2.5.2. Carry out geological mapping of critical sections.

2.5.3. Report compilation and decision on future work (or relinquishment).

2.6. Section 6 East Renison

Target Sn, Pb, Zn and Ag

2.6.1. Diamond drill for replacement Sn-sulphide mineralisation in carbonate units and open structures.

6.

- 2.6.2. Evaluation in-fill and/or deeper diamond drilling of the Fenton Vein Complex.
- 2.6.3. Establishment of closer spaced infilling grid lines along the western sectors of grids GAT and GAP to better define the geophysical and geochemical anomalies in the area.
- 2.6.4. Diamond drill the indicated drill targets on grids GAT and GAP.
- 2.6.5. Evaluate the Input EM and aeromagnetics north of the Pieman River.
- 2.6.6. Carry out geological mapping and rock sampling, following the Fenton Vein Complex, north of the Pieman River.

### 3. Proposed Budget January - December 1982

Arthur River	Section 1	107 592
Ramsay	Section 2	379 053
Mt Block - Sock Creek	Section 3	67 834
Chester - Pinnacles	Section 4	224 558
Huskisson	Section 5	7 149
East Renison	Section 6	<u>626 551</u>
TOTAL		\$1 412 737

Technical report prepared by  
G F Pigott, Senior Geologist

Yours faithfully



J E Clark  
Secretary

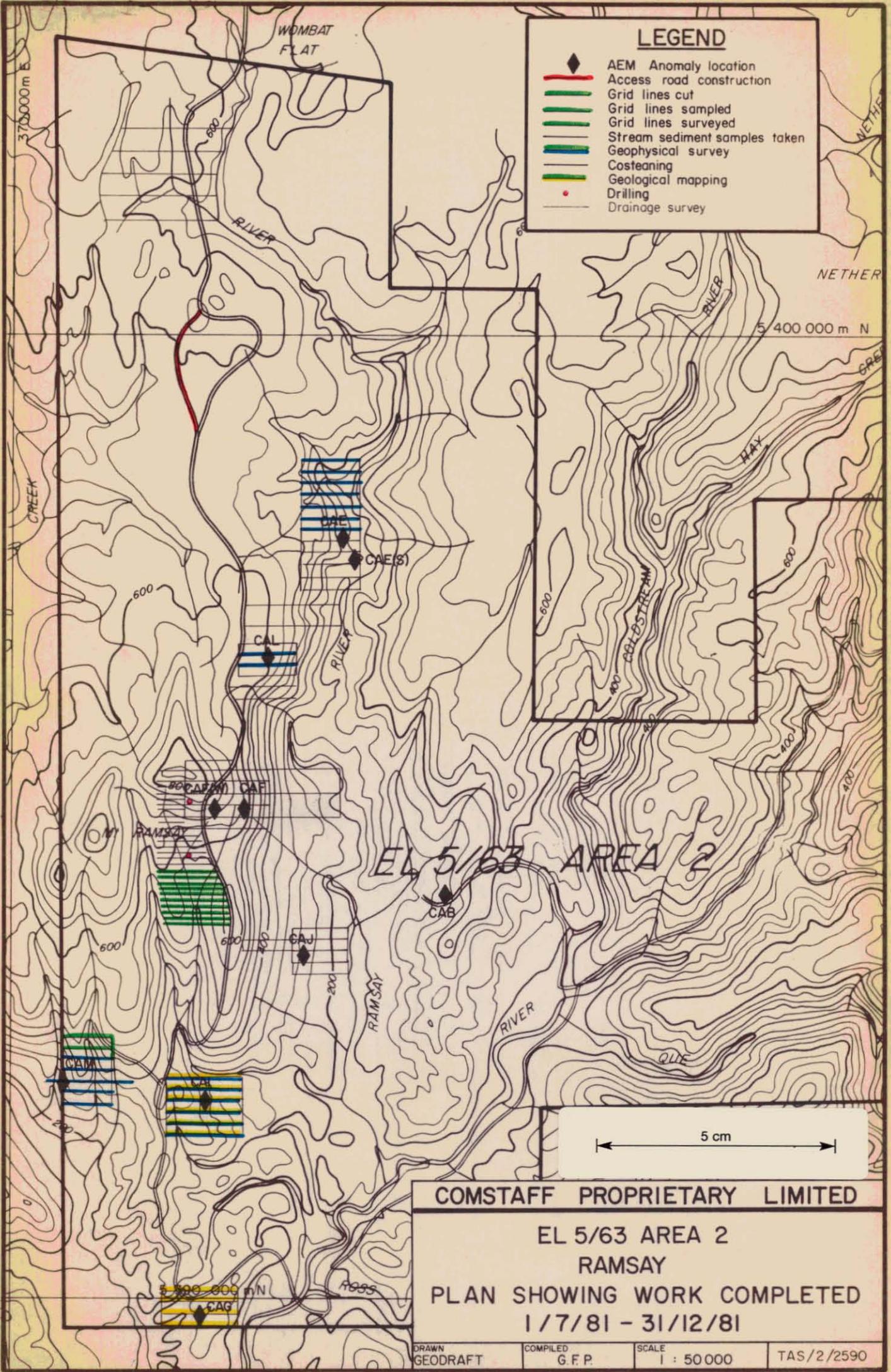
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## EL 5/63 SECTION 6

1/7/81 - 31/12/81 SUMMARY OF DRILLING COMPLETED

TABLE 1

Hole	Drilled Interval	dw	tw	% Sn	% Cu	% Pb	% Zn	ppm Ag
RBE 22	382.4 -383.9	0.5		0.08	0.5	0.01	0.04	22
	386.0 -388.0	2.0		0.06	0.03	0.25	1.18	17.5
	486.9 -487.85	0.95	0.7	0.22	0.23	0.05	0.33	10.9
RBE 23	397.0 -402.1	5.1			0.03	0.24	0.75	6.5
	442.1 -444.5	2.4	1.4	0.22	0.05	0.74	1.15	24.5
RBE 24	326.0 -326.50	0.5	0.38	0.04	0.01	0.55	3.30	9.5
	467.4 -468.0	1.4	1.26	0.02	0.007	0.38	1.42	17.0
RBE 25	222.90-225.10	2.2	1.68	0.03	0.2	3.42	2.13	132
	247.85-248.60	0.75	0.48	0.05	4.1	0.14	0.24	130
	268.80-272.05	3.25		1.14				
RBE 26	233.33-235.45	2.12	1.27		0.06	5.27	3.7	119
	269.35-271.05	1.7	1.46		0.06	0.62	2.14	65
	264.65-271.05	6.4		0.29				
RBE 27	392.05-393.13	1.08	0.88	0.02	0.07	1.01	3.25	48.5
	428.95-429.93	0.98	0.75	0.07	0.03	9.04	5.01	434
RBE 28	428.80-431.95	3.15		0.04		1.71	2.78	47
RBE 29	was completed at 394m )							
RBE 30	was completed at 209.4m ) no analytical results							
RBE 31	was completed at 186.9m ) available							
RBE 32	was completed at 520m )							

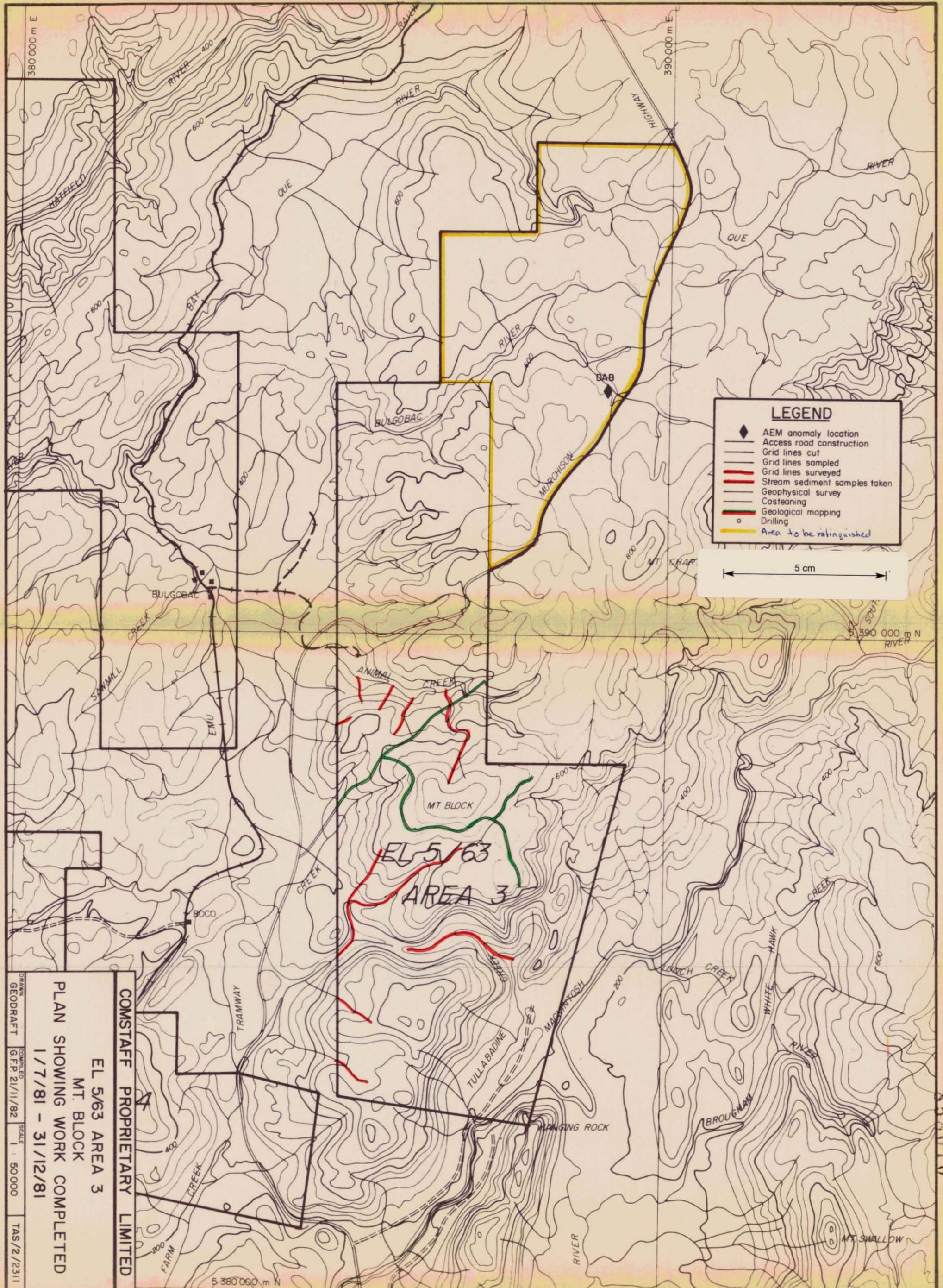


**LEGEND**

- AEM Anomaly location
- Access road construction
- Grid lines cut
- Grid lines sampled
- Grid lines surveyed
- Stream sediment samples taken
- Geophysical survey
- Costeasing
- Geological mapping
- Drilling
- Drainage survey

5 cm

**COMSTAFF PROPRIETARY LIMITED**  
 EL 5/63 AREA 2  
 RAMSAY  
 PLAN SHOWING WORK COMPLETED  
 1/7/81 - 31/12/81



**LEGEND**

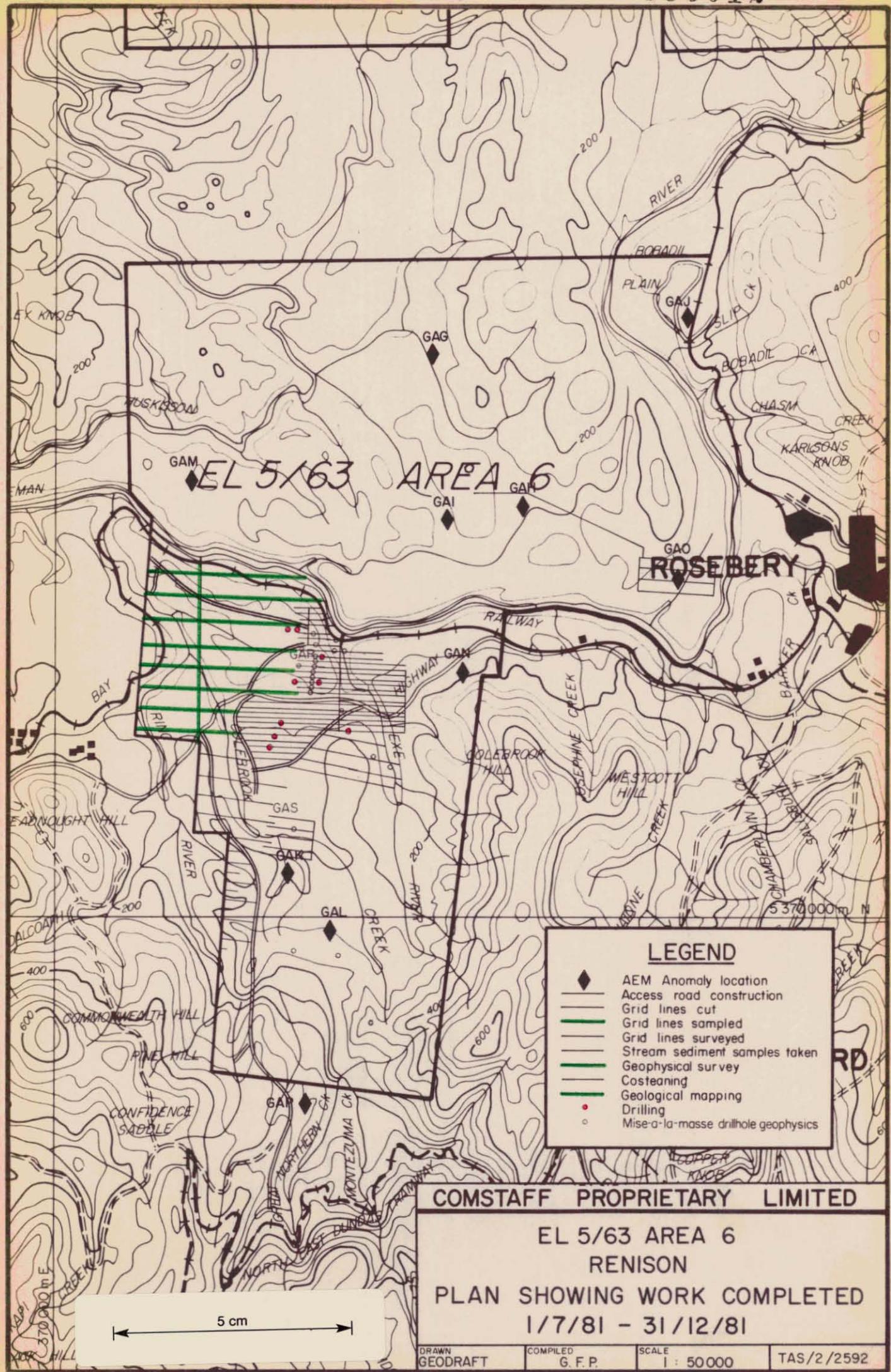
- ◆ AEM anomaly location
- - - Access road construction
- Grid lines cut
- Grid lines sampled
- Grid lines surveyed
- Stream sediment samples taken
- Geophysical survey
- Costeering
- Geological mapping
- Drilling
- Area to be relinquished

5 cm

COMSTAFF PROPRIETARY LIMITED  
 EL 5/63 AREA 3  
 MT. BLOCK  
 PLAN SHOWING WORK COMPLETED  
 1/7/81 - 31/12/81  
 DRAWN BY: GEODRAFT  
 COMPUTED BY: G.F.P. 21/11/82  
 SCALE: 1 : 50 000  
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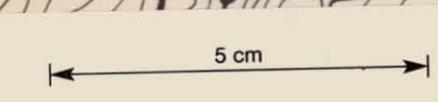


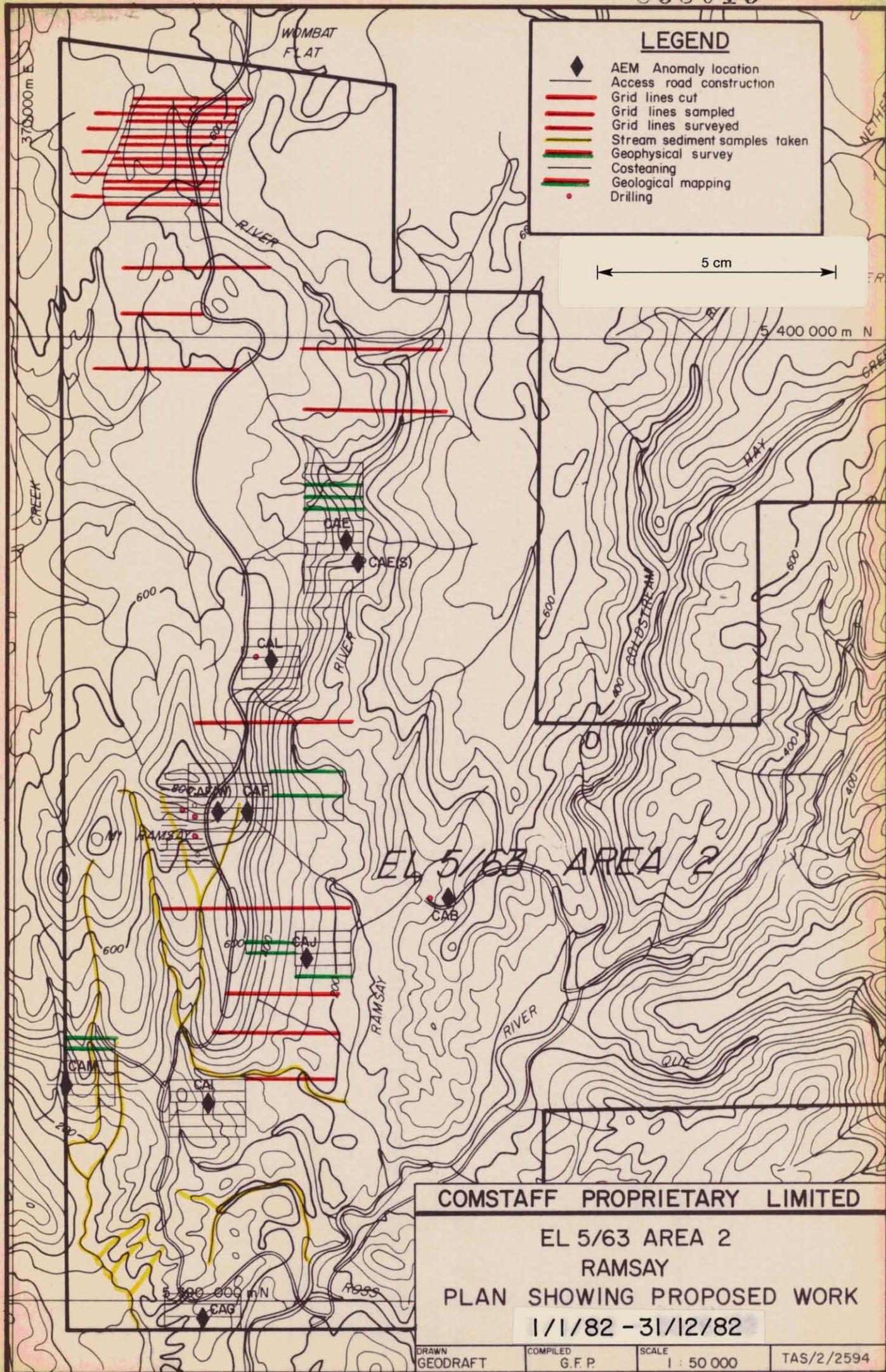
**LEGEND**

- ◆ 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
- Miscellaneous drillhole geophysics

COMSTAFF PROPRIETARY LIMITED

EL 5/63 AREA 6  
 RENISON  
 PLAN SHOWING WORK COMPLETED  
 1/7/81 - 31/12/81





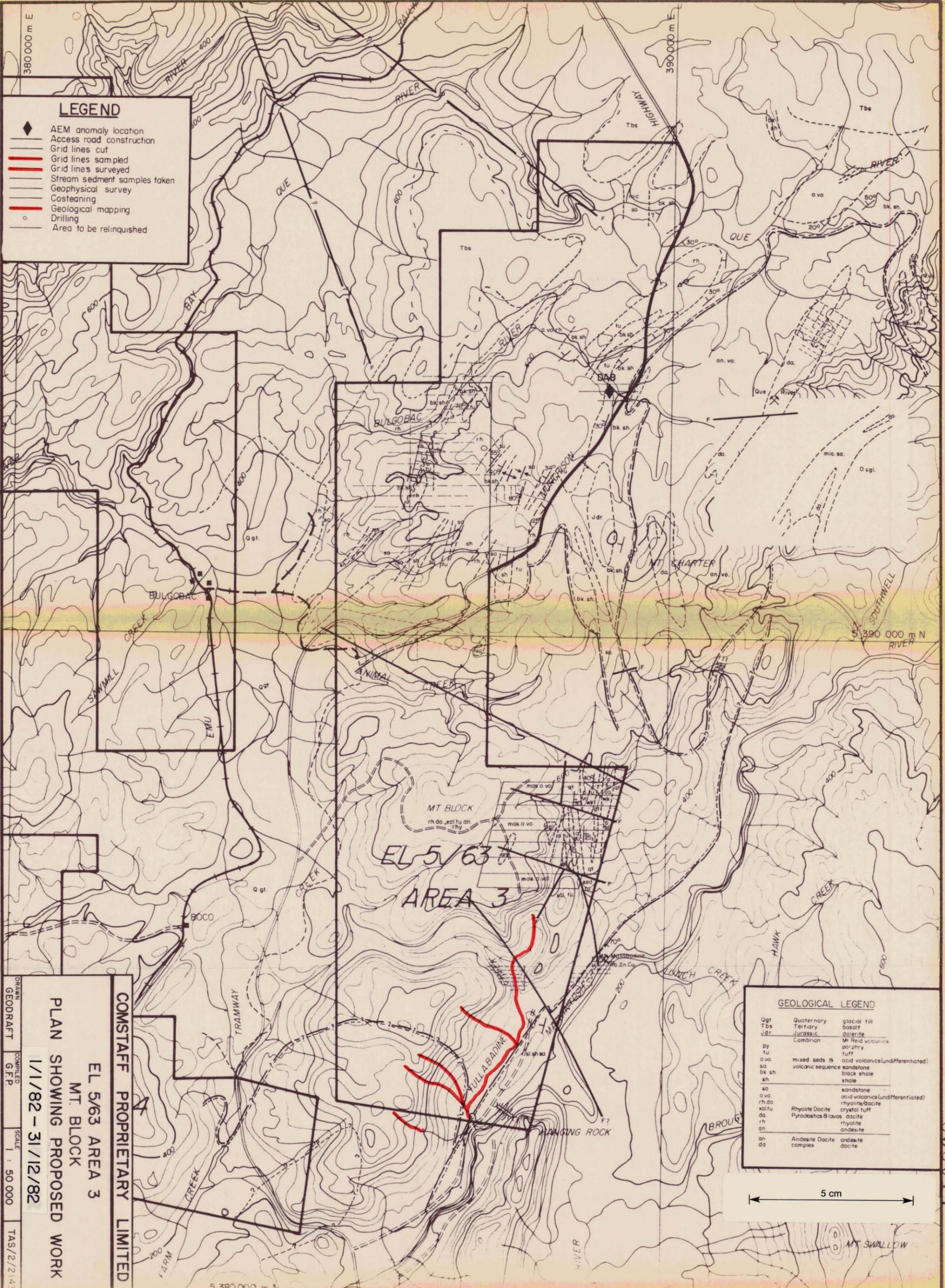
**LEGEND**

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

5 cm

EL 5/63 AREA 2

COMSTAFF PROPRIETARY LIMITED  
 EL 5/63 AREA 2  
 RAMSAY  
 PLAN SHOWING PROPOSED WORK  
 1/1/82 - 31/12/82



**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
- Area to be relinquished

**GEOLOGICAL LEGEND**

Qgt	Quaternary	glacial till
Tbs	Tertiary	basalt
Jdr	Jurassic	dolerite
	Combrian	Mt Reid volcanics
py		porphyry
tu		tuff
o vo	mixed seds &	acid volcanics (undifferentiated)
so	volcanic sequence	sandstone
bk sh		black shale
sh		shale
sa		sandstone
o vo		acid volcanics (undifferentiated)
rh da		rhyolite/dacite
xal tu	Rhyolite Dacite	crystal tuff
da	Pyroclastics & lavas	dacite
rh		rhyolite
an		andesite
an	Andesite Dacite	andesite
da	complex	dacite

COMSTAFF PROPRIETARY LIMITED  
 EL 5/63 AREA 3  
 MT. BLOCK  
 PLAN SHOWING PROPOSED WORK  
 1/1/82 - 31/12/82  
 DRAWN BY: GEODRAFT  
 COMPILED BY: G.F.P.  
 SCALE: 1 : 50 000  
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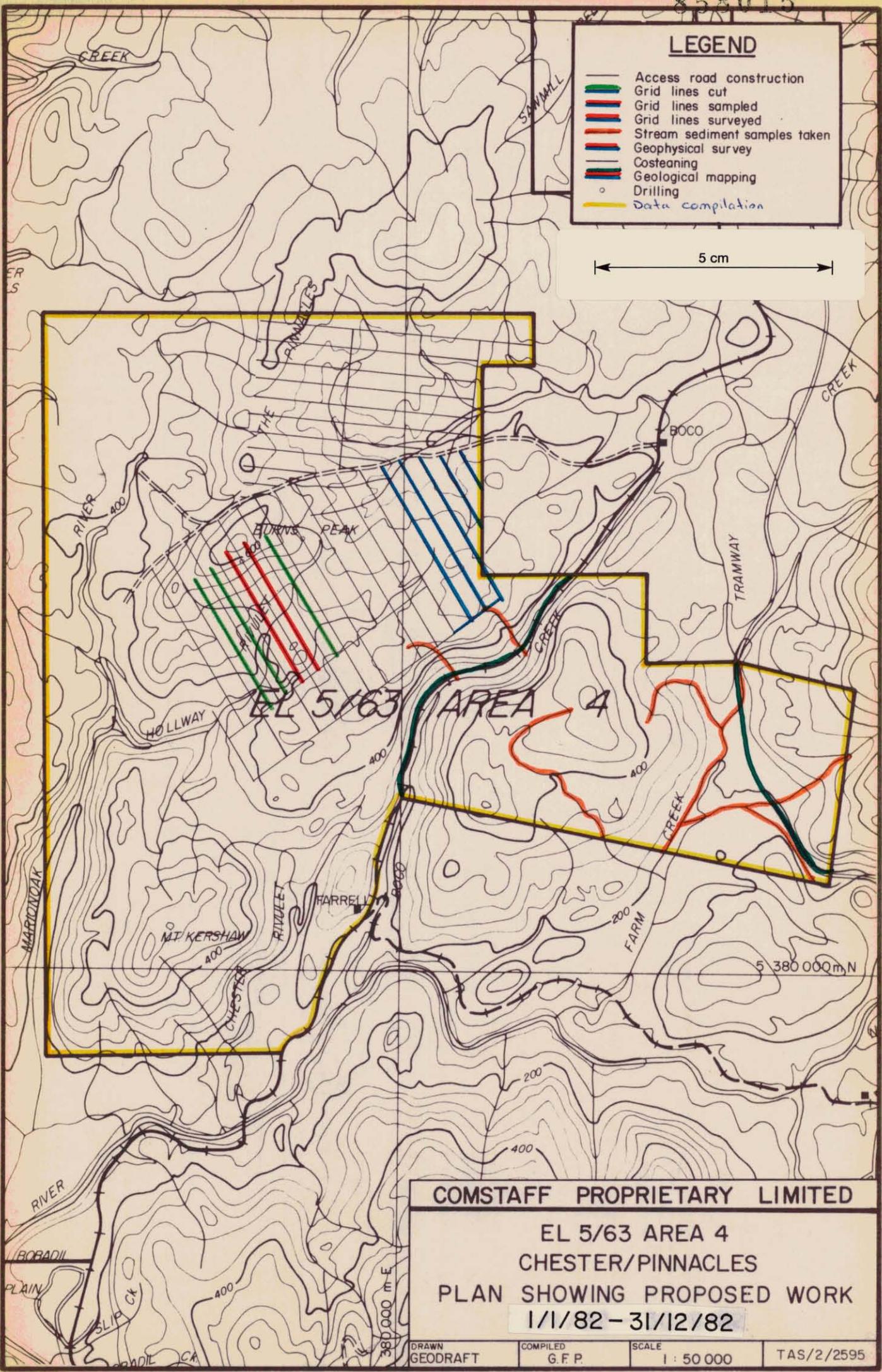
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**LEGEND**

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

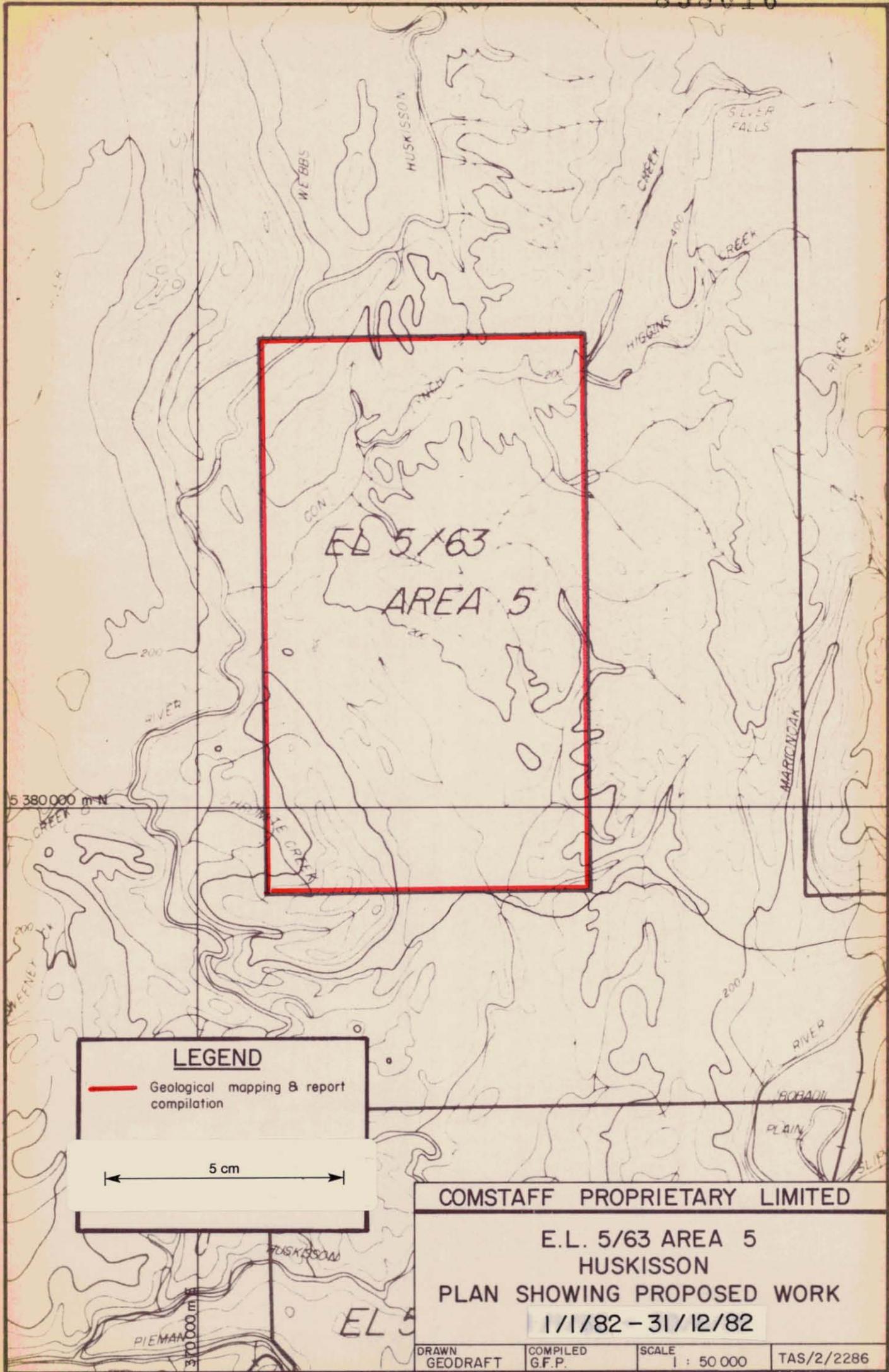
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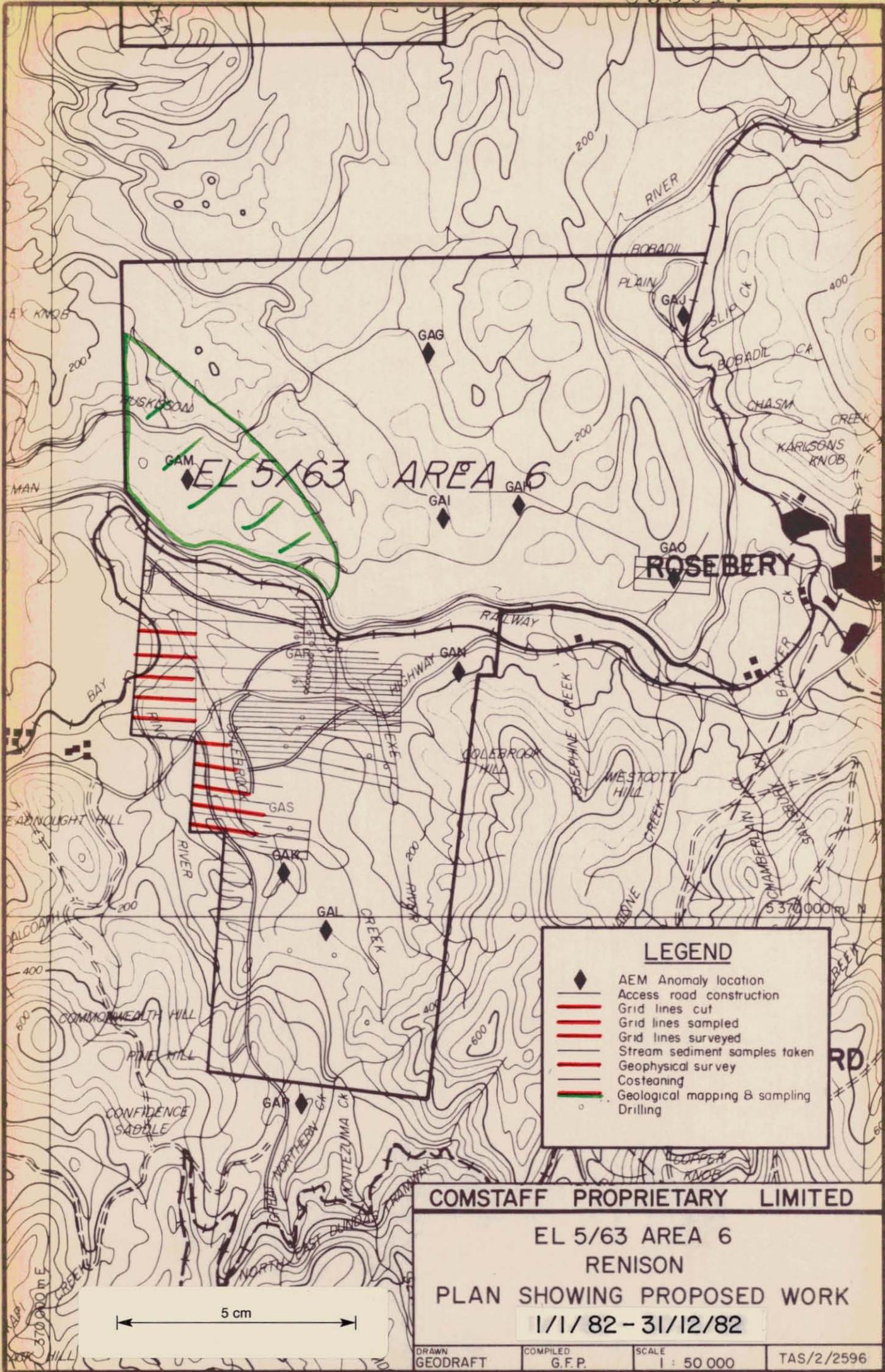


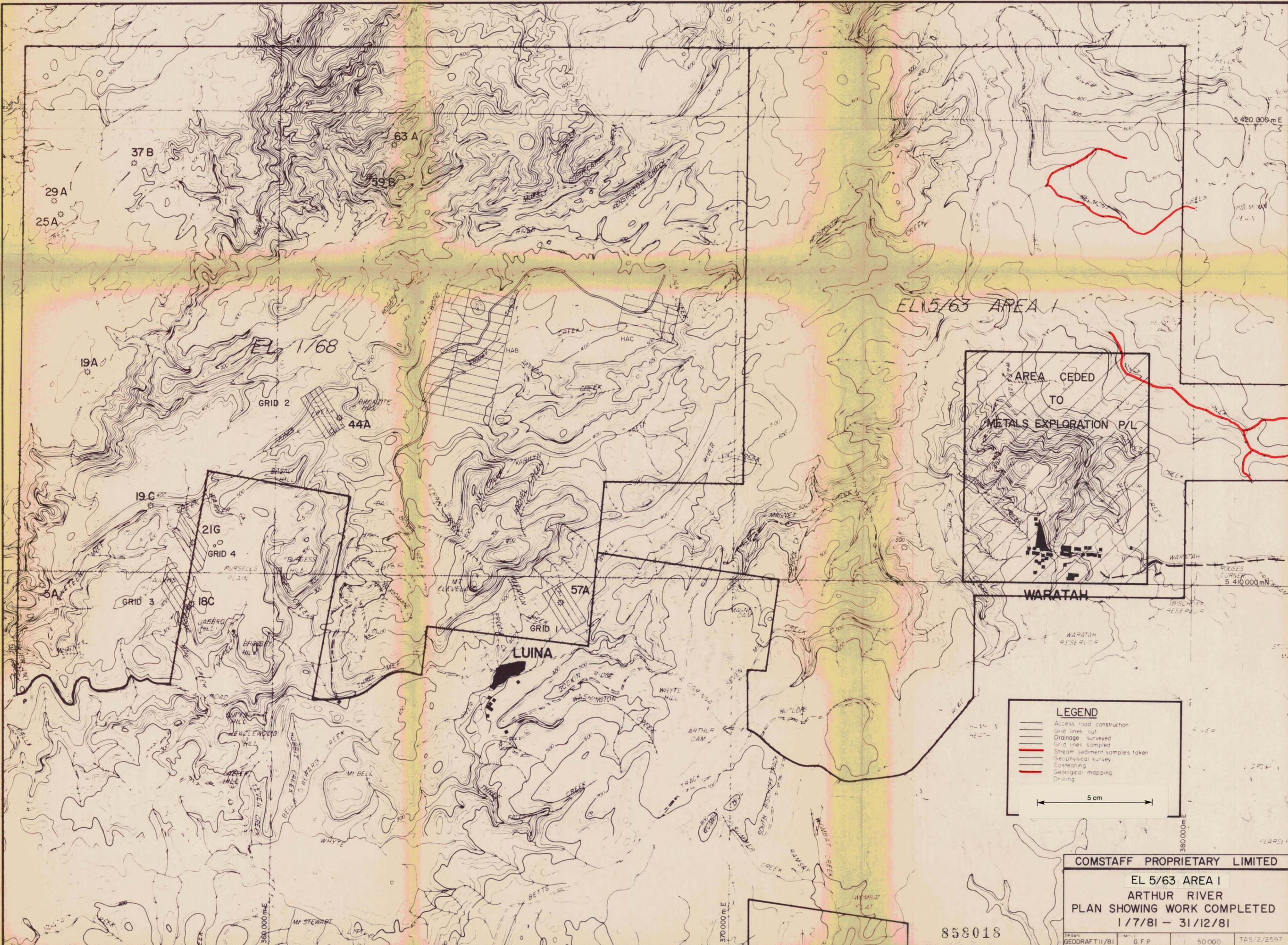
**COMSTAFF PROPRIETARY LIMITED**

EL 5/63 AREA 4  
 CHESTER/PINNACLES  
 PLAN SHOWING PROPOSED WORK  
 1/1/82 - 31/12/82

DRAWN GEODRAFT	COMPILED G.F.P.	SCALE 1 : 50 000	TAS/2/2595
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EL 5/63 AREA I

AREA CEDED  
TO  
METALS EXPLORATION P/L

WARATAH

**LEGEND**

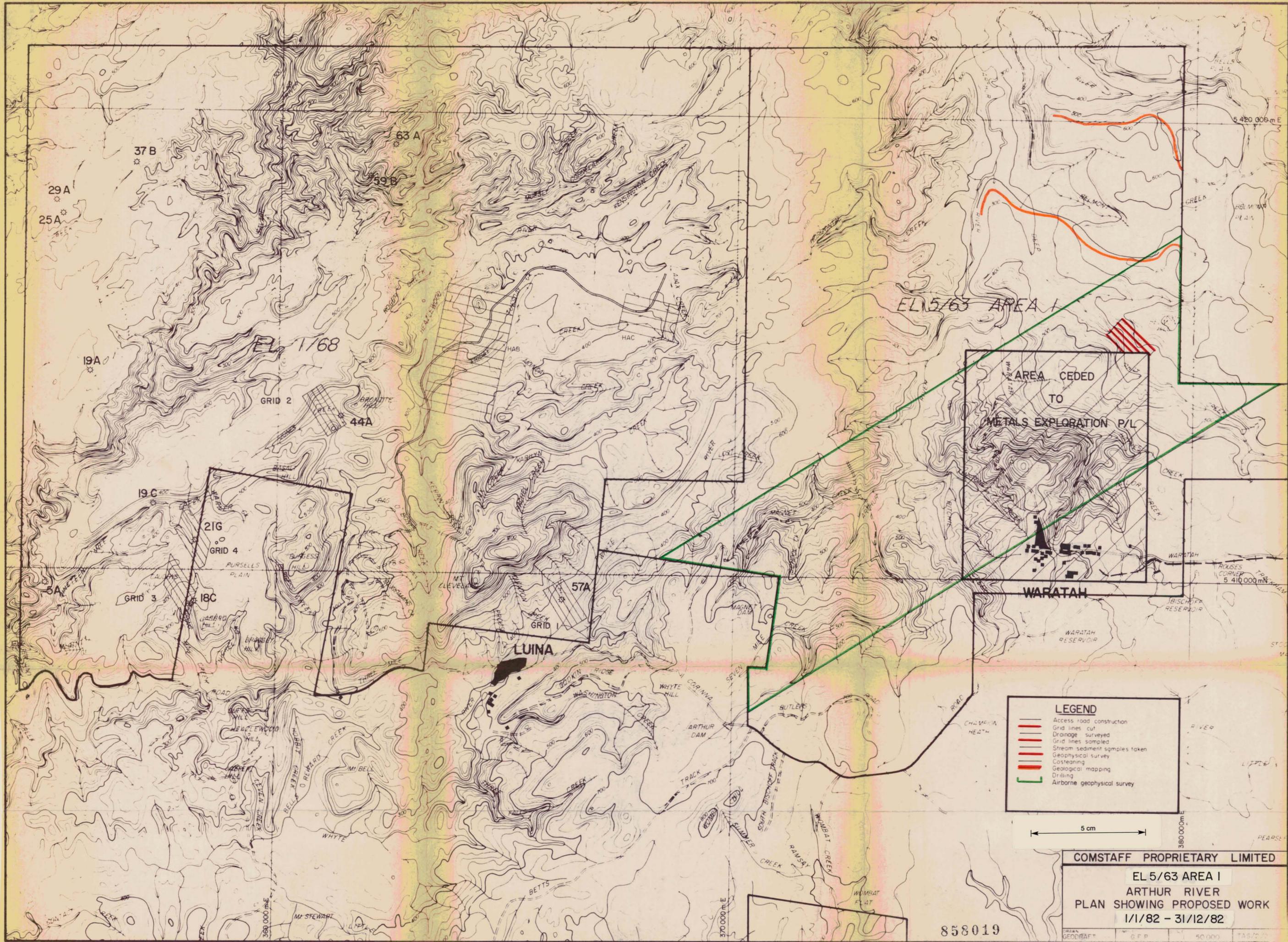
- Access road construction
- Grid lines cut
- Drainage surveyed
- Grid lines sampled
- Stream sediment samples taken
- Geophysical survey
- Costeering
- Geological mapping
- Drilling

5 cm

COMSTAFF PROPRIETARY LIMITED

EL 5/63 AREA I  
ARTHUR RIVER  
PLAN SHOWING WORK COMPLETED  
1/7/81 - 31/12/81

858018



EL 5/63 AREA I

AREA CEDED TO METALS EXPLORATION P/L

WARATAH

LUINA

- LEGEND**
- Access road construction
  - Grid lines cut
  - Drainage surveyed
  - Grid lines sampled
  - Stream sediment samples taken
  - Geophysical survey
  - Costeering
  - Geological mapping
  - Drilling
  - Airborne geophysical survey

5 cm

COMSTAFF PROPRIETARY LIMITED

EL 5/63 AREA I  
ARTHUR RIVER  
PLAN SHOWING PROPOSED WORK  
1/1/82 - 31/12/82

858019