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				Registrar
D. DIR.	14 JAN 1985			E & IL
DEPT. OF MINES				
REF. No. 423/85				

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PROJECT NAME: COMSTAFF PROPRIETARY LIMITED

TITLE: FINAL REPORT TO THE DEPARTMENT OF MINES, TASMANIA

EXPLORATION LICENCE  
1/68 HEAZLEWOOD

**MICROFILMED**

AREA NAME/S, STATE 1:250,000 SHEET NO/S & COORDINATES: Burnie Sheet S55/3

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

TEXT PAGES NO: 5

PLAN NOS: See List of Plans

TABLE NOS: -

APPENDICES: 2

AUTHOR/S: R W L SHAW

DATE: October 1984

**OPEN FILE**

AUSTRALIAN ANGLO AMERICAN LIMITED

Incorporated in the State of Victoria

LIST OF PLANS

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COMSTAFF PROPRIETARY LIMITED

FINAL REPORT TO THE DEPARTMENT OF MINES, TASMANIA

EXPLORATION LICENCE 1/68 HEAZLEWOOD

1. INTRODUCTION

EL 1/68 covers an area drained principally by the Savage and Heazlewood Rivers north of Luina. It totals 175 square kilometres. In accordance with the new rules which require reduction to 125 square kilometres the minimum by which the licence could be reduced is 50 square kilometres. However, application is hereby being made for the total surrender of the licence. The licence came into being in 1968 as a subdivision from the greater EL 5/63. Further the licence was reduced to the present size on 4.6.76.

The text which follows is divided into two parts. The first summarises exploration which took place since the licence was issued and the second describes in detail the work carried out and results achieved in the final year of tenure.

2. SUMMARY OF RESULTS TO 31/12/83

In the early period of exploration of this licence work focussed on the ultramafics and their potential as hosts to nickel mineralisation. The project was known as Bald Hill - it included the old Cawdry's prospect from which historical records indicate some 250 oz of osmiridium were recovered. Gridding, soil sampling, geological mapping, geophysical surveys and some trenching failed to identify any new mineralisation.

Regional reconnaissance projects were then implemented in the Savage, Whyte and Heazlewood drainages. The first mentioned appears not to have generated any follow up targets within the licence area. Whyte River work led to a relook at Bald Hill with the addition of Cu, Pb and Zn to the suite of anomalous elements. The project failed to respond positively to gridding and was again written off.

The work in the upper Heazlewood River drainage basin is well documented with pertinent observations on the geology and recommendations for follow up of some stream sediment results. The commodity of interest, in the Friday Creek area, was principally Zn, with some associated Cu. Grids were cut which became known as HAB and HAC. Geological mapping and soil sampling were conducted to ascertain the source of the base metal anomalies detected in silt samples. No mineralisation was found and geochemical responses were weak.

2.

It was considered that although a range of geochemical values occurred they reflected the varied lithotypes in the area and were within 10% of background. Geologically reference is made to the presence of dacitic and andesitic volcanics. Tertiary basalts cap certain ridges but alteration and or sulphides were not reported from the work done. A Final Report on these grids was composed in 1980.

A new phase of exploration commenced in 1980 with total coverage of the licence by a DIGHEM <sup>11</sup> survey. Anomalous responses were generated by the survey which were interpreted by both DIGHEM and our own geophysicist. Thirteen targets were followed up. Douglas McKenna and Partners were contracted to investigate four in 1981 and our geological staff did the remainder in 1982, 1983. These targets range in geological environment from within ultrabasic complexes to predominantly metasedimentary environments. All grids were geologically mapped, soil sampled, and subject to ground magnetic and EM surveys. Their environment was drainage sampled and geologically checked.

In all cases no mineralisation, nor evidence of the presence of mineralisation was encountered, either geologically or geochemically. However EM responses were obtained and were interpreted to range from deep to shallow sources.

In the latter part of 1983 two targets, grids 19A and 29A were selected for drill testing to identify the conductive material. In the case of 19A there was a weak surface geochemical response and the conductor was considered to be shallow. It was conceivable that a shale hosted, massive sulphide style of mineralisation may be responsible for the effects. In the case of 29A shales were again mapped at surface, but no anomalous geochemical patterns were present. In this case the conductor was deep and the target may have been truly blind, except to geophysics. Drilling beyond the first two holes was contingent upon the results with target grid 37 destined for a drill hole in the event of encouragement.

### 3. DETAILS OF FINAL YEARS WORK (1984)

Logistical arrangements were completed permitting the drilling of 201.5m in two holes testing two EM targets. The drill core was logged, geochemically sampled and the relative conductivity of the lithotypes was assessed. No evidence of mineralisation was encountered in the drill holes and conductive zones within the black shales and slates are compatible with the interpretations of the geophysical targets.

3.

The conclusions in the report "Interim Report on the Heazlewood Project" 16/11/83 were adopted as the basis for the drilling programme. This report should be referred to for detailed geological, geophysical and geochemical data on the targets probed.

In summary the logic for each target was:-

#### Grid 19A

A shallow EM conductor (20-30m) correlated closely on surface with a unit of black slate. The EM conductor also coincided closely with a Cu, Pb, Zn, Ag, As, Sn? geochemical anomaly. The black slates, commonly carbonaceous and pyritic, may indicate a formational EM response. However, the geochemical anomaly was distinctly high compared with other black slates, and mineralisation within the slates could be extensive. Drill hole HAA-1 tested this location.

#### Grid 29

Although the Genie response trends parallel to strike of the sediments, no surface manifestation, either geological or geochemical, could be correlated with the EM results. This was believed to be related to the predicted large depth of the EM conductor at 30-50m. Black phyllites occur on the grid and were postulated to be present, with or without extensive mineralisation, at depth. Drill hole HAA-2 tested this location.

Briefly each hole achieved the following:-

#### HAA - 1 (19A)

**Geology:** A distinctive black graphitic slate was intersected between 74.0 and 82.0m. The slate is highly conductive and correlates with the position of the EM anomaly. 40 cm of dolomitic limestone occurs within this unit of black slate. The unit, including the limestone, contains pyrite up to 1 - 2% as thin layers parallel to bedding, veins and occasional patches. The remainder of the hole comprises slates and slaty siltstones, plus a green meta-volcanic from 96.4 to 97.2m.

**Geochemistry:** Enhanced Cu, Pb, Zn, As, (up to Cu:110, Pb:195, Zn:1850 As:65 ppm) values occur between 74 and 82m associated with the black graphitic slates. Au and Sn values were below detection limit (though a sludge sample from 76.9 - 80m gave 7 ppm Sn).

4.

HAA - 2 (29)

Geology: Logging of the hole revealed an interbedded sequence of black phyllite, phyllitic siltstone and green metavolcanics. The black phyllites and to a lesser extent the metavolcanics are typically rich in pyrite (up to 3-4%).

Geochemistry: All geochemical results from HAA-2 are low and no anomalous zone is indicated.

Neither drill hole intersected mineralisation which might be regarded as economically encouraging, nor which would explain the electromagnetic effects which lead to the prospect. However examination of the drill core permits a correlation between the EM target and conductive zones amongst the lithotypes logged. Also it is apparent that there is no change in the geochemical signature from surface to the down the drill hole correlates.

**HAA - 1:** Based on a vertical dip, as confirmed by drill core foliations, the EM target correlates with the band of pyrite-rich conductive graphitic slates (plus calcareous units) between 72 and 84 metres. These black slates are geochemically anomalous in Cu, Pb, Zn and As relative to the adjacent more siliceous units. This correlates with the coincident geochemical anomaly associated with the EM target as seen at surface.

**HAA - 2:** The EM target for this hole correlates with a band of conductive black graphitic phyllite, interbedded with medium-grained green metavolcanics, between 72 and 86.5 metres. This band contains abundant pyrite-rich patches and lenses. Geochemical values were low throughout the hole, consistent with the lack of geochemical response at the surface.

4. CONCLUSION

The drilling programme yielded results which can be satisfactorily reconciled with the geophysical, geochemical and geological signatures being probed. Both holes failed to intersect mineralisation. Further, both holes failed to provide evidence that mineralised, or mineralising systems exist in the province. They provide no stimulus to look again at the other geophysical targets which were gridded. It is recommended that no further work be directed towards targets 19A and 29.

5. OVERALL CONCLUSIONS

Beyond the direct conclusion from the drilling programme it is clear from the failure of geochemical exploration techniques to 1980 and geophysical techniques more recently, both backed by appropriate geological input, that there remains no lead, or avenue from which to approach the licence area with the hope of discovering mineralisation. The only known metallic minerals in the area are minor chromite and osmiridium which are related to the ultramafic complexes. Work prior to 1975, and subsequent, though indirect, through heavy mineral concentrates, reduces these commodities to the category of 'occurrences' as opposed to potential deposits.

It is therefore concluded that Comstaff Proprietary Limited should surrender the licence EL 1/68 in toto.

*for* 

R W L SHAW  
August 1984.

007

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

That in the three months ended 31 December 1984 we have expended \$2 096 on work on Exploration Licence 1/68 and that this is further broken down into:

	\$
(a) Operational staff costs	1 396
(b) General operational expenses	-
(c) Transport and travel	169
(d) Tenement costs	-
(e) Contractors	-
(f) Specialist services	531
(g) Drilling and treatment	-
(h) Capital expenditure	-
(i) Administration costs	-
	<hr/> 2 096 <hr/>

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 Tenth day of January )  
)  
1985)

*O. Fonseca*

Before me:



**B. N. LECKIE**  
COMMISSIONER FOR TAKING AFFIDAVITS

A P P E N D I X 1

DRILLHOLE LOG

248010

LOCAL CO-ORDS  
GRED 19A L1000E/1120N

Summary Sheet

PROJECT EL 1/68

AREA HEAZLEWOOD (SAVAGE RIVER)

DRILLHOLE TYPE  
DIAMOND

CO-ORDS E 355920  
N 5414050

DECLIN 46.5. AZIMUTH 325 M.N RL 460

DH No. HAA-1

DATE COMMENCED 1/2/84

DATE COMPLETED 4/2/84

DRILLED BY OVERLAND

DRILL RIG SCOUT W-250

Non Coring to: 20

HQ Core to: —

NQ Core to: 102.5

BQ Core to:

EOH-102.5

SURVEY DATA

Instrument:

DEPTH	DECLINATION		AZIMUTH	DEPTH	DECLINATION		AZIMUTH
	Uncorr	Corr			Uncorr	Corr	
0	46.5		325 M.N				
101	47.5		319 M.N				

LOG SUMMARY

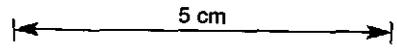
ROCK TYPE	MINERALIZATION		
	Style	Grade	Intersection width (Corr)
0-20M: ROCK ROCKER - NO CORE			
20-38M: Interbedded slaty siltstones and siliceous slates	32.7 - 34	Minor pyrite patches & disseminations	
38-51.75: Slates and siliceous slates	51.5	Minor pyrite (syngenetic)	
51.75-67.6: Slaty siltstones - with CO <sub>3</sub> /QTZ veins			
67.6-69.3 Black slate	67.6-69.3	Fine-grained disseminated pyrite.	
69.3-74 Slaty siltstone			
74-82 Black graphitic slate with calcareous slate and dolomitic limestone (major conductive zone)	74-82	Pyrite-rich zone 1-2% Av.	
74-75.7: Black slate with CO <sub>3</sub> veins	74-75	Veins of coarse pyrite (1-2mm)	
75.7-76.8: Calcareous slate	75.7-76.8	Thin pyrite layers parallel to bedding	
76.8-77.2 Dolomitic limestone	76.8-77.2	Patches of massive pyrite	
77.2-77.4 Calcareous slate	77.2-77.4	Thin pyrite layers	
77.4-77.5 Black slate			
(77.5-80) NO CORE			
80-82 Black slate	80-82	Minor disseminated pyrite	
82-94.6 Slaty siltstone & sands and veins of CO <sub>3</sub> /QTZ.			
94.6-96.4 Black/grey slate	94.6-96.4	Pyrite-rich lenses	
96.4-97.2 Actinolite - chlorite (green) slate			
97.2-98.5 Black slate	97.2-98.5	Disseminated pyrite and pyrite-rich layers	
98.5-102.5 Black/grey slate and slaty siltst.	98.5-102.5	Pyritic layers	

E.O.H.

Signature

Date

010



DRILL ADVANCE				LITHOLOGY					
DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION
				0-20 m	No Core				
20	2.70	1.0	37%	20	Grey foliated slaty siltstone			21.5 F <sub>1</sub> /CA = 5°	
22.70	3.10	.70	22%	23	Grey sil. slate and minor siltstone			25.6 bedding parallel to foliation	
25.20 25.70	3.20 3.80	.80 .60	24 1/2% 21%	26				27.4 F <sub>1</sub> /CA = 45°	
				28	Interbedded siltstones and slates				
31.70	2.60	.80	19%	32				32 F <sub>1</sub> /CA = 45°	32.7 Minor Pyrite

248011

SCALE 1:100 (1cm = 1m)

COMSTAFF PROPRIETARY LIMITED

DRILLHOLE LOG FOR DDH HAA-1

LOGGED BY R.H. ROBERTS FROM 0 TO 33m

DATE /2/84

PAGE 1 OF 6

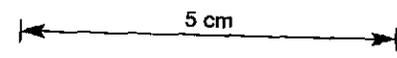
011

5 cm

DRILL ADVANCE				LITHOLOGY					
DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION
				33					33-34: Minor patches & disseminations of pyrite
34.30	.40	.60	66%	34					
35.20	2.80	.40	14%	35					
				36					
				37					
38.00	1.00	.40	40%	38	grey to grey/black slate				39 Pyrite
				39	- some slates carbonaceous				
				40					
				41					
41.00	2.10	.20	9%	41					
				42					
				43	Quartz Pod				
43.10	.40	.30	33%	43					
				44					
44.00	.40	.40	44%	44					
				45					
44.90	1.60	.40	25%	45					
				46					
				47					
46.50	1.50	.50	35%	47	Quartz Pod				
				48					
47.80	2.20	.40	15%	48					

SCALE 1:100 (1cm = 1m)

248012



DRILL ADVANCE				LITHOLOGY					
DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION
50.00	1.00	.70	70%	50	50.4 Mud unit		[Graphic Log Scale]		Synchronous pyrite
51.00	.70	.50	71%	51					
51.70	2.10	1.20	67%	51-75	Predominantly slaty siltstones  Cos/Qtz veins common - veins at post bedding & pre major foliation		52 FOL/FA = 45° 52.2 - thick folding		
53.80	1.70	.80	47%	54					
55.50	.80	.40	60%	56					
56.00	.60	.50	62%	56					
56.80	2.30	.40	16%	57					
59.00	3.00	.46	15%	59					
62.00	3.00	.60	20%	62					

SCALE 1:100 (1cm = 1 m)

248013

013

5 cm

248014

LITHOLOGY

DRILL ADVANCE

DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION
				63					
63.00	.70	.30	42%	65				65 Fol/CA = 45°	
63.70	1.40	1.48	92.5%	66					
67.30	.90	.40	44%	67-6	Black slate - parts very carbonaceous				Fine disseminated pyrite in more carbonaceous patches
68.30	1.90	1.35	71%	69-3	Slaty siltstone			Fol/CA = 35°	
70.70	1.00	.90	90%	70					
71.10	2.00	.90	45%	71					
73.70	1.30	.40	30%	74	Black carbonaceous slate + qtz/Co <sub>3</sub> veins				74-75 Veins of coarse (1-2mm) pyrite
74.30	1.20	.30	25%	75					
75.60	.80	.30	60%	76	Calcareous slate			76-1 Folding (A.P. foliation)	75-7-76-8 Thin pyrite layers parallel to bedding
76.10	.80	.40	50%	77	Dolomitic limestone Glaucous slate - well bedded				Patches of massive pyrite thin pyrite layers
76.90	3.10	.50	16%	76	NO CORE				

SCALE 1:100 (1cm = 1m)

COMSTAFF PROPRIETARY LIMITED

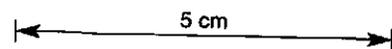
DRILLHOLE LOG FOR DDH HAA-1

LOGGED BY R.H. ROBERTS FROM 63 TO 78m

DATE 1/2/84

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014

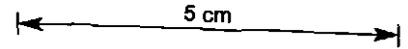


DRILL ADVANCE				LITHOLOGY					
DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION
				78	No Core		[Scale]		
				79					
80.00	.60	.30	50%	80	Black carbonaceous slate		[Scale]		Disseminated and layered pyrite
80.60	1.80	.30	16%	81					
82.40	2.30	2.10	91%	82	Well layered slaty siltstone - some slate bands  pods and veins of qtz/CO <sub>2</sub> : ptygmatically folded		[Scale]	82.5 °L/CA = 45°	
				83					
84.70	1.20	1.10	91%	84			[Scale]		
86.90	1.20	1.10	91%	85			[Scale]		
87.10	.90	.60	66%	86			[Scale]		
88.00	3.10	3.10	100%	87			[Scale]		
				88			[Scale]		
				89			[Scale]		
				90			[Scale]		
				91			[Scale]		
91.10	2.30	2.20	95%	92			[Scale]		
				93			[Scale]		

SCALE 1:100 (1cm = 1m)

248013

015



DRILL ADVANCE				LITHOLOGY					
DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION
92.40	1.50	1.30	86%	93					
94.90	1.30	.70	53%	94.6	Black / grey slate - $qz/cor$ veining				94.9 Pyrite 95.1 Pyrite-rich lenses 95.3-95.6 Pyrite in veins + lenses 95.6-96.2 Pyrite lens
95.60	1.70	1.40	82%	95.3	Int. slate + green volc				
				96.4	Actinolite / Chlorite slate (foliated meta-volcanic)				Pyrite lenses
97.30	.70	.60	112%	97.2	Black Carbonaceous slate			$Fol/CA = 45^\circ$	Disseminated Pyrite + Pyrite-rich layers
98.00	1.00	.90	90%	98.5	Slaty siltstones + grey/black slates - $Co_3/Qtz$ veins				Minor pyrite
99.00	1.50	.50	33%						
100.50	2.00	1.30	90%	100	Slaty siltstone			$Fol/B/CA = 42^\circ$	
				102	Interbedded black/grey slate				Pyritic layers + lenses 102- Crescent-shaped pyrite lens
102.50	EOH								

SCALE 1:100 (1cm = 1m)

248016

248017

018

5 cm

SLUDGE

Metres	Cu	Pb	Zn	Ag	As	Sn												SAMPLE NUMBER
0																		
0.5	55	160	1300	1.0	53	BLD												
1.0	45	150	2050	1.0	34	BLD												
2.0	60	140	2100	1.0	31	BLD												
3.0	75	175	1750	1.5	46	5												
4.0	50	130	1600	0.5	35	BLD												
5.0	50	140	800	1.0	46	BLD												
6.0	65	255	1500	1.5	41	BLD												
7.0	50	315	2350	1.0	35	BLD												
8.0	55	320	2600	1.5	36	BLD												
9.0	45	125	1000	1.0	35	BLD												
10.0	30	90	770	0.5	20	BLD												
11.0	35	80	785	0.5	23	BLD												
12.0	40	80	560	1.0	25	BLD												
13.0	50	100	880	0.5	29	BLD												
14.0	60	80	840	1.0	31	BLD												
15.0																		

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ASSAY RESULT SHEET FOR

DDH HAA-1

ASSAYED BY ANALABS

FROM 0 TO 15m

DATE /2/84

PAGE OF

248018

017

5 cm

SLUDGE

	Meters	Cu	Pb	Zn	Ag	AS	Sn										SAMPLE NUMBER
15	15m	150	105	650	1.0	34	BLD										
16	16m	70	60	600	1.0	19	4										
17	17m	50	35	450	0.5	14	BLD										
18	18m	70	15	305	0.5	11	BLD										
19	19m	50	35	430	0.5	29	BLD										
20	20m																

COMSTAFF PROPRIETARY LIMITED

ASSAY RESULT SHEET FOR

DDH HAA 1

ASSAYED BY ANALABS

FROM 15 TO 20m

DATE /2/84

PAGE OF

5 cm

SLUDGE

metres	Cu	Pb	Zn	Ag	As	Sn	Au									SAMPLE NUMBER
75																
76.9																
78	140	210	2150	1.0	42	7	BLD									
80																
80																
81																
82																
83																
84																
85																
86																
87																
88																
89																
90																

248019

COMSTAFF PROPRIETARY LIMITED

ASSAY RESULT SHEET FOR

DDH HAA-1

ASSAYED BY ANALABS

FROM 76.9 TO 80

DATE 1/2/84

PAGE OF

5 cm

GROUND CORE

Metres	Cu	Pb	Zn	Ag	As	Su										SAMPLE NUMBER
15																
16																
17																
18																
19																
20																
20 m	55	25	185	0.5	10	BLD										
21																
22																
22 m	40	35	225	1.0	7	BLD										
23																
24																
25																
25 m	55	35	225	1.0	8	BLD										
26																
27																
28																
28 m-31 m	55	30	105	1.5	12	BLD										248020
29																
30																

020

5 cm

GROUND CORE

Metres	Cu	Pb	Zn	Ag	As	Sn										SAMPLE NUMBER
31m	75	25	195	1.5	12	BLD										
34m	50	20	120	1.0	12	BLD										
37m	65	35	260	1.0	17	BLD										
40m	60	40	195	1.5	15	BLD										
45m-46m	50	40	170	1.0	9	BLD										

248021

COMSTAFF PROPRIETARY LIMITED

ASSAY RESULT SHEET FOR DDH HAA-1

ASSAYED BY ANALABS

FROM 30 TO 45

DATE 15/2/84

PAGE 2 OF 6

5 cm

GROUND CORE

Metres	Cu	Pb	Zn	Ag	As	Sn										SAMPLE NUMBER
45																
46 m																
47	60	20	155	1.0	4	BLD										
48																
49 m																
50	55	35	190	1.0	9	BLD										
51																
52 m																
53	55	25	185	1.0	10	BLD										
54																
55 m																
56	50	15	120	1.0	10	BLD										
57																
58 m - 61 m	55	25	90	0.5	3	BLD										248022
59																
60																

COMSTAFF PROPRIETARY LIMITED

ASSAY RESULT SHEET FOR

DDH HAA-1

ASSAYED BY ANALABS

FROM 45 TO 60

DATE 15/2/84

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5 cm

GROUND CORE

Metres	Cu	Pb	Zn	Ag	As	Sn	Au									SAMPLE NUMBER
61m	65	10	85	0.5	3	BLD										
62m	65	20	100	1.0	3	BLD										
67m	75	175	1450	0.5	48	BLD	BLD									
70m	45	25	215	0.5	4	BLD	BLD									
73m	60	25	490	1.0	18	BLD	BLD									
74m	110	120	670	1.0	29	BLD	BLD									
75m																

248023

COMSTAFF PROPRIETARY LIMITED

ASSAY RESULT SHEET FOR

DDH HAA-1

ASSAYED BY ANALABS

FROM 60m TO 75m

DATE 15/2/84

PAGE 4 OF 6

023

5 cm

GROUND CORE

Metres	Cu	Pb	Zn	Ag	As	Sr	Au									SAMPLE NUMBER
75 m	95	60	245	1.0	12	BLD	BLD									
76 m	60	40	230	0.5	12	BLD	BLD									
77 m	75	130	1850	0.5	40	BLD	BLD									
78 m																
80 m	95	195	1600	0.5	65	BLD	BLD									
81 m	60	155	890	1.5	46	BLD	BLD									
82 m																
84 m	45	10	90	1.0	4	BLD										
85 m																
87 m	45	BLD	115	1.0	3	BLD										
88 m - 91 m																
89 m	45	BLD	90	0.5	3	BLD										

248024

COMSTAFF PROPRIETARY LIMITED

ASSAY RESULT SHEET FOR

DDH HAA-1

ASSAYED BY ANALABS

FROM 75 TO 90 m

DATE 15/2/84

PAGE 5 OF 6

024

5 cm

GROUND CORE

Metres	Cu	Pb	Zn	Ag	As	Sn										SAMPLE NUMBER
91m	40	BLD	85	0.5	3	BLD										
94m	55	70	1400	1.0	29	BLD										
97m	60	110	855	0.5	28	BLD										
100m	40	25	180	0.5	18	BLD										
102.5	EOH															248025

COMSTAFF PROPRIETARY LIMITED

ASSAY RESULT SHEET FOR

DDH HAA-1

ASSAYED BY ANALABS

FROM 90 TO 102.5

DATE 15/2/84

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0255

248026

Page: 1

Drill Core : Conductivity & Magnetic Susceptibility - CTU-2								
DDH : HAA-1			Date : 8-2-84			Operator : CS.		
Depth	Core Diameter	Conductivity Freq. No.	Meter Reading	$\sigma d^4$	$d^4$	Magnetic Susceptibility	$\sigma$	Comments
<del>21.0</del>		1	.2					
		2	.1					
		3	.6					
22.0		1	0					
		2	.1					
		3	.6					
23.0		1	0					
		2	0					
		3	.2					
29.10		1	0					
		2	.2					
		3	.3					
30.6		1	0					
		2	.1					
		3	0					
33.0		1	0					
		2	.1					
		3	.1					
46.6		1	0					
		2	0					
		3	-.2					
48.8		1	0					
		2	.1					
		3	.2					
51.9		1	0					
		2	.1					
		3	.4					
52.0		1	0					
		2	.1					
		3	.2					
54.0		1	0					
		2	.1					
		3	.3					
55.7		1	0					
		2	.2					
		3	.5					
56.0		1	0					
		2	.1					
		3	.3					

026

248027

Page: 2

Drill Core: Conductivity & Magnetic Susceptibility - CTU-2								
DDH: HAA-1			Date: 8/2/84			Operator: es.		
Depth	Core Diameter	Conductivity Freq. No.	Meter Reading	$\sigma d^4$	$d^4$	Magnetic Susceptibility	$\sigma'$	Comments
59.0		1	0					
		2	.1					
		3	.5					
62.0		1	0					
		2	.1					
		3	.2					
65.0		1	0					
		2	.2					
		3	.2					
66.0		1	0					
		2	.1					
		3	.5					
67.0		1	0					
		2	.2					
		3	.5					
68.0		1	0					
		2	.1					
		3	.3					
69.0		1	-.3					
		2	.9					
		3	24.0					
70.0		1	0					
		2	.1					
		3	.9					
71.0		1	0					
		2	.2					
		3	.5					
72.0		1	0					
		2	.2					
		3	.6					
73.0		1	0					
		2	.1					
		3	.6					
74.0								
76.10		1	0					BROKEN CORE
		2	.1					
		3	.1					
77.0		1	0					POOR CONDUCTIVITY
		2	.2					
		3	.4					

027

Drill Core: Conductivity & Magnetic Susceptibility - CTU-2									
DDH: HNA-1		Date: 9.2.84			Operator: C.S.				
Depth	Core Diameter	Conductivity Freq. No.	Meter Reading	$\sigma d^4$	$d^4$	Magnetic Susceptibility	$\sigma$	Comments	
80.0		1	0	}					
		2	.1						BROKEN CORE
		3	.7						POOR CONDUCTIVITY
82.4		1	-.5						
		2	.1						
		3	.1						
83.0		1	0						
		2	.1						
		3	.2						
84.0		1	0						
		2	.2						
		3	.2						
85.0		1	0						
		2	.2						
		3	.5						
86.0		1	0						
		2	.1						
		3	.3						
87.0		1	0						
		2	.1						
		3	.2						
88.0		1	0						
		2	.3						
		3	1.0						
89.0		1	.1						
		2	.2						
		3	.7						
90.0		1	-.1						
		2	.2						
		3	.8						
91.0		1	-.1						
		2	.1						
		3	.5						
92.0		1	0						
		2	.1						
		3	.7						
93.0		1	0						
		2	.1						
		3	.3						



029

A P P E N D I X 2

DRILLHOLE LOG

248031

Summary Sheet

PROJECT EL 1/68 AREA HEAZLEWOOD (SAVAGE RIVER) DRILLHOLE TYPE Diamond  
 CO-ORDS DEC<sup>LN</sup> -45.5° AZIMUTH 320° MN RL DH No. HAA-2

DATE COMMENCED 7/2/84 DATE COMPLETED 11/2/84 DRILLED BY OVERLAND DRILL RIG Scout W-250

Non Coring to: &13-17m HQ Core to: 29.6m NQ Core to: 99m BQ Core to: EOH 99m

SURVEY DATA Instrument:

DEPTH	DECLINATION		AZIMUTH	DEPTH	DECLINATION		AZIMUTH
	Uncorr	Corr			Uncorr	Corr	
99	-43	-	316° MN				

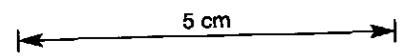
LOG SUMMARY

ROCK TYPE	MINERALIZATION		
	Style	Grade	Intersection width (Corr)
0-7m Rock Roller - No Core			
7-13m Phyllitic Siltstone - qtz veins parallel to fol			
13-17m Rock Roller - No Core			
17-42m Phyllitic Siltstone interbedded with green metavolcanics	17-42: Minor Pyrite		
42-45m Cavity: No Core			
45-51m Puggy green meta- volcanic			
51-55m Black graphitic phyllite	51-55: Minor Pyrite		
55-72m Interbedded metadoler- ite, black phyllite and phyllitic siltstone	55-57.2: Minor disseminated pyrite 58.4: Coarse pyrite in vein 64.5-67.5: Pyrite blebs		
72-86.5m Interbedded meta- volcanic (medium grained) and black phyllite	72-86.5: Patches and blebs of pyrite		
86.5-99m Interbedded siltstones, EOH phyllitic siltstones, and fine-grained green metavolcanics	89.9-99: Blebs & stringers of pyrite 94.1: Minor sphalerite & galena in a Co <sub>3</sub> /qtz vein		

Signature

Date

031



DRILL ADVANCE				LITHOLOGY					
DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION
				0	ROCK ROLLER NO CORE				
7.00	3.30	.20	9%	7	Phyllitic siltstone ̄ wide-spaced cleavage + qtz veins semi-parallel to foliation Carbonaceous phyllitic layers			FOL/CA = 36°	
9.30	3.70	.70	9%						
13.00									

10

SCALE 1:100 (1cm = 1m)

248032

COMSTAFF PROPRIETARY LIMITED

DRILLHOLE LOG FOR DDH HAA-2

LOGGED BY R.H. ROBERTS FROM 0 TO 15.00

DATE 12/84

PAGE 1 OF 7

248033

5 cm

# LITHOLOGY

## DRILL ADVANCE

LOST CORE	DRILL ADVANCE				LITHOLOGY					
	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION
					15					
					16					
					17					
					18					
					19					
					20					
					21					
					22					
					23					
					24					
					25					
	26.00	1.00	.70	70%	26					
	27.00	1.00	.70	50%	27					
	28.40	1.20	.30	25%	28					
	29.60	1.00	.60	60%	29					
NQ					30					

SCALE 1:100 (1cm = 1m)

248033

COMSTAFF PROPRIETARY LIMITED

DRILLHOLE LOG FOR DDH HAA-2

LOGGED BY B.H. ROBERTS FROM 15 TO 30m

DATE 12/84

PAGE 2 OF 7

033

5 cm

DRILL ADVANCE				LITHOLOGY					
DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION
				30				Fol/CA = 30°	
30.60	.80	.10	12%	31					
31.40	2.40	.40	16%	32					
				33					
33.80	.30	.10	33%	34					Minor Pyrite
34.10	.50	.05	10%						
34.40	1.10	.50	45%						
				35	Green Meta-volcanic				
				36	Black Sil. Phyllite interbedded with Green Meta-volcanic				Blebs of Pyrite
35.60	.50	.40	80%						
36.00	.90	.60	88%						
				37	Phyllitic Siltstone				
36.90	.60	.50	83%						
37.50	.60	.30	50%						
				38	Green meta-volcanic				
38.10	1.00	.80	80%		Phyllitic Siltstone				
				39				38.6 Fol/CA = 30°	
39.10	2.90	.40	15%						Pyrite Blebs
				40					
				41					
				42					
42.00	2.00	NO CORE			NO CORE				
				43					
				44					
				45					

SCALE 1:100 (1cm = 1m)

248034

034

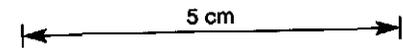
5 cm

DRILL ADVANCE				LITHOLOGY						
DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	
				45	Soft Puggy green Metavolcanic		[Scale]			
				46						
				47						
48.00	3.00	.10	3%	48	"					
				49						
				50						
51.00	2.00	.30	10%	51	Black graphitic Phyllite				Minor Pyrite	
				52						
				53						
54.00	1.40	.50	35%	54						
				55						
55.40	2.00	.80	40%	55	Green Meta-chlorite medium grained (< 1mm) foliated			FOL/CA = 25°	Minor Pyrite	
				56				shank folding	Minor Pyrite	
56.40	2.00	1.80	90%	56	Thinly bedded meta-tuff and slate - 25 veins // to fol			shank folding		
				57	Meta-chlorite					
				58	Thin siliceous layers and X-cutting veins.					
58.40	1.50	.60	40%	58	58.7-58.9 : Black Phyllite				58.4 Coarse patch of Pyrite in qtz vein	
				59						
59.90	1.50	1.30	92%	60						

SCALE 1:100 (1cm = 1m)

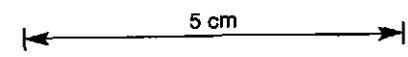
278600

035



DRILL ADVANCE				LITHOLOGY					
DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC (LOG)	STRUCTURE	MINERALISATION
				60	Interbedded Meta-dolerite and black phyllite		[Scale]		
61.20	.90	.70	77%	61					
				62	Phyllitic siltstone - bands of meta-dolerite		[Scale]	fol/CA = 30°	
62.10	1.90	1.90	100%	63					
64.00	.70	.60	85%	64					
				65	green volcanics (medium & fine grained) with Black and grey Phyllite		[Scale]	Disseminated blebs of Pyrite elongate // fol. 66.0 → 66.2: Pyrite rich	
64.70	1.30	1.30	100%	66					
66.00	1.40	1.30	92%	67					
				68	Phyllitic siltstone i coarse gty veins		[Scale]		
67.40	1.10	1.00	90%	69					
68.50	.40	.30	75%	70					
68.90	.90	.80	88%	71					
69.80	2.20	.90	40%	72					
				73	Black carbonaceous phyllite with bands of green volcanic		[Scale]	Patches rich in Pyrite layers and blebs.	248036
72.00	1.80	.60	33%	74					
73.80	2.80	.40	14%	75					
75.00	.80	.30	37%						

SCALE 1:100 (1cm = 1m)



DRILL ADVANCE				LITHOLOGY						
DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
				75						
75.80	1.80	.80	50%	76						
76.80	2.90	.40	13%	77						
				78						
				79						
79.70	1.30	.60	46%	80						
				81						
81.00	1.20	.70	58%	82						
				83						
82.20	1.30	.50	38%	84						
				85						
83.50	2.10	1.10	52%	86						
				87						
85.60	1.40	.90	64%	88						
				89						
87.00	.70	.60	85%	90						
87.70	.60	.50	83%							
88.30	1.50	.90	60%							
89.80	1.50	1.10	73%							

76 fol/CA = 40°

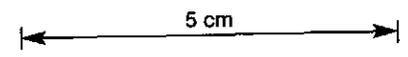
86.5 Fine-grained grey siltstone  
Phgsiltstone and green volcanic

86.7: fol/CA = 45°

SCALE 1:100 (1cm = 1m)

248037

037



DRILL ADVANCE				LITHOLOGY					
DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION
				90	Phyllitic siltstone and minor green volcanic.  92 → 94.3: Coarse $2\frac{1}{2}$ / $CO_2$ veins		[Vertical scale with tick marks]		Blebs + stringers of Pyrite
91.30	1.00	.80	80%	91					
92.30	.90	.50	71%	92					
93.00	1.00	.80	80%	93					
94.00	1.30	1.20	92%	94					
95.30	2.40	2.40	100%	95				94.1 $CO_2$ / RTZ vein + minor SPH and GAL.	
				96					Pyrite blebs
97.70	1.30	1.30	100%	97					
				98	Fol. siltstone				98.4 → 98.8: Pyrite rich
99.00	EOH			99	green Vols + Phyllitic siltstone				
				EOH					

SCALE 1:100 (1cm = 1 m)

248038

038

5 cm

GROUND CORE

Metres	Cu	Pb	Zn	Ag	As	Sn										SAMPLE NUMBER
0																
1																
2																
3																
4																
5																
6																
7																
8	45	15	20	BLD	6	BLD										
9																
10																
11																
12	40	50	30	BLD	3	BLD										
13																
14																
15																

248039

COMSTAFF PROPRIETARY LIMITED

ASSAY RESULT SHEET FOR

DDH HAA-2

ASSAYED BY ANALABS

FROM 0 TO 15

DATE 20/2/84

PAGE 1

OF 13

039

5 cm

GROUND CORE

Metres	Cu	Pb	Zn	Ag	As	Sn										SAMPLE NUMBER
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																
25																
26																
26 m																
27	40	20	40	BLD	5	BLD										
28																
29																
29 m																
30																

248010

COMSTAFF PROPRIETARY LIMITED

ASSAY RESULT SHEET FOR

DDH HAA-2

ASSAYED BY ANALABS

FROM 15 TO 30 m

DATE 20/2/84

PAGE 2

OF 13

040

5 cm

GROUND CORE

Metres	Cu	Pb	Zn	Ag	As	Sn										SAMPLE NUMBER
30																
31	40	25	70	BLD	5	BLD										
32m																
33	70	10	105	BLD	7	BLD										
34																
35m																
36	70	30	90	BLD	5	BLD										
37																
38m																
39	50	15	113	BLD	8	BLD										
40																
41																
42m																
43																
44																
45																

248041

041

5 cm

GROUND CORE

Metres	Cu	Pb	Zn	Ag	As	Sn										SAMPLE NUMBER
45	45m															
46																
47		70	10	100	BLD	10	BLD									
48	48m															
49																
50		50	10	90	BLD	20	BLD									
51	51m															
52																
53		75	5	30	BLD	9	BLD									
54	54m															
55																
56		75	20	90	BLD	11	BLD									
57	57m															
58																
59		55	20	105	BLD	9	BLD									
60	60m															

248042

COMSTAFF PROPRIETARY LIMITED

ASSAY RESULT SHEET FOR

DDH HAA-2

ASSAYED BY ANALABS

FROM 45m TO 60m

DATE 20/2/84

PAGE 4 OF 13

042

5 cm

GROUND CORE

Metres	Cu	Pb	Zn	Ag	As	Sn											SAMPLE NUMBER
60m																	
61	65	30	90	BLD	3	BLD											
62																	
63m																	
64	70	65	180	BLD	7	BLD											
65																	
66m																	
67	50	15	75	BLD	10	BLD											
68																	
69m																	
70	35	30	70	BLD	3	BLD											
71																	
72m																	
73	65	35	150	BLD	8	BLD											
74																	
75m																	

248043

COMSTAFF PROPRIETARY LIMITED

ASSAY RESULT SHEET FOR

DDH HAA-2

ASSAYED BY ANALABS

FROM 60 TO 75

DATE 20/2/84

PAGE 5 OF 13

043

5 cm

GROUND CORE

Metres	Cu	Pb	Zn	Ag	As	Sn											SAMPLE NUMBER
75 m																	
76	65	25	125	BLD	9	BLD											
77																	
78 m																	
79	70	25	100	BLD	7	BLD											
80																	
81 m																	
82	55	20	85	BLD	5	BLD											
83																	
84 m																	
85	55	20	105	BLD	3	BLD											
86																	
87 m																	
88	75	20	105	BLD	13	BLD											
89																	
90 m																	

248044

COMSTAFF PROPRIETARY LIMITED

ASSAY RESULT SHEET FOR

DDH HAA-2

ASSAYED BY ANALABS

FROM 75 TO 90

DATE 20/2/84

PAGE 6 OF 15

044

5 cm

GROUND CORE

Meters	Cu	Pb	Zn	Ag	As	Sn											SAMPLE NUMBER
90 m																	
70	15	75	BLD	9	BLD												
45 m																	
60	20	165	BLD	9	BLD												
40 m																	
70	20	65	BLD	6	BLD												
40 m																	

248045

COMSTAFF PROPRIETARY LIMITED

ASSAY RESULT SHEET FOR

DDH HAA-2

ASSAYED BY ANALABS

FROM 90 TO 99

DATE 20/2/84

PAGE 7

OF 13

5 cm

SLUDGE

Metres	Cu	Pb	Zn	Ag	As	Sn											SAMPLE NUMBER
0	0																
1	25	55	75	0.5	2	BLD											
2	15	BLD	20	BLD	1	BLD											
3	10	5	20	0.5	BLD	BLD											
4	15	5	10	0.5	2	BLD											
5	10	BLD	15	0.5	BLD	4											
6	20	20	20	0.5	2	3											
7	35	10	25	0.5	2	3											
8	105	20	70	BLD	3	BLD											
9																	
10																	
11																	
12																	
13	45	10	50	0.5	2	4											
14	15	5	20	0.5	1	BLD											
15																	

248016

COMSTAFF PROPRIETARY LIMITED

ASSAY RESULT SHEET FOR

DDH HAA-2

ASSAYED BY ANALABS

FROM 0 TO 5

DATE 20/2/84

PAGE 8 OF 13

046

5 cm

SLUDGE

Meters	Cu	Pb	Zn	Ag	As	Sn											SAMPLE NUMBER
15m	20	5	10	0.5	BLD	BLD											
16m	10	BLD	10	0.5	1	BLD											
17m																	
18m	20	30	30	0.5	1	BLD											
19m																	
20m																	
21m	30	5	25	BLD	8	BLD											
22m																	
23m																	
24m	55	10	40	0.5	4	BLD											
25m																	
26m	60	15	45	0.5	5	BLD											
27m																	
28m	50	90	135	BLD	7	BLD											
29-30m																	

248047

047

5 cm

SLUDGE

Metres	Cu	Pb	Zn	Ag	As	Sn											SAMPLE NUMBER
30																	
31																	
32																	
33	33 m	120	165	220	BLD	7	10										
34																	
35																	
36	36 m	115	85	100	BLD	7	12										
37																	
38																	
39																	
40	39.1																
41																	
42	42	155	55	165	BLD	7	BLD										
43																	
44																	
45	45 m	130	20	135	0.5	6	BLD										

248048

043

5 cm

SLUDGE

Metres	Cu	Pb	Zn	Ag	As	Sn										SAMPLE NUMBER
45 m																
46	130	25	100	BLD	9	BLD										
48 m																
49	120	10	125	BLD	21	BLD										
51 m																
52	190	20	140	BLD	15	BLD										
54 m																
55	250	30	220	BLD	16	BLD										
57 m																
58	250	30	220	BLD	9	BLD										
60 m																

248049

COMSTAFF PROPRIETARY LIMITED

ASSAY RESULT SHEET FOR

DDH HAR-2

ASSAYED BY ANALABS

FROM 45 TO 60

DATE 20/2/84

PAGE 11 OF 13

5 cm

SUDGE

Metres	Cu	Pb	Zn	Ag	As	Sn										SAMPLE NUMBER
60m																
61	160	70	125	BLD	13	BLD										
62																
63																
64																
65																
66																
67																
68																
69m																
70	105	35	130	BLD	11	BLD										
71																
72																
72m																
73	85	40	80	BLD	7	4										
74																
75																
75m																

248050

COMSTAFF PROPRIETARY LIMITED

ASSAY RESULT SHEET FOR

DDH HAA-2

ASSAYED BY ANALABS

FROM 60 TO 75

DATE 20/2/82

PAGE 12 OF 13

050

5 cm

SLUDGE

Metres	Cu	Pb	Zn	Ag	As	Sn										SAMPLE NUMBER
75																
75.2	105	30	80	BLD	13	BLD										
78																
78.2	80	20	85	BLD	8	BLD										
81																
81.2																
82.2	80	20	65	BLD	16	BLD										
83.4																
83.5																
84																
85	70	25	80	BLD	8	BLD										
85.6																

248051

051

Drill Core: Conductivity & Magnetic Susceptibility - CTU-2								
DDH: HAA/2			Date: 13/2/84		Operator: MD			
Depth	Core Diameter	Conductivity Freq. No.	Meter Reading	$\sigma_{d4}$	$d4$	Magnetic Susceptibility	$\sigma$	Comments
29m	NO	1	0					
	small	2	.01					
		3	-1.0					
30m	"	1	0					
		2	0					
		3	-1.1					
31m	"	1	0					
	small	2	0.05					
		3	-.7					
32m	"	1	0					
	small	2	.1					
		3	-.4					
33m	"	1	0					
	VERY small	2	-.1					
		3	0					
34m	"	1	0					
		2	-.2					
		3	-.7					
35m	"	1	0					
	small	2	0					
		3	-.5					
36m	"	1	0					
		2	0					
		3	-.4					
37m	"	1	0					
		2	.05					
		3	-.2					
38m	"	1	0					
		2	0					
		3	-.6					
39m	"	1	0					
		2	.1					
		3	-.4					
40m	"	1	0					
	VERY small	2	-.4					
		3	.1					
41m	"	1	0					
	VERY small	2	.1					
		3	-.1					
42-43	NO CORE							

052

Drill Core: Conductivity & Magnetic Susceptibility - CTU-2								
DDH: <del>14A</del> 14A/2		Date: 13/2/84		Operator: N D				
Depth	Core Diameter	Conductivity Freq. No.	Meter Reading	$\sigma_{dt}$	$d_t$	Magnetic Susceptibility	$\sigma$	Comments
54m	"	1	0					
54m	"	2	.05					
54m	"	3	.5					
55m	"	1	0					
55m	"	2	.2					
55m	"	3	-.2					
56m	"	1	0					
56m	"	2	.1					
56m	"	3	.4					
57m	"	1	0					
57m	"	2	0					
57m	"	3	-.3					
58m	"	1	0					
58m	"	2	-.1					
58m	"	3	-.1					
59m	"	1	0					
59m	"	2	0					
59m	"	3	.3					
60m	"	1	0					
60m	"	2	0					
60m	"	3	.2					
61m	"	1	0					
61m	"	2	-.05					
61m	"	3	-.3					
62m	"	1	0					
62m	"	2	.05					
62m	"	3	-.4					
63m	"	1	-.05					
63m	"	2	-.2					
63m	"	3	.90					
64m	"	1	0					
64m	"	2	0					
64m	"	3	.4					
65m	"	1	0					
65m	"	2	0					
65m	"	3	.5					
66m	"	1	0					
66m	"	2	0					
66m	"	3	-.1					

053

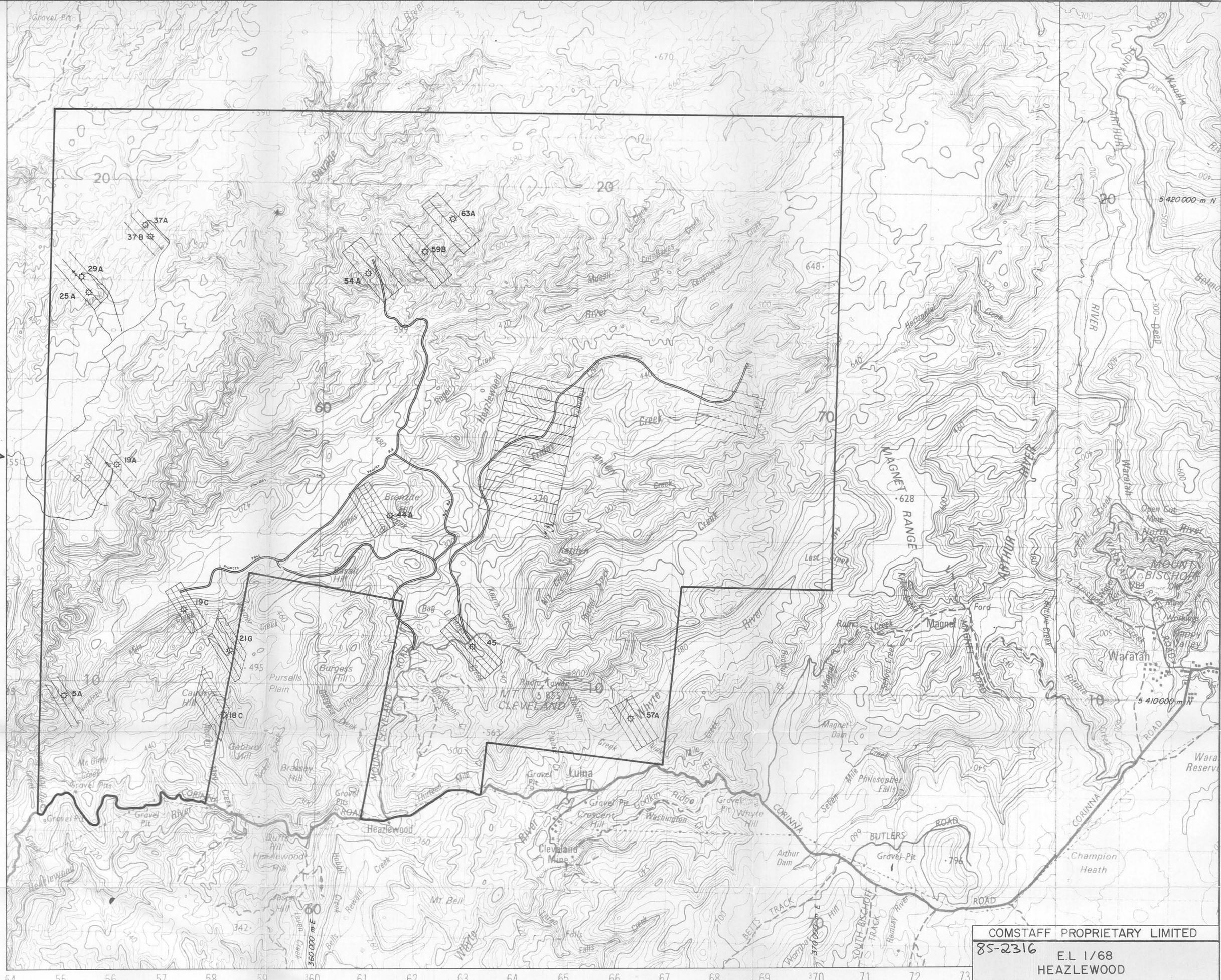
Drill Core: Conductivity & Magnetic Susceptibility - CTU-2								
DDH: HAA/2		Date: 8/2/84		Operator: M O				
Depth	Core Diameter	Conductivity Freq. No.	Meter Reading	$\sigma_{d1}$	$d1$	Magnetic Susceptibility	$\sigma'$	Comments
67m	" "	1	0					
		2	-.1					
		3	.7					
68m	" "	1	.05					
		2	-.1					
		3	.7					
69m	" "	1	0					
		2	0					
		3	.4					
70m	" "	1	0					
		2	.1					
		3	-.4					
71m small	" "	1	0					
		2	.05					
		3	.05					
72m small	" "	1	0					
		2	.1					
		3	2.7					
73m small	" "	1	0					
		2	-.1					
		3	.2					
74m	" "	1	0					
		2	0					
		3	-.2					
75m	" "	1	0					
		2	-.1					
		3	.7					
76m small	" "	1	0					
		2	0					
		3	-.1					
77m very small	" "	1	0					
		2	0					
		3	0					
78m very small	" "	1	0					
		2	.1					
		3	0					
79m small	" "	1	0					
		2	0					
		3	-.3					

054

Drill Core: Conductivity & Magnetic Susceptibility - CTU-2								
DDH: HAA/2			Date: 13/2/84		Operator: NO			
Depth	Core Diameter	Conductivity Freq. No.	Meter Reading	$\sigma_{d1}$	$d1$	Magnetic Susceptibility	$\sigma$	Comments
80M	"	1	0					
SMALL		2	0					
		3	-.1					
81M	"	1	0					
SMALL		2	0					
		3	.7					
82M	"	1	0					
SMALL		2	.1					
		3	1.3					
83M	"	1	0					
SMALL		2	.05					
		3	-.3					
84M	"	1	0					
		2	0					
		3	.3					
85M	"	1	0					
		2	0					
		3	.2					
86M	"	1	0					
		2	.1					
		3	.3					
87M	"	1	0					
		2	.05					
		3	.1					
88M	"	1	0					
		2	.1					
		3	.4					
89M	"	1	0					
SMALL		2	.1					
		3	.2					
90M	"	1	0					
		2	.05					
		3	.5					
91M	"	1	0					
		2	.05					
		3	.4					
92M	"	1	0					
		2	.1					
		3	.2					



248057



1km

Savage River Pipeline Road.

Len. 9/10km n of S.R. bridge.

**LEGEND**

- ⊙ Dighem anomaly location
- Access road/walking track construction
- Grid lines cut
- Grid line/drainage surveying
- Grid line/drainage sampling
- Geophysical survey
- Geological mapping
- ⊙ Drilling

COMSTAFF PROPRIETARY LIMITED

85-2316 E.L 1/68

HEAZLEWOOD

LOCALITY PLAN 485

COMPILED R.H.R.	DRAWN GEODRAFT	SCALE 1:50 000	TAS/2/3178
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CONTOUR INTERVAL 20 METRES.

5 cm

SUPPLEMENTARY GEOLOGICAL LEGEND

- Tds Tertiary basalts and tertiary gravels
- qt Quartzites and Siltstones - also includes impure quartzites and siltstones, which are typically foliated
- ss Silty Siltstones - have a spaced cleavage with thin pelitic layers parting a dominantly siliceous rock
- sil Siliceous Slate - Grey coloured slates. Thinly interbedded siliceous slates and slate also included in this type
- sl Black Slate - Distinct units of black slate
- Eu See TAS/2/3094
- ms Quartzites and Metabasalts
- ph Phyllitic Siltstones
- sil.ph Siliceous Phyllite
- bk.ph Black Phyllite
- maf Mafic units - medium grained amphibolite (metadolerite) and fine grained chlorite schists
- Eu see TAS/2/3094
- carb Carbonaceous
- py Pyritic
- sil Silicified
- Geological boundary
- - - Geological boundary - tentative
- 25° Strike and dip of bedding
- + Strike of vertical bedding
- 42° Strike and dip of foliation
- ☼ 25m Geie electromagnetic response, showing estimated source depth

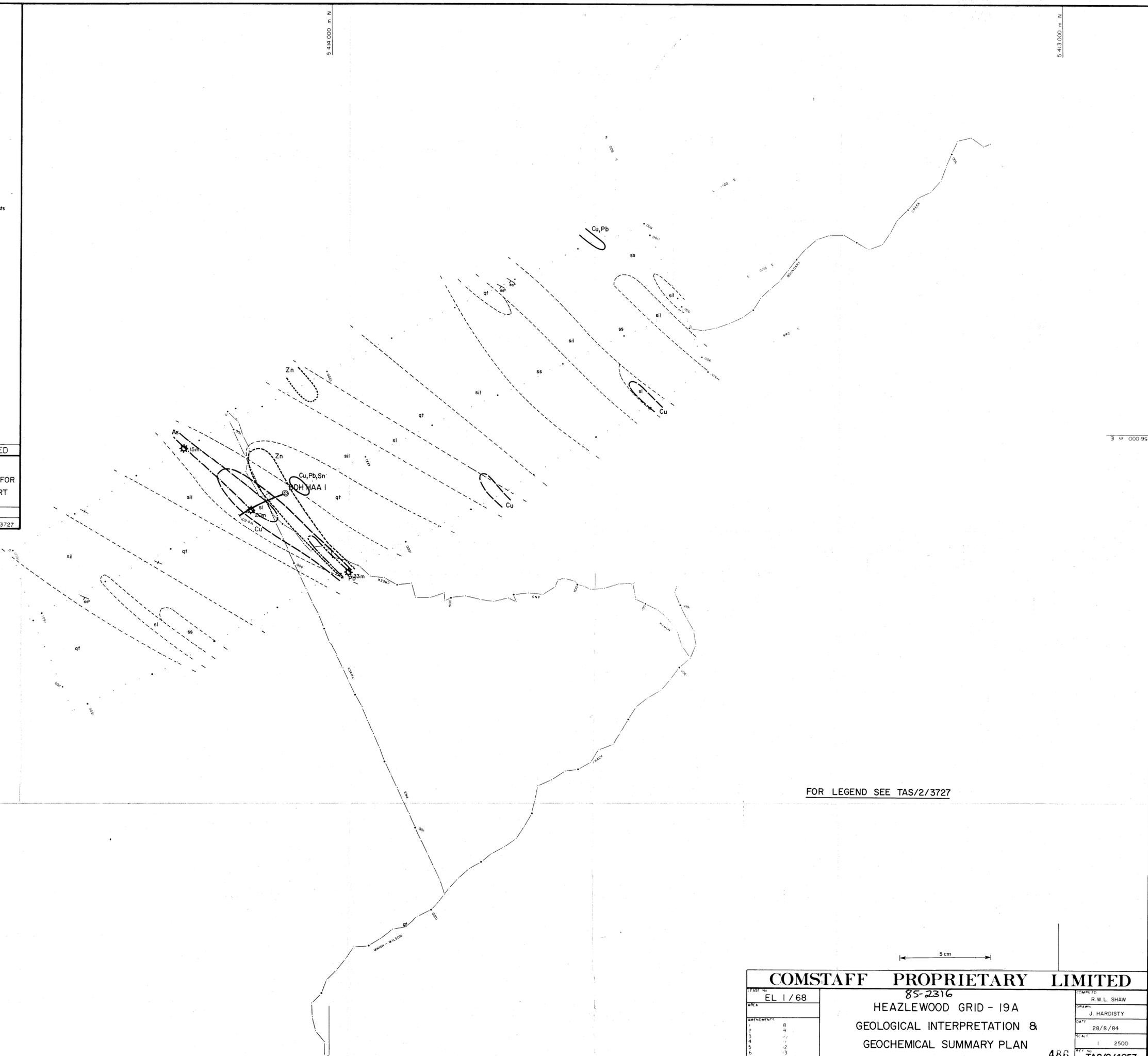
NOTE

This geological legend expands that on TAS/2/3094 and is for the geological interpretation for grids 19A, 25A, 37A, 54A, 59B, 63A and also 110 000 geological interpretation plans TAS/2/3731, 3732, 3734 of the same area

COMSTAFF PROPRIETARY LIMITED			
EL 1/68 - HEAZLEWOOD			
GEOLOGICAL INTERPRETATION LEGEND FOR			
1982-83 SUMMER EXPLORATION REPORT			
PREPARED BY	DRAWN BY	DATE	SCALE
R.H. ROBERTS	GEODRAFT	17/11/83	NTS
CLASS NO.	DRAWN NO.	PLAN NO.	PROJECT NO.
1/68		TAS/2/3727	

GEOCHEMICAL RESULTS

- Cu > 23 ppm
- Pb > 35 ppm
- Zn > 190 ppm
- Sn > 17 ppm
- As > 30 ppm



FOR LEGEND SEE TAS/2/3727

<b>COMSTAFF PROPRIETARY LIMITED</b>		
PROJECT NO.	85-2316	
EL 1/68	HEAZLEWOOD GRID - 19A	
GEOLOGICAL INTERPRETATION & GEOCHEMICAL SUMMARY PLAN		
SCALE	1:2500	
DATE	28/8/84	
DRAWN BY	J. HARDISTY	
CHECKED BY	R.W.L. SHAW	
REF. NO.	TAS/2/4053	

248059

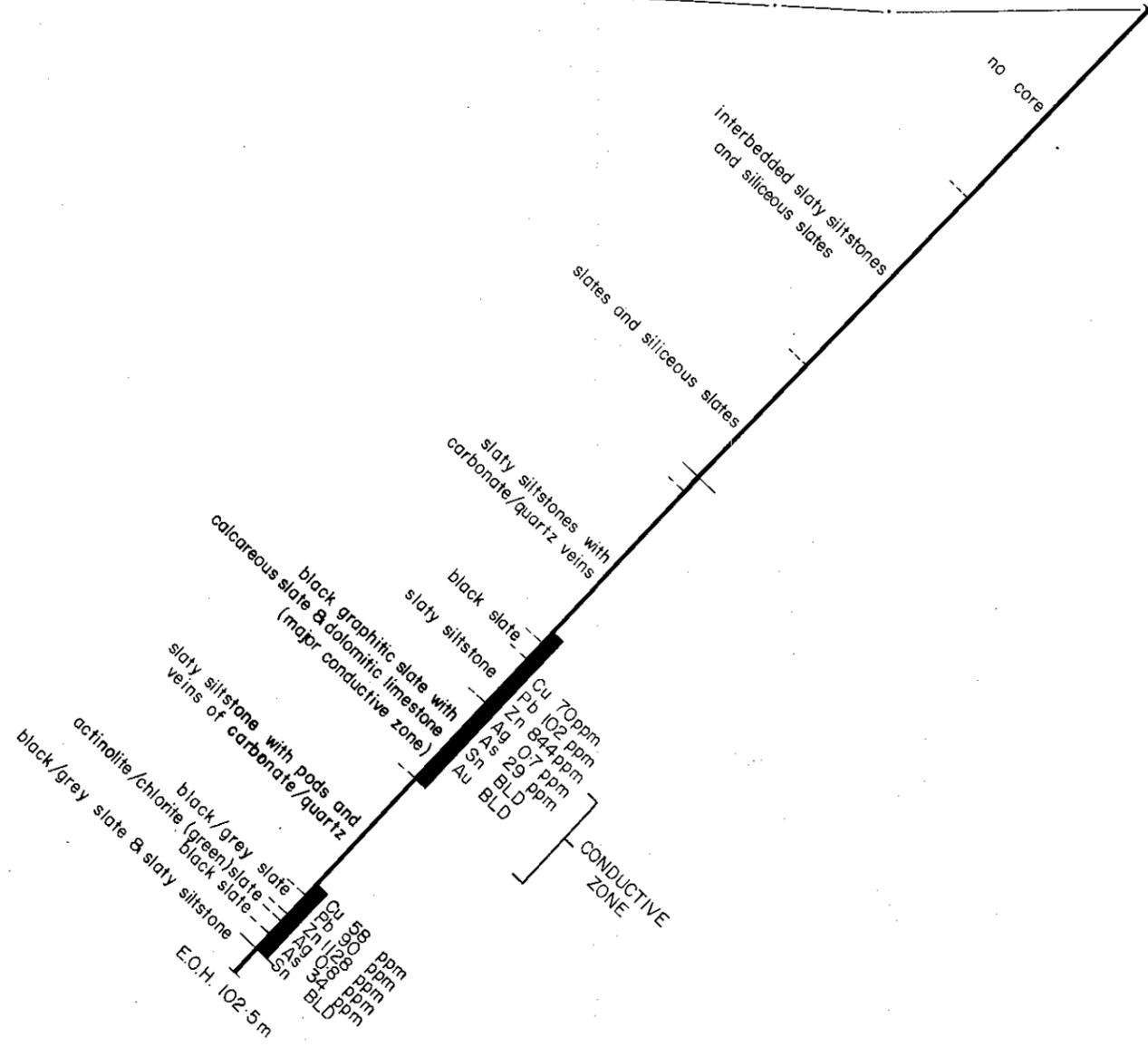
SECTION ORIENTATION 322°

GRID 19A L 1000 E

DDH HAA I (SECTION)

355 935 m E  
5 414 085 m N  
460 m RL  
DIRN 325°  
INCL -46.5°

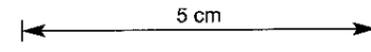
1100



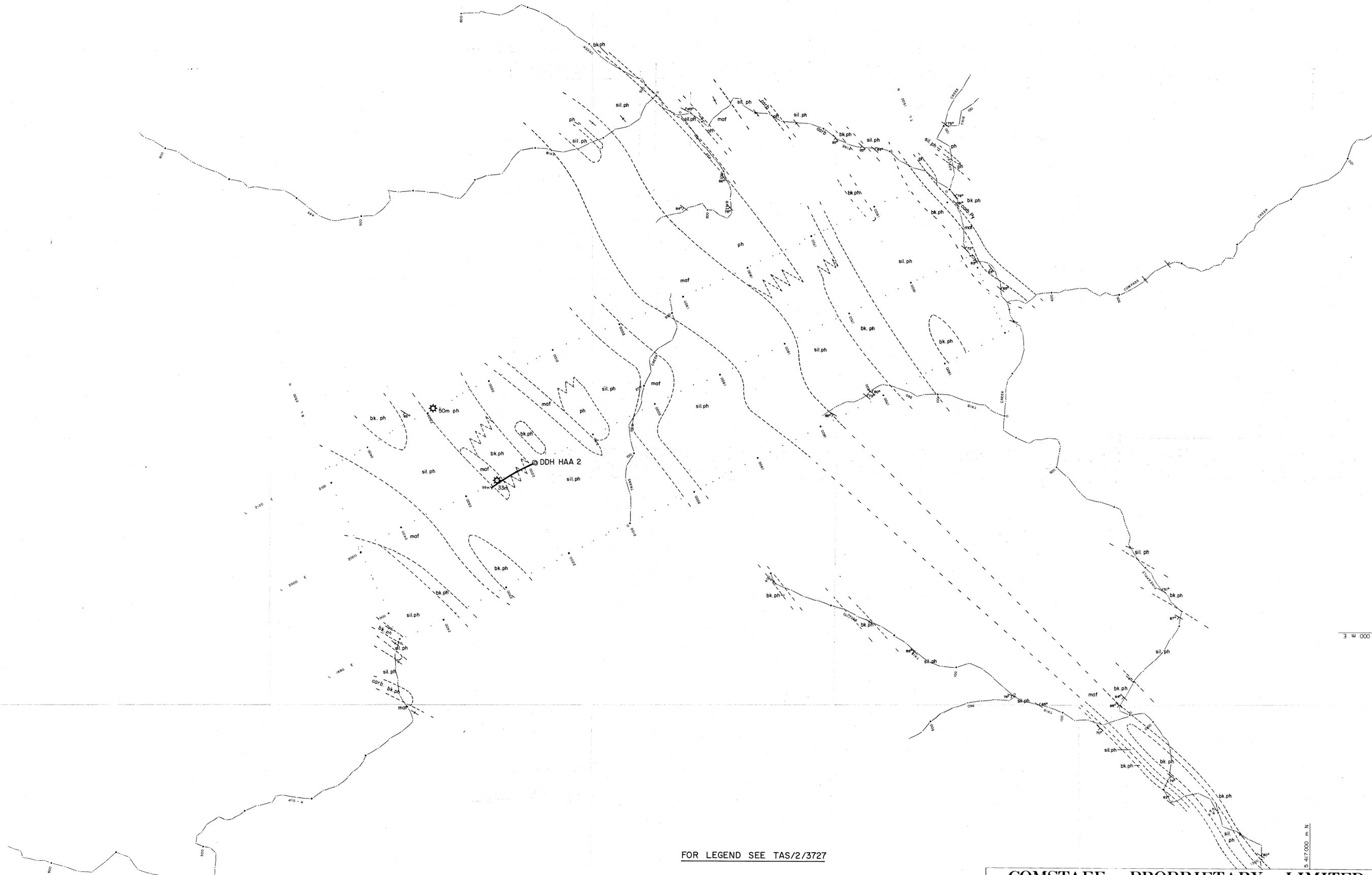
NOTE:- GEOCHEMICAL CUT OFF POINT IS 300 ppm ZINC

DDH HAA I (PLAN)

1100

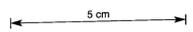


COMSTAFF PROPRIETARY LIMITED			
85-2316			
HEAZLEWOOD GRID - 19A			
SECTION OF DRILLHOLE DDH HAA I			
GEOLOGICAL DETAILS 487			
COMPILED	DRAWN	DATE	AMENDED
R.H.ROBERTS	R.H.ROBERTS	12/7/84	
LEASE No	AREA	SCALE	PLAN No
EL 1/68		1 : 500	TAS/2/4019



FOR LEGEND SEE TAS/2/3727

<b>COMSTAFF PROPRIETARY LIMITED</b>		COMPILED R. H. ROBERTS
LEASE NO. EL 1/68	85-2316	DRAWN GEO DRAFT
HEAZLEWOOD GRID - 29A		DATE 14 / 11 / 83
GEOLOGICAL INTERPRETATION PLAN		SCALE 1 : 2500
488		REV. NO. TAS/2/3360



5 418 000 m N

5 417 000 m N

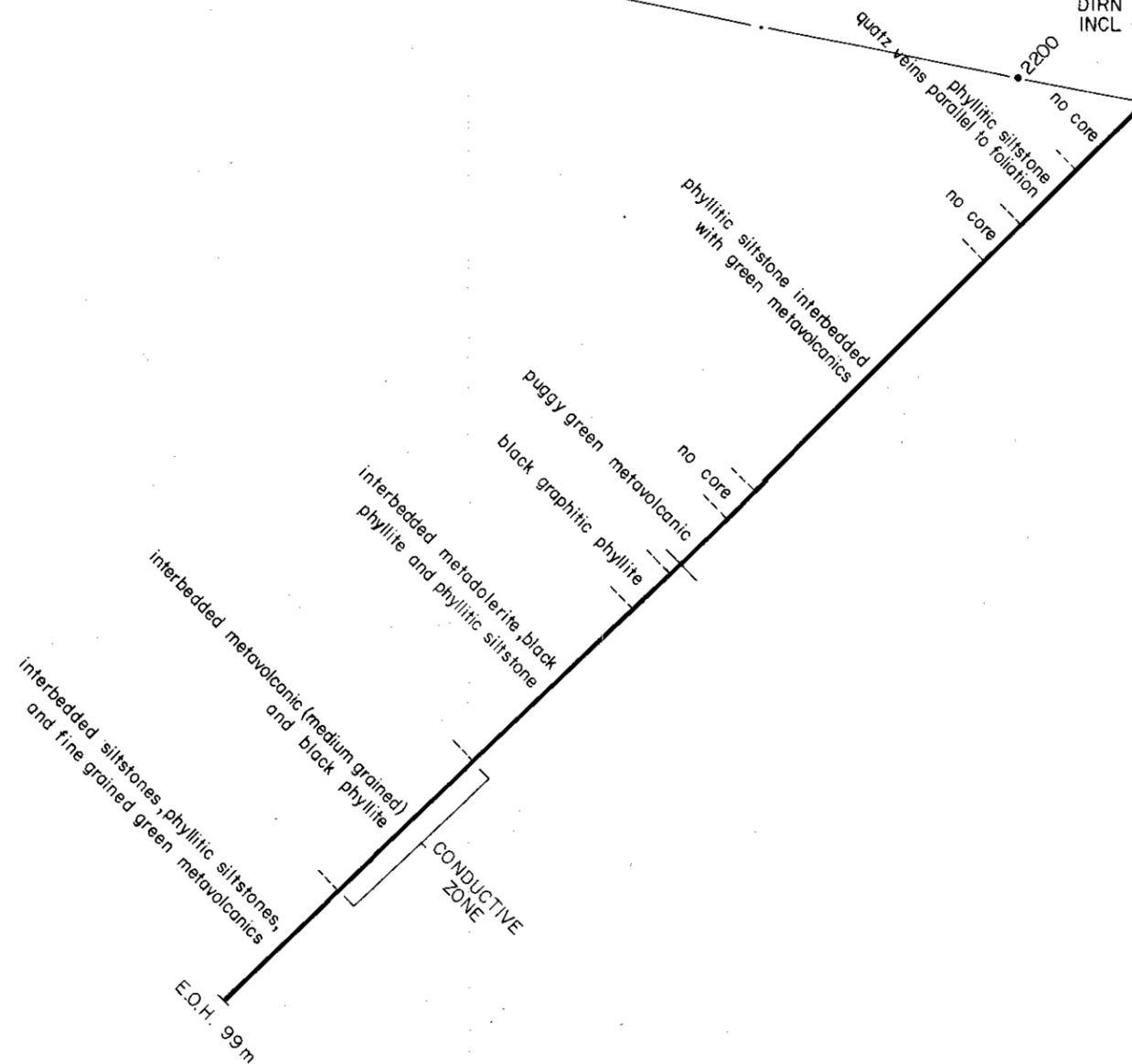
555 000 m E

248061

GRID 29 L 2000 E SECTION ORIENTATION 2300 322°

### DDH HAA 2 (SECTION)

355 070 m E  
5 417 830 m N  
830m RL  
DIRN 320° MN  
INCL -45°



NOTE: - ALL GEOCHEMICAL VALUES ARE LOWER THAN THE 300ppm ZINC CUT OFF POINT

### DDH HAA 2 (PLAN)

COMSTAFF PROPRIETARY LIMITED			
85-2316.			
HEAZLEWOOD GRID - 29			
SECTION OF DRILLHOLE DDH HAA 2			
GEOLOGICAL DETAILS 489			
COMPILED R.H.ROBERTS	DRAWN R.H.ROBERTS	DATE 12/7/84	AMENDED
LEASE No EL 1/68	AREA	SCALE 1:500	PLAN No TAS/2/4024

5 cm

**GEOLOGICAL LEGEND**

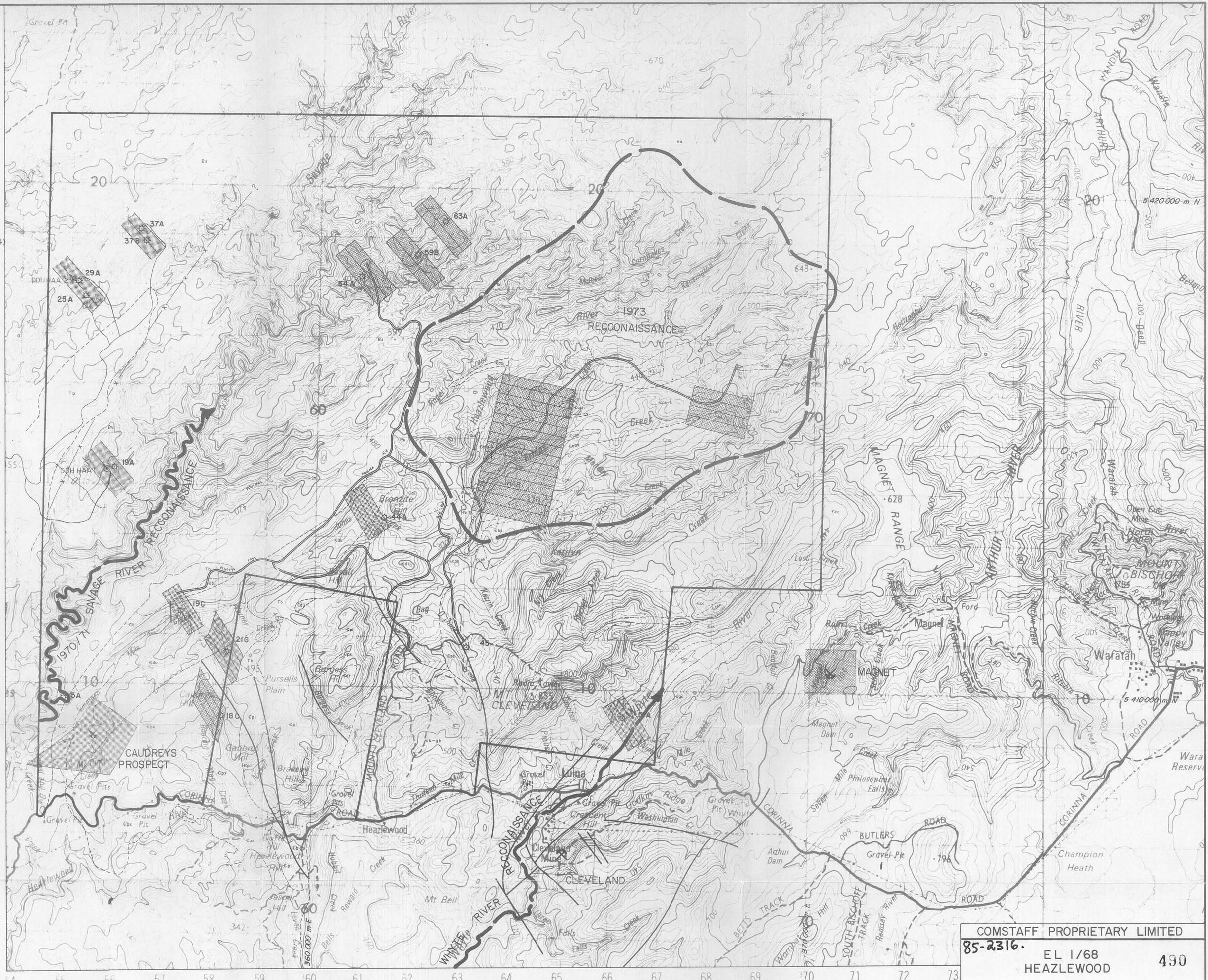
(FOR COMPREHENSIVE LEGEND SEE TAS/2/3094)

- Qc Alluvium, gravel, talus, fluvial deposits
- Tb Aikali olivine basalt
- cb Basalt, coarse to fine grained flows with minor sedimentary horizons
- cb-gb Cb(as above) + microgabbro-gabbro massive flows and sills
- cdr Microdolerite basalt flows and high level intrusives interlayered with sediments
- cb-s-b Cbs + Cb
- cb-s Pillowed or vesicular spilitic basalt lava
- cdi Diorite complex
- cpX Pyroxenite - undifferentiated
- epi Peridotite - undifferentiated
- edu Dunite-minor peridotite and pyroxenite, generally serpentinised
- cam Amphibolite
- qac Basalt gabbro complex with rafts of ultramafics
- ccc Undifferentiated
- ccch Banded chert
- ccar Basic volcaniclastic mudstone, may contain horizons of red and green argillite or silicified lithicwacks
- ccsh Shale
- ccfu Micaceous sandstone
- css Black mudstone, siltstone and minor sandstone
- eu Oonah formation sequences of quartzite and slate

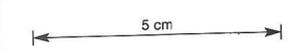
X X UPPER GREEN SCHIST METAMORPHIC FACIES  
 X X LOWER GREEN SCHIST METAMORPHIC FACIES

**LEGEND**

- ⊙ Dighem anomaly location
- Access road/walking track construction
- Grid lines cut
- Grid line/drainage surveying
- Grid line/drainage sampling
- Geophysical survey
- Geological mapping
- ⊕ Drilling
- ▨ Areas covered by detailed exploration



54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73  
 20  
 CONTOUR INTERVAL 20 METRES



COMSTAFF PROPRIETARY LIMITED  
 85-2316. EL 1/68 430  
 HEAZLEWOOD  
 SUMMARY OF EXPLORATION TO 6/84  
 COMPILED R.W.L. SHAW DRAWN GEODRAFT SCALE 1:50 000 TAS/2/4054