

001

178001

MICROFILMED

999

JOY M.	A.O.	C.G.	E.O.
D. DIR.			MAY 1985
DEPT. OF MINES			
REF. No. 5658/85			

PROJECT NAME: COMSTAFF PROPRIETARY LIMITED

TITLE: FINAL REPORT ON AREAS SURRENDERED
TO THE DEPARTMENT OF MINES TASMANIA (JUNE, 1985)

EXPLORATION LICENCE 5/63 AREA 2 RAMSAY

Open

AREA NAME/S, STATE 1:250,000 SHEET NO/S & COORDINATES: **1:250 000 sheets K55 03 (Burnie)**
K55 05 (Queenstown)

COMMODITY/IES: **Cu, Pb, Zn, Ag, Au, Ba**

TEXT PAGES NO: **4**

PLAN NOS: **TAS/2/4239, 4240, 3076, 3077**

TABLE NOS: **-**

APPENDICES: **12**

AUTHOR/S: **R W L SHAW, M P EVERETT**

DATE: **May, 1985**

OPEN FILE

AUSTRALIAN ANGLO AMERICAN LIMITED

Incorporated in the State of Victoria

LIST OF PLANS

- TAS/2/4239, ✓ 4240 ✓ Plans to Accompany Surrender Report
- TAS/2/3076, ✓ 3077 ✓ Geology

APPENDICES

- 83-1899
* GREEN 1982 Stage Report on the Ramsay Grids (CA1 and CAG EL 5/63 Part 2)
- 80-1426
* PIGOTT 1980 Interim Report on the Ramsay Area
- ~~83-1898~~
* GREEN 1982 Interim Report on the Ramsay Grid CAF
- 83-1900
* GREEN 1982 " " " " Diamond Drilling
- 83-1984
* GREEN 1983 " " " " Ramsay Grid CAM
- 83-1985
* PIGOTT 1983 " " " " Mt Ramsay
Tin Tungsten Project
- 62 ✓ * PIGOTT 1980 Interim Report on the Ramsay Area EL 5/63 Part 2
- 80 → * GREEN 1981 Preliminary Report on the South Bischoff Mine Area (CSB) in EL 5/63 Part 2
- 83-1991
* GREEN 1983 Stage Report on the South Bischoff Mine Area (CSB) EL 5/63
- 84-2136
84 ✓ * LEVINGS 1983 Final Report on the South Bischoff Prospect (CSB) EL 5/63 Area 2
- 84-2139
84 ✓ * LEVINGS 1984 Interim Report on the West Ramsay grids CAI, CAM, L30, L80, L211, L250 and CKC
- 85-2384
EVERETT 1985 Hatfield Zinc Anomaly, Interim Report

[* - to be released from closed file at Department of Mines] ✓

COMSTAFF PROPRIETARY LIMITEDFINAL REPORT ON AREAS SURRENDERED
TO THE DEPARTMENT OF MINES TASMANIA (JUNE, 1985)EXPLORATION LICENCE 5/63 AREA 2 RAMSAYINTRODUCTION

In accordance with the instructions by the Department of Mines, EL 5/63 is reduced from 364 square kilometres to 125 square kilometres. The greater part of Area 2, Ramsay, has been surrendered to achieve this objective. This report summarises the work done to 1979, which is now on open file at the Department, and collates the work done to 1984. The final years work is reported in detail in the appended documents which also cover the details of the work done in the last five years.

SUMMARY OF WORK DONE AND RESULTS

- 1969/70 A programme of pitting, augering and heavy mineral concentrate sampling was done focussing on the alluvial flats of Webb Creek. The objective was to assess their potential as hosts to alluvial deposits of tin, gold and/or osmiridium, shedding and concentrating from the Meredith granite contact zone and serpentinite bodies in the vicinity. Although tin was panned in one heavy concentrate sample from a tributary of Webb Creek the alluvials proved essentially barren.
- 1969/70 A stream sediment and reconnaissance mapping programme was conducted in the Coldstream and Ramsay drainages. Four geochemical anomalies, R1 - 4 were obtained in various combinations of Ag, Cu, Sn and Zn.
- 1971/72 The regional programme continued with follow up by detailed sampling of anomalies R1 to 4, heavy concentrate sampling in the Ramsay and Huskisson rivers backed up by geological mapping and rock chip sampling. The geochemical anomalies derived were dubbed R5 to 10. These anomalies were for Pb/Zn, Cu, Zn, Ni, Sn, Zn and Sn. The programme was expanded with sampling of the Hatfield-Que drainages. Four anomalies, C1 - 4 were defined from the results. The anomalous metals were various combinations of Cu, Zn and Ni with one anomalous value for Sb.

Anomalies R2 and R5 led to the Will O'Wisp target area, which was subsequently drilled (open file) but this area is being retained and will not be reported further here.

A regional stream sediment sampling and mapping programme took place in the Bulgobac/Que River area. Four geochemical anomalies were identified in the vicinity of the Emu Bay railway line at Bulgobac (Bul.1-4). These were followed up by additional sampling and some gridding (Bul.4). The anomalies were traced to the soil ballast of the railway line which provided assays of at least 0.1% Cu, and 2% Pb and Zn. No mineralisation was discovered. The anomalous zone is underlain by the contact zone between a large body of quartz porphyry and black shales and sediments of the western series of the Mt Read Volcanics.

- 1973 Detailed follow up of the drainage anomalies commenced. Anomalies R1, R6, R9 and R10 were covered by a single grid known as the Ott Creek Grid. The grid was subjected to soil sampling with analyses for Cu, Pb and Zn with some parts of the grid additionally analysed for Sn. Geological mapping was completed. No final report was written on the work done but the results are presented in the appended document:-

"Stage Report on the Ramsay Grids CAI & CAG in EL 5/63 Part 2" Green 1982.

- 1974 Three soil grids were planned to follow up the more promising portions of anomalies C2 and 3 (Hatfield R area). Grid 1, 4 x 300m lines, was cut and sampled but never mapped. Low order, semicoincident responses, which repeat poorly, were recorded for Cu, Zn and Ni. The original programme was abandoned at this stage.

- 1975 An INPUT survey utilising a 400m line spacing on an E-W flight track was flown. Eight target areas were interpreted from the results in the area now being surrendered. They are known as CAG, CAI, CAM, CAJ, CAF, CAL, CAE and Bulgobac (CAH). The first seven mentioned were followed up by establishment of grids, collection of soil samples and ground EM and magnetic surveys. Geological mapping was done. Comprehensive reporting of the results achieved are contained in the following documents:-

CAG and CAI in the above mentioned report.
 CAE, CAL, CAF and CAJ - "Interim Report on the Ramsay Area" Pigott 1980.
 CAF - "Interim Report on Ramsay Grid CAF" Green 1982.
 CAL - "Interim Report on Diamond Drilling" Green 1982.
 CAM - "Interim Report on Ramsay Grid CAM" Green 1983.
 CAJ - "Interim Report on the Mount Ramsay Tin Tungsten Project" Pigott 1983.

3.

1978 A reassessment of the 1971 Hatfield/Que geochemical survey was conducted. It redefined the original anomalies and drew attention to the coincidence of the INPUT effect, dubbed CAH, at Bulgobac.

1979 The Bulgobac area was reinvestigated following recognition that an INPUT anomaly coincided with the original geochemical anomaly. This new phase of work again failed to see encouragement in the lithotypes present or the alteration effects. It was concluded after restudy of the INPUT data that the prominence of the anomaly was due to a low traverse by the "bird" over the railway line.

1979/80 A regional stream sediment and geological mapping programme was conducted in the northern part of the West Ramsay area. This is reported in;

"Interim Report on the Ramsay Area EL 5/63 Part 2" Pigott 1980.

1980 The above mentioned programme led to follow up in an area known as CSB - the old South Bischoff Mine area. Successive phases of gridding, leading to drilling programmes, were conducted. Intersections of subeconomic levels and widths of greisen vein style mineralisation in granite were achieved. Details of the work done and the results are documented in the following reports:-

"Preliminary Report on the South Bischoff Mine Area (CSB) in EL 5/63 Part 2" Green 1981.

"Stage Report on the South Bischoff Mine Area (CSB) EL 5/63" Green 1983.

Final Report on the South Bischoff Prospect (CSB) EL 5/63 Area 2" Levings 1983.

1982 Geoex conducted a detailed airborne magnetic survey over the whole Ramsay area. This generated four targets for follow up:- L30, L80, L211 and L250. Details of the results achieved are recorded in:-

"Interim Report on the West Ramsay Grids CAI, CAM, L30, L80, L211, L250 and CKC" Levings 1984.

It should be noted that drilling was done in the CAI and CAM grids, without economic success.

The CKC project was an attempt to assess the prospective Cambrian/Precambrian boundary in the area by a soil sampling programme. The above mentioned report documents the exploration in the western section of the Ramsay area. No further work was done after this date.

006

1984/85 The abandoned intent to follow up the C2 anomaly in the Hatfield drainage was corrected. The area became known as the "Hatfield Zinc" anomaly and a programme to verify the anomalism was drafted. The work done and results of the exploration programme are recorded in the following document:-

"Hatfield 'Zinc' Anomaly, Interim Report" Everett 1985.

CONCLUSIONS

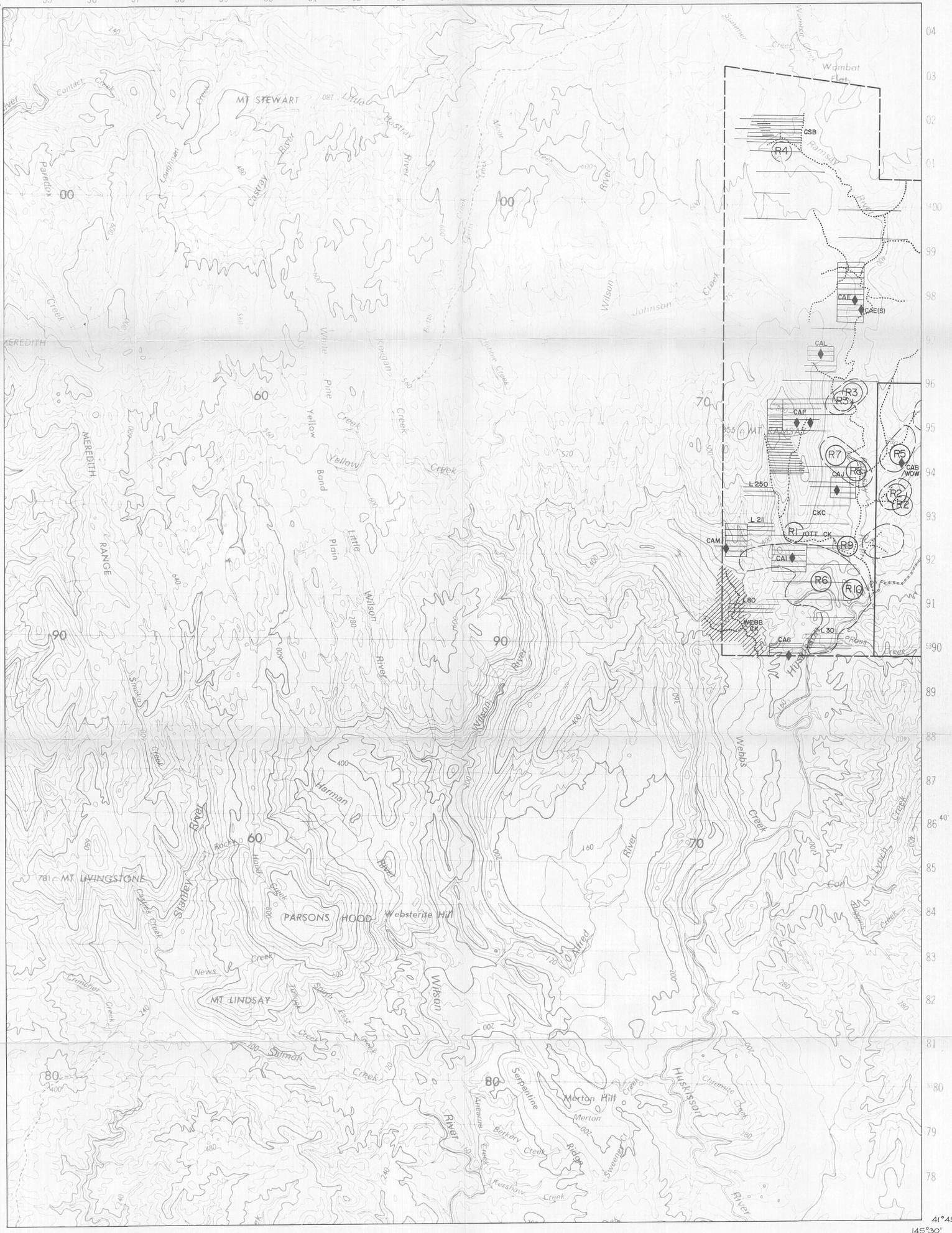
The fifteen years of exploration in the Ramsay area have permitted the classification of the region into three prospective provinces. The western area - where the emphasis has been on the emanations from the Meredith granite; the central portion dominated by huge thicknesses of Cambrian sediments has yielded anomalies which may suggest distal massive sulphides as a target, and the eastern salient of the licence block where elements of the Mt Read volcanic pile occur and have stimulated work on volcanogenetic targets sensu stricto. Technical success has been greatest in the western province where drill holes have intersected massive to near massive sulphides in INPUT anomaly targets. Without exception however economic minerals have not accompanied the accumulations of pyrrhotite. CSB, the South Bischoff Mine, can be regarded as a classical occurrence of minor greisen vein style mineralisation hosted with granite. Its economic potential is very low and historical production from the mine probably relied on easily won, residually enhanced, near surface accumulations of cassiterite.

In the central portion of the licence anomalism has been attributable to enhanced metal levels in the pyritic black shales which are essential members of the sequence.

The eastern salient provided greatest encouragement in the Bulgobac area. Unfortunately the targets being tested were proven to derive from contamination along the Emu Bay railway line.



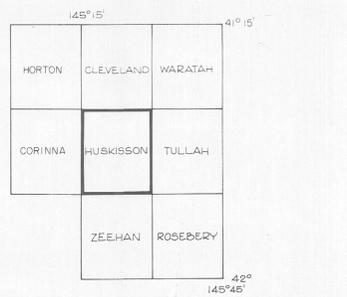
Compiled from Comstaff Reports by
R W L SHAW
M P EVERETT
MAY 1985



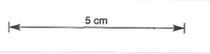
CONTOUR INTERVAL 40 METRES

LEGEND

- existing lease boundary
- - - proposed lease boundary
- 1969/70 stream sediment sampling
- (R1) anomalous results achieved
- (R1) 1969/70 Webb creek alluvial program
- (R6) 1970/71 follow-up stream sediment sampling
- (R6) 1970/71 follow-up anomalies
- (R6) 1971 stream sediment sample coverage
- BUL2 1971 anomalies
- (C2) 1971/72 stream sediment sample coverage
- (C2) 1971/72 anomalies
- 1972 Will-O-Wisp grid started (now CAB/WOW)
- 1973 Bulgobac grid started
- ◆ CA1 1975 Input geophysical anomaly
- L80 1982 Geox magnetic anomaly
- CKC 1983 grid to cover Precambrian/Cambrian margin

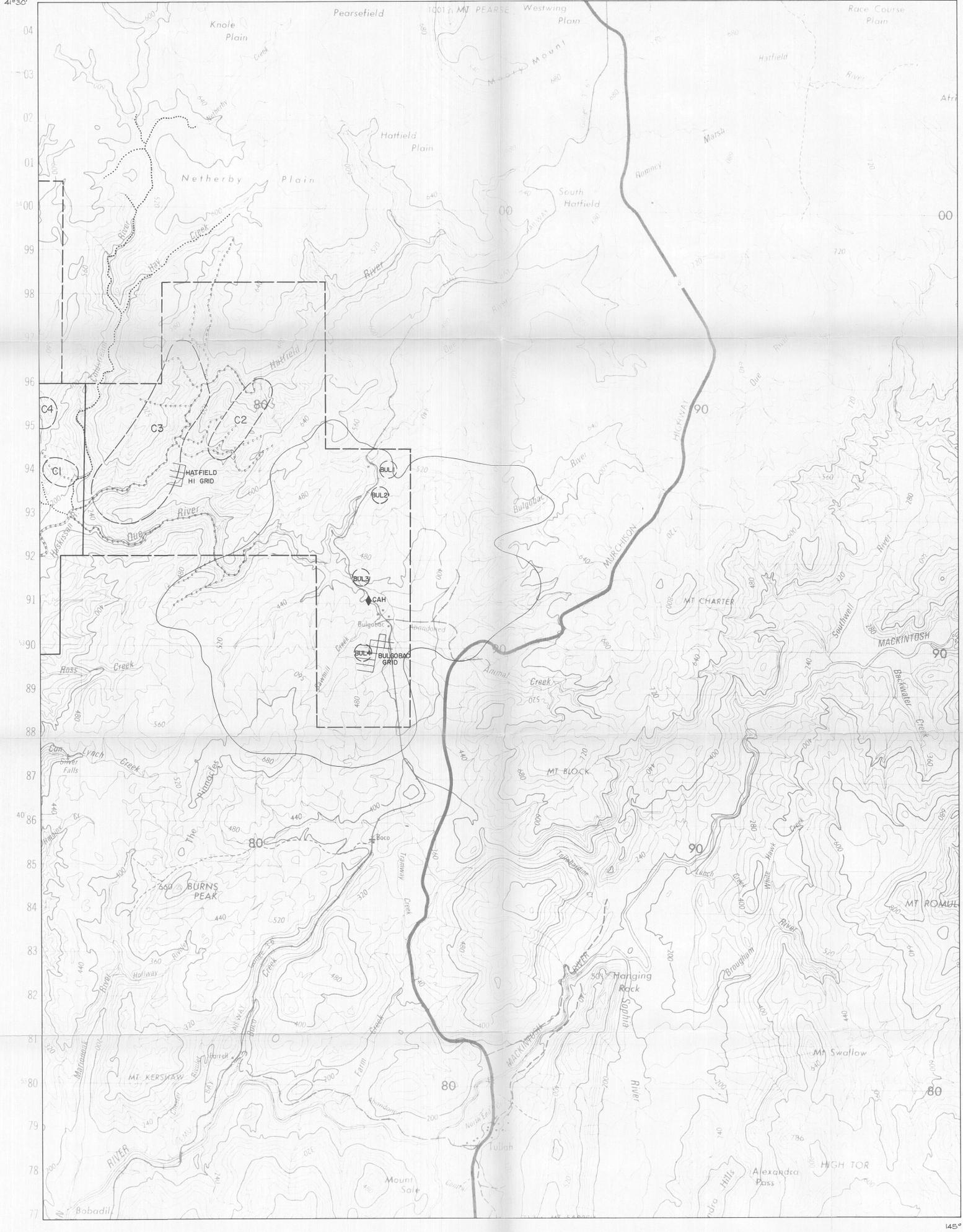


0 1 2 3 4 5 km



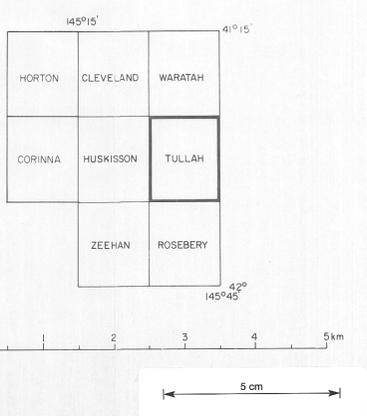
COMSTAFF PROPRIETARY LIMITED
 EL 5/63 AREA 2 - RAMSAY 007
 PLAN TO ACCOMPANY SURRENDER REPORT

COMPILED BY R.W.L.S., M.P.E.
 DRAWN BY J.H.
 DATE 15/5/85
 SCALE 1:50 000
 TMS/2/4239



CONTOUR INTERVAL: 40 METERS

FOR LEGEND SEE TAS/2/4239



178008

COMSTAFF PROPRIETARY LIMITED

EL 5/63 AREA 2 - RAMSAY 008

PLAN TO ACCOMPANY SURRENDER REPORT

DRAWN	DATE
JH	15/5/85
AMENDED	
SCALE	50 000
TRANSIT	TAS/2/4240

85-2385



CONTOUR INTERVAL 40 METRES

41°45'
145°30'

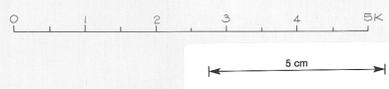
COMSTAFF PROPRIETARY LIMITED

178009

REGIONAL GEOLOGICAL INTERPRETATION
HUSKISSON PLAN 009

1:50 000
G.F.P.
GSD/RAFT 27/9/82
SCALE 1:50 000
TAS/2/3076

HORTON TAS/2/3072	CLEVELAND TAS/2/3073	WARATAH TAS/2/3074
CORINNA TAS/2/3075	HUSKISSON TAS/2/3076	TULLAH TAS/2/3077
ZEEHAN TAS/2/3078	ROSEBURY TAS/2/3079	



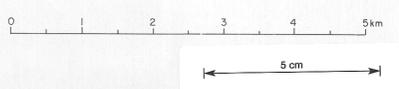
85-2358



CONTOUR INTERVAL 40 METERS

41° 45' 145° 45'

HORTON TAS/2/3072	CLEVELAND TAS/2/3073	WARATAH TAS/2/3074
CORINNA TAS/2/3075	HUSKISSON TAS/2/3076	TULLAH TAS/2/3077
ZEEHAN TAS/2/3078	ROSEBERY TAS/2/3079	



COMSTAFF PROPRIETARY LIMITED
178010
1 : 50 000
REGIONAL GEOLOGICAL INTERPRETATION
TULLAH PLAN
010
COMPILED S.F.P.
DRAWN S.F.P.
CHECKED S.F.P.
APPROVED S.F.P.
SCALE 1 : 50 000
TAS/2/3077

55-2388