aac

PROJECT NAME:

COMSTAFF PROPRIETARY LIMITED

TITLE:

MONTHLY REPORT TO THE DEPARTMENT OF MINES, TASMANIA, FOR OCTOBER 1980

EXPLORATION LICENCE 5/63

AREA NAME/S, STATE 1:250,000 SHEET NO/S & COORDINATES: Burnie K55-03 and Queenstown K55-03 Sheets

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

TEXT PAGES NO: 7.

PLAN NOS: TAS/2/1801; 1802,. 2286 .

TABLE NOS:

APPENDICES: Drillhole summary log sheets for RBE 15 and 16.
Log sheets for parts of RBE 12, RBE 13 and 14.

AUTHOR/S: G. F. Pigott, N. P. Green

DATE: 29th October 1980

AUSTRALIAN ANGLO AMERICAN LIMITED

Incorporated in the State of Victoria

COMSTAFF PROPRIETARY LIMITED

MONTHLY REPORT TO THE DEPARTMENT OF MINES,
TASMANIA, FOR OCTOBER 1980

EXPLORATION LICENCE 5/63

EL 5/63 SECTION 1 ARTHUR RIVER

No work was carried out.

EL 5/63 SECTION 2 RAMSAY

Plotting of results was completed and the access track reopened.

EL 5/63 SECTION 3 SOCK CREEK-MOUNT BLOCK

No work was carried out.

EL 5/63 SECTION 4 CHESTER-PINNACLES

Ground magnetic surveys were carried out and humus samples collected.

EL 5/63 SECTION 5 HUSKISSON

Reconnaissance geological mapping was carried out using the Pieman Road for access.

EL 5/63 SECTION 6 EAST RENISON

Diamond drill hole RBE 15 was completed at 303.8m. RBE 16 was at 272.1m on 21.10.80. Grid cutting of GAR (south) was completed. Sulphide mineralisation in RBE 15 was intersected from 247.0-249.7 and from 260.1 to 265.4, on the western contact and within talc-carbonate. Sulphide mineralisation in RBE 16 was intersected from 246.1-246.9 and as minor veins within talc-carbonate.

1. EL 5/63 SECTION 1 ARTHUR RIVER

No work was carried out.

2. EL 5/63 SECTION 2 RAMSAY

Plotting of geochemical results, ground magnetic profiles and survey data was completed.

The access track as far south on CAF was reopened. Geological reconnaissance surveys were made of the skarn zone on CAF and of the South Bischoff area.

3. EL 5/63 SECTION 3 SOCK CREEK-MOUNT BLOCK

No work was carried out.

4. EL 5/63 SECTION 4 CHESTER-PINNACLES

4.1 Work Completed

Humus sampling was continued on one grid line. A total of 112 samples were collected, sieved and sent to the laboratory for analysis.

L 1530S	00E -	655E	34 samples
L 1530S	00W -	140E	78 "

Ground magnetic surveys were carried out on the newly cut grid lines.

L 1530S	00E -	660E	660m
L 1530S	00W -	1544W	1544m
L 1730S	00E -	640E	640m
L 1730S	00E -	1688W	1688m
L 2540S	00E -	680E	680m
L 2950S	00E -	697E	697m
L 3150S	1740W -	2068W	328m
L 3350S	1400W -	1897W	497m
L 3550S	1400W -	1830W	430m
L 3750S	920W -	1830W	910m
			8074m

Geophysical sections for IP and SP are being drawn up based on the survey data.

...3.

5. EL 5/63 SECTION 5 HUSKISSON

A geological reconnaissance was carried out along the HEC Pieman road which traverses immediately south of this sector of the exploration licence. This was carried out as part of the overall regional appraisal.

Rock units assigned to the Crimson Creek Formation comprise turbiditic sequences of laminated siltstone-mudstone and volcaniclastic lithic wacke with minor lithic crystal tuff horizons and tholeiitic lavas. The succession dips and faces west. The western margin has a sheared faulted boundary with serpentinised peridotite and gabbro. The western boundary of the ultramafic complex must be a fairly major fault as it cuts out the Dundas Group. The rock sequence west of the ultramafic sequence comprises a fossiliferous succession of Silurian laminated siltstone-mudstone, calcareous mudstone and siliceous sandstone.

6. EL 5/63 SECTION 6 EAST RENISON

6.1 GAR Fentons Grid

6.1.1 Work Completed

Diamond Drilling

RBE 15 was completed at a depth of 303.8m (2.10.80)

RBE 16 was at a depth of 272.1m at 21.10.80

Total metres drilled 22.9.80 to 21.10.80 575.9m

All core was geologically logged and plotted at a scale of 1:100.

Drill core sampled

RBE 15	ground core	100 samples
	split core	41 "
RBE 16	ground core	27 "
RBE 8	split core	26 "

Grid Cutting and Surveying

Contractors cut grid lines at sixty metre intervals to extend GAR south to link GAR with GAP and Grid 5. Two lines were also cut to link Grid 5 and GAP at approximately 120m intervals. Statistics are:

GAR Extension	Cut	Flagged & Surveyed
L 4280N	934m	934m
L 4220N	1092m	1092m
L 4160N	922m	922m
L 4100N	1468m	618m
L 4040N	850m	-
L 3980N	1489m	1489m
L 3920N	894m	894m
L 3860N	1426m	806m
L 3800N	761m	761m
L 3740N	714m	714m
L 3680N	582m	582m
L 3620N	466m	466m

...4.

Grid 5 - GAP

	Cut	Flagged & Surveyed
L 1760N	300m	-
L 1960N	1010m	-

The P.M.G. road was flagged.

Road Construction

Drill pads and associated access tracks were constructed. A track was cut off Gamma track towards the Ring River and licence boundary with Renison Ltd.

Geophysics

Magnetic Susceptibility Measurements - Throughout the month of October and for some weeks before diamond drill core resulting from the present programme at Fentons Grid was tested for magnetic susceptibility. A Scintrex SM-5 digital magnetic susceptibility meter on loan from Australian Anglo American Ltd. was used. Measurements were made at approximately one metre intervals down the hole. Diamond drill core from RBE's 7, 8, 9, 10, 11, 12, 13, 14 and 15 has been tested.

The results have been corrected and are at present being plotted on the appropriate drill sections. Previously obtained surface magnetic intensity results are also being plotted on the sections.

Mise a la masse Surveys - No further work was carried out using this method. An electrode will be placed in RBE 15 to facilitate a survey utilising RBE 12, 14 and 15.

6.2 Results Achieved

Diamond Drilling

Summary drillhole log sheets for RBE 15 and RBE 16 are attached. Drilling of RBE 16 is still in progress. Analytical results for the split core from RBE 12, 13 and 14 have been received and plotted. No analytical data is available for RBE 15.

RBE 12

	dw	angle	tw	% rec.	Sn	Cu	Pb	Zn	Ag	As
217.0-221.0	4.0	70	3.76	100%	312	833	7966	2.54%	15.4	2937

This is a quartz-carbonate-sulphide fissure vein filling similar in aspect to the Base Metal-Tin Zone intersected in the drill holes 5, 7, 9, 10A and 11. A detailed description of the zone and the analytical data showing the distribution of the values are shown on the attached log sheets.

...5.

	dw	angle	tw	% rec	Sn	Cu	Pb	Zn	Ag	As
230.7-233.9	3.20	45	2.26	100%	1170	1.23%	2437	1.16%	21.9	9.33%

This represents quartz-sulphide mineralisation on the western margin of the talc carbonate.

235.9-236.2	0.30	45	0.21	100%	190	2.1%	130	625	45.0	15.0%

A near massive sulphide vein cutting the talc carbonate.

244.95-245.4	0.45	48	0.33	100%	1500	2900	210	1000	9.5	1000

Quartz sulphide mineralisation on the eastern contact of the talc carbonate.

Two further mineralised vein zones were intersected in this hole east of the talc carbonate. These are described in the attached log sheets.

254.3-256.1	1.8	40	1.16	100%	172	155	2228	2.04%	16.8	1700
and										
272.75-274.9	2.15	60	1.86	100%	1005	1.71%	152	794	46.8	794

RBE 13

RBE 13 was split from 44.5m to EOH at 151.8m. No ground core samples were submitted. All geochemical analyses are back and show values to be highly erratic and generally low. The variance of results is attributed to the erratic nature of the fine mineralised veins both in distribution down the hole and in the mineral make up of the veins. Hence all assay results must be strictly related to the geological log. For example sample T 9107 (66.9m - 68.0m) shows Sn at 1150 ppm and little enhancement in other elements. The tin value is probably entirely due to a 10mm quartz-pyrite-pyrrhotite-cassiterite vein which runs down the core at 8^{o} for 30 cm.

The only section where significant quartz development is encountered is between 87.8m and 89.0m. For this portion, a copy of the geological log is presented along with the relevant assay result sheet. This portion of log also shows how generally enhanced As values can be related to disseminated arsenopyrite in altered sandstone beds most of the way down the hole as well as the fine veins.

An encouraging fact is that at 110.7m sample T 9147 (110.0m 111.5m), which contained a 10cm zone of concentrated disseminated pyrrhotite in altered sandstone is enhanced in tin at 1150 ppm. Again at 124m, a one metre down hole sampled section gave enhanced tin (1100 ppm) and arsenic values (2700 ppm) where there were no significant veins noted.

...6.

These results are extremely patchy, no two adjacent samples being enhanced significantly in tin and indicate no ore grade mineralisation was intersected in RBE 13.

RBE 14

	dw	angle	tw	%rec.	Sn	Cu	Pb	Zn	Ag	As
252.8-257.3	4.5	50	3.45	889	820	1.23%	1.98%	2.18%	413	3920

This is a quartz-carbonate-sulphide vein zone carrying substantially more sulphide than the zone in RBE 12. A detailed description of the zone and a list of analytical values is attached. Mise a la masse surveys are required to ascertain if the zones are related.

258.8-260.25	1.45	70	1.36	100%	2197	2077	1120	2091	28.9	1.08%

This is a quartz pyrrhotite vein zone on the western margin of the talc carbonate.

261.9-262.8	0.9	55	0.74	100%	380	2.9%	135	1000	48.5	35.0%

A quartz-sulphide vein zone cutting the talc carbonate.

266.2-266.55	0.35	60	0.30	100%	470	715	6200	4.0%	15.5	750

The carbonate-sulphide veined eastern contact of the talc carbonate.

No further zones of mineralisation were intersected indicating that the zones intersected in RBE 12 are either of limited strike length or strike NW-SE.

RBE 15

The mineralised zones encountered in RBE 15 show a significant departure from those encountered in the previous drill holes. The Base Metal-Tin zone appears to have split into two, being separated by the talc-carbonate altered ultramafic. The mineralisation usually associated with the western margin of the talc-carbonate zone appears to 'back onto' the eastern margin of the second Base Metal-Tin zone.

The first Base Metal-Tin zone at 247.0m to 249.7m is mineralised with 11% total sulphide in the lower 1.9m only. The zone is again marked by multiple phases of siderite (45%) and quartz (25%) veining with white vuggy quartz veins probably being the last vein pulse. There is also intercalated altered dark grey-dark green foliated sediment (20%) along with minor intercalated foliated talc-carbonate material. Sphalerite is the predominant sulphide occurring in fine veins, patches up to 10mm and finely disseminated. There is minor associated galena, pyrrhotite and traces of chalcopyrite and pyrite.

...7.

The second Base Metal-Tin Zone starts in at 260.1m and appears to phase into the western margin talc-carbonate mineralisation zone at approximately 260.4 which ends at 265.4. The Base Metal-Tin(2) again shows the multiple veining effects previously described with siderite being the predominant gangue along with characteristic cockade (cocks comb) structures. The zone shows very similar sulphide distribution to that of the first Base Metal-Tin Zone, sphalerite again being the predominant sulphide. The mineralised western margin zone of the talc-carbonate, like previous drill holes, shows pyrrhotite, arsenopyrite and chalcopyrite to be the predominant sulphides in quartz gangue. The sulphides typically occur in massive patches or fine veins. Overall sulphide content, encompassing both zones from 260.1m to 265.4m is 45%, pyrrhotite making up over half.

Minor veins of pyrrhotite and pyrite cut the talc-carbonate zone.

A 1.2m section on the eastern margin of the talc-carbonate zone contains 16% total sulphide, sphalerite being a dominant costituent at about 6%.

Traces of sphalerite and galena continue to appear in the core as v.f. spidery veins in the sedimentary sequence to the end of the hole at 303.8.

6.3 Forecast

1. Diamond drilling will continue.
2. Surveying and flagging of the GAR south grid extension will be completed.
3. Ground magnetic and mise a la masse surveys will be undertaken.
4. The GAT grid will be cut.
5. Geological mapping of the newly cut grid lines will commence.
6. A semi permanent camp for the Renison project will be established.

G. F. Pigott, Senior Geologist
N. P. Green, Geologist

Approved by

for R. J. Kernick
EXPLORATION MANAGER

A

018009

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 during the month of October 1980 on Exploration Licence 5/63 are described in the accompanying report.

2. That in the month of October 1980 Comstaff has expended $104 389 on work on Exploration Licence 5/63 and that this is further broken down into:

	$
(a) Field staff and associated costs	22 258
(b) Operating costs	13 924
(c) Capital	10 607
(d) Project management	5 525
(e) Drilling	47 334
(f) Contractors	4 741
	104 389

O. Fonseca.

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 20th day of)
November 1980.)

O. Fonseca.

Before me:

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

AUSTRALIAN ANGLO AMERICAN LIMITED

DRILLHOLE LOG

Summary Sheet 018010

PROJECT Renison	AREA Grid GAR			DRILLHOLE TYPE DDH
CO-ORDS E 372715·3 N 5372487·0	DEC LN -45°	AZIMUTH 078° MN	RL 174·5m	DH No. RBE 15
DATE COMMENCED 23·9·80	DATE COMPLETED 2·10·80	DRILLED BY Longyear	DRILL RIG Longyear 38	
Non Coring to: 39·0m	HQ Core to:	NQ Core to: 95·8m	BQ Core to: 303·8	EOH 303·8

SURVEY DATA

Instrument:

DEPTH	DECLINATION Uncorr	DECLINATION Corr	AZIMUTH	DEPTH	DECLINATION Uncorr	DECLINATION Corr	AZIMUTH
0m		-45°	078° MN	181m		-45·5°	079·5° MN
61m		-46·75°	076·5° MN	211m		-44°	080·5° MN
91m		-47°	075·5° MN	241m		-42·5°	080° MN
121m		-47°	075·5° MN	271m		-42°	087° MN
151m		-47°	075·5° MN	303m		-43·5°	086° MN

LOG SUMMARY

ROCK TYPE	MINERALIZATION Style	Grade	Intersection width (Corr)
0-39·0m Overburden, predominantly glacial.			
39·0-61·1m bk carb sh & intc m-f sa.	vein, disseminations	Py 10%	
61·1-91·6m intc mag intc bk-dk gy carb sh & gy f-m tuf lithic sa & dk gy lam ss.	vein, disseminations, 'patchy'	Py 4%, Pb tr	
91·6-95·8m deformed bk carb sh & intb dk gy ss.	vein, disseminations, 'patchy'	Py 4%, Pb tr	
95·8-107·6m intc gy f-m tuf lithic sa, dk gy ss.	vein, disseminations, 'patchy'	Py 4%, Pb tr	
107·6-128·8m dk gy ss, minor intc & intb f gy tuf sa & bk carb sh.	disseminations, replacement, fine veins, 'patches'	Py 8%, Pb 1%	
128·8-140·2m intb dk gy 'wispy' ss & gy f-m tuf sa.	dis, f vns, 'patches', replacement	Py 8%, Pb 1%	
140·2-173·9m deformed bk carb sh, minor intb ss, arg	dis, f vns, 'patchy'	Py 8%, Pb 3%	
173·9-192·1m intc gy f-m sa, carb sa & gy ss & bk carb sh	vn	Py 5%, Pb 1%	
192·1-196·0m frac gy m lithic tuf sa, minor dk gy ss.		Py 6%, Pb 6%	
196·0-198·0m cnt intb gy f-m carb sa 'wisps' bk sh & ss		Py 10%	
198·0-206·8m intbs intc gy f-m sa & gy ss.		Py 1%, Pb tr	
206·8-221·5m intbs intc bk carb sh, f-m tuf sa, gy ss		Py 15%, Pb 9%	
221·5-233·6m deformed alternating gy f-m tuf sa, intc & gy ss & intb & dk gy ss.		Py 5%, Pb 1%	
233·6-235·5m alt cnt bk carb sh & intc f gy tuf sa & dk gy ss	dis, small 'patches', f vns	Py 7%	
235·5-238·5m alt gy & gy-gr f-m tuf sa.	barren	-	
238·5-247·0m deformed & sed 'breccia' - gy-gr f tuf sa, dk gy ss, bk carb matx, pale gy-br lam ar.	small dis 'patches'	Py 2%	
247·0-249·7m intensely chlte & qz vnd, slightly mineralised & Base Metal Zone (1).	vns, 'patches' & f dissemination	Sp 7%, Pb 2% Gl & Py 1%, Cp tr	
249·7-260·1m talc-chlte mottled/fol alt ultramafic.	dis, 'patches', vein.	Sp 2%, As Py 1% Py tr, Gl tr	
260·1-265·4m Base Metal Zone (2)	'patchy', vein & massive	Pb 25%, As Py 8% Sp 8%, Cp 3% Py 1%, Gl tr	
265·4-271·9m talc-chlte mottled/fol alt ultramafic	f vns, 'patches', dis.	Py 2%, Pb 1%	
271·9-293·6m intb f-m gy tuf sa & dk gy ss.	vns, minor 'patches'	Pb 2%, Py 2% Sp tr, Gl tr	
293·6-303·8m intb dk gy ss & gy ss	vns, minor 'patches'	Py 3%, Pb 1% Sp tr, Gl tr	

AUSTRALIAN ANGLO AMERICAN LIMITED

DRILLHOLE LOG

Summary Sheet

018011

Page 1 of

PROJECT Renison	AREA GAR		DRILLHOLE TYPE DDH
CO-ORDS	DEC^{LN} -45°	AZIMUTH 78° MN RL	DH No. RBE 16

DATE COMMENCED 11/10/198[illegible] DATE COMPLETED / /1980 DRILLED BY Longyear DRILL RIG Longyear 38

Non Coring to: 30 m HQ Core to: NQ Core to: 90.0m BQ Core to: EOH

SURVEY DATA

Instrument: Downhole Camera.

DEPTH	DECLINATION Uncorr	DECLINATION Corr	AZIMUTH	DEPTH	DECLINATION Uncorr	DECLINATION Corr	AZIMUTH
61m		-46¾°	079° MN	211m		-41¼°	088° MN
90m		-47	080° MN	241m		-41°	086° MN
121m		-45¾°	087° MN				
151m		-44¼°	079½° MN				
181m		-43	084½° MN				

LOG SUMMARY

ROCK TYPE	MINERALIZATION Style	Grade	Intersection width (Corr)
0-30m Glacial and fluvioglacial overburden			
30.0-39.7 Alternating black shale, tuffaceous sandstone and siltstone.	small vein and disseminated pyrite	5%	
39.7-48.8 tuffaceous sandstone		0%	
48.8-50.5 siltstone, tuffaceous sandstone and black shale	small vein and disseminated pyrite	1%	
50.5-70.5 black shale with bands of tuffaceous sandstone intercalated with the shale	small vein and disseminated pyrite	1%	
70.5-74.8 black shale with minor tuffaceous sandstone	pyrite along bedding (disseminated) and small veins	1%	
74.8-75.2 carbonate vein with abbs cutting mineralized veins	veins with 5% Po, 5% Py, 0.5% Ga and 1.0% Sp.	11%	
75.2-110.0 Carbonaceous black shale with carbonaceous siltstone	10% diss pyrite and veins of Sp(tr) Ga(tr) and Po (1%)	11%	
110-246.1 black shales with increasing amount of tuffaceous sandstone.	minor Po and Py in veins and disseminated	(4%)	
246.1-246.9 altered sedimentary, carbonates and quartz vein	vein contains Sp, Ga, Po, Py, Ce, AsPy, Cp	15%	
246.9-272.05 talc-carbonate schist with veins of mineralization at 256.5 (0.2m), 267.8 (0.8m) and four more veins (less than 0.1m).	minor specks of pyrite veining contains Po and assoc Cp and Py	0.5%	
		3%	
272.05 log to date. 22/10/80.			

PRELIMINARY

Metres	Sn	Cu	W	Pb	Zn	Ag	As	SAMPLE NUMBER
210								
	70	160	40	1400	4350	4·5	39	
211								
211·5								
212								
	310	135	BLD	1150	1750	4·0	480	
213								
214								
214·5								Split Core Commences
215	120	105	BLD	750	2100	1·5	300	TS275
215·5								
216	55	195	BLD	640	2000	1·5	65	TS276
216·4	75	20	BLD	1350	1800	1·5	95	TS277
217·0	80	55	BLD	3650	7300	4·0	1600	TS278
217								
217·6	430	1050	BLD	6800	3·7%	25·5	1200	TS279
218·26	360	445	BLD	2·35%	6·6%	81·0	2200	TS280
219								
219·1	200	560	BLD	710	1·1%	7·5	360	TS281
219·65	210	150	BLD	5800	1·7%	19·0	5700	TS282
220								
220·45	740	3850	25	1600	6200	9·5	6000	TS283
221·0	60	115	BLD	265	645	1·0	300	TS284
221								
222·0								
222								
	40	220	BLD	330	1180	2·0	100	TS285
223								
223·5								
224	160	1100	BLD	950	2650	6·0	550	TS286
224·5	15	55	BLD	235	385	BLD	54	TS287
225								
224·9								

0180112

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 12

ASSAYED BY Analabs FROM 210 m TO 225 m DATE 22/9/80 15/10/80 PAGE 11 OF 17

Metres	Sn	Cu	W	Pb	Zn	Ag	As	SAMPLE NUMBER
225	9	45	BLD	15	120	0·5	17	T8288
225·9	10	50	BLD	50	170	0·5	23	T8289
226	5	25	BLD	25	140	0·5	29	T8290
226·9	BLD	40	BLD	5	60	BLD	12	T8291
227	15	20	BLD	135	260	BLD	28	T8292
230·15	160	760	BLD	650	4650	3·0	330	T8293
230·7	2650	205	BLD	3600	1·3%	5·0	2700	T8 94
231·3	1600	1250	BLD	2200	9500	11·5	25%	T8295
231·65	450	1·8%	BLD	2300	7600	17·0	26%	T8296
231·95	1450	1750	BLD	3950	2·3%	11·0	4·7%	T8297
232·85	430	5·6%	BLD	1100	5250	80·0	15%	T8298
233·4	25	1650	BLD	35	245	8·0	1·3%	T8299
233·9	540	150	BLD	15	75	1·0	1400	T8300
234·9	890	2000	BLD	15	200	3·5	2400	T9014
235·9	190	2·1%	BLD	130	625	45·0	15·0%	T9015
236·2	20	180	BLD	60	195	2·0	3300	T9016
237·2	35	25	BLD	5	75	1·0	400	T9017
238·5	15	80	BLD	5	80	1·0	2700	T9018
240·0								

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 12

ASSAYED BY Analabs FROM 225m TO 240m DATE 10/10/80 PAGE 12 OF 17

Metres	Sn	Cu	W	Pb	Zn	Ag	As									SAMPLE NUMBER
240.0	10	100	BLD	20	130	1·5	1000									TQ019
241·1	15	165	BLD	20	60	1·0	500									TQ020
242·1	BLD	40	BLD	10	40	0·5	580									TQ021
243·1	720	1600	BLD	95	1200	4·0	1000									TQ022
243·6	BLD	35	BLD	5	50	1·0	380									TQ023
244·5	BLD	30	BLD	5	40	0·5	380									TQ024
244·95	1500	2900	BLD	210	1000	9·5	1000									TQ025
245·4	180	385	40	90	325	3·0	100									TQ026
246·1	390	245	BLD	375	1450	3·5	110									TQ027
246·8	15	85	BLD	100	260	1·0	300									TQ028
247·8	20	85	BLD	295	550	1·0	430									TQ029
248·4	300	155	BLD	505	1150	2·5	220									TQ030
249·4	25	115	BLD	200	345	2·5	110									TQ031
250·5	20	120	BLD	385	595	2·0	65									TQ032
251·5	40	105	BLD	1050	2450	2·0	100									TQ033
252·3	160	145	BLD	790	3350	2·5	140									TQ034
253·3	60	45	BLD	1350	5900	2·5	470									TQ035
254·3	150	155	BLD	1250	1·2%	9·5	2900									TQ036

240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 12

ASSAYED BY Analabs FROM 240 m TO 255 m DATE 10/10/80 PAGE 13 OF 17

0180144

Metres	Sn	Cu	W	Pb	Zn	Ag	As	SAMPLE NUMBER
255·3	200	155	BLD	3450	3·1%	26·0	200	TQ037
256·1	30	55	BLD	760	1700	2·5	80	TQ038
257·1	4	80	BLD	160	365	1·0	90	TQ039
258·3	60	85	20	1050	6050	5·0	520	
261·0	7	75	T	40	185	0·5	50	
262·5	50	45	BLD	195	480	1·0	630	
264·0	55	315	25	220	1000	2·0	320	
264·8	40	75	BLD	380	545	3·0	320	
267·6	350	120	BLD	565	1350	2·5	1300	

Split Core Finishes

255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 12

ASSAYED BY Analabs FROM 255 m TO 270 m DATE 22/9/80 PAGE 14 OF 17

0180113

Metres	Sn	Cu	W	Pb	Zn	Ag	As									SAMPLE NUMBER
270·6	30	55	BLD	20	175	1·0	130						Split Core Recommences			rq040
271·75	290	260	BLD	25	185	1·5	2·6%									rq041
272·75	350	3·7%	BLD	170	1100	59·5	1500									rq042
273·76	2200	2·0%	BLD	220	700	42·5	180									rq043
274·3	1000	1·7%	BLD	60	370	29·5	180									rq044
274·9	300	570	20	BLD	160	3·0	120									rq045
275·9	100	155	BLD	20	215	0·5	12.0									rq046
276·65	65	2950	BLD	85	305	3·0	360									rq047
277·0	65	360	BLD	70	285	1·0	2·2%						Split Core Finishes.			rq048
277·5	320	305	45	60	1900	1·5	5000									
280·5	75	180	20	8300	3200	10·0	170									
283·8	42	155	25	1350	4500	3·5	200									

0180116

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 12

ASSAYED BY Analabs FROM 270m TO 285m DATE 22/9/80 PAGE 15 OF 17

018017

DRILL ADVANCE

DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
211·5	3·0	3·0	100%
214·5	3·0	3·0	100%
217·5	3·0	3·0	100%
220·5	3·0	3·0	100%
223·5	3·0	3·0	100%

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
		210·2 12mm q-v at 62° 210·7 15mm St-clste-qz vn at 60° 211·5 15mm St-q-v at 55° 212·7 40mm clste-St-qz vn at 45°. 213·1 20mm St-qz-clste vn at 50° 214·4 60mm clste-qz vn: 75° 214·7 130mm St-clste-q-v: 60°			210·2 qz, Py 10%, Sp 3% vn 211·5 St-q-v, Sp 2%, Ga tr 213·1 St-qz-clste: Py 50%, Cp 1% vn	13% 3% 5%
214·9	Altered grey sandstone with common deformed intercalations of dark grey siltstone and contorted fine intercalations of black carbonaceous shale.	Fine, diffuse network of grey-white carbonate veining, giving cloudy appearance. Common irregular St-qz veins. 216·7-10mm St-qz vn at 10°		Contorted zones especially associated with shale, structure obscured in arenaceous units.	216·7 disturbed St-qz, Sp 2%, Ga 2%	4%
216·9	Highly altered partially sheared, pale green, pale brown, pale gray siltstone?	St, qz, clste - 80% of core; minor talc.		Partially finely sheared. 217·4 fol at 65°	Few fine Ga + Sp veins	2%
217·8	Mineralized, intercalated siderite, quartz, sediment and sulphide.	Major siderite + quartz vein replacement; minor Ankerite. St - 40%, qz - 20% veining at ≈ 70°.		Partial colloform structure developed in few St zones minor brecciation 219·4 B85° associated with Sp-St.	Few fine Sp + minor Ga veins; disseminated Sp, Cp, Ga; patchy Po. Sp 2%, Ga 1%, Cp tr, Po tr Patchy Po 30%, diss. Cp 1%	1% 31%
221·0	Altered, dark grey + grey-green intercalated fine sandstone, siltstone, black carbonaceous shale.	221·2 5mm St-qz vn at 70° Fine-medium diffuse network of grey-white carbonate veining, cloudy, common irregular quartz veining.		contact at 75°	221·2 St-qz - Py 15% vn Disseminated Py	15% 2%
224·5	Mineralized quartz veining.	quartz - [illegible] %		Vein qz at 45°	Po 30%, Py 10%, AsPy 1%, Cp tr, Sp tr, Ga tr at 45°	42°
224·9						

SCALE 1:100 (1cm = 1m)

COMSTAFF PROPRIETARY LIMITED

DRILLHOLE LOG FOR DDH RBE 12

LOGGED BY N. Green FROM 210m TO 225m DATE 3/9/80 PAGE 16 OF 22

018018

DRILL ADVANCE / LITHOLOGY

DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
					Heavily chlorite altered green, grey-green, foliated siltstone?, green or green-grey serpentine.	Pervasive chloritic? alteration.		225·7 fol at 60°		
226·5	3·0	3·0	100%			–226·5 7mm white clote vn at 30°		226·5 fol at 55°		
						Few fine quartz and carbonate veins, usually regular.		227·8 fol at 40°		
								Highly deformed structure minor lamination? in siltstone? finely foliated otherwise when not obscured by alteration.		
229·5	1·3	1·3	100%							
				230·2	Mineralized quartz, siderite, green altered host rock.	Quartz + siderite gangue to mineralisation minor green altered sediments. qz · 40%, st 15% altered sediments · 5%		Sulphide-quartz veining at ∠60°	Disseminated Sp 3%, Ga <1%, Py 1%, Pb 2%, tr Cp, tr AsPy	7%
230·8	2·0	2·0	100%						231·1 vein: AsPy 70%, Pb 3%, Cp 1%	74%
232·8	2·7	2·7	100%						232·4 Patchy Sp 3%, Galtr, AsPy 6%, Pb 8% 232·8 Massive AsPy 70%, Pb 5%, Cp 20%, Py 5%	16% 100%
				233·4	Talc Carbonate, foliated, veined, green, grey, white, pale brown, often mottled rock.	Completely altered rock; Common quartz veins		Regularly foliated, some deformation of foliae.	Few very fine Py veins	1%
235·5	3·0	3·0	100%					235·6 fol at 70°		
									–236·0 14cm qz, AsPy 80%, Pb 5% Cp 8% vein.	93%
238·5	3·0	3·0	100%					238·6 fol at 65°		

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED — DRILLHOLE LOG FOR DDH RJBE 12

LOGGED BY N. Green FROM 225 m TO 240 m DATE 3/9/80 PAGE 17 OF 22

018019

DRILL ADVANCE / LITHOLOGY

DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
			241							
241·5	3·0	3·0	100% 242					242·3 fol 55°		
			243						243·4 qz. Po 85%, Cp 5%, Py 3% vein at 50°	qs%
			244							
244·5	3·0	3·0	100% 245							
				245·1	Intercalated, deformed, fine grey sandstone, black carbonaceous shale, dark grey siltstone.	Raw quartz-cbte veins, rare cbte patch. −246·2 20mm St-qz vn at 65°			Vein, patchy: Py 20%, Tb 20, Sp tr	50%
			246					246·7 B 60° Soft sediment deformation common − slumped?	246·5 Disseminated + vein Py associated with quartz.	1%
			247	246·8	Altered plutonic? finely mottled; pale brown mottles on dark grey-green background, with black carbonaceous intercalations.	Common, white, medium, average 2mm, discontinuous, cbte veins.		247·4 fol 35° finely foliated. 249·1 fol 52°		−
247·5	3·0	3·0	100% 248					contact at 70°		
				248·4	Black carbonaceous shale, veined with white carbonate + pyritic. Increase in fine tuffaceous sandstone interbedded units down hole.	Very common, irregular discontinuous, average 1mm, cbte veins.		Slightly deformed. 249·8 B 65°	Fine patches, disseminated fine, irregular, discontinuous veins: Py	5%
			249							
			250							
250·5	2·0	2·0	100% 251							
			252	252·3	Fine tuffaceous sandstone, pale grey-grey, minor intercalated dark grey siltstone at base.	Common, irregular, fine, discontinuous siderite veins. Rare quartz veins.		Relatively undisturbed, 253·2 B 45° deformed at base.	Crystalline Py, fine-grained Sp in quartz-cbte veins. Py as blebs + disseminations along cleavage planes.	3%
252·5	1·0	1·0	100% 253							
253·5	1·8	1·8	100% 254	254·3	Intensely quartz + siderite veined zone slightly mineralized; altered grey siltstone.	St + qz veining predominant.		Intense veining, some brecciation, sediment	Honey, fine-grained Sp concentrated along zoned qz-	7%
			255							

SCALE 1:100 (1cm = 1m)

COMSTAFF PROPRIETARY LIMITED DRILLHOLE LOG FOR DDH RBE 12

LOGGED BY N. Green. FROM 240m TO 255m DATE 3/9/80 PAGE 18 OF 22

018020

DRILL ADVANCE

LITHOLOGY

DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
255·3	3·0	3·0	100%			qz ~50%, st 15%		highly deformed, finely bedded.	clste veins. Scattered vein bk sp in st-Ank veins. Sp 5%, AsPy 1%, Py 1%	7%
				256·0	Intercalated grey fine tuffaceous sandstone, dark grey siltstone, minor black carbonaceous shale. Moderately well-bedded with minor soft sediment deformation.	Common white clste veins; rare qz + st veins. Relatively unaltered with individual grains readily discernable		Contact at 40°	Scattered disseminated crystals Py.	1%
258·3	2·7	2·7	100%					258·0 B 30°		
						258·9 qz-clste zoned veins.		259·0 Contact at 50°. houndstooth quartz crystals in vuggy sections.	259·0 Fine grained bands Sp.	3%
						259·2 Minor calcite veining.			259·3 Disseminated crystalline Py in tuffaceous sandstone. Py in black shale interbeds crystalline Py in scattered vuggy quartz veins.	2%
261·0	1·5	1·5	100%					260·15 B 35°. graded tuffaceous sandstone unit, facing up hole (30 cm unit)		
						261·5 q.v. 40°		261·8 q.v 40°, increase in intensity downhole.		
						261·8 White q.v. zone with sediment clasts. V. minor clste				
262·5	1·5	1·0	66%			262·5		262·7 B 30°		
						262·9 Moderate clay alteration of tuffaceous units: Friable brown sericite? developed along S+F planes.		Deformed with cleavage prominent.		
264·0	0·5	0·5	100%					263·9 q.v. at 90° 10cm	263·9 Disseminated Py. AsPy in q.v.	
264·5	3·1	3·1	100%					264·9 S at 30°		
						265·5				
				267·0	Mottled green-grey + pink-brown plutonic? coarse grained (somewhat similar to 246·8) with intercalations of carbonaceous mudstone.	Few irregular white carbonate veins.		cross-cutting contact at 85°		
267·6	3·0	2·85	95%							
				269·2	Intercalated black carbonaceous shale, fine-medium tuffaceous sandstone, grey and dark grey siltstone.			Poorly bedded with moderate soft sediment and structural deformation. Tuffaceous sandstone units graded.	Pyrite disseminations in carbonaceous shale units.	5%
						269·3 Vein q.v. & cockscomb carbonate		269·2 B 30°		
						269·6		269·5 B 50°		
								269·6 B 60°		

SCALE 1:100 (1cm = 1m)

COMSTAFF PROPRIETARY LIMITED DRILLHOLE LOG FOR DDH RBE 12

LOGGED BY G. Pigott FROM 255m TO 270m DATE 4/9/90 PAGE 19 OF 22

018021

DRILL ADVANCE

LITHOLOGY

DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
270·6	3·1	3·1	100%			Calcareous matrix to sandstone units.		270·2 B 20° microfaulting.		
					at 271·95 - heavily deformed calcite veined black shale.	Friable weathered appearance.		271·6 B 35° graded facing up hole		
273·7	3·0	3·0	100%	272·75	Quartz-sulphide zone: predominantly white milky quartz with minor grey bands containing secondary cream carbonate patches. Minor inclusions of sedimentary rocks.	Sulphide patches appear to post-date quartz.		contact at 65° Massive vein 274·6 60° banding on vein margin	Patches of fine grain massive sulphides become more massive down hole. Pb 7% . Cp 5% . Py 2% . AsPy 1%	15%
276·7	0·8	0·8	100%	274·9	Interbedded black carbonaceous shale, medium grained tuffaceous sandstone, grey-green siltstone. Siltstone is finely laminated. Sections strongly deformed with tuffaceous sandstone and siltstone clasts in carbonaceous mudstone matrix.	Moderate calcite and quartz veining throughout section.		Moderately bedded with fractured - brecciated sections cemented by calcite. 276·8 70° 20cm q.v. & 10% Cp 277·6 40° B 278·35 50° 3cm q.v. vuggy 278·7 65° 25cm carbonate-qz veined section. 279·2 65° 28cm brecciated q.v.	Patches Py in calcite veined sections. Py along bed B in carbonaceous shale units. Cp in patches mainly in q.v. 278·7 black Sp layers in vein & Py disseminated crystals. 279·2 coarse crystalline AsPy finely grained Py in vein.	3%
280·5	3·0	3·0	100%			from 281·0 - increase in intensity of quartz-carbonate breccia and veining.		281·0 40° q.v. 281·6 85° qz-carbonate vn 283·0 50° 12 cm q.v. zone.	Pb patches in q.v.; minor Sp in carbonate veins.	5%
283·5	3·0	3·0	100%	283·1	Slump conglomerate deposit. Unsorted angular clasts of tuffaceous sandstone, calcareous siltstone in black carbonaceous pyritic mudstone matrix.	Strongly calcareous.		Intensely deformed - soft sediment deformation. 284·4 50° carbonate vein	Py along margins of clasts or concentrated in lenses - originally primary Sp in carbonate veins - concentrated along vein contacts.	10%

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED

DRILLHOLE LOG FOR DDH RBE 12

LOGGED BY G Pigott FROM 270m TO 285m DATE 4/9/90 PAGE 10 OF 22

018022

LITHOLOGY

DRILL ADVANCE

LOST CORE	DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
	75·8	2·6	2·65	100%
	78·4	2·4	1·2	50%
	80·8	1·0	2·15	215%
	81·8	3·0	3·2	100%
	84·8	3·0	3·0	100%
	87·8	3·2	3·1	96·9%

SCALE 1:100 (1cm = 1 m)

Depth scale: 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90

INTERVAL

DESCRIPTION

Very well bedded siltstone - sandstone sequence. Sandstone is grey-purple, fine, maximum 40 mm wide. Siltstone is soft + grey and hardens down-hole.

ALTERATION

spots pale greyes alteration halo.

pale gr-wh f. ss & dis. Po.

80·8 Cloudy diffuse grey alteration.

86·4 40 mm irreg q.v. at ≈ 75°

86·6 5 mm q.v. at 85°

87·1 25 mm qz replaced bed at 80°

qz + sediment, slightly mineralised, grey altered sed ⊥ to at ≈ 30°

88·4

qz + sed vn at 40°

89·0

GRAPHIC LOG

STRUCTURE

76·5 B 35°

77·9 B 40° graded uphole.

80·4 B 40°

81·4 B 40° — Cloudy alteration obscuring structure.

82·6 B 35°

83·7 B 35°

84·9 B 80° graded uphole.

86·3 B 60°

87·5 B 55°

89·6 B 50°

MINERALISATION

76·2 3 mm impure qz, Py, tr Po, cs? vn at 15°.

81·1 3 mm qz, Po, tr Py vn at 12°

83·7 2 parallel 3 mm wide vns at 15°, AsPy, Po, Cp, CS, extend 50 cm; associated 30 mm Po dis. in ss. bed at 83·8 m.

85·1 4 mm qz, AsPy, Po, Cp, Cs vn at 15°, extends 40 cm.

85·7 – 86·0 Dis. Po, tr AsPy in altered sandstone bed. (2)

87·9 – 88·4 q.v & sed, Po 10%, tr Cp, tr AsPy (1)

88·8 – 89·0 qz & sed, Po 5%, cut by thin 2° 3 mm AsPy-Cp vn at base at 20°.

VIS. PERCENT MINERALISATION

COMSTAFF PROPRIETARY LIMITED — DRILLHOLE LOG FOR DDH RBE 13

LOGGED BY NPG FROM 75 TO 90m DATE 26/5/80

018023

Metres	Sn	Cu	W	Pb	Zn	Ag	As	Au								SAMPLE NUMBER
75·4	65	95	BLD	55	250	1·5	30	BLD								TQ114
76·0	40	105	BLD	40	190	0·5	80	BLD								TQ115
77·5	150	145	BLD	55	165	1·0	130	BLD								TQ116
79·1	230	365	BLD	30	380	1·0	8000	BLD								TQ117
80·2	520	225	BLD	115	370	2·0	170	BLD								TQ118
81·8	30	85	BLD	40	135	1·5	40	BLD								TQ119
82·7	80	110	BLD	120	300	1·5	670	BLD								TQ120
83·5	900	1650	BLD	145	1050	4·5	5000	BLD								TQ121
84·1	60	635	BLD	65	270	3·0	490	BLD								TQ122
85·1	300	1550	BLD	50	345	4·0	5000	BLD								TQ123
85·5	500	520	BLD	38	260	2·5	1600	BLD								TQ124
86·7	50	135	BLD	90	215	1·5	800	BLD								TQ125
87·8	2300	540	40	25	70	2·0	140	BLD								TQ126
88·4	250	75	BLD	15	160	BLD	80	BLD								TQ127
89·8	190	510	BLD	100	85	2·0	1·3%	BLD								TQ128
89·1	90	250	BLD	35	180	0·5	6500	BLD								TQ129
89·7																

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 13

ASSAYED BY Analabs FROM 75 TO 90 m DATE 16/10/80 PAGE 4 OF 9

018024

DRILL ADVANCE

DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY
241·5	3·0	3·0	100%
244·5	3·0	3·0	100%
247·5	3·0	3·0	100%
250·8	1·5	1·5	100%
252·0	0·8	0·6	75%
252·9	3·1	3·1	100%

LITHOLOGY

INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISUAL PERCENTAGE MINERALISATION
	—from 240·1 Predominantly grey siltstone, argillite with green interbedded siltstone, feldspathic sandstone.			240·7 65°B cut by microfaults 241·4 45°B graded tuffaceous unit face 241·6 10cm calcite vn'd shear. down hole	241·6 Coarse patches Py, Cp in shear.	1%
				242·25 50°B 242·45 60° shear. 242·6 35° 10cm coarse xaln q.v & cbte along margins. 242·9 68°B 243·1 60° cbte vn with sulphides.	Po along shear planes 242·45	4%
	—243·0 / —243·5 } carbonaceous shale units.	242·6 Increase in zoned quartz-carbonate crystalline vuggy veins.			Xaln dark Sp in cbte vns. 242·9	2%
					243·0 Py in carbonaceous shale	5%
		243·85 Extensive microveins of Mg, Ca carbonate and quartz. Heavily chloritised.		243·85 / 244·2 } cbte vn zone cream to white & xaln quartz in vugs.	243·5 Sp layers along vn contacts Xaln Gl in cbte/q.v. 243·85	2%
	increase in degree of deformation.			— 55° q.v & sulphides —	Scattered dk brown Sp along cbte vn.	3%
244·6	Sheared, chloritised sediments. Dark green, strongly foliated schistose sequence. Tuff or mafic rock, very heavily veined & strongly foliated. Green to grey in colour.	—from 245·4 carbonate veined, brecciated zone.		244·8 68° AsPy schistose, strongly foliated.	— patchy Cp in q.v; fine stringers Py 244·6 Bands massive xaln AsPy & patches xaln Cp, Po 244·8 / 244·9 Xaln dk br. Sp & cream cbte/q.v. 244·95	8% 60%
		246·1 Moderate, irregular carbonate-quartz veining		Extensive carbonate veining, strongly foliated.	Scattered crystals Gl, Po, Sp, Cp in carbonate veins.	2%
	—from 246·8 Grey foliated schistose unit with graphite developed on foliation planes - sedimentary units.	246·8 Extensively veined.		248·2 50° fol.		
249·6	Graphitic shale and siltstone. Well bedded, dark grey, interlayered sequence of graphitic shale, grey siltstone and grey, fine grained sandstone. —from 251·75: green chloritised tuffaceous units predominant	Zoned siderite/ankerite-quartz mesoveins.		249·8 40°B	249·8 Disseminated xaln Py throughout. Py, Sp, xaln Gl in fracture stockwork. Patches Po. Py 5%, Po 2%, Sp 2%, Gl 1%	10%
		251·75 heavily chloritised high s.g.		251·3 45°B 251·5 60° 7cm xaln crustiform cbte/q.v 251·7 65° 7·5cm cbte-q.v.	Layers crystalline Sp, patches Py in cockscomb textured, crustiform carbonate.	
252·75	Mineralised chlorite schist.	Heavily carbonate veined.		brecciated on cbte veins. 55° contact	Po in patches, veins & foliations	15%
253·1	Quartz-carbonate-sulphide vein zone. Sheared, veined & foliated at contact & chloritised siltstone inclusions. —from 254·0 Crystalline vuggy quartz-carbonate vein with irregular dispersions of sulphides. Po passes down into Sp & Po: then into Gl.			Heavily sheared & foliated. 254·0, 50° con. crystalline complex vein: clay minerals, houndstooth quartz in vugs.	Massive patches Po. Scattered Sp in white quartz gangue.	25
					Patches Cp, Sp in quartz; massive xals Po & inclusions Cp; minor AsPy. 254·5	5% 30
					254·8 Curvilinear layers Xaln	

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED DRILLHOLE LOG FOR DDH RBE 14

LOGGED BY G. Pinnell FROM 240 TO 255 m DATE / 9 / 80 PAGE 18 OF 21

018025

DRILL ADVANCE

LITHOLOGY

DEPTH	DRILL ADVANCE INTERVAL	CORE RECOVERY	PERCENT RECOVERY	INTERVAL	DESCRIPTION	ALTERATION	GRAPHIC LOG	STRUCTURE	MINERALISATION	VISU PERCENTAGE MINERALISATION
					includes a crystalline section of light brown carbonate mineral - ?ankerite.				brown Sp; with mangins of dark brown-black SR. Bands disseminated brown Sp & crystals Gl; patches Po. minor Sp. crystals Py. Sp 7%, Gl 4%, Po 2%, Cp 1%, Py 1%	15
255.9	3.6	3.1	86.1% 256						256.9 coarse patches Cp & Sp margins. Band vein AsPy contact	30
			257	257.3	Altered sediments. Sheared, contorted and partly brecciated, interfoliated (bedded sequence of black argillite/shale, gray siltstone, gray, fine grained tuffaceous sandstone. Also light, brf. finely laminated, incl or brec layers sil. pel.	Chloritised and strongly sheared.		85° AsPy vn at contact 257.7 35°S Irregular foliae parallel bedding.	crystalline Po patches and scattered crystals AsPy in Quartz veins. Py > minor Sp in quartz veinlet stockwork.	5%
			258					258.19 25° q.v & Po contact		
			259	258.8	Quartz-pyrrhotite vein zone. Quartz gangue with minor pale cream patches of carbonate from 259.6 Chlorite schist inclusions predominate.	Inclusions of sediment and ?talc-carbonate material. Intensely chloritised.		75°	Massive Po and irregular patches Po & inclusions Sp. veinlets Sp.	30% 15%
259.5	2.4	2.4	100%						259.6 stockwork crystalline Po in chlorite schist.	15
			260						260.05 vein AsPy layered on cont	10%
				260.25	Talc-carbonate zone. Dark brown, cream and white foliae.	Strongly foliated with total alteration to talc chlorite and Mg carbonate.		80° contact & Sp developed 260.9 55°S Foliation is crenulated.	260.25 Minor irregular patches Po; scattered crystals angular Sp.	1%
			261							
261.9	3.0	3.0	100% 262	261.9	quartz-arsenopyrite vein zone. Crystalline sulphides massive to quartzose patches.	Clay alteration on contacts of vein.		60° contact. friable	coarse grained massive vein AsPy with patches coarse Cp & Po. AsPy 40%, Cp 10%, Po 10%	60
			263	262.8	Talc carbonate zone, fine grained, generally dirty white to pale green in colour.	Talc alteration intense, core is soft and friable		55° contact 263.4 30° 2cm Po vein. massive. 45° S	Fine hairline fracture stockwork of Py, Cp, Sp. Massive Po in crosscutting vein.	5%
			264			264.1 Strongly foliated.			Fine Py, Cp in hairline fracture	1%
264.9	3.0	3.0	100% 265			264.9 Secondary silicification in veins.		264.65 55° 10cm chlor-sulphide zone 265.08 45° 15cm q.v & fluospar. crenulated foliae.	264.15 Disseminated Py, Cp.	1%
			266					60° veined contact	266.2 Red/brown patches + vns Sp; vein @ 11 Py in 2° vns	5% 100
				266.3	Siltstone, tuffaceous sandstone and black shale. An interbedded sequence of essentially unaltered, moderately well bedded units. Siltstone is gradational from tuffaceous sandstone to fine grained, laminated mudstone. Generally green to gray. Interbedded units of carbonaceous shale are calcareous.	Carbonate veined breccia on contact. Calcite in tension fissure and veins in black shale units. Sandstones are slightly calcareous and chloritised.		267.0 40°S	266.55 Disseminated patches Py minor Cp in black shale units.	2%
267.9	2.6	2.6	100% 268							
			269					269.4 70°S		
			270							

SCALE 1:100 (1cm = 1 m)

COMSTAFF PROPRIETARY LIMITED

DRILLHOLE LOG FOR DDH RBE 14

018026

Metres	Sn	Cu	W	Pb	Zn	Ag	As	Ni.								SAMPLE NUMBER
														End of	Ground	Core	
241·5	15	160	BLD	405	1250	1·5	75							Start of	Split	Core	Tq049
242·5	65	70	BLD	1050	1550	2·0	650										Tq050
243·5	110	75	BLD	700	3900	2·0	750										Tq051
244·8	290	8500	BLD	740	3350	22·5	4·2%										Tq052
244·95	65	95	20	465	2600	1·5	800										Tq053
245·3	30	80	BLD	660	1550	1·5	1000										Tq054
246·3	15	30	BLD	260	580	1·0	280										Tq055
247·3	30	210	BLD	740	3600	3·0	430										Tq056
248·3	45	50	BLD	1650	3150	2·5	240										Tq057
249·3	45	1850	30	4500	1·0%	13·5	650										Tq058
249·6	30	70	BLD	800	2250	2·0	150										Tq059
250·6	30	90	BLD	735	2500	3·0	170										Tq060
251·3	55	110	BLD	1200	5100	3·5	430										Tq061
252·0	260	475	30	1100	3650	5·0	350										Tq062
252·8	450	150	30	3000	6650	4·5	730										Tq063
253·15	370	435	BLD	1250	4300	8·5	2400										Tq064
253·75	250	460	BLD	6650	1·7%	15·5	1500										Tq065
254·0	1600	1500	BLD	3900	7300	43·5	6500										Tq066
254·5	1500	1·1%	BLD	6400	2·3%	98·5	1900										Tq067
254·8																	

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 14

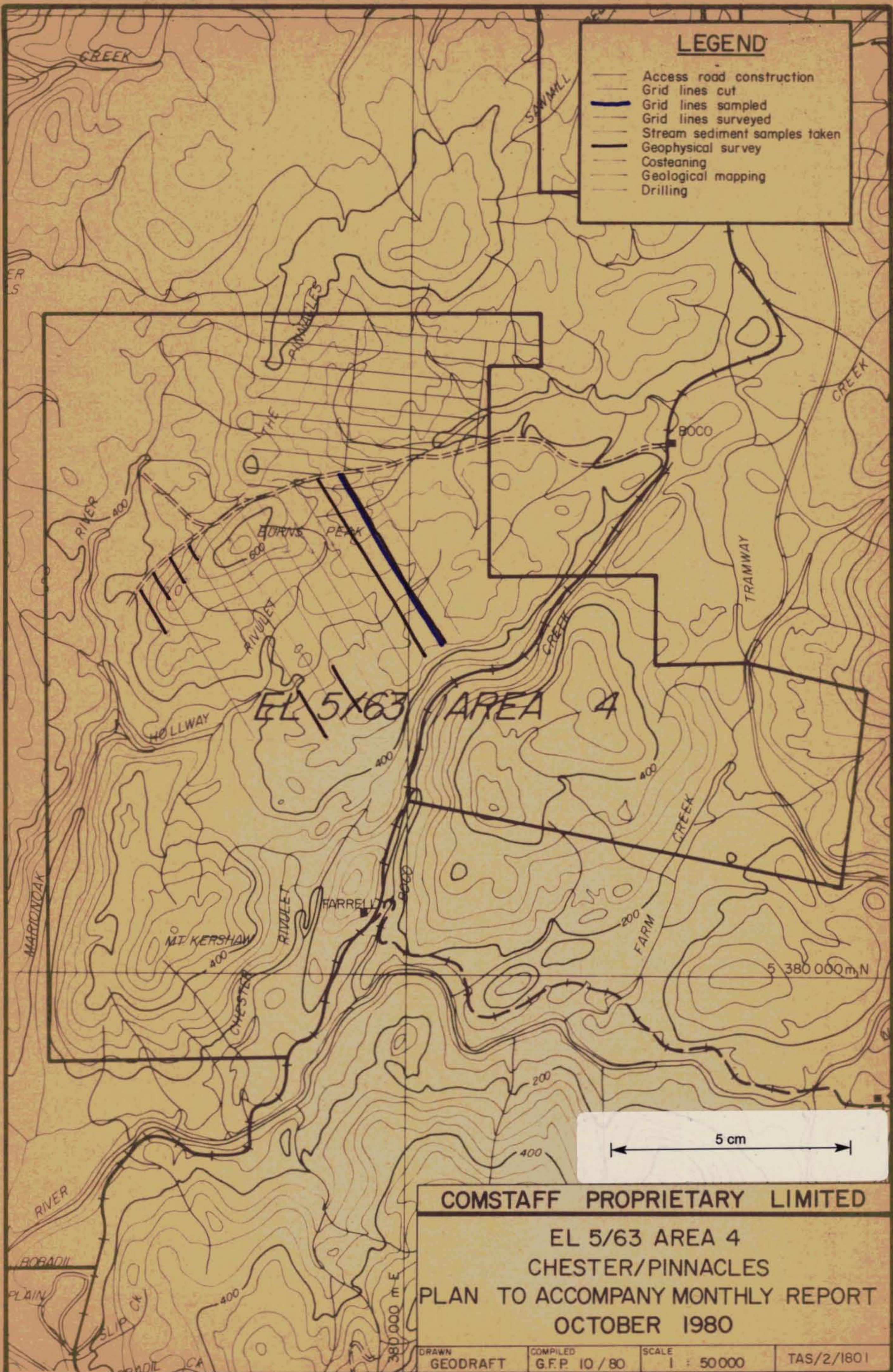
ASSAYED BY Analabs FROM 240 TO 255 m DATE 20/10/80 PAGE 14 OF 17

018027

Metres	Sn	Cu	W	Pb	Zn	Ag	As	Ni								SAMPLE NUMBER
	1000	320	40	1·2%	3·4%	84·5	3100									19068
255·6	450	8000	BLD	4·5%	2·3%	1420·0	650									19069
256·6	1100	8·5%	BLD	5·0%	4·3%	645·0	1·6%									19070
257·3	50	165	BLD	625	950	11·0	500									19071
258·3	110	115	BLD	170	210	4·5	720									19072
258·8	350	4650	BLD	1700	2150	65·0	550									19073
259·4	3500	260	BLD	710	2050	3·5	1·8%									19074
260·25	15	55	BLD	400	1200	1·5	1600									19075
260·9	BLD	60	BLD	30	50	1·0	1600									19076
261·9	380	2·9%	BLD	135	1000	48·5	35·0%									19077
262·8	480	400	BLD	95	365	6·0	2600									19078
263·8	20	2900	BLD	85	800	10·5	2400									19079
264·8	BLD	30	BLD	25	60	1·5	1400									19080
265·8	BLD	30	BLD	105	130	2·0	800									19081
266·2	470	715	40	6200	4·0%	15·5	750									19082
266·55	60	40	BLD	375	1350	1·5	220									19083
267·0	20	110	BLD	50	200	0·5	110								End of Split Core	19084
267·9	10	110		15	160	0·5	29	125							Recommence Ground Core	

COMSTAFF PROPRIETARY LIMITED ASSAY RESULT SHEET FOR DDH RBE 14

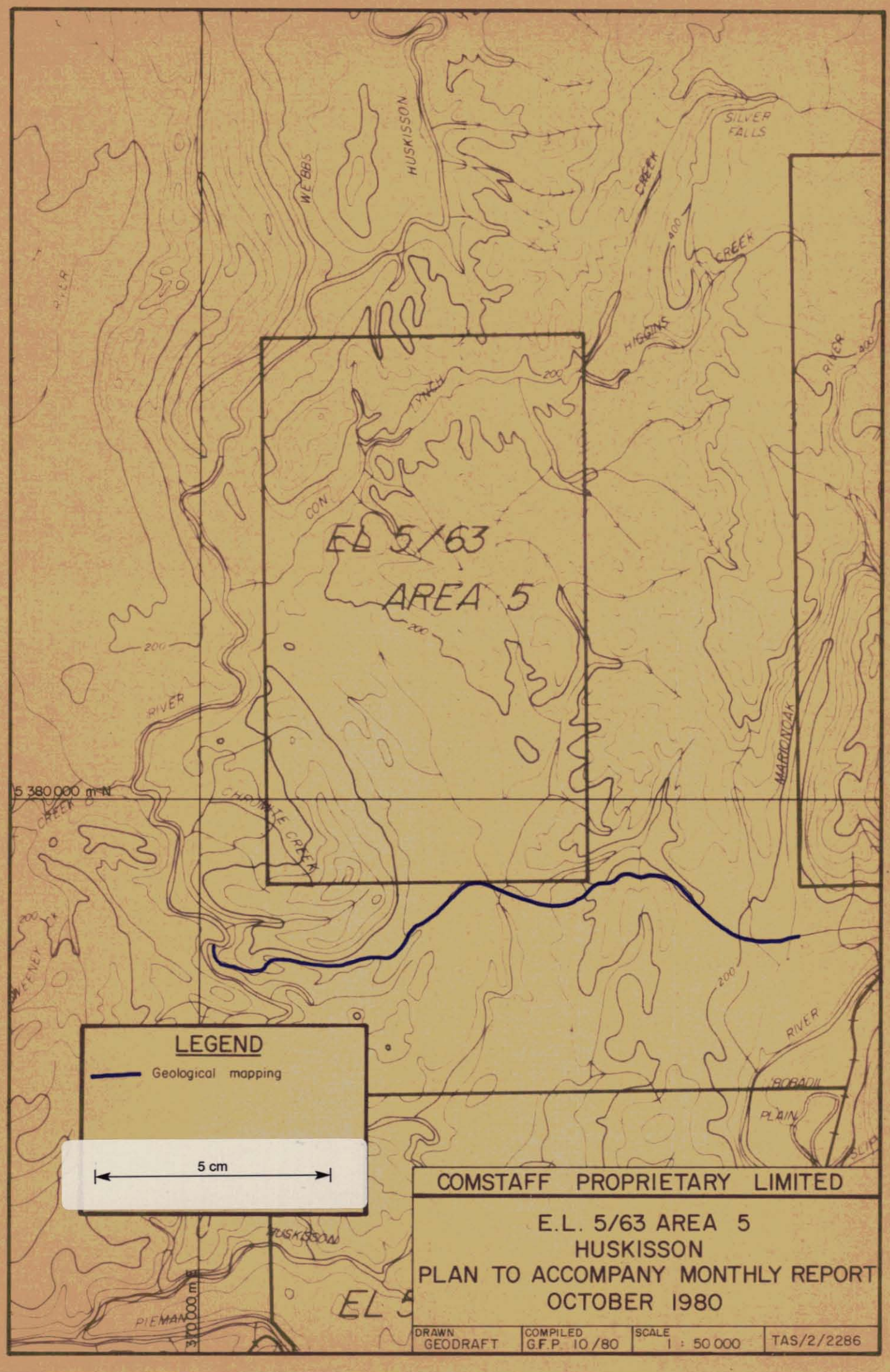
ASSAYED BY Analabs FROM 255 TO 270 m DATE 20/10/80 PAGE 15 OF 17


LEGEND
Access road construction
Grid lines cut
Grid lines sampled
Grid lines surveyed
Stream sediment samples taken
Geophysical survey
Costeaning
Geological mapping
Drilling
CREEK
SAWMILL
THE PINNACLES
BOCO
CREEK
RIVER
400
BURNS PEAK
600
RIVULET
TRAMWAY
CREEK
EL 5/63 AREA 4
HOLLWAY
400
400
FARM
CREEK
FARRELL
200
MARIONOAK
MT KERSHAW
RIVULET
400
CHESTER
5 380 000m N
200
400
5 cm
RIVER
ROBADIL
PLAIN
SLIP CK
400
380 000m E
COMSTAFF PROPRIETARY LIMITED
EL 5/63 AREA 4
CHESTER/PINNACLES
PLAN TO ACCOMPANY MONTHLY REPORT
OCTOBER 1980
DRAWN GEODRAFT
COMPILED G.F.P. 10/80
SCALE 1 : 50000
TAS/2/1801

COMSTAFF PROPRIETARY LIMITED

EL 5/63 AREA 6
RENISON
PLAN TO ACCOMPANY MONTHLY REPORT
OCTOBER 1980

DRAWN	COMPILED	SCALE	
GEODRAFT	G.F.P. 10/80	1 : 50000	TAS/2/1802



COMSTAFF PROPRIETARY LIMITED

E.L. 5/63 AREA 5
HUSKISSON
PLAN TO ACCOMPANY MONTHLY REPORT
OCTOBER 1980

DRAWN	COMPILED	SCALE	
GEODRAFT	G.F.P. 10/80	1 : 50 000	TAS/2/2286