

**MICROFILMED**

J of M	A.O.	C.G.	E.O.	D.S.M.E
				Registrar
Received Answered - 1 DEC 1982				E & IL
DEPT. OF MINES				
REF. No. 10,073/82				

aac

PROJECT NAME: COMSTAFF PROPRIETARY LIMITED

TITLE: PROGRESS REPORT ON THE RENISON EAST AREA

EL 5/63 PART 6

**OPEN FILE**

AREA NAME/S, STATE 1:250,000 SHEET NO/S & COORDINATES: 1:250 000 sheet Queenstown SK 55-05

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

TEXT PAGES NO:

PLAN NOS: See list of plans

TABLE NOS: 3

APPENDICES: 3

AUTHOR/S: S R Yardley, J D Crimeen

DATE: 25 November 1982

83-1905 (1)

AUSTRALIAN ANGLO AMERICAN LIMITED

PROGRESS REPORT ON THE RENISON EAST AREAEL 5/63 PART 6WORK COMPLETEDDiamond Drilling (See Table 1 Diamond Drilling & Drill Rate Summary)

During the period 24th April to 20th November 14 holes have been drilled and a further hole (RBE D2) is currently being drilled. A total of 3796.4 metres have been drilled to date. Two drill rigs have been in operation, a Longyear 38, working on a single shift basis for most of the time and a Longyear 44 (deep holes) working two 10 hour shifts per day. An overall rate of 17.90 metres per shift was achieved with the 38 and 10.0 metres per shift on the 44. (controlled directional drilling).

The above drilling was undertaken in six separate areas with varied target objectives - principally resource potential of existing mineralisation and stratigraphic traverses with deep and shallow holes. (See plan TAS/2/2093).

A summary of the areas drilled is tabulated below:-

<u>Area</u>	<u>Hole No</u>	<u>Total Metres Drilled</u>	<u>Target</u>
GAR Fentons	RBE 34-37	788.70	Pb, Ag, Zn resource potential of Salmons lode at + 100 RL.
GAR North Pieman River Tin Zone	RBE 33 RBE 38-42 (6 holes)	1740.30	Sn resource potential of Tin Vein along strike and at depth.
GAR/GAP South Extension	RBE 43-44 (2 holes)	933.40	Grade and width potential of south-erly strike extension of Fenton <sup>S</sup> structure for both tin & base metals plus stratigraphic information.

Western GAP/GAT	RBE 45 (1 hole)	334.00	Stratigraphic hole to investigate possible formational magnetic anomaly
Western GAP (Deep Drilling)	RBE D1	1098.60	Deep, Lower Crimson Creek stratigraphic hole adjacent to Renison plus possible down dip traverse of the Bassett federal fault in Comstaff ground.
GAR South Exe Pty (Deep Drilling)	RBE D2	294.30	Deep, lower Dundas stratigraphic hole beneath Exe Pty Mine and massive sulphide replacement potential of calcareous units to west at depth.

Total Drilled 3796.40m

Drill core was sampled by grinding and split core methods, and analysed for:-

Pb, Ag, Zn, Cu, As, Ni (AAS)

Sn (XRF)

Selected zones of RBE D1 were in addition analysed for Au, Mo, W.

All drill holes were summary logged and then logged in detail. Summary logs for holes RBE 33-45 are appended (Appendix 1).

#### Geological Grid Lines and Access Tracks

28.8 kms of grid lines were cut by contractors (Astex) in the western GAP/GAT and GAR/GAP south extension areas.

Details of lines cut are summarised in Table 2.

A number of drill access tracks were bulldozed from existing tracks. A concerted effort was made to minimise damage to trees.

#### Surveying

All drill collars were surveyed by theodolite or level.

All new grid lines and tracks were surveyed by tape and compass.

Geochemical Surveys

1428 soil auger samples (C horizon) were collected by contractors on the western GAP/GAT; GAR/GAP south extension areas.

All samples were analysed for Cu, Pb, Zn, Ag, Ni & As by AAS and Sn by XRF.

Geophysical Surveys

Ground grid line magnetics were carried out over 28.8 kms in the western GAP/GAT and GAR/GAP south extension areas.

Geological Mapping - Petrology

Detailed grid line mapping was undertaken over the western GAP/GAT and GAR/GAP south extension areas and integrated with existing geological data. Some check mapping was undertaken in the Exe Pty area.

38 drill core samples were submitted to Central Mineralogical Services for petrological description.

RESULTS ACHIEVEDDiamond Drilling  
GAR Fentons Area

The in situ lead, silver, zinc resource potential of Salmon's Lode was not upgraded.

Reserves are calculated at:-

654,282 tonnes of	247.36 gms	Ag
	5.33%	Pb
	3.32%	Zn

A preliminary statement of indicated resources at GAR Fentons Prospect is attached (Appendix 2).

Pieman River Tin Zone Area

Tin grade and strike (300m) but not width is apparent along Tin Vein at the levels drilled to date. Recent petrological work suggests the vein zone is in part a fault zone akin to the Bassett federal fault, although as yet, of small dimensions.

Impure calcareous sediments abutting the fault zone in RBE 33 have been partially replaced by pyrrhotite and pyrite with values of up to 0.4% Sn while the fault proper returned a value of up to 7.06% Sn. A true width of 2.67m gave 1.56% Sn. (See Table 3 - Tin workings associated with the Dundas Trough and Plans JDC/SRY 1 and IGPW 5).

#### GAR/GAP South Extension Area

The Fentons structure here does not carry economic widths of base metals or tin but both holes intersected 'dirty' calcareous units at the possible interface between the top of the Crimson Creek Succession and the base of the Dundas group. Disseminated and fracture pyrrhotite and pyrite in these units is ubiquitous and some exhibit enhanced background levels of tin.

RBE 43 traversed the Cole-Ring/Cole brook fault zone which although narrow here, contained up to 20% sphalerite.

#### Western GAP/GAT Area

The magnetic response is formational; due to detrital? magnetite, haematite and ilmenite in sediments. In addition 'dirty' banded calcareous sediments were intersected towards the end of the hole adjacent to Renison's ground. (See plan JDC/2).

#### Western GAP Area - Deep Drilling

RBE D1 did not intersect the Bassett federal fault at depth, but entered a porphyritic biotite granite at 912.15m. The granite exhibits weak quartz tourmaline veining and selvage clay sericite alteration. Anomalous levels of tin are associated with the above veins.

Weak skarn mineralisation is developed over 10.34m from 884.20 - 864.54m.

A semi to massive replacement zone of pyrrhotite, chalcopyrite and vein axinite occurs from 422.60 - 427.30m. (See plan JDC/3).

GAR South EXE Pty Area - Deep Drilling

This hole is currently being drilled and will not be reported on here (See plan JDC/SRY 4).

Results for significant tin and base metal intersections have been summarised on 6 tables (Appendix 3) for GAR Fentons, Pieman River Tin Zone and Western GAP (deep drilling) areas.

Results are outstanding for RBE 44 and 45.

Geochemical Surveys

Soil sampling over the western GAP/GAT and GAR/GAP south extension areas did not reveal any new outstanding anomalous areas in either tin or base metals.

Geophysical SurveysGround Magnetics

The salient features of this survey were a strong NNW trending formational anomaly subsequently investigated in the south by RBE 45, and a strong ENE fault feature called the Mawson fault (See plans TAS/2/3100 & 3101).

Geological Mapping

A continuation of the Fenton's mineralisation into the northern part of the GAP grid was established and the presence of the Mawson fault substantiated. The broad geological pattern established in 1981 has not changed.

  
for

S R YARDLEY  
J D CRIMEEN

DRILL HOLE NO.	GRID AREA	COLLAR CO-ORDINATES		R.L.	AZIMUTH	DEC-LINATION	END OF HOLE METRES	DRILLING DETAILS				START DATE	END DATE	DRILLING DAYS	METRES PER DAY AVERAGE	NO. DELAY DAYS	GENERAL COMMENTS
		EAST	NORTH					TRICONED METRES	HQ METRES	NQ METRES	BQ METRES						
RBE 33	GAR (PRT 2)	372581.8	5373081.1	177.7	78°M	-45°	331.50	21.0	-	56.7	253.8	23.4.82	4.5.82	11.5	28.8		
RBE 34	GAR FENTONS	372856.85	5372663.39	177.6	78°M	-45°	153.60	14.0	-	139.6	-	4.5.82	12.5.82	8.5	18.0		
RBE 34A	GAR FENTONS	372856.85	5372663.39	177.6	78°M	-46°	(144.90)	-	-	48.0	-	13.5.82	17.5.82	4.5	10.6		* WEDGE CUT 96.90-144.90 = 48m.
RBE 35	GAR FENTONS	372794.4	5372842.1	173.9	78°	-45°	203.80	22.5	-	181.3	-	17.5.82	25.5.82	8.5	23.9		
RBE 36	GAR FENTONS	342825.4	5372542.7	179.47	48°	-45°	225.0	46.4	-	178.6	-	26.5.82	4.6.82	10	22.5		
RBE 37	GAR FENTONS	372846.63	5372424.77	179.51	78°	-45°	158.30	64.5	-	93.8	-	5.6.82	10.6.82	5.5	28.7		
RBE 38	GAR (PRT 2)	372543.9	5373144.0	176.0	78°	-45°	328.00	60.5	-	267.5	-	10.6.82	27.6.82	16.5	19.8		
RBE 39	GAR (PRT 2)	372818.7	5373197.2	123.0	258°	-45°	238.00	7.5	-	230.5	-	29.6.82	11.7.82	12.5	19.0	1	Change of drill pad location - access preparation.
RBE 40	GAR (PRT 2)	372810.5	5373257.7	119.1	258°	-45°	268.60	35.5	-	233.1	-	11.7.82	25.7.82	14.5	18.5		
RBE 41	GAR (PRT 2)	372724.46	5373020.96	177.8	78°	-45°	317.20	27.5	-	287.9	-	26.7.82	13.8.82	19	16.6		
RBE 42	GAR (PRT 2)	372724.8	5373319.8	117.6	258°	-45°	257.00	42.5	-	214.5	-	14.8.82	29.8.82	16	16.0		
RBE 43	GAP (S.EXT)	372290.0*	5370900*	168.5*	258°	-45°	418.00	10.5	-	407.5	-	30.8.82	20.9.82	22	19.0		
RBE 44	GAP (S.EXT)	372534.3	5371462.5	164.8	258°	-45°	515.40	36.0	-	216.0	263.4	21.9.82	28.10.82	38	11.9		5 double shifts
RBE 45	GAP/GAT	371650 *	5371730*	175 *	292°	-45°	334.00	21.0	-	198.4	114.6	29.10.82	9.11.82	12	16.7		8 double shifts
13 HOLES	←	→ TOTALS					3796.4	409.4	NIL	2755.2	631.8	23.4.82	9.11.82	200	17.82	1	
RBE D1	GAP WEST (DEEP DRILLING)	371697.3	5371158.7	179.7	203°	-85°	1098.6	36.0	192.0	671.0	199.6	15.8.82	22.10.82	61	10.3	8	Cementing; Wedging; setting up.
RBE D2	EXE PTY (DEEP DRILLING)	373561.7*	5371735.9*	153.8*	265°	-65°	ongoing (294.30)	15.0	89.10	294.3	-	6.11.82		(15)	12.2	3	Ongoing - at 294.30 as of 20.11.82.

TABLE 1

DIAMOND DRILLING AND DRILL RATE SUMMARY 23.4.82 - 9.11.82

\* Provisional

641007

TABLE 2.

641008

GRID LINE CUTTING + SAMPLING.

<u>GRID</u>	<u>LINE</u>	<u>FROM</u>	<u>TO</u>	<u>LENGTH</u> m	<u>NO. OF SAMPLES</u>
GAP.	2350 N	3400 E	3906 E	506.	26
	2450 N	3400 E	3875 E	475.	22
	2550 N	3400 E	3865 E	465.	23
	2650 N	3400 E	3920 E	520	26
	2750 N	3400 E	3998 E	598	28
	2950 N	3400 E	3970 E	570	26
	3065 N	3400 E	3995 E	595	30
	3180 N	3400 E	4020 E	620	31
	3265 N	2720 E	3828 E	1108	55
	3330 N	2800 E	3915 E	1115	55
	3465 N	2800 E	3944 E	1144	57
	3530 N	2800 E	3965 E	1165.	58
	3665 N	2776 E	3980 E	1204	60
	3730 N	2680 E	3940 E	1260	63
	3850 N	2800 E	4029 E	1229.	61
	3900 N	2800 E	4040 E	1240	62
	3950 N	2800 E	4060 E	1260	63
	TIE LINE	0 South (Asa)	1012 S	1012.	47
GAR/BAT	3730 N	2800 E	3380 E	580	29
	3800 N	2800 E	3447 E	647	32
	3860 N	2160 E	2800 E	640	32
	3980 N	2100 E	3100 E	1300	65
	4040 N	2100 E	3365 E	1265	63
	4220 N	2140 E	3335 E	1195	59
	4280 N	2080 E	3320 E	1240	62

<u>GRID</u>	<u>LINE</u>	<u>FROM</u>	<u>TO</u>	<u>LENGTH.</u> m.	<u>NO. OF SAMPLES</u>
6AR/6AF	4340N	2104E	3349E	1242.	62
	4460N	2160E	2940E	780	39
	4520N	2220E	2900E	680	34
	4580N	2220E	2880E	660	33
	4700N	2180E	3070E	890	44
	4760N	2200E	3060E	860	43
	4940N	2400E	2800E	400	19
	5000N	2400E	2800E	400.	19.
<u>TOTALS.</u>				28,809 kms.	1428

MAJOR MINES	SIZE	STYLE	HOST	INTRUSIVE ASSOCIATION
RENISON BELL	1982 proven 5.96 Mt at 1.14% 1982 probable 113 Mt at 1.04%	1/Massive Po-Cs replacement 2/Fault lodes	Success Creek and Crimson Creek Dolomites	Pine Hill
MT. BISCHOFF	1874-1948 ~ 10 Mt at 0.8% 1982 proven 3.56 Mt at 0.54%	1/Massive Po-Py-Cs replacement 2/Fracture qz-Cs lodes 3/Po-Py-Cs Porphyry replacement	Upper Oonah Dolomites	Porphyry dyke swarm associated with Meredith Granite
CLEVELAND	1981 indicated 1.7 Mt at 0.64%	Disseminated - massive Po-Cs replacement	Crimson Creek Limestones	Porphyry dyke associated with Meredith Granite
<b>PROSPECTS</b>				
QUEEN HILL	1982 6.0 Mt at 0.65% plus 3.0 Mt at 1.0%	Fracture controlled qz-cbte -Cs-stannitic-Py stockwork	Proterozoic Quartzites	Porphyry dykes associated with Heemskirk Granite
ST. DIZIER	0.6 Mt at 1.0%	Mg skarn replacement	Serpentinised Dolomite in Oonah Shales	Heemskirk Granite
MT. LINDSAY	~0.5 Mt at ~1%	Ca skarn replacement	Crimson Creek Marble	Meredith Granite
RAZORBACK	1965 0.6 Mt at 0.84%	Fault controlled massive Po -Cs replacement of talc-cbte	Contact of Cambrian serpentinite & Lower Dundas conglomerate	Pine Hill
<b>SHOWS</b>				
WOMBAT-CUNDYS		Greissen veins	Meredith Granite	Meredith Granite
SOUTH BISCHOFF		Greissen veins	Porphyritic phase of	Meredith Granite
EXE PROPRIETARY		Qz-Cs vein stockwork	Dundas? - Crimson Ck sediments	GAP Granite
FENTONS		Qz-Cs veins associated with gb dykes	Crimson Ck sediments	GAP Granite
GRAND PRIZE		Fault controlled qz-sulphide -Cs fissure fill	Calcareous porous Dundas sediments	Pine Hill
FEDERATION		Qz-To-Cs fissure veins	Greissenised fine grained Granite	Heemskirk Granite

## COMSTAFF PROPRIETARY LIMITED

TIN WORKINGS  
ASSOCIATED WITH  
THE DUNDAS TROUGH

APPENDIX I

COMSTAFF J.N.

9/2/5

DRILL HOLE DETAILS		DRILLING DETAILS.	
AREA/GRID.	GAR FENTONS.	H. Casing to 22.0 m. N. Casing to 83.90 m. Big core. from 83.90 - 153.60 m. Interval 134.75 - 141.30 to be redrilled (wedge) with Nq triple tube + wind and 1.5 m. core barrel - pending verification by Melb.	
HOLE NUMBER.	RBE 34. (SECTION 11/660N)		
COLLAR CO-ORDS	372856 85E 5372663.39N		
AZIMUTH.	77.5° N.		
INCLINATION	45°		
R.L.	194.6		
DEPTH OF HOLE	153.60 + 48.0m wedge int.		
COST.	\$10,125 approx.		
TARGET ZONES.	TALC CAB. 120-124 (+92.2) 943.0E SALMONS Vn 111.0m (+100.2) 925.0E COPPER Vn 102.0m (+106.2) 928.0E TIN Vn 110.0m (+101.2) 945.0E FENTONS Vn 123.0m (+91.2) 943.0E		

GEOLOGICAL SUMMARY.

FROM - TO	LITHOLOGY.	MINERALISATION	STRUCTURE
0 - 14.0	TRICORNER		CIA's
14.0 - 25.0	Bleach debris & laminated clays.		
25.0 - 55.0	Tsa. oxidised from to 52.0m.		B. 0 - 15°
55.0 - 77.50	Black sh 50% tsa. 50%.	open qtz veinlets	B. 15 - 30°
77.50 - 87.10	Banded black sh. minor tsa - convolute bedding	syngenetic py.	B. 0 - 70°
87.10 - 91.25	Composite vein zone - qtz/carbonate plus lead/zinc - barren interzones. (SALMONS VEIN.)	Sp Ca, Cp, Py, Po, Py. 5% Pb/Zn.	V. 25°
91.25 - 94.50	Massive Po qtz vein (COPPER VEIN)?	70-80% Po 20% Cp 1% Aspy.	V 45°
94.50 - 122.0	Bleached (alt.) banded tsa, ss, sh.	-	B 0-45°
122.0 - 129.25	Gabbro - chloritised	-	e 35°
129.25 - 134.75	Alt. chloritised? banded sediments		B - 0-35°
134.75 - 136.00	Massive qtz Aspy vein (TIN VEIN?).	28% Aspy 2% Pb/Cp.	V 40-45°
136.0 - 141.30	Composite vein zone intermixed with Talc cab. 25.40% core recov. (TIN + FENTONS VEIN).	Py. Aspy, Ca, Sp. Cp, Po %?	-
141.30 - 153.60	Black graphitic sh grading into tsa.	-	-

EASTMAN CAMERA SURVEYS.			GENERAL COMMENTS.	
DEPTH.	AZIMUTH	INCL.	Tsa. buffaceous sandstone. ss. bituminous sh. shale. B = bedding V = vein e = contact ① Salmon & Copper veins } amalgamated into 2 vein structures. ② Tin & Fentons veins.	
0	77.5	45.5		
60m.	76.5	47.0		
90m.	120.0	48.0		
120m.	74.25	49.0		
136m.	80.25	47.0		
153	74.0	47.5		

COMSTAFF J.N.

*J.N.*

DRILL HOLE DETAILS		DRILLING DETAILS. 3/8
AREA/GRID.	BAR FENTONS.	<p>REDRILLED ZONE</p> <p>NQ reamed. 83.90 → 96.80m.</p> <p>New hole jammed at 94.0 approx.</p> <p>NQ cored 96.80 - 144.90m.</p> <p>Wedge not used. (value \$1000)</p>
HOLE NUMBER.	RBE 34.	
COLLAR CO-ORDS		
AZIMUTH.		
INCLINATION		
R.L.		
DEPTH OF HOLE		
COST.	\$1000 approx - to be investigated.	
TARGET ZONES.	TIN - FENTONS VEINS Inadequate core recovery.	

GEOLOGICAL SUMMARY.

FROM - TO	LITHOLOGY.	MINERALISATION	STRUCTURE
- 136.0	Alt. chloritised banded sediment	barren.	CIA's.
136.0 - 137.50	Massive Aspy. Cp Qtz vein stopping Talc Carbonate - foliated sheared + fractured on lower contact - partially oxid.	50% Aspy. 3% Cp. 1% Po 1% Py. 40% Qtz 5% TC.	V. 45°
139.50 - 141.30	Composite vein zone - uniphanthly. sulfidated talc carbonate partially replaced by massive suggy pyrite - the whole stopped by late phase white barren vein quartz.	40% Py. Tr Aspy. 40% Talc carb. 20% late vein Qtz.	
141.30 - 142.10	Black graphitic shale veined with cream to pink quartz carbonate exhibiting cockscombed texture of galena + sphalerite - the whole partially stopped by late phase barren white quartz vein stock work.	1-2% Ba/Sp.	
142.10 - 144.90	Black graphitic shale with diminishing veneration + venation of Qtz carbonate + white barren. Qtz.	Trace Ba/Sp.	

EASTMAN CAMERA SURVEYS.			GENERAL COMMENTS.
DEPTH.	AZIMUTH	INCL.	<p>CORE RECOVERY.</p> <p>BQ core. 136.0 - 141.30 (5.30m) 25.4%</p> <p>NQ (triple) 137.0 - 142.10 (5.10m) 77.8%.</p> <p>Hole stopped 4.30 pm. 16.5.82</p> <p>Survey at 143.6 carried out.</p> <p>TC = talc carbonate</p>
127.0	75.0	49.0°	
143.6	80.5	49.75. (sulphide zone).	

WEDGE

BOX NO	GRID NO	SAMPLE NUMBERS FROM TO	NO IN BOX	PREPARATION	CONSIGNMENT ANALYSIS	COMMENTS
		INT. ACT % CIA				
136.0	137.50	1.50 1.43 95.33	45°	Partial oxid in TC. Qtz Aspy Cp.	50% Aspy, 3% Cp, 1% Py	100% at start
137.50	138.50	1.00 0.85 85.00		Silic TE + Qtz Aspy Vein	1% Py	40% Qtz 5% TC
138.50	139.10	0.60 0.42 70.00		Mass. vuggy Py (Aspy) - prans.		
139.10	140.00	0.90 0.72 80.00		27cm of TE - stopped by white Qtz.		
140.00	140.40	0.40 0.10 25.0		Frag of gray silic TE + white Qtz		
				Silic TE unimp. stopped by mass. + sheared white Qtz.		
140.40	141.15	0.75 0.50 66.66		Mass. vuggy Py - silic unimp. (TE zone)		
141.15	142.55	0.90 0.36 90.0	0.09	Gray prans. silic TE. say 141.30		
				below 2cm py. vein → black graphitic shale.		
141.55	142.10	0.55 0.52 94.54	0.12	Mass. <sup>white</sup> stoping Qtz		
				0.15m. Cockscomb. Qtz Carb va + sp/ga. 2-3%		
		610 m. A90 = 80.32%		20% late stoping Qtz		
			0.09	Black shale + late stoping Qtz		vein stockwork.
			0.16	Soft black shale with 2cm cream Qtz carb		
142.10	143.30	1.20 1.20 100%	0.50	Black shale stockwork by Qtz carb vein with super impred. Qtz stoping veins.		
				Trace to 1% sp/ga.		
			0.70	Black shale + One 10cm Qtz carb/Qtz vein		
143.70	144.90	1.60 1.55		Black graphitic shale. - weak stoping vein stockwork at start		
ACTUAL	VEIN ZONE	BQ		134.75 - 141.0?		6.25.
ACTUAL	VEIN ZONE	WEDGE NO		136.00 - 142.10		6.10

DRILL HOLE DETAILS		DRILLING DETAILS.
AREA/GRID.	GAR FENTONS.	HQ core to 22.50m.
HOLE NUMBER.	RBE 35 (SECTION 20/800N)	
COLLAR CO-ORDS.	392494.4E 5372842.1N	
AZIMUTH.	78° N.	
INCLINATION	45°	
R.L.	173.90m.	
DEPTH OF HOLE	203.80	
COST.		
TARGET ZONES.	SALLIOWS. V 108m. (+100RL) COPPER V 130m. (+84 RL) TIN V 158m. (+65 RL) TALC CARB. 167-192 (+60 RL)	

GEOLOGICAL SUMMARY.

FROM - TO	LITHOLOGY.	MINERALISATION	STRUCTURE
0 - 22.50	Tricomed.		CIA's.
22.50 - 30.0	Oxid + weathered. dk grey ss, minor tsa.	limonite	B 0 - 15°
30.0 - 40.0	Bull to brown. deeply wd./oxid ss, sh, tr tsa.	"	
40.0 - 52.50	Black pyritic sh + dk grey ss.	veinlet + syn py.	
52.50 - 61.90	Grey mass. tsa; rare dk grey ss + bk. sh.	basal chert, calcite vults	B 0 - 15°
61.90 - 93.95	exc. banding within narrow ss/sh horizons. Fraggy shale - t 85°	+ rare qtz vms - also traces to 76.0.	B 20° (82.5)
93.95 - 93.98	3cm mass. Cu/Sp vein (trace qtz carb)	Ga/Sp.	QU 40° (82.5)
93.98 - 107.75	Massive grey green tsa with minor horizons of ss/sh.	Plocalc. vms/vults.	V 40° (85.0)
107.75 - 113.90	Massive, white late stage quartz stringing out cream coloured <u>conchoidal</u> calcite. qtz/carb vein + streaky carbon zone. Ruffe of banded tsa within zone.	Trace py sp ga?	B 45° (98.0)
113.90 - 122.30	Mixed tsa ss + sh. with qtz + carb streaking.	52% qtz + qtz carb *	V 40° (122.2)
122.30 - 128.90	Banded tsa/ss - minor sh.	15cm qtz/carb Asp vms at 128.0 to 14.0p.	B 50° (122.5)
			V 35° (128.0)

EASTMAN CAMERA SURVEYS.

GENERAL COMMENTS.

DEPTH.	AZIMUTH	INCL.	
0	78°	45°	15
20	80.25	44.25	45
60	80.25	46°	75
89	78°	47°	105
120	77.5°	47°	135
148	75°	47°	165
172.5	77.5°	47°	195

Copy given to RJK. 21/5/82.  
Hole to be drilled in NQ





COMSTAFF J/N.

DRILL HOLE DETAILS		DRILLING DETAILS.
AREA/GRID.	BAR FENTONS.	
HOLE NUMBER.	RBE 36. (SECTION SQN/14)	
COLLAR CO-ORDS	372 825.4E 5372542.7N	
AZIMUTH.	78° N	
INCLINATION	45°	
R.L.	179.47	
DEPTH OF HOLE	225.0m.	
COST.		
TARGET ZONES.	Salinas + Fentons + Tale Carb. 115.0 - 132.0 Copper 132.0 - Tuff 205.0 -	

GEOLOGICAL SUMMARY.

FROM - TO	LITHOLOGY.	MINERALISATION	STRUCTURE
108.30 - 122.0	Green banded. deformed in part waxy siltstone - partings + lenses of shale + buff sandstone Colour and alteration effect?	95.50 Sam Qtz Sp. 105.30 - 105.60. Sp. sluages.	v 65° CIA's. v 30° 0 - 30°
122.0 - 130.0	Mixed irregularly bedded siltstone tsa sch. - beds becoming more massive - grey in colour.		
130.0 - 131.50	* Qtz vein stark work zone. minor carb.	2-5% Cp. Aspy Po. Py.	20 - 30°
131.50 - 134.80	ts as above. (greenish)		
134.80 - 135.30	* Qtz vein - sheeted	Tr. Aspy sp.	v 20°
135.30 - 142.80	Massive greenish tsa./cs.		
142.80 - 142.97	* Qtz Po. Cp vein.	60-80% Po Cp ✓	v 45°
142.97 - 148.85.	Massive greenish tsa./cs.		
148.85 - 149.95	* Qtz to Cp vein.	30% Po Cp. ✓	v 90° ✓
149.95 - 151.90	Massive greenish tsa./cs (gabbro?)	2 x 2cm Qtz carb veins.	v 45°
149.95 - 150.10			
151.90 - 153.20	* Mass. Qtz Aspy Po vein replacing/amplified. in western TC contact	40% Aspy Po. - (Cp 2-5% Po.	v.c. 54° FOL. 45°
153.20 - 154.45	TC area with slayers of Po		

EASTMAN CAMERA SURVEYS.

DEPTH.	AZIMUTH	INCL.
0		
30		
60	82.5	44.45
89	82.5°	45°
120	82.0	45.5
150	89.5	46°
180	82.0	46°
223	81.75	47°

Massive Sulphide

GENERAL COMMENTS.

Cone broken (fractured) to 115.0m.

90° = 115.

W 84 = 120.

Vans dipping East 75°

14. 198 R. 2-R2L. 41345.

3.45.

RBE 36.

Continued

COMSTAFF J/V.

DRILL HOLE DETAILS		DRILLING DETAILS.
AREA/GRID.	GAR FENTONS.	
HOLE NUMBER.	RBE 36 (SECTION 54N/14)	
COLLAR CO-ORDS		
AZIMUTH.		
INCLINATION		
R.L.		
DEPTH OF HOLE		
COST.		
TARGET ZONES.		

GEOLOGICAL SUMMARY.

FROM - TO	LITHOLOGY.	MINERALISATION	STRUCTURE
154.45 - 156.40	Mass. Qtz - Aspy - Po Cp - minor inclusions of TC. etc.	60% Sulphide 45% Aspy 10% Po S2Cp	CIA's. U 45° L 50°
156.80 - 157.40	Mass. late stage Qtz - relict TC.	Barren Cp on lower C.	U 50° L 30°
157.40 - 158.20	Unred tsc/ss/sh. (deformed) minor v. Qtz and 25% Po free. fth.	25% Po.	
158.20 - 158.65	Mass. Qtz Cp Po Py vein	40% Cp 20% Po S2Cp. 25% Qtz	U 55° L 40° U 40° L 55°
158.65 - 159.80	Mass. Barren white ss in Qtz - late stage? minor carb.		
159.80 - 163.50	*TC with islands of sheared sed.	12% Po.	
163.50 - 163.70	Mass white ss in Qtz lower content of mass Po Cp Py Aspy.	30% Po Cp Py Aspy.	U 60° L 30°
163.70 - 164.10	Sheared. buff ss. with barren vuggy Qtz carb veins	Trace Py.	
164.10 - 172.0	Mass. gray green tsc ss. (sh)	1 —	B 0-40°
172.0 - 173.0	Mass. Qtz vein zone. - minor carb. + sulphide	2-3% Py.	
173.0 - 176.0 - 177.0	Mass. gray green. in part banded tsc, ss sh. - mixed sedg. - perhaps of shale give laminate appearance. Unit becoming exclusively mass tsc ss - sh and minor components	—	

EASTMAN CAMERA SURVEYS.

DEPTH.	AZIMUTH	INCL.
0		
20		
40	82.5	44.75°
60	82.5	45°
120	82.0	45.5°
150	81.5	46°
180	82.0	46°
223	81.75	49°

} Casing

Massive sulphide

GENERAL COMMENTS.





DRILL HOLE DETAILS		DRILLING DETAILS.
AREA/GRID.	BAR FENTONS.	4. Casing to 65m.
HOLE NUMBER.	RBE 37	
COLLAR CO-ORDS	342846.63E 5342424.99N	
AZIMUTH.	78.5° (256-388)	
INCLINATION	45°	
R.L.	77.51	
DEPTH OF HOLE	158.30	
COST.		
TARGET ZONES.	Salmons vein at +100RL.	

GEOLOGICAL SUMMARY.

FROM - TO	LITHOLOGY.	MINERALISATION	STRUCTURE
0 - 65	Trenched.		CIA's.
65.0 - 66.20	Blacial boulder (80cm diam) capping gossanous (vuggy leached) quartz carbonate? vein	1-2% relict Py. (aspy)	Mid 35° VL 40°
66.20 - 70.10	Pale greenish/grey vuggy deformed. mixed. tsa. ss. + minor sh. - in part banded but mainly massive repeat.	End of oxidation on fracture + leaching of calcite and/or carbonate veinlets	B. 30° (68.20) B. 30° (70.10)
70.10 - 82.50	Grey green. massive tsa - sporadically banded with swarfs + irregular patches of blacic carb. shale. Stranga speckled alteration effect from 77.50 (talrose tsa or gabbro?)	Weak weathering affects only fines. Sporadic irregular amorphous calcite veinlets	B. 10° (71.70) B. 35° (73.90) B. 20° (77.50) B. 35° (80.50) Micro slip faults
82.50 - 86.30	Green grey talcose tsa. with irregular veins + sheeted veins of talc	Trace sp. with talc veins - aggregates.	TV 20-25° (83.3) TV 35° (86.10)
86.30 - 94.50	Pale grey pink/brown in part mottled. us-part TAC CARBONATE indicators of alt basalt/gabbro/UB. /dep	At 93.40 10% banded magnetite.	Fl. 30° (89.50) Fl. 30-40° (92.0)
94.50 - 95.45	Pinkish brown sulphate vein + vuggy pyrite some mass replacement + sheeted vein // to [?]	3-5% Py (Trace Po Cp).	VU 40° (94.50) Fl. 250 (95.3)

EASTMAN CAMERA SURVEYS.

GENERAL COMMENTS.

DEPTH.	AZIMUTH	INCL.
0	78.5	
2		
60		
103	77.75	44.5
113	76.75	45.5
149	80.0°	46.0

} casing

Magnetic interference along azimuth ng setup line. 2° variation from RS to BS.

RBE 37.



COMSTAFF J/V.

DRILL HOLE DETAILS		DRILLING DETAILS.
AREA/GRID.	BAR NORTH (PIETROU RWEITINZ)	N. Casing to 77.70m
HOLE NUMBER.	RBE 33 (old 32)	
COLLAR CO-ORDS	372 581.8 E 537308.1 ✓	
AZIMUTH.	78° M	
INCLINATION	-45°	
R.L.	1777 ✓	
DEPTH OF HOLE	331.50	
COST.		
TARGET ZONES. TIN VEIN - outside from 25. SUBSID SALMON'S & COPPER.		

GEOLOGICAL SUMMARY.

FROM - TO	LITHOLOGY.	MINERALISATION	STRUCTURE
0 - 12.	TRICONE		CIA's.
12 - 16	Glacial rubble.		
16 - 43.0	Grey pyritic tusa, ss + sh. <u>Mix</u> banded at base + <u>bleached</u>	Trace diam py. Weathered/alt?	
43.0 - 65.0	Grey green. to buff. deeply weathered + altered? GABBRO dyke. - relict granular texture. Some inclusions of sh + tusa. also deeply weathered/alt.?	Possible alteration zone as per. 25-32?	
65.0 - 114.60	Pale grey weathered/bleached ss (60%) tusa (40%) - becoming shaley at base.		
114.60 - 178.5	Pale grey to buff tusa (60%) ss (40%) and minor sh as inclusions + lenses. at base.		
178.5 - 180.50	Predominantly dark grey ss/sh with minor tusa at top		
180.50 - 184.00	Qtz carbonate vein stockwork. (SALMONS VEIN?).	1% Ga Sp.	1/2 Qtz/Carb. 30-45. Qtz's. 40°

EASTMAN CAMERA SURVEYS.			GENERAL COMMENTS.
DEPTH.	AZIMUTH	INCL.	NO Rods will bend 5° over 30m. 30° 7° over 30m beyond that they will break - and rig/w rig base move. Pattern of surveys are too consistent - survey rods probably locking on landing ring - camera has insufficient projection beyond bit? Seams unlikely blind massive sulphide zone adjacent - or may interface thru US
0	78°	-45°	
30			
60			
90	125°	44.25	
121	137°	44.0	
151	142.5°	44.25	
181	135°	43.75	
211	129°	43.0	
241	132°	42.25	
271	130°	46.5	
301	130°	41.5	
331	128°	38.5	

Rig Base correctly aligned - checked. Target zones intersected at correct location. ERROR!!

www say 42





DRILL HOLE DETAILS		DRILLING DETAILS.
AREA/GRID.	PIEMAN RIVER TIN ZONE (GAR)	H. Casing to 60m.  811.60 $\frac{1}{2}$ sulphide A 313.40 New Bit
HOLE NUMBER.	RBE 38	
COLLAR CO-ORDS	392543.9 5343144.0 N	
AZIMUTH.	77.5 to 78.0 M	
INCLINATION	45	
R.L.	176.0	
DEPTH OF HOLE	328.0m.	
COST.		
TARGET ZONES.	Galena. 180 approx. Copper 204 " Zn. 250-260 approx.	

GEOLOGICAL SUMMARY.

FROM - TO	LITHOLOGY.	MINERALISATION	STRUCTURE.
60 - 75.	Mix of tsa, ss + sh. 60% 30% 10%		CIA's. B 45°
75 - 79.40	Black sh. & grey ss - banded. disrupted bedding - trace gray tsa.		B. 20-45°
79.40 - 97.70	Mass <sup>green</sup> gray to buff soft friable arg. & un. gr tsa - minor sh inter layers of ss & perhaps of sh.	odd buff $\frac{1}{2}$ vein with (80.0) carbonate at contact 81.50-82.50 $\frac{1}{2}$ vein * plus pyrite	V. 60° (80.0) B 30-40° (85.0) B. 20° (95.0)
97.70 - 107.0	Grey. tsa with intermixed grey ss and black graphitic sh. as perhaps ie high carbon content 50% Odd buff coloured beds 40% 10%	Loose $\frac{1}{2}$ 98-101.	V. 35° (99-101) B. 62° (107)
107.0 - 110.10	Buff to pale gray soft friable banded. f. gr tsa & sh. & rare perhaps of sh. interbedded with some massive units of Tsa 60% tsa 30% ss 1% sh.		B 0-20°

EASTMAN CAMERA SURVEYS.			GENERAL COMMENTS.
DEPTH.	AZIMUTH	INCL.	RBE 33. * = stack work.  Gray pyritic ss ss + sh. banded 16.0-43.0 Weathered fault @ 43.0 Pale gray ss (60%) sa (40%) sh at base 65.0-114.60 Pale gray to buff sa (60%) ss (40%) ditto 114.60-178.5
0	78°	45°	
30			
60			
70	75.25	45.75	
77	75.0	47.0	
129	75.25	48.5	
154	71.00	44.75	
169.5	71.00	50.0	
185.0	70.25	50.5	
215.0	74.0	51.0	
235	73.5	50.0	
265	74.0	50.5	
295	76.25	51.5	
322	76.25	51.5	

Check at 324.0m.  
70.5 52°  
∴ 6° deviation over 30m.  
Back end of core barrel.  
must be wiggly and  
crater cavity in soft ground.

RBE 38.

DRILL HOLE DETAILS		DRILLING DETAILS.
AREA/GRID.		H Casing to 60.0m.
HOLE NUMBER.	RBE 33	
COLLAR CO-ORDS		
AZIMUTH.	77.5 L 78.0M.	
INCLINATION	45	
R.L.	176.0	
DEPTH OF HOLE		
COST.		
TARGET ZONES. Silurus 180 Copper 204 Tin 250.		

GEOLOGICAL SUMMARY.

FROM - TO	LITHOLOGY.	MINERALISATION	STRUCTURE
110.10 - 135.0	Principally black & dark grey unit zone of graphitic pyritic shale + inter bedded ss. Occasional buff to grey units of band ss & j gotsa. Patches & aggregates of tea frequently intermixed with sh.	py - py 1-2% Qtz. Sers. 152.97-155.0 sheated	CIA's. B. 30° (110.10) B. 40°-50° (117.0) B. 0-20° (119.0) B. 35° (124.0) V. 30° (132.0) B. 25°-30° (142.0)
135.0 - 141.20	Grey to dark grey. ARGONACEOUS unit i.e. grey tea within overall unit of black graphitic shale.		B. 30° (137.5) B. 25° (141.0) B. 0-10° (139.0) V. 30° (142.20)
141.20 - 155.0	Black graphitic pyritic shale + lesser grey. ss - odd bed of grey Fea.	Calc. var X 141.60-147.0 2-5% vermic Trace brown sp.	B. 45° (144.6) B. 15°-55° (146.0)
155.0 - 167.90	Shale as above plus 5-7% white qtz veins stockwork - locally 15-20%. (Phalacum upper contact sheared) - overprints sporadic qtz. Biggy white more massive veins with Aspy.	15cm qtz Aspy v. 30cm sheared qtz Aspy v.	V. 40° (163.20) B. 40° (164.50) V. 20° (167.0) S. 60° (155.0)
167.90 - 169.40	Brecciated shale - sp matrix - FAULT ZONE	50% sp. Trace b. Aspy.	UC. 20° (167.90)
169.40 - 169.90	Mix of massive white chalcidonic vein qtz + shale sp & (ruggy leaded carbonate?)	20% sp. 1% Ca.	

EASTMAN CAMERA SURVEYS.

DEPTH.	AZIMUTH	INCL.
0		
30		
70	75.25	45.75
97	75	41.0
129	78.25	46.5
154	71.0	47.75

GENERAL COMMENTS.

Shale in RBE 33 from 179.50 - 218.70.  
 gabbro dyke. 218.70 - 220.50.  
 Calc Pelite 220.50 - 251.25  
 Tin Vein 251.25 - 259.70  
 Calc Pelite + sh + sa. 259.70 - 281.0  
 Barren vein qtz 281.0 - 283.0  
 Sa + sh with calc pelite 283.0 - 316.50. - say sa/ss







DRILL HOLE DETAILS		DRILLING DETAILS	
AREA/GRID.			
HOLE NUMBER.	RBE 38		
COLLAR CO-ORDS			
AZIMUTH.	77.56 776.0 M.		
INCLINATION	45.		
R.L.	176.9		
DEPTH OF HOLE			
COST.			
TARGET TIN VEIN 250 ZONES.			

### GEOLOGICAL SUMMARY.

FROM - TO	LITHOLOGY.	MINERALISATION	STRUCTURE
307.50 - 307.90	Pale green to white friable totally altered inter vein zone of banded sed. - with quartz veined black rock.	Pg - conc. with qtz veinlets.	CIAE. Contacts broken
307.90 - 308.80	Mass. stratified qtz veins with interconnecting smaller veins - stockwork complex rather than 2 phases of veins. Inter vein gaps. & dark of black shale (307.9)	Strungers & clots of Cp (Ag) 308.50 - 308.80 massive dots of red/brown sp. with lower appo.	
308.80 - 310.80	Mass. white vein qtz with shale inclusions 2cm x 1cm void at $\square$ 310.10. - plus smaller orange - banded calcite?	Appears barren. conc?	
310.80 - 311.80	Brecciated mass white vein qtz with mixed sulphide matrix (5-10% total) - banded out on lower contact	5% Py po conc?	ve. 25°-50° 311.80
311.80 - 328.0	Black carbonaceous shale with minor ss		

EASTMAN CAMERA SURVEYS.			
DEPTH.	AZIMUTH	INCL.	
0	78.5-77.5	45-45	0-154 49.75
30			45.50
70	75.25	45.45	4.25°
97	75.0	47°	
124	75.25	48.5	
154	71.0	49.75	

GENERAL COMMENTS.	
RBE 36.	60 (82.5 wd 44.75) - 223 (81.75 wd 47°) Difference. 2 1/4°
RBE 37.	85 (77.75 wd 44.5) - 149 (80° wd 46°) Difference. 1 1/2°
RBE 35	

DRILL HOLE DETAILS		DRILLING DETAILS.
AREA / GRID.	PIEMAN RIVER TIN ZONE (6A)	NW casing 6 7.50m.
HOLE NUMBER.	RBE 39	
COLLAR CO-ORDS	342 818.7 E 5343 194.2 N V	
AZIMUTH.	254.5	
INCLINATION	45°	
R.L.	123.0 ✓	
DEPTH OF HOLE	238.0	
COST.		
TARGET ZONES.	150.0 TIN VEIN? (Actual 152.0) 215.0 MILLIONS VEIN.	

GEOLOGICAL SUMMARY.

FROM - TO	LITHOLOGY.	MINERALISATION	STRUCTURE
0 - 7.50	Tricand.		CIA's.
7.50 - 73.60	Greenish grey, micaceous / chloritic banded tsa and ss becoming more massive towards base. Lens of late carb 'cl' 66.90 - 67.50		B. CIA 35° (55.0)
73.60 - 75.0	Pale grey + dark grey banded CALC PELITE		B. CIA 45-50° (74.0)
75.0 - 80.60	Greenish grey massive Tsa		B. CIA 55° (78.0)
80.60 - 83.00	Mixed. tsa, ss, sh + CALC PELITE		B. CIA 50° (82.50)
83.0 - 89.20	Green grey massive Tsa. with minor partings of streaky shale + siltstone?	chloritized - carbonated?	
89.20 - 91.0	Pale grey TRAC CARBONATE with inclusions of Tsa + black sh.		
91.0 - 113.20	Green grey massive Tsa		B. CIA 45° (103.50)
113.20 - 146.50	Massive brownish grey, altered? Tsa. with development of prominent banding - laminae. Weak CALC PELITE 130-132.		B. CIA 40° (120.0) B. CIA 40° (132.0)
146.50 - 151.85	Gray to dark grey massive Tsa - (irregular partings of black shale) Mottled texture in part - possible BARRO DYKES	Narrow (2.0m) Qtz carb. veins with trace Py Co.	V. CIA's 30°-55°

EASTMAN CAMERA SURVEYS.			GENERAL COMMENTS.
DEPTH.	AZIMUTH	INCL.	Tsa = micaceous sandstone PIEMAN RIVER TIN ZONE

See page 3.

COMSTAFF J/V.

DRILL HOLE DETAILS		DRILLING DETAILS.
AREA/GRID.		
HOLE NUMBER.	RBE 39.	
COLLAR CO-ORDS	372818.7 E 5373199.2 N	
AZIMUTH.	257.5°	
INCLINATION	45°	
R.L.	123.0 m	
DEPTH OF HOLE		
COST.		
TARGET ZONES.		

GEOLOGICAL SUMMARY.

FROM - TO	LITHOLOGY.	MINERALISATION	STRUCTURE
151.85 - 153.0	30% Quartz vein stock work in mixed gray fca, ss + sh	No apparent sulphide	CIA's ΦV.CIA. 30°
158.0 - 155.20	Partially bleached, clayey altered mixed sedt as above.		B.CIA 30-50°
155.20 - 159.50	TALC CARBONATE - cream, white to pale gray - insipiently schistified (15-20% vein quartz with py, po cp, aspy.)	5-10% Py Po cp aspy.	V.CIA 51°-55°
159.50 - 163.0	Pale gray + turquoise green streaked TALC CARBONATE	Barren	Fd.CIA 55°
163.0 - 167.50	Insipiently bleached. clay/chlorite altered and in part fractured mix of fca, sh, ss, SERPENTINITE and insipiently talc carbonated SERP.		Contact CIA (163.0m) 55°
167.50 - 185.90	Massive green gray in part banded Tca, ss, with intermittent + irregular selvages, partings + seams of black graphitic sh + Co.		B. CIA 45° (170.0) B. CIA 50° (183.0)

EASTMAN CAMERA SURVEYS.			GENERAL COMMENTS.
DEPTH.	AZIMUTH	INCL.	

See page 3

DRILL HOLE DETAILS		DRILLING DETAILS.	
AREA/GRID.		Section 5593, 260N 392,77E 122.6 RL. 10m north of LINE 5800N. Collar s/b an approx 4940E	
HOLE NUMBER.	RBE 39.		
COLLAR CO-ORDS	372818.7E 5373197.2N		
AZIMUTH.	259.5°		
INCLINATION	45°		
R.L.	123.0		
DEPTH OF HOLE			
COST.			
TARGET ZONES.	150.0m. TIMBER. MINER. 152.0 215.0 SKELTONS VEIN.		

GEOLOGICAL SUMMARY.

FROM - TO	LITHOLOGY.	MINERALISATION	STRUCTURE
185.90 - 205.10	Altered green/grey/brown in part bedded + massive mixed beds - defour. structures exhibited by partings of shale. Bands of calc. pellets evident. Tsa the dominant lithology.		CIA's.
205.10 - 206.40	Grey tsa and black graphitic shale.		
206.40 - 206.90	White Quartz Vein (sheeted) stockwork. + siderite	Trace Sp with siderite	V 25°-30°
206.90 - 209.00	Grey tsa + shale as above.		V 25°-30°
209.00 - 209.02	2cms of massive Sp + minor carb.	90% Sp.	
209.02 - 210.40	Black shale proper. - massive, competent		
210.40 - 211.40	Two Gabbro dykes. with interzone of black shale.		
211.40 - 213.05	SHALE. graphitic-pyritic		
213.05 - 213.20	Quartz Siderite Chalcopyrite (Po) vein	5-10% Cp.	V 80°
213.20 - 222.70	Mass. competent blk SHALE + bands of ss - occasional pellets of grey sandstone.		
222.70 - 223.70	Sheeted quartz veining - two strands	2-3% Py Aspy.	V's 50° + 10-15° S 40-45°
223.70 - 229.50	Black to grey competent graphitic pyritic SHALE (ss)		
229.50 - 229.70	Qtz Aspy vein - qtz carb sp on upper contact	15-20% Aspy 1-2% Sp.	V 40°-45°
229.70 - 230.00	SHALE		
230.00 - 230.15	Qtz Aspy vein - siderite filling cavities - some banded voids - possible later calcite/siderite	40% Aspy.	V 35-40°
230.15 - 230.40	SHALE		
230.40 - 232.50	10cms. massive Pyrite (cp) + Qtz	90% Py.	V 50°-55°
232.50 - 233.00	SHALE		
233.00 - 233.20	20cms. Qtz Siderite Cp/Py vein	15% Py. 3% sp.	V 35°-40°
233.20 - 234.20	SHALE		
234.20 - 234.00	Broken vein qtz K in SHALE (cashed voids 5% Qtz vein thereafter 1-2% Aspy sp.)		

EASTMAN CAMERA SURVEYS.

GENERAL COMMENTS.

DEPTH.	AZIMUTH	INCL.
0	259.5	45.
30	259.5	45.5
60	259.5	46.5
90	259.95	47.35
120	259.95	47.25
150	259.00	47.5
180	259.5	47.5
210	259.0	47.5
237	250.0°	46.5

x = qtz vein stockwork.

QV. 39° 152m  
 " 55-58° 152.5  
 " 59° 159.5  
 " 55-58° 158.50  
 Fol. 55° 160.0

DATE:

DRILL PROGRESS REPORT

REPORT NO.

COMSTAFF J/V.

DRILL HOLE DETAILS		DRILLING DETAILS.
AREA/GRID.		H. Casing to 35.80m.
HOLE NUMBER.	RBE 40	
COLLAR CO-ORDS		
AZIMUTH.	257.5 E → W	
INCLINATION	45°	
R.L.		
DEPTH OF HOLE	268.50 ✓	
COST.		
TARGET ZONES.	TIN VEIN 170.0 approx.	

GEOLOGICAL SUMMARY.

JM - TO	LITHOLOGY.	MINERALISATION	STRUCTURE
0 - 35.80	TRICORNER		CIA'S.
35.80 - 38.20	Weathered pale grey-green to buff coloured and in part friable tsa, ss (buff)-banded laminae. White qtz vein stockwork. - minor oxidation along veins	30% qtz vein + veinlet stockwork no visible sulphides	V. 30° (36.0m)
38.20 - 48.70	Massive + banded/laminated greenish grey tsa/ss. - variable bedding attitudes	HORN FELSIC?	B 45° (42.60) B 30° (43.00) B 0° (45.00)
48.70 - 66.00	Mixed grey to dark grey, consolidated bedded + pellet textured shale/siltstone. Minor grey green f. gr. banded tsa/ss. and pale grey banded calc PELITE in bedded with dark grey shale.	15-20% disrupted calcite veining + fracture infilling	B 40° (51.90)
66.00 - 73.70	(GABBRO? DYKES at 55.60 & 61.50) Pale grey, medium to fine gr. massive tsa and banded tsa with ss.	Essentially Barren	B 40-50° (55.60) GD 25-30° (61.50) B 15° (72.90) B 0° (73.90)
73.70 - 88.0	As per interval 48.70-66.0 but less banding evident		B 40° (80.0) GD 30° (83.0)
88.0 - 118.30	Essentially grey f. to m gr. but predominantly massive tsa with intercalated bands of tsa/ss/sh. 70% tsa 30% ss/sh.		B 30° (102.5) B 0° (103.0) B 20° (104.0) B 0° (106.0)

EASTMAN CAMERA SURVEYS.

DEPTH.	AZIMUTH	INCL.
0 m	257.5	45.
40 m	259.25	46
70 m	260.0	45.95
100 m	260.0	46.5
130 m	261.0	46.0
160 m	266.95	46.0
190 m	254.0	46.25
220	254.5	47.0
266	251.5	44.25

Separate S/B 258°  
ditto. S/B 256°  
Soft. Shale.

GENERAL COMMENTS.

GD = Gabbro dyke  
B = Bedding  
V = Vein

DATE:

SKILL PROGRESS REPORT

641037 156

REPORT NO.

COMSTAFF J/V.

DRILL HOLE DETAILS		DRILLING DETAILS.
AREA/GRID.	PIEMAN RWERTIN ZONE (EAR)	ACTUAL COLLAR POSITION. ASSESS LEVEL. (I. HARDNESS)  372 809.4? E (To be checked) 5373 254.9 N (Magnetic interference)  118.83 RL.
HOLE NUMBER.	RBE 40 ✓	
COLLAR CO-ORDS	392 810.5 E 5373 257.7 N ✓	
AZIMUTH.	257.5	
INCLINATION	45°	
R.L.	119.1 ✓	
DEPTH OF HOLE	268.50.	
COST.		
TARGET TIN VEIN 170.0 approx. ZONES.		

GEOLOGICAL SUMMARY.

FROM - TO	LITHOLOGY.	MINERALISATION	STRUCTURE
128.30 - 131.20	Attained sediments but with prominent banding - calc. pelite?		CIA's.
131.20 - 143.50	Apple green Serpentine		"
143.50 - 190.30	Serpentinites. 5% magnetite? and limonite brown	10% carb/Qtz variation from 150 - 169.0	
190.30 - 196.0	Bleached & etchified Serpentine	→ Qtz veinlets.	
196.0 - 201.50	Pale grey green. insiprantly bleached. & etchified Talc Carbonate	1-2% fracture, veinlet	Fol. 45-50° (200.0)
201.50 - 202.50	Talcosse mixed (predom. tsa) sands with narrow zone of greenish black Serpentine	- dissem. py/py	Sulphide 45-50° (202.0) Veinlets Fol. 45-50° B 45°
202.50 - 207.0	Predominantly mass & in part banded greenish grey tsa. - minor zones of black shale.	mica/chlorite alteration weak hornfelsing?	B 45-50° (204.50)
207.0 - 216.20	Finely banded/laminated f. gr tsa/ls Possibly all calc. pelite	Ep. d. slt / Chlorite alt selective to particular bands	B 50-80° (210.0)
216.20 - 223.80	finned insiprantly bleached. ss/tsa/sl. Some banding but floggy rather than laminated	Barron. no calcite veins	B 40-45° (220)
223.80 - 224.40	White sheeted quartz veining		V 25°
224.40 - 241.80	Pale grey tsa/ss streaked with seams & bands of black shale upto 10 cms thick.		B 40-45° (226.50)
241.80 - 243.90	Massive Qtz Aspy, Cp, Sp, Ga, Carbonate vein	40-50% Sulphide 30° Aspy	VU 30° VL 40-45°
243.90 - 244.30	Mix of black shale, siltstone + grey buff sandstone		B (to) 65° (246.0)
244.30 - 268.50	Massive competent graphitic pyritic shale + siltstone	Cone broken from 269.0m	B 40° (246.0) B 35-40° (259.0) B 40° (268.0)

EQH.

EASTMAN CAMERA SURVEYS.

DEPTH.	AZIMUTH	INCL.

See previous page.

GENERAL COMMENTS.

Fol = Joliation  
 B = Bedding  
 V = vein  
 VU = Upper vein contact  
 VL = Lower vein contact  
 (210.0) = metre measurement at which CIA taken

DATE:

DRILL PROGRESS REPORT

REPORT NO.

COMSTAFF J/N.

DRILL HOLE DETAILS		DRILLING DETAILS.
AREA / GRID.	PIEMAN RIVER T/N ZONE (GAR)	Triconed to 27.5m.  Actual collar position B.Y. LEVEL (HARVESTY).  372724.46 E 5373020.96 N RL. = 177.8
HOLE NUMBER.	RBEA1.	
COLLAR CO-ORDS	372725 E 5373020 N.	
AZIMUTH.	77.5° W → E	
INCLINATION	45°	
R.L.	177.8	
DEPTH OF HOLE	317.50	
COST.		
TARGET Talc Carbonate 245.0m. ZONES. Salmons 32.0 Copper. 60.0m. Tlc 89.0m or 40.0m.		

GEOLOGICAL SUMMARY.

COM - TO	LITHOLOGY.	MINERALISATION	STRUCTURE.
0 - 27.50	TRICONED.		CIA'S.
27.50 - 55.50	V fractured, broken up core. Massive & horizontal joint greenish grey Tsa and minor ss. Minor qtz veining & oxidation along veins.		B = 57° (32.0) B = 48° (15.20) B = 57° (42.20) B = 52° (45.05)
55.50 - 58.30	V broken core, weathered. Silicified Tsa, ss.		UVC - 27°
58.30 - 60.60	Massive white and in part broken & oxidised quartzite	No visible mineral <sup>n</sup>	
60.60 - 62.80	V oxidised intensive qtz veined stockwork & Tsa, ss	Minor py mineral <sup>n</sup>	
62.80 - 85.20	Mixed dk grey shale; grey Tsa, ss. 3-5% qtz stockwork.	Minor py mineral <sup>n</sup> 1-2%	B = 55° (48.85) B = 53° (82.30)
85.20 - 86.90	Massive qtz, ccp, py, aspy, galena, carbonate. Mineral <sup>n</sup> (various blw 30-60%) occurs with qtz and lenses Tsa + bl shale at margins of massive competent siderite (85.55-86.55) & only patches of ccp, py, aspy min <sup>n</sup> 10%	Probable Copper Vein. 1.2% Cu. 1.95% Zn.	UVC - 40 (85.20) LVC - 45° (86.90)
90 - 94.0	predly massive grey Tsa & ss & hl shale horizons. & brecciated zone 93.15-93.35		B = 49° (87.90)
94.0 - 95.20	Qtz and Siderite Veining	10-15% aspy 94.42-95.20 Py min <sup>n</sup> at margins.	UVC 53° (94.10) LVC 49° (95.20) 398°
95.20 - 100.30	Dark grey (pellet textured) mixed sh ss & Tsa fragments. Approx 5% qtz Carb (siderite) Ving. Pellet texture.	Minor py min <sup>n</sup>	97.80 B CIA - 41°
100.30 - 103.70	Alternating horizons of dk grey fine grained ss/sh with massive greenish grey medium grained Tsa. Approx 10% qtz carb veining	Mineral <sup>n</sup> minor sporadic - none	
103.70 - 110.45	Massive dk grey pyritic black shale. & ss + Tsa (regret <sup>s</sup> ) (110.30 - 111.50 (Py/Carb Aspy Vein)).	than 10cm intervals, & min <sup>n</sup> usually as py veinlets. TIN VEIN 2.08% Sn. 5.45% As. V. 50°	B CIA 57° (101.80)

EASTMAN CAMERA SURVEYS.

DEPTH.	AZIMUTH	INCL.	
0	77.5°	45°	
40	79.0	45.75	10m (45.5°)
70	80°	46.75	55m (46.5°)
109	78.5	47°	90m (47°)
140	77	47.25	79°
170	80.5	47.25	80°
200	79	47.25	Repeat wrong camera 79.5
230	80°	47.5	
260	80°	47.95	
290	-	-	did not request.
315	80°	48.5	

GENERAL COMMENTS.

V broken core to ~85m.  
 Cementing hole unsuccessful  
 water pump, but order 2/8/82.  
  
 Tues - no drilling due to repairs  
 bar on Monday. BEA.8

COMSTAFF J.N.

DRILL HOLE DETAILS		DRILLING DETAILS	
AREA/GRID.	MEHAN RIVER TIN ZONE (64A)		
HOLE NUMBER.	R6E 41		
COLLAR CO-ORDS			
AZIMUTH.			
INCLINATION			
R.L.			
DEPTH OF HOLE			
COST.			
TARGET ZONES.			

GEOLOGICAL SUMMARY.

DM - TO	LITHOLOGY.	MINERALISATION	STRUCTURE
110.45 - 130.0	Predominantly mixed sh,ss with Tsa with sequences of massive green grey medium grained Tsa. Sporadic units of stockwork qtz carbonate veining up to 50cm. often with associated py mineral.		CIA's B CIA 57° (112.80) B CIA 47° (118.30) B CIA 42° (120.50) B CIA 54° (126.50) B CIA 49° (130.50)
130.0 - 131.10	Qtz Carb veins & vein stockwork in mixed sh,ss.	5-10% py (130.50 - 130.75)	
131.10 - 139.10	Cobblic dyke - distinctive mottled texture, grey to grey green. Massive, granular. Minor shale & ss + Tsa units.	No visible Mineral	Contact CIA 139.10 - 51°
139.10 - 147.50	Massive black shale & banded sh,ss & interbedded units up to 60cm of massive pph grey fine to medium grained Tsa. [60% blsh / ss 40% Tsa] approx 5% Qtz Carb Veining.	Minor py mineral	B CIA 44° (141.90) B CIA 53° (145.10) B CIA 37° (150.0)
147.50 - 160.35	Predominantly massive grey to green grey fine to medium grained Tsa & siltstone & shale horizons. 2-3% disrupted qtz carb veining.		
160.35 - 173.30	Mixed Tsa, siltstone & shale. from 161.0 predly Tsa x 60%	(173.65 - 173.90) 40-45% py, CCP, asp & p.	44° - 32° (173.90) (173.65) CIA - 32°
173.30 - 173.90	25cm band siltstone vein, then banded qtz, carb, black shale & mineral.	(173.87 - 173.90) 3cm 70-80% mineral - 50% galena, 30% py, CCP, asp & qtz carb	32° - 29° (173.90)
173.90 - 177.50	Finely banded siltstone, fine Tsa & shale filaments. Green grey to brown grey. & Banded Calc Alite horizons.		(174.15) CIA - 47°

EASTMAN CAMERA SURVEYS.

GENERAL COMMENTS.

DEPTH.	AZIMUTH	INCL.

Reported Friday 6th to 110.45 - 150.00



DATE:

DRILLING LOG

160

Page 1/1

COMSTAFF J/V.

DRILL HOLE DETAILS		DRILLING DETAILS.
AREA/GRID.	GAR NORTH (PEMAN R. TIN ZONE)	HW casing to 45.0m NQ casing 45.0 - 257.0 EOH
HOLE NUMBER.	RBE 42.	
COLLAR CO-ORDS	372724.8E 5373319.8E *	
AZIMUTH.	258° M. 270° T	
INCLINATION	-45°	
R.L.	117.6. *	
DEPTH OF HOLE	257.0m.	
COST.		
TARGET TIN VEIN approx 170m ZONES.		

### GEOLOGICAL SUMMARY.

FROM - TO	LITHOLOGY.	MINERALISATION	STRUCTURE
0 - 45m	TRICONES		CIA's.
45.0 - 100.0	Dark green SERPENTINITE	5-10% asbestos fibre	
100.0 - 130.0	As above.	5% " "	
130.0 - 169.50	Apple green SERPENTINITE		
169.50 - 176.40	Apple green SERPENTINITE with alternating competent + very fragmented zones. (possible fault zone. 174.40 - 176.40.)	2-3% qtz veins (low).	V 40° (169.50) V 20° (176.50)
176.40 - 178.70	Apple green SERPENTINITE becoming bleached and incorporating limonite brown to brick brown etchified zones exhibiting leached. X-ray cavities after carbonate? plus pale green etchified serpentine of similar texture	1-3% CARBONATE	
178.70 - 179.90	Brick to limonite brown etchified vuggy SERPENTINITE		
179.90 - 188.30	Pale green etchified vuggy SERPENTINITE with loose brick brown zones.	± 2% pyrite	
188.30 - 189.70	Crazed granular white quartz vein zone with minor pyrite		
189.70 - 200.5	Pyritic graphitic black SHALE ± some pyritic qtz veins		
200.5 - 226.80	Black graphitic / pyritic SHALE with loose dark grey SILICONE. Very broken from 215.50	At 210.50m 20cm of qtz vein stockwork 3-5% Py / Aspy	V 40° (210.50)
226.80 - 229.0	15%-20% qtz vein stockwork in SHALE		
229.0 - 257.0	Black pyritic graphitic SHALE very broken in part		B. 45° (255)

### EASTMAN CAMERA SURVEYS.

DEPTH.	AZIMUTH	INCL.
0	258° M	45°
30	-	-
60	260°	44°
90	160°	44°
120	220°	44°
150	305°	44°
180	264°	44°
210	251.5°	45°
255	280.5°	46.5°

Magnetic Inteferance

### GENERAL COMMENTS.

\* Peacock Darcy Analysis Survey.  
Azimuth alignment by LEVEL

DRILL HOLE DETAILS		DRILLING DETAILS.
AREA/GRID.	GAP (BAR Smith Extension)	HW. Cas. to 10.60 (left in hole for poss. to do hole geophysics over calc. pelite/sandstone zone 334.60 - 344.90m. → Provisional field. co-ords.
HOLE NUMBER.	RBE 43	
COLLAR CO-ORDS	392 290 E 5370 900 N	
AZIMUTH.	258° M 270° T	
INCLINATION	45°	
R.L.	168.5	
DEPTH OF HOLE	418.0m.	
COST.		
<b>TARGET ZONES.</b> Tin potential below Stackrock hill and basement mineralisation assoc. with calc. carb. zone + faults.		

**GEOLOGICAL SUMMARY.**

FROM - TO	LITHOLOGY.	MINERALISATION	STRUCTURE
0 - 10.60	TRICONOT		CIA's.
10.60 - 65.20	Massive green grey polymict CONGLOMERATE (RED LENS?) Basic clasts predominant 70% clast component of cobble size; 30% matrix Matrix haematitic and magnetitic in part. Rare grit and concretion bands.	Oxidised to 29.40 Partially oxidised to 45.50 Irregular areas of haematite, magnetite specular haematite.	B. 45° (26.20) B. 55° (30.60) B. 50° (50.80) B. 45-60° (65.20)
65.20 - 68.55	Pale grey to cream banded. <u>dolomite?</u> and fine gr. sandstone - grey towards base.		B. 57° (66.30)
68.55 - 76.80	Green grey clasts poor CONGLOMERATE with intercalated 10-15cm bands of calcareous sandstone - grading CONFORMABLE into →.		SHALE 17° (91.90)
76.80 - 142.80	Banded laminated to <sup>dark grey</sup> (laggy) calc. PELITE (60%) grey fine gr. calc SANDSTONE (30%) and dark grey to black shale (1-5%). Occasional 20-30cm Qtz and/or Qtz carb veins (106.60; 117.0; 142.5m) - low sulphide.	± 1% disseminated - Py/PO. Micro faulting of beds. Veins + trace Aspy/Py.	CONTACT 53° (96.30) B. 62° (92.50) B. 60° (114.0) V. 45° (117.0) V. 50° (142.50)
142.80 - 144.50	Mixed grey green TUFFACEOUS SANDSTONE and black shale containing 'pellets' of fusa - transition zone from chemical/ clastic to clastic depositional environment		B. 50° (143.20)
144.50 - 144.60	10cm Quartz Aspy Po Cp vein + trace Ba Sp.	30-40% SULPHIDE	V. 40° (144.50)
144.60 - 168.60	TUFFACEOUS SA. - med fine to f. gr. grey green weakly conglomeratic in part; rare shale partings	10% white qtz/carb. veinification.	

EASTMAN CAMERA SURVEYS.			GENERAL COMMENTS.
DEPTH.	AZIMUTH	INCL.	(Micro)phytic = ultra basic facies (petrological terminology)
0	258°	45°	
35m	255°	43.5°	
70m	255°	42.5°	
100m	255.5°	41.0°	
130m	255.5°	41.0°	
160m	256°	41.0°	
190m	256.75°	40.75°	
220m	260°	41.0°	
250m	257°	40.5°	
290m	260°	40°	
310m	262.5°	39.5°	
340m	262.5°	38°	
370m	260.5°	36°	

dissem Po

84





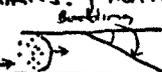






DRILL HOLE DETAILS		DRILLING DETAILS.
AREA/GRID.	GAR S14 Extension.	Core loss in mineralised zone. 65.6 - 67.00 0.6m core loss. 70.5 - 71.50 0.4m core loss.  N <sub>9</sub> to 252.0m.
HOLE NUMBER.	RBE 44.	
COLLAR CO-ORDS	392534.8E 5371462.5N	
AZIMUTH.	258° Mag.	
INCLINATION	45°	
R.L.	164.8	
DEPTH OF HOLE	515.40m.	
COST.		
TARGET ZONES. Fault structure and assoc. base metal + the mineralisation plus replaced? calc. lenses to west.		

GEOLOGICAL SUMMARY.

FROM - TO	LITHOLOGY.	MINERALISATION	STRUCTURE
0 - 36m	Truncated through weathered ultramafics.		CIA's.
36 - 63.6m.	Whitish to green altered, weathered gabbro.		
63.6 - 70.5m.	Intensely quartz-carbonate veined (crushed pellets) Talc - Carbonate.	Sp 1-2% 67.4-68.4 Cp, E.L. loss 1%.	Gabbro contact conformal? disrupted.
70.5 - 83.7m.	Grey tuff sa, dk gy pelites, shales. Calcite (carbonate) veins - decrease downwards.	Some gabbro at 73.6	B @ 60°C (70.5m)
83.7 - 93.2.	Lt greenish gy tuff sa. Non magnetic. Generally massive, though some fine tape.	-	B @ 35°C (83.7m) B @ 50°C (88.8m)
93.2 - 99.9.	Gabbro/dolerite.		Lower Con. 30°C Upper Con 57°C
99.9 - 117.5	Dk gy, black pyritic carbonaceous shales. partly vuggy. Minor tuff sa (112-117)	Dissem py aggregates.	B @ 43°C 124.3m B @ 36°C 120.1m
117.5 - 124.5	Mainly tuff sa. Narrower interbedded siltstones.	-	fr across bedding.
124.5 - 126.8	qtz-siderite - CaCO <sub>3</sub> veining.  main veining fract related. shallow angle con.	Burden?	B @ 52°C B @ 47°C (138.3m) B @ 36°C (147.55)
126.8 - 137.7.	Sa with pelites. - Carbonate veins, lenses 127.8-133.8.		Upper contact 67°C
137.7 - 146.5	" " " Sandstones Lt greenish.		Upper contact 22°C (brecciated),
146.5 - 152.1	Cal pelites, with interbedded sa. (Calcite veinlets)		B @ 36°C 194.8m
152.1 - 155.46	gy intercalated pelites, sa (psammites.) Non Mag.		
155.46 - 167.30	gy gr altered gabbro/dolerite: 	dissem py, Cp at 170m.	
167.3 - 177.2.	Hornfelsed pelites, interbedded tuff sa. Non mag.		
177.2 - 190.15	Gabbro/dolerite. - purplish altered spots.	pyrit.c.	
190.15 - 194.8.	Dk gy, gy intercalated pelites, sa. disturbed.	from 201.45-204.	
194.8 - 213.0	Lt gy tuff sa. Minor pelites. Carb veins common		

EASTMAN CAMERA SURVEYS.			
DEPTH.	AZIMUTH	INCL.	
60	250.5 ✓	46.5 ✓	
90	250.5 ✓	47.0 ✓	460 243.5 43°
120	250.0 ✓	47.5 ✓	
150	251.0 ✓	47.0 ✓	502 216° 41°
180	252.5 ✓	46.5 ✓	
210	254.0	46.5	502 270 41.5° Repeat
250	255.0	45.25	
260	254.0	45	
310	259.5	44.5	
340	260.0	44.0	
370	265.5	43.5	
400	268.5	42.5	
430	275	42.0	< excessive bend. 70° possible. - mag interference

GENERAL COMMENTS.

Magnetic interference at collar.

R. B. S. 8/4.







DRILL HOLE DETAILS		DRILLING DETAILS.
AREA / GRID.	WESTERN GAP / SAT	CAVE ZONE at 51.0 m. Cemented } provisional field co-ords.
HOLE NUMBER.	RBE 45	
COLLAR CO-ORDS	391.650E 5371,730N *	
AZIMUTH.	292° M.	
INCLINATION	-45°	
R.L.	160 m *	
DEPTH OF HOLE	334.0 m.	
COST.		
TARGET Formational magnetic ZONES. anomaly - stratigraphic		

GEOLOGICAL SUMMARY.

FROM - TO	LITHOLOGY.	MINERALISATION	STRUCTURE.
0 - 21.0	Tricomed.		CIA's.
21.0 - 45.30	Gray weathered soft ss and u. gr. tusa		
45.30 - 68.50	Predominantly dark grey with gray ss and black contorted sh. units	dissim + vein py.	B. 30° (68.2)
68.50 - 117.0	Gray ss and u. gr. tusa. From 98.4 same units alternate alt. + minor Py/lo in fractures + veins Broken core to 88.0 m.	98.2-98.4. qtz/Carb. vein with brecciated sed. ± 1% Py trace Sp	V. 49°
117.0 - 200.0	Purple + green. ss + f. to u. gr. tusa Usually well bedded - some soft. sed. def. Unit <u>MAGNETIC</u> . - contains haematite, magnetite + ilmenite grains.	Rare 2mm. qtz veins with Py Cp.	B. 60° (125.6) B. 45° (181.8)
200.0 - 217.0	Gray green ss and f. to u. gr. tusa.	Common qtz veins to py.	
217.0 - 276.5	Gray and dark gray banded <u>calcareous</u> tusa and ss.	2-5% dissim; fine + vein Po/Py.	
276.5 - 294.5	Green f. to u. gr. tusa with minor gray ss and tusa	Minor dissim + vein Po/Py.	B. 45° (295.0)
294.5 - 329.0	Gray and dark gray banded <u>calcareous</u> tusa and ss.	2-5% dissim; fine + vein Po/Py.	
329.0 - 334.0	Green. u. to c. gr. tusa with ss and partings of black carbonaceous shale		

EASTMAN CAMERA SURVEYS.			GENERAL COMMENTS.
DEPTH.	AZIMUTH	INCL.	} mag. interference? } mag. interference?
0	292	45	
37	289.5	46	
68	290.5	-	
88	287.0	44	
115.0	285.5	47	
145.0	289	46.5	
175.0	292.5	46	
211.0	287	45	
242.0	289.95	45	
274.0	282.5	42	
300	294.75	41.5	
330	286.0	41.0	

DATE: \_\_\_\_\_

DRILL PROGRESS REPORT

REPORT NO. \_\_\_\_\_

COMSTAFF J/V.

page 1/2

DRILL HOLE DETAILS		DRILLING DETAILS.
AREA/GRID.	WESTERN GAP DEEP DRILLING	HQ drilling to 200m approx Nq thereafter.
HOLE NUMBER.	RBE 81	
COLLAR CO-ORDS	3716973E 5371158.7N	
AZIMUTH.	203° M. 215° T.	
INCLINATION	±85°	
R.L.	179.7	
DEPTH OF HOLE	1098.60	
COST.		
TARGET ZONES.	Stratigraphic hole + possible down dip extension of Basalt-Federal fault & assoc. mineralisation	

GEOLOGICAL SUMMARY.

FROM - TO	LITHOLOGY.	MINERALISATION	STRUCTURE
0 - 36.0	Tricomed - glacial & weathered sands	common fracture fill and veins of chlorite/ qtz/ calcite.	CIA's.
36.0 - 210.0	Purple and green grey f. to u. gr. tusa (minor coarse units) with purple and grey ss Occasional calcareous units	Minor qtz/carb. veins + trace py/cp as above.	B. av. 45° (36-75m) B. av. 30° (75-185) B. av. 15° (185-210)
210.0 - 228.0	Homolised brown ss & tusa		B. av. 10° (210-228)
228.0 - 231.20	FAULT ZONE - clay plus qtz & siliceous frags.	dissem py.	
231.20 - 369.40	Intercalated and interbedded dark brown; grey; and green grey f. to u. gr. tusa with ss.	Common metasomatic veins - actinolite/ chlorite plus pervasive veins of the same	B. 17°-59° (240-250) B. 20° (250-350) B. 12° (350-420) B. 30° (420-475)
369.40 - 372.80	BASALTIC UNITS.		
372.80 - 430.0	Interbedded & intercalated brown and grey homolised f. to u. gr. tuffs and tusa with siltstone and cherty siltstones and CLAYETS 416.0 - 417.0 semi massive replacement Po 5-10% 422.75 - 423.25 massive replacement Po 95% 424.95 - 428.50 semi massive to massive replacement Po 60% plus vein style po/axinite/actinolite with 20% Po.	Common metasomatic alteration and veination. Minor to major dissem & bedded replacement po. especially in cherty units. Minor late stage vein py/po	B. av 12° (373-420) B. av 15° (420-430) B. av 30° (430-475)

EASTMAN CAMERA SURVEYS.			GENERAL COMMENTS.
DEPTH.	AZIMUTH	INCL.	Collar surveyed in by Kenrick Brown & Anderson 23.9.82 - results being processed.

J.D.C.





STATION	INT.	BEARING	INCL.	LEVEL	EASTING	NORTHING	REMARKS
0		203	85°				Collar Co-ordinates
4							
45m.		208	84.5				E 371679.3 } Peacock
60m		209.5	85				N. 537158.7 } Jersey
60m		209.95	85.5		85 ✓		
75m		211	85				RL. 149.17 } Anderson
90m		210	85				
105m		208	85		105 ✓		
115m		201	85.5				
132m		214	85.5				
159		225.5	86				
175		223	86.5		86 ✓		
192		226	86.25				
207		221.5	86.25		207 ✓		
222		222.5	86.5				
237		205	87				
252		198	86.75		86.75 ✓		
267		202	86.75				
282		202.5	86.75		222		
297		214.	87.0				
312		211	87.0				
327		205.5	87.0		87.0 ✓		
344		218	87.0		327		
359		221	86.95				
378		227	86.5				
394		229.5	86.5				
408		222.5	87		86.75 ✓		412.0m. 209° 86.2° + 206° 86.7° Fusion replacement sulphide Cemented zone
423		253	87				
441		231.	86.95				
457		223	87.0				
474		229	86.25		474 ✓		
492		237.	86.5				
511		225.	86.5				
531		215.	86		86.0 ✓		Sulphide?
547		241.	85.75				
565		239	85.5				
583		239.	85.25		582 ✓		
600		245	85				
616		237.	85.				
633		240	85.25				
649		241	85.5		55.25 ✓		
669		246	85.5				
685		-	-				No Survey.
707		240	85.2				
728		252	85.				
748		249.5	85.75				
769		257.5	85.2		769 ✓		
788		255	85.2				
799	21	254.	85.0	1.8 ✓			
822	24	212.	85.5	1.6 ✓			
838	20	214.5	85.5	1.7 ✓	85.25 ✓		
862	24	251.5	85.5	2.09 ✓			
883	21	253.	85	1.8 ✓			
899	16	252.	85	1.4 ✓	89.99 899 ✓		NO Barry wedge placed at 899.0
907	17	257	84.5	1.8 ✓			
916	20	256.	84.0	2.1 ✓	83.75 ✓		
926	26	260.5	83.25	2.7 ✓	936		
952	26	264 ✓	83°	2.7 ✓			
982	20	266 ✓	83.0	2.4 ✓	83.25		
1003	20	269.5	83.5	3.6			
1012		269 ✓	83.5		1012		
1036		270.5	83.5				
1056		276	83.5		25.5		
1077		281.5	83.5		6.5		
1078		277	83.25				

DATE: \_\_\_\_\_

DRILL PROGRESS REPORT

REPORT NO. \_\_\_\_\_

COMSTAFF J/V.

DRILL HOLE DETAILS		DRILLING DETAILS.
AREA / GRID.	EYE PTY MINE BAR SOUTH.	H. to 89.10 m. N 89.10 →
HOLE NUMBER.	RBE D2.	
COLLAR CO-ORDS	343 561.9E 5371 435.9N.	
AZIMUTH.	265°	
INCLINATION	-65°	
R.L.	153.8	
DEPTH OF HOLE	± 1280'	
COST.		
TARGET ZONES. Stratigraphic and massive replacement stanniferous sulphides + Skarn.		

## GEOLOGICAL SUMMARY.

FROM - TO	LITHOLOGY.	MINERALISATION	STRUCTURE.
0 - 15.0	TRICONES		CIA's.
15.0 - 225.0	Gray to dark grey banded. Siltstone and fine to medium grained sandstone - coarser units with brown phlogopitic mica. Common veins with actinolite + tremolite. HORN FELSITES.	Minor Fe and Pb in fractures + veins as well as disseminated in coarser sandstone bands.	S 80° (30m) S 60° (191.0) S 60°-80° (200.0)
225.0 - 244.30	GABBRO (stepped irregular contact) Minor zones of talc carbonate alteration and quartz veining	1-2% Pb Sp Ca. assoc. with talc carb. zones.	Irregular contact - some brecciation

## EASTMAN CAMERA SURVEYS.

DEPTH.	AZIMUTH	INCL.
0	265°	65°
36	265°	64.0
66.70	265°	63.75
89.0	264.95	62.5
108.5	265.5	61.25
132.0	266.5	61.0
145.0	267.25	60.75
170.0	267.75	60.75
192.0	270.0	60.5
220.0	269.0	60.25
244.0	269.5	60.25
276.	268.5	60.0

## GENERAL COMMENTS.

Oversized chrome barrel, used from 152.50 to control lift of hole. (5/11/82).  
Cone orientation at 289.0m.

APPENDIX 2

COMSTAFF PROPRIETARY LIMITEDCOMSTAFF - PREUSSAG JVEL 5/63, Section 6, East Renison  
Preliminary statement of indicated resources at  
GAR-Fentons Prospect

For the purposes of this statement the GAR-Fentons Prospect area is defined as the area between the Pieman River in the north and the Murchison Highway in the south (TAS-P-27), a strike length overall of 1350m. 32 holes have been drilled into the prospect area as defined. The drilling programme has led to the conclusion that there are two quite different 'shoots' of moderate - high grade mineralisation in a structurally controlled complex vein system which extends the entire length of the prospect area - and beyond. One shoot, called SALMON'S VEIN comprises predominantly Ag-Pb-Zn mineralisation; the second shoot, called PIEMAN TIN ZONE is a Sn-Cu zone.

SALMON'S VEIN

This is, perhaps, the dominant and most important vein of the system. The mineralisation is predominantly Ag, Pb (galena) and Zn (sphalerite) in a quartz-carbonate gangue. The vein can be traced from 5 372 200m N to beyond 5 373 050m N, i.e. more than 850m from holes RBE 19 to RBE 32. The highest grade mineralisation occurs over a 320m strike length (from N to S in holes 7, 5, 9, 10A, 30, 11, 34, 31, 12 and 14 - Dwg. No TAS-P-28). The in situ resource is calculated at:-

654,282 tonnes at  
247.36 gAg/t  
5.35 % Pb and  
3.32 % Zn.

The average estimated true width is 3.75m. Mean S.G. is 3.47.

2.

The data from which the calculation was made are listed in Table 1. The grades quoted in table 1 are fully weighted (i.e. length and SG). The data are derived from analyses of half core - cut with a diamond saw. Analyses for Ag, Pb, Zn and Cu were carried out by Analabs in their Cooe (Tas.) and Perth (W.A.) laboratories by method A6 - digestion with hot mixed acids, including hydrofluoric acid (i.e. total digestion) with determinations by atomic absorption spectrophotometry to the undermentioned limits of detection:-

Ag	0.5 ppm
Pb	5 ppm
Zn	5 ppm
Cu	5 ppm

SG determinations were by air pycnometer on all samples comprising an intersection. Cutoff value was set at an F1 value greater than 35 over a minimum estimated true width of 2m. The F1 value used to facilitate determination of cut off is defined as an in situ A\$ value\* for Ag + Pb + Zn based on

Ag at US\$13.00 per ounce

Pb at US\$0.36 per pound

Zn at US\$0.40 per pound - these are

AAAL forward projected price estimates.

\* 1980 dollars.

The outline of the Salmon's Vein shoot is shown on plan and longitudinal section (Dwg. Nos TAS-P-28 and TAS-P-29).

#### PIEMAN TIN ZONE

The Sn zone can be traced from 5 372 550N to beyond 5 373 260N i.e. more than 810m from hole RBE 12 to RBE 40. The highest grade mineralisation occurs over a strike length of about 240m (from S to N in holes 8, X1, 25, 32, 33 and 38 - Dwg. No. TAS-P-28). From the data in Table 2, and assuming a vertical (dip) extent of 300m and an SG of 3 the in situ resource is calculated to be of the order of:-

384,480 tonnes at

0.94% Sn

The average estimated true width is 1.75m.

3.

The data of Table 1 are derived from analyses carried out on half core samples by Analabs using the A14-XRF-method which has a detection limit of 3 ppm. SG determinations have not been carried out. For purposes of this preliminary calculation cutoff has been set at 0.3% Sn over a minimum estimated true width of 1m.

The outline of the high grade shoot in the Pieman Tin Zone is shown on plan and longitudinal section (Dwg. Nos TAS-P-28 and TAS-P-29).

#### DISCUSSION

Data on the Pieman Tin Zone is not as detailed as data on the Salmon's Vein and there is the possibility of the tonnage in the high grade Pieman Tin Zone being increased by moving the southern limit southwards. However, the best that might be hoped for is a doubling of the apparent tonnage. At present further drilling to test for additional tonnage appears unwarranted.

Attention is drawn to the fact that arsenopyrite occurs in both shoots - to a greater degree in the Pieman Tin Zone - and, thus, As could well be a deleterious component in concentrates produced from the GAR-Fentons mineralisation. No metallurgical work has been undertaken specifically on As contamination.

On the plus side, preliminary metallurgical tests on high grade samples (from holes 5 and 10A) from Salmon's Vein indicated that a high quality lead concentrate, containing about 95% of the silver, could be readily produced.

No metallurgical work has been done on the material from the Pieman Tin Zone but some ore microscopy studies have been commissioned in an attempt to identify the Sn bearing minerals.

4.

The indicated resource aggregates >1.0 million tonnes and could be mined via a single system of openings: however, two separate metallurgical circuits would be required. The tonnages indicated appear too small for a stand alone situation. Accordingly, it is proposed that current strategy be that:-

- (a) further drilling on the GAR-Fentons prospect area be postponed whilst
- (b) the current exploration and deep reconnaissance drilling programmes in the East Renison area south of the Murchison Highway are completed and followed up if warranted,
- (c) the proposed additional hole and requisite follow up work at Godkin are completed and
- (d) that part of EL 5/63, Section 6 north of the Pieman River is explored.



IGPW

TABLE 1

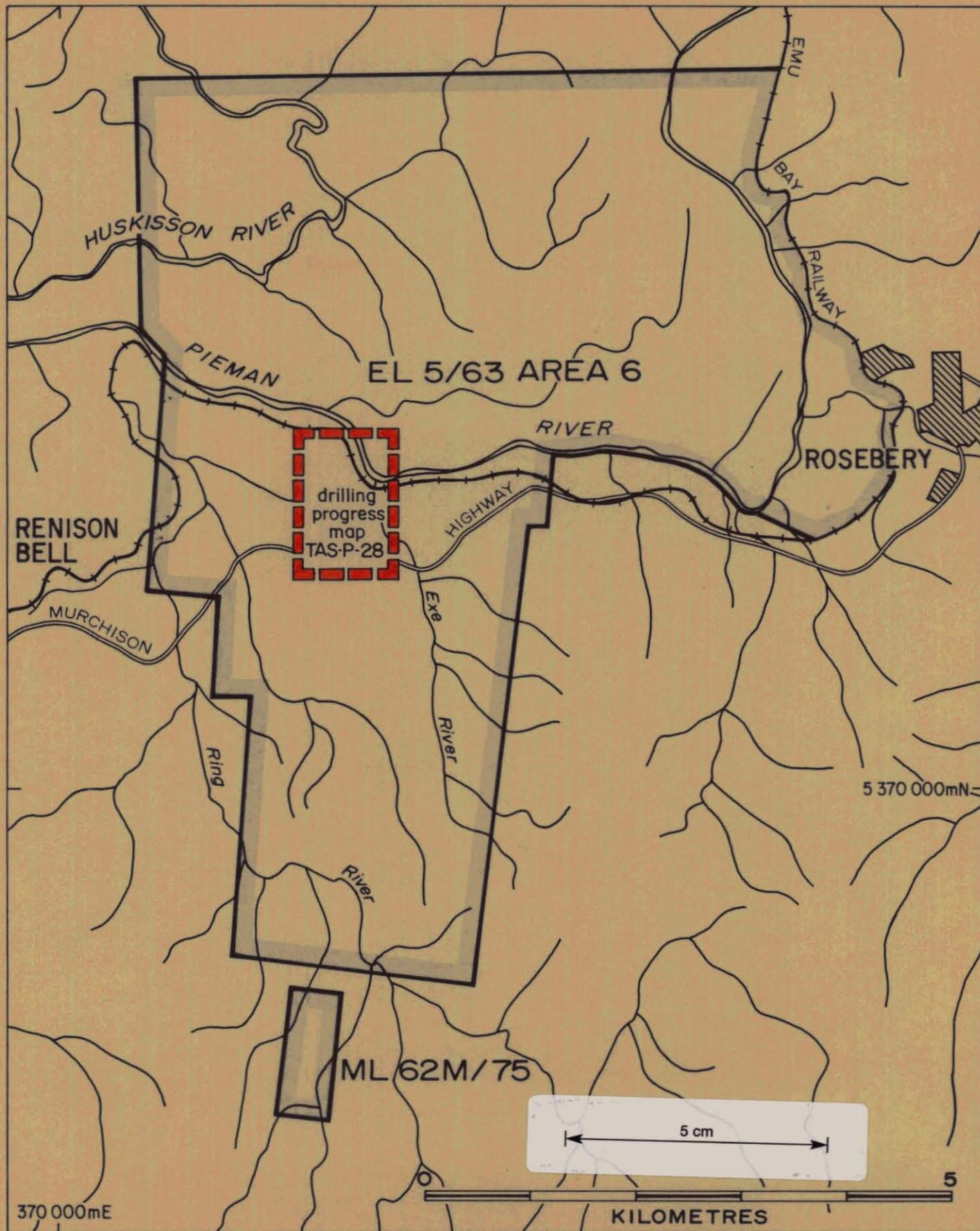
Details of data forming basis of mineralised  
resource calculation for Salmon's Vein

HOLE	CROSS-SECTION	EST TRUE WIDTH(m)	Ag(g/t)	Pb(%)	Zn(%)	Cu(%)	F1 (A\$)	S.G.	TONNES
RBE 14	2 540N	3.45	539.7	2.43	2.02	1.23	232.25	3.56	91,848
RBE 31	2 600N	2.75	44.4	2.60	1.45	0.04	45.79	3.30	39,600
RBE 12	2 600N	2.80	32.2	0.77	2.35	0.08	35.40	3.35	48,240
RBE 34	2 660N	3.07	125.5	2.78	3.58	0.11	93.46	3.47	58,140
RBE 11	2 660N	5.70	29.0	1.10	3.38	0.09	44.46	3.51	124,254
RBE 30	2 720N	2.97	109.7	1.04	3.35	0.36	73.66	3.52	46,464
RBE 10A	2 720N	5.10	441.5	12.35	5.78	0.14	294.31	3.69	117,342
RBE 7	2 780N	3.50	250.8	9.35	2.78	0.05	179.65	3.44	59,856
RBE 5	2 780N	4.90	525.9	15.38	3.24	0.06	327.19	3.56	42,720
RBE 9	2 780N	3.30	142.4	4.77	1.90	0.04	100.71	3.31	25,818

TABLE 2Details of data forming basis of mineralised  
resource calculation for Pieman Tin Zone

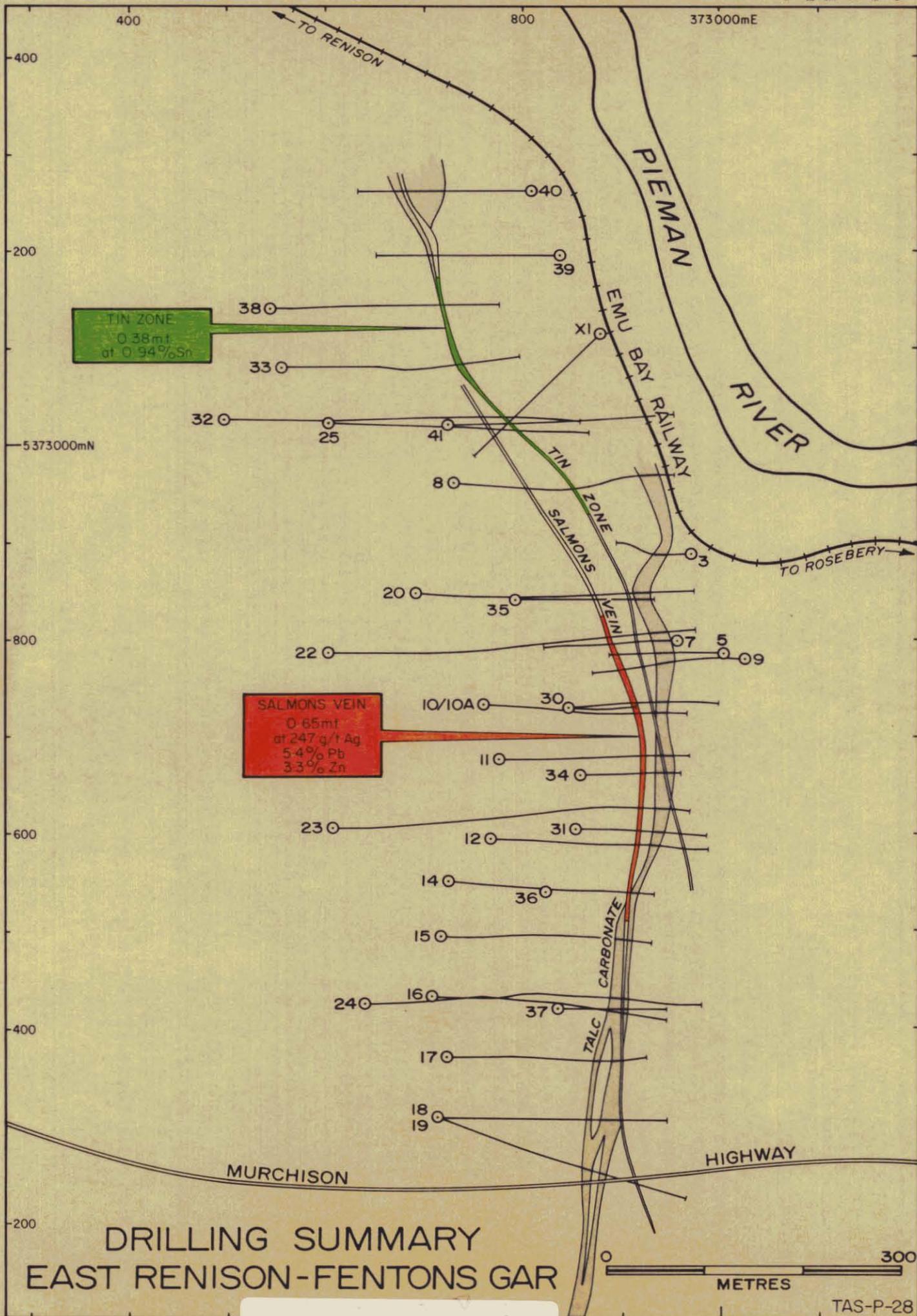
HOLE NO.	CROSS-SECTION	ESTIMATED TRUE WIDTH (m)	Sn (%)	Cu (%)
RBE 8	2 690 N	1.7	0.34	0.28
X1	3 020 N	2.0	0.84	*
RBE 25	3 020 N	1.9	1.14	0.08
RBE 32	3 020 N	1.0	0.46	0.03
RBE 33	3 080 N	3.1	1.56	0.08
RBE 38	3 140 N	1.0	0.36	2.43

\* No data

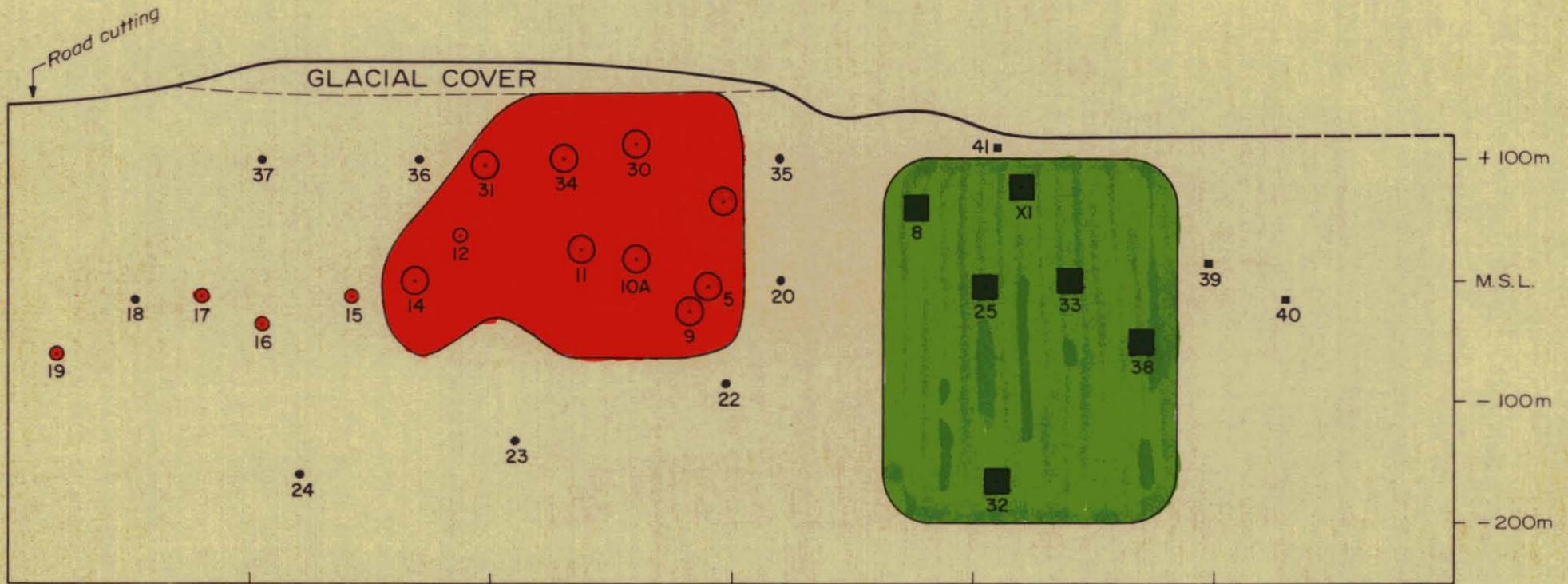


COMSTAFF PTY LTD

EL 5/63 AREA 6 & ML 62M/75  
EAST RENISON & GODKIN



200 400 600 800 5 373 000mN 200 400



SALMONS VEIN

- INTERCEPTS >2m TRUE WIDTH  
FACTOR 1 > 35
- INTERCEPTS >1.5m TRUE WIDTH  
FACTOR 1 > 20
- OTHER INTERCEPTS

TIN ZONE

- HIGH GRADE INTERCEPTS
- OTHER INTERCEPTS

COMSTAFF PTY LTD

LONGITUDINAL SECTION on 372 875mE  
EAST RENISON-FENTONS GAR

A P P E N D I X 111

HOLE NO	INTERVAL		DRILLED WIDTH	TRUE WIDTH	VEIN CIA	DATUM M.S.L.	MAJOR SULPHIDES	MINOR SULPHIDES	LITHOLOGY AND ASSOCIATION COMMENTS	Pb %	Ag ppm	Zn %	Cu %	Sn ppm	As %
	FROM	TO													
RBE 34	86.95	91.30	4.35	2.79	40	+115	5% Ga Sp	Cp Aspy Po Py	Qtz carbonate veins containing discrete crystals and aggregates of Ga & Sp. Considerable dilution by barren interzones of sediment. SALMONS VEIN.	2.65	122	3.47	0.11	769	1.03
RBE 34	136.00	137.50	1.50	1.06	45	+ 80	40-50% Aspy Py	Cp Ga Sp	Composite zone of massive Qtz, arsenopyrite pyrite (chalcopyrite) replacing talc carbonate. The whole zone stoped by barren late phase vein Qtz to varying degrees. Mix of TIN and FENTONS VEINS?	0.01	50	0.05	1.63	0.57%	15.3
RBE 35	93.9	94.1	0.20	0.17	60	+110	Massive Ga, Sp	-	SALMONS VEIN. Massive Ga, Sp vein with minor quartz. Cutting tuffaceous sandstone.	13.0	910	4.10	0.20	710	0.02
RBE 35	138.3	139.95	1.65	0.94	35	+ 77	Po, Cp	Py	COPPER VEIN. Contact of tuffaceous sandstone and calc pelite with massive Po, quartz vein with minor carbonate TIN VEIN.	0.02	32	0.15	0.76	0.16%	1.46
RBE 35	171.90	172.80	0.90	0.78	50	+ 52	Aspy	Po Cp	TIN VEIN. Quartz-Aspy vein cuts tuffaceous sandstone.	0.007	12	0.06	0.38	550	8.70
RBE 36	104.85	105.20	0.35	0.17	30	+107	Sp Ga	-	SALMONS VEIN. Mixed sediments with 10cm Sp-Ga vein.	2.60	33	2.97	0.02	220	9.12
RBE 36	154.45	158.70	4.25	3.00	45	+ 70	Aspy, Py, Cp	Py	FENTONS VEIN. Talc carbonate replacement by massive quartz-Aspy-Po	0.01	57	0.07	2.59	0.27%	7.36
RBE 36	192.10	192.80	0.70	0.44	40?	+ 43	Py	Cp	COPPER VEIN. Intermixed quartz and quartz-carbonate veining of mixed sediments.	0.22	78	0.64	1.99	1.7%	0.65
RBE 36	203.60	204.00	0.40	0.20	30	+ 38	Aspy, Cp, Py	-	TIN VEIN. Quartz-Py vein in tuffaceous sandstone in contact with shale.	0.008	7	0.02	0.45	1.2%	2.00
RBE 37	65.40?	66.00	0.60	?	35	+110	Aspy, Py	-	SALMONS VEIN? Partially oxidised quartz-Aspy vein stockwork in mixed sediments.	0.90	73	0.18	0.57	620	1.65
RBE 37	97.20	98.70	1.50	0.75	30	+ 56	Aspy, Py, Po	Cp	FENTONS VEIN. Massive quartz vein in talc carbonate.	0.01	36	0.03	0.05	0.18%	16.38

GAR - FENTONS AREA

Significant drill hole results at approx. 100 R.L. of Salmon's Lode (+ Copper, Tin & Fenton's Veins)

HOLE NO	INTERVAL		DRILLED WIDTH	TRUE WIDTH	VEIN CIA	DATUM M.S.L.	MAJOR SULPHIDES	MINOR SULPHIDES	LITHOLOGY AND ASSOCIATION COMMENTS	Pb %	Ag ppm	Zn %	Cu %	Sn ppm	As %
	FROM	TO													
RBE 33	181.50	184.5	3.00	1.82	37.5	+ 50	Tr Ga Sp Py	-	Weak qtz carbonate vein stock work (core ground only). SALMONS VEIN.	0.11	6	0.70	0.03	186	0.09
RBE 33	204.00	205.25	1.10	0.71	35	+ 30	25% Po Py Aspy	Sp	Massive qtz vein with minor carbonate. COPPER VEIN	0.76	114	0.41	0.54	473	0.31
RBE 33	254.40	259.75	5.35	2.67	30	0	40% Po Py	Sp Ga	Calc. pelites replaced partially or wholly by Po & Py. Central qtz vein system with high Aspy. Traces of Ga & Sp on flanks of vein. TIN VEIN.	0.12	5.6	0.17	0.08	1.56%	0.78
RBE 33	281.00	283.00	2.00			- 18	No apparent sulphides	-	Massive white vein qtz. Barren late stage vein system or associated with TIN VEIN.					No anomalous values	
RBE 38	167.30	169.55	2.25	1.12	30	+ 56	Sp	Ga	SALMONS VEIN. Brecciated and sheared quartz-carbonate vein zone (fault zone).	0.71	60	8.25	0.04	404	0.14
RBE 38	179.20	180.25	1.05	0.60	35	+ 42	Aspy, Py	Sp Cp	COPPER VEIN. Combined massive white quartz vein and quartz-carbonate vein.	0.02	1.47	0.03	0.03	0.80%	0.08
RBE 38	306.40	307.65	1.25	0.62	30	- 60	Cp,Py,Sp	-	TIN VEIN. Quartz veins in talc carbonate shale and altered sediments.	0.01	74	0.14	2.42	0.53%	0.13
RBE 39	157.80	158.30	0.50	0.40	55	+ 6	Py, Po	Cp, Aspy	TIN VEIN? Quartz veined talc carbonate	0.001	x	0.21	0.009	0.20%	0.16
RBE 39	222.70	235.40	-	-	25-50	- 40	Py,Aspy,Cp	Sp	Series of narrow (10-30cms) quartz-carbonate and quartz veins in black shale over an interval of 13 m. Probable combination of TIN and COPPER VEINS.					No significant results	
RBE 40	241.75	243.70	1.95	1.38	45	- 60	Aspy,Cp,Sp	Ga	Combination ? of TIN and COPPER VEIN. Mix of massive quartz and quartz carbonate vein in black graphitic shales.	0.27%	104	2.56	2.54	197	7.67

PIEMAN RIVER TIN ZONE AREA

Significant drill hole results of TIN VEIN († Salmon's Lode & copper vein)

641070

HOLE NO	INTERVAL		DRILLED WIDTH	TRUE WIDTH	VEIN CIA	DATUM MSL	MAJOR SULPHIDES	MINOR SULPHIDES	LITHOLOGY AND ASSOCIATION COMMENTS	Pb %	Ag ppm	Zn %	Cu %	Sn ppm	As %
	FROM	TO													
RBE 42	186.30	189.70	3.4	2.4	40°	- 15	Py	-	Combination? of tin and copper vein structure on western silicified contact of serpentinite and graphitic shale. Zone comprises pale green & brick red/brown vuggy silicified serpentinite and crazed fragmented white vein quartz with minor pyrite.	0.19	33	1.11	0.03	112	0.06*
RBE 41	57.5	59.1	1.6	.72	27°	+135	No visible sulphides.		Broken oxidised silicified and quartz veined tuffaceous sandstone and siltstone. SALMON'S LODE.	1.34	96	.35	.12	111	.82*
RBE 41	85.05	87	1.95	1.3	42°	+115	Aspy, Cp, Py	Sp, Ga	Massive quartz carbonate vein with aggregates of clots of Aspy, Cp in mixed tuffaceous sandstone & black shale. COPPER VEIN.	0.1	49.4	0.09	0.85	217	1.98
RBE 41	110.3	111.5	1.2	.91	50°	+100	Aspy, Cp	Py	Quartz carbonate arsenopyrite vein. TIN VEIN.	.08	21	.5	.33	2.08	5.45*
RBE 41	123.5	126.4	2.9	2.05	45°	+ 90	Py, Aspy	-	Quartz carbonate stockwork vein zone in mixed sediments. TIN VEIN (offshoot?)	.01	3	.06	.04	.43	.28*
RBE 25	268.8	272.05	3.25	1.37	25°	- 5	Po	Py, Cp	Massive vein quartz abutting gabbro dyke (drilled 1981). TIN VEIN.	.01	-	.03	.08	1.14	3.5
RBE 32	488.9	489.7	.8	.4	30°	-100	No visible sulphides.		Quartz carbonate vein emplaced along sediment gabbro dyke contact as per RBE 25 (drilled 1981). TIN VEIN.	.03	-	.10	.03	.99	.09

## PIEMAN RIVER TIN ZONE AREA

Significant drill hole results of TIN VEIN (+ Salmon's Lode & copper vein)

\* NB Ground Core results.

HOLE NO	INTERVAL		DRILLED WIDTH	TRUE WIDTH	CIA	VEIN DIP	MAJOR SULPHIDES	MINOR SULPHIDES	LITHOLOGY AND ASSOCIATION COMMENTS	Pb %	Ag ppm	Zn %	Cu %	Sn ppm	As %
	FROM	TO													
RBE D1	227.30	228.0	0.7	0.22m	19°	-	Py	Ga, Sp	Part of a much longer (224.4-228.0) carbonate quartz vein with a faulted lower contact. Ubiquitous pyrite; - very weak base metal concentrations.	0.69	29	0.84	<0.05	18	<0.001
RBE D1	403.70	408.0	4.3	Broken Zone		-	Py, Po	Sp	Quartz carbonate vein & stock work zone in fine grained tuffaceous sandstone & siltstone.	<0.02	5	1.61	<0.001	55	<0.03
RBE D1	422.60	427.30	4.7	1.9m	25°	-	Po	Py	Semi-massive to massive replacement of calcareous siltstone and fine grained tuffaceous sandstone by pyrrhotite and a vein phase of quartz, axinite, epidote, tremolite, actinolite and pyrrhotite.	<0.001	-	<0.02	0.13	66	<0.001
RBE D1	854.20	864.54	10.34	6.64m	40°	-	Po	Cp	Diopside, vesuvianite, garnet skarn with clots, aggregates and specks of pyrrhotite and trace chalcopyrite.	<0.002	<0.5	<0.02	<0.02	360	<0.02
										N.B. GROUND CORE RESULTS					

WESTERN GAP DEEP (STRATIGRAPHIC) DRILLING

NOTEABLE DRILL HOLE RESULTS RBE D1

641072

641073

# OPEN

LIST OF PLANS

D of M	A.O.	C.G.	E.O.	D.S.M.E
Received - 1 DEC 1982				Registrar
Answered				E & IL
DEPT. OF MINES				
REF. No.				

<u>Plan</u>	<u>Description</u>	<u>Scale</u>
TAS/2/2093	Renison Grids Location of Drill Holes	1:10 000
IGPW/5	Drilling Summary East Renison-Fentons GAR	1: 5 000
JDC/SRY 1	Deep RBE 33	1: 5 000
JDC/2	Drill Profile RBE 45	1: 1 000
JDC/3 <i>no book</i>	Geological Section RBE D1	1: 5 000
JDC/SRY 4	Anticipated controlled Directional path of Deep Drill Hole RBE D2	1: 5 000
TAS/2/3100	Plan of Magnetic Anomalies	1: 5 000
TAS/2/3101	Plan of Magnetic Anomalies	1: 5 000

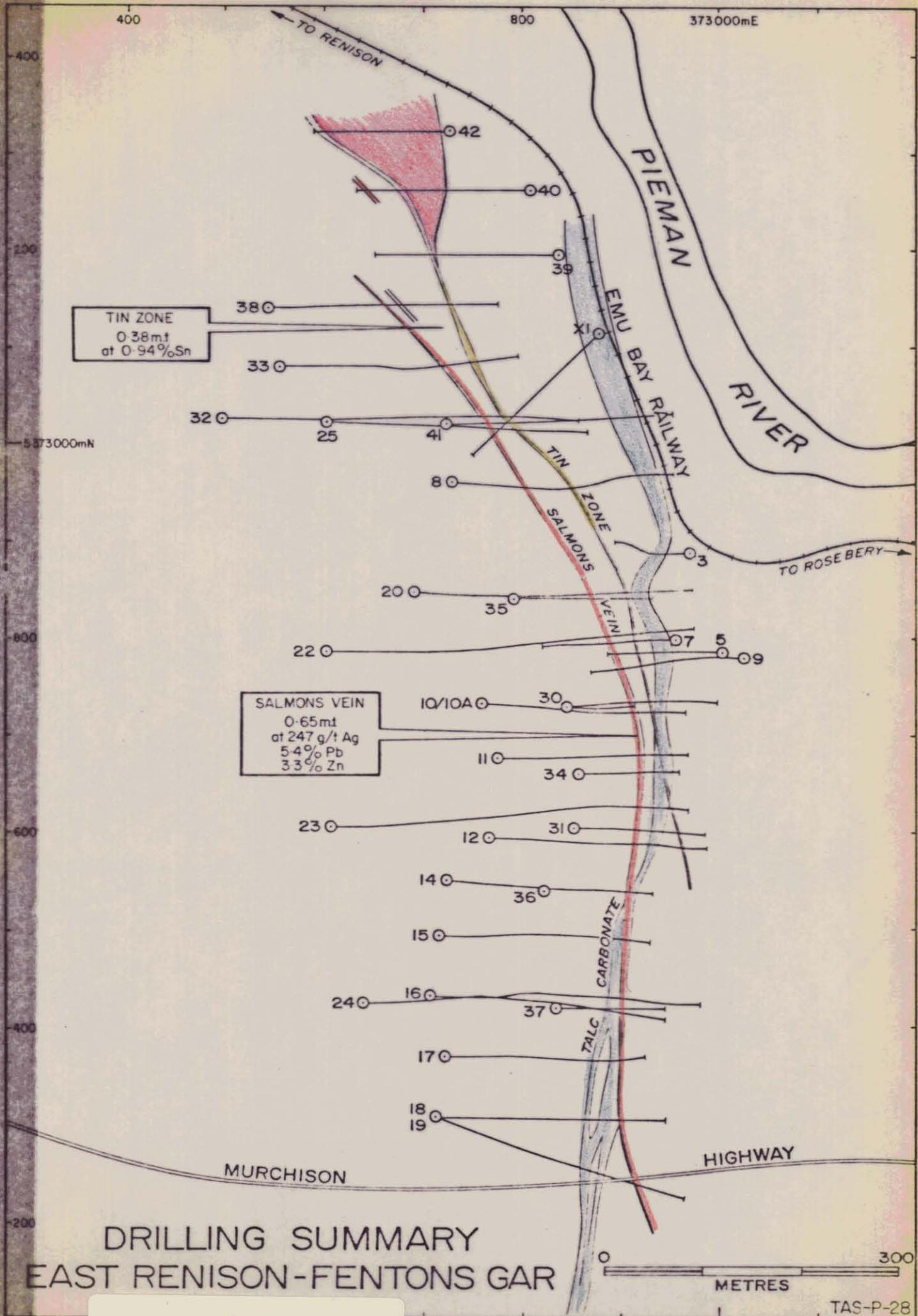
83-1905(2)



**COMSTAFF PROPRIETARY LIMITED**  
 SOUTHERN PORTION OF COMSTAFF LEASE EL 5/63 AREA 6  
 RENISON GRIDS  
 LOCATION OF DRILLHOLES

SCALE 1:10000  
 DATE 26/11/82  
 DRAWN BY [illegible]  
 CHECKED BY [illegible]  
 PROJECT NO. TAS/2/2093

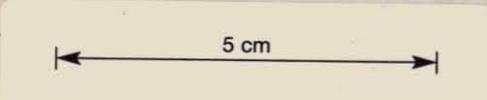
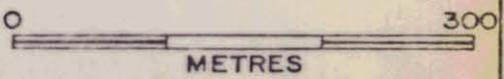
83-1965  
 5m  
 1/4/01



TIN ZONE  
0.38 mt  
at 0.94% Sn

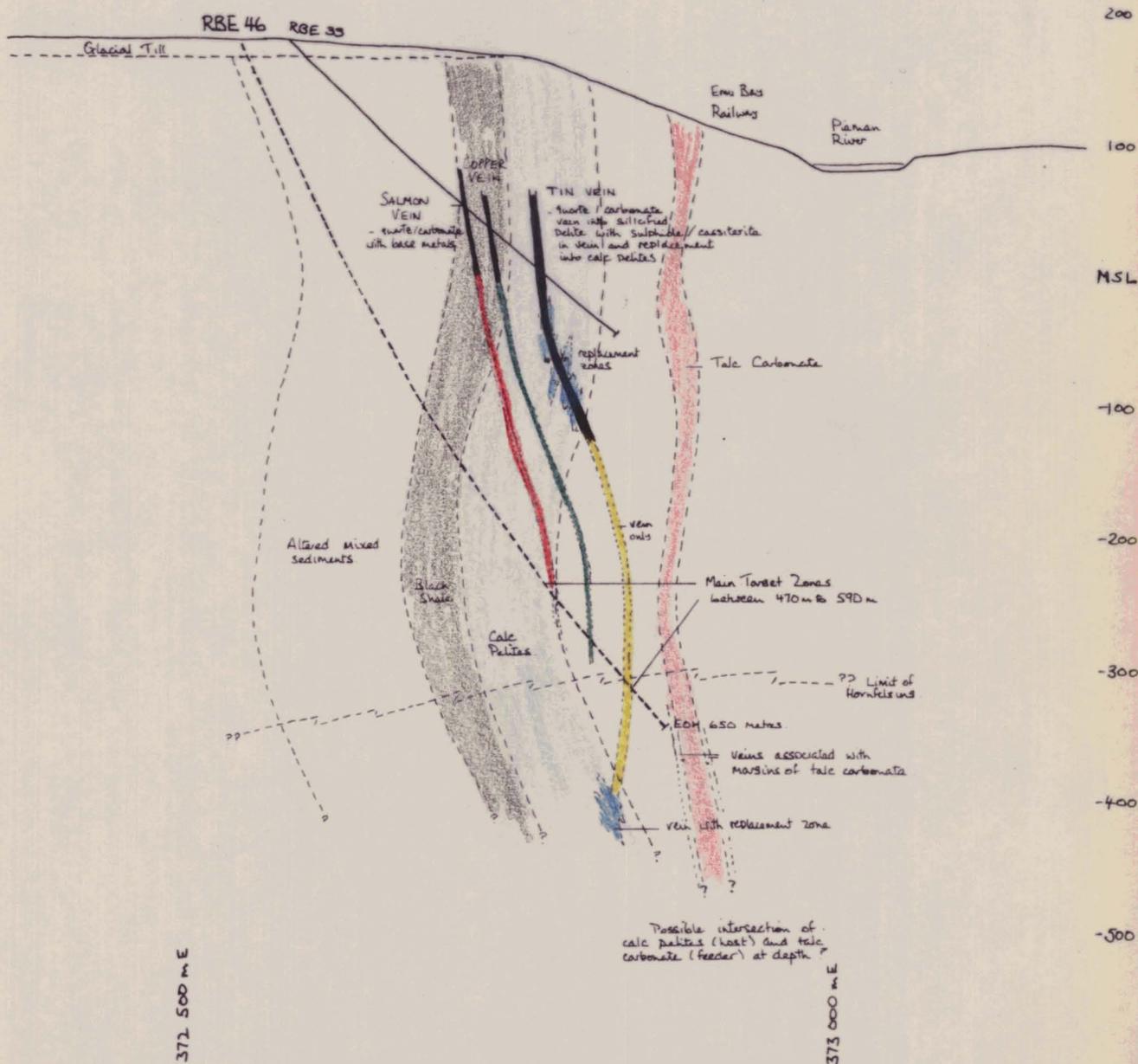
SALMONS VEIN  
0.65 mt  
at 247 g/t Ag  
5.4% Pb  
3.3% Zn

DRILLING SUMMARY  
EAST RENISON-FENTONS GAR



TAS-P-28

641075



641076

5 cm

COMSTAFF PROPRIETARY LIMITED

PROPOSED DRILL SECTION RBE 46  
(DEEP RBE 33) 5 373 000 m E

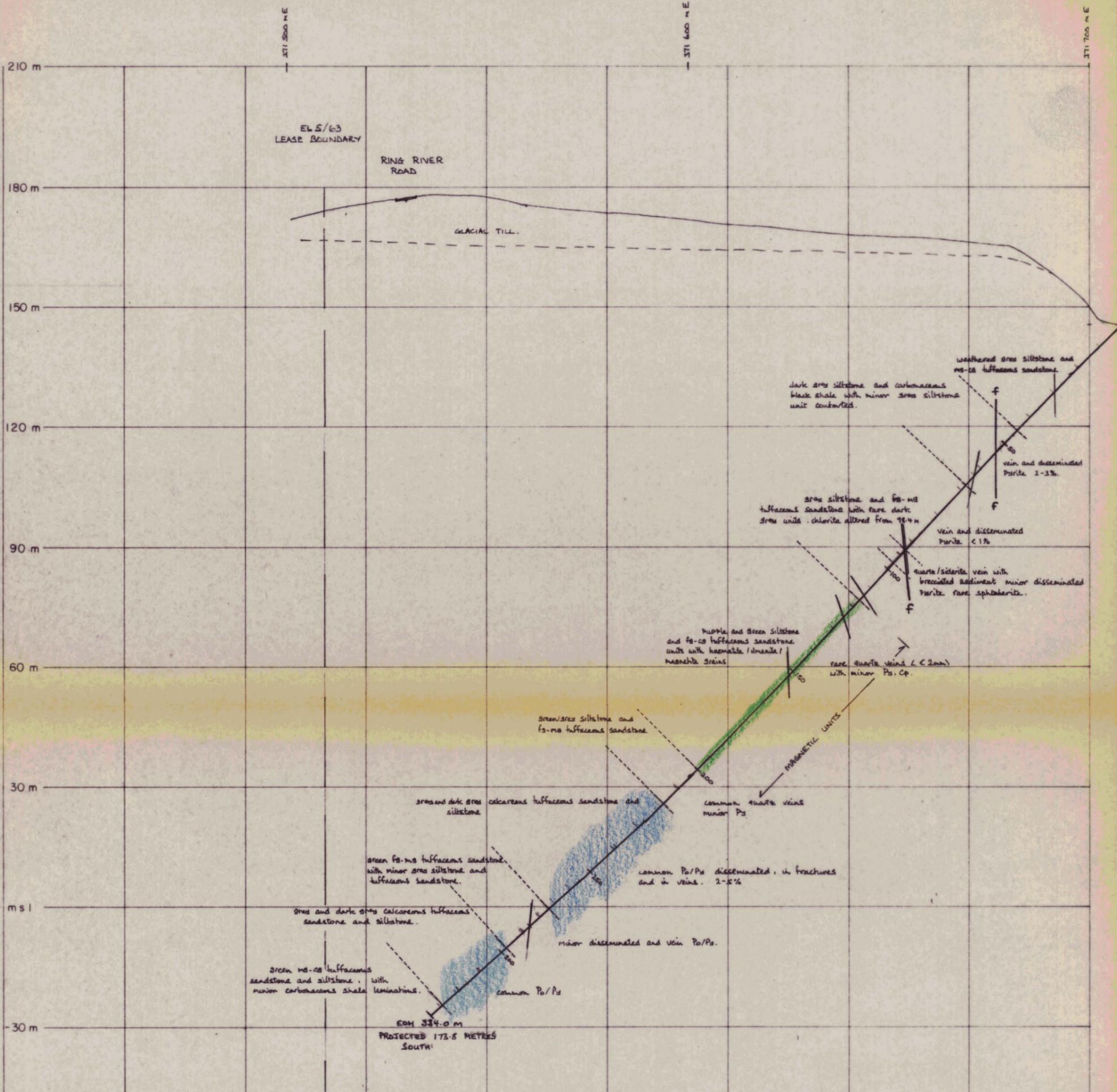
DRAWN JDC

COMPILED JDC/SRY

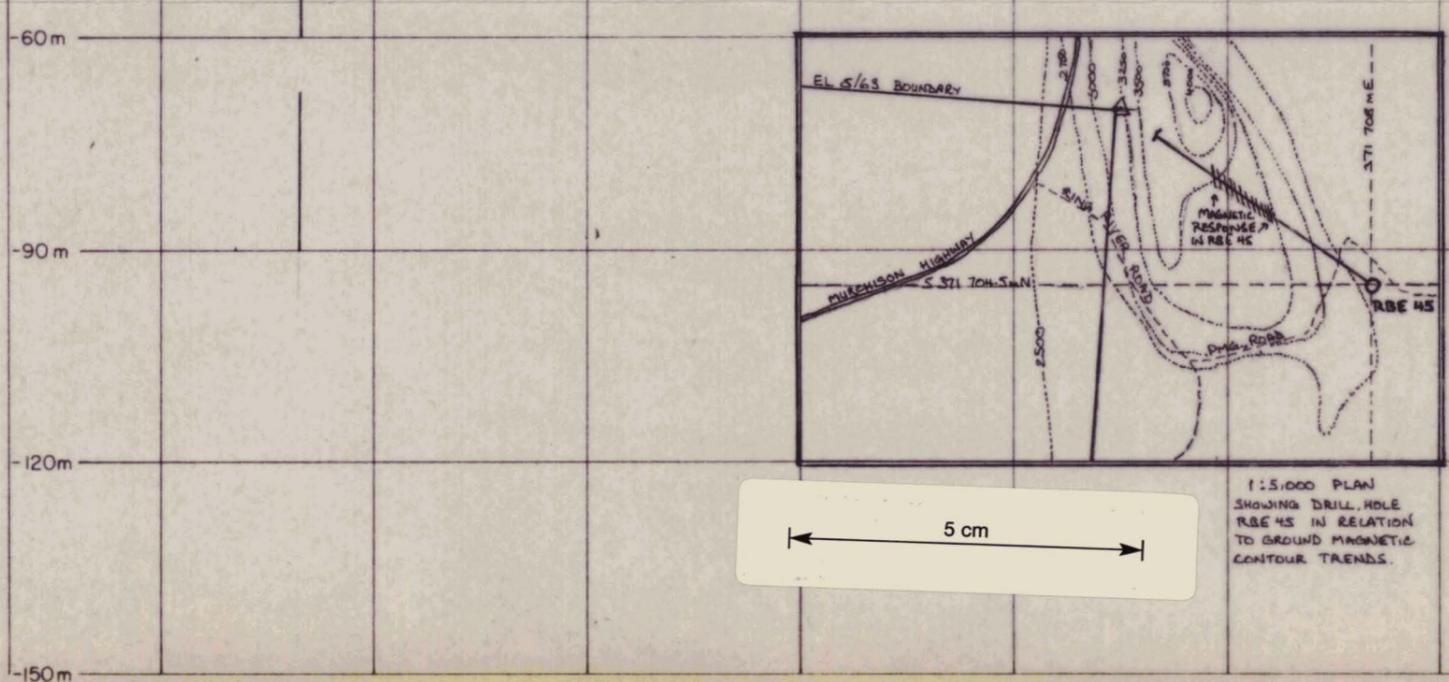
SCALE 1:5,000

JDC/SRY 1

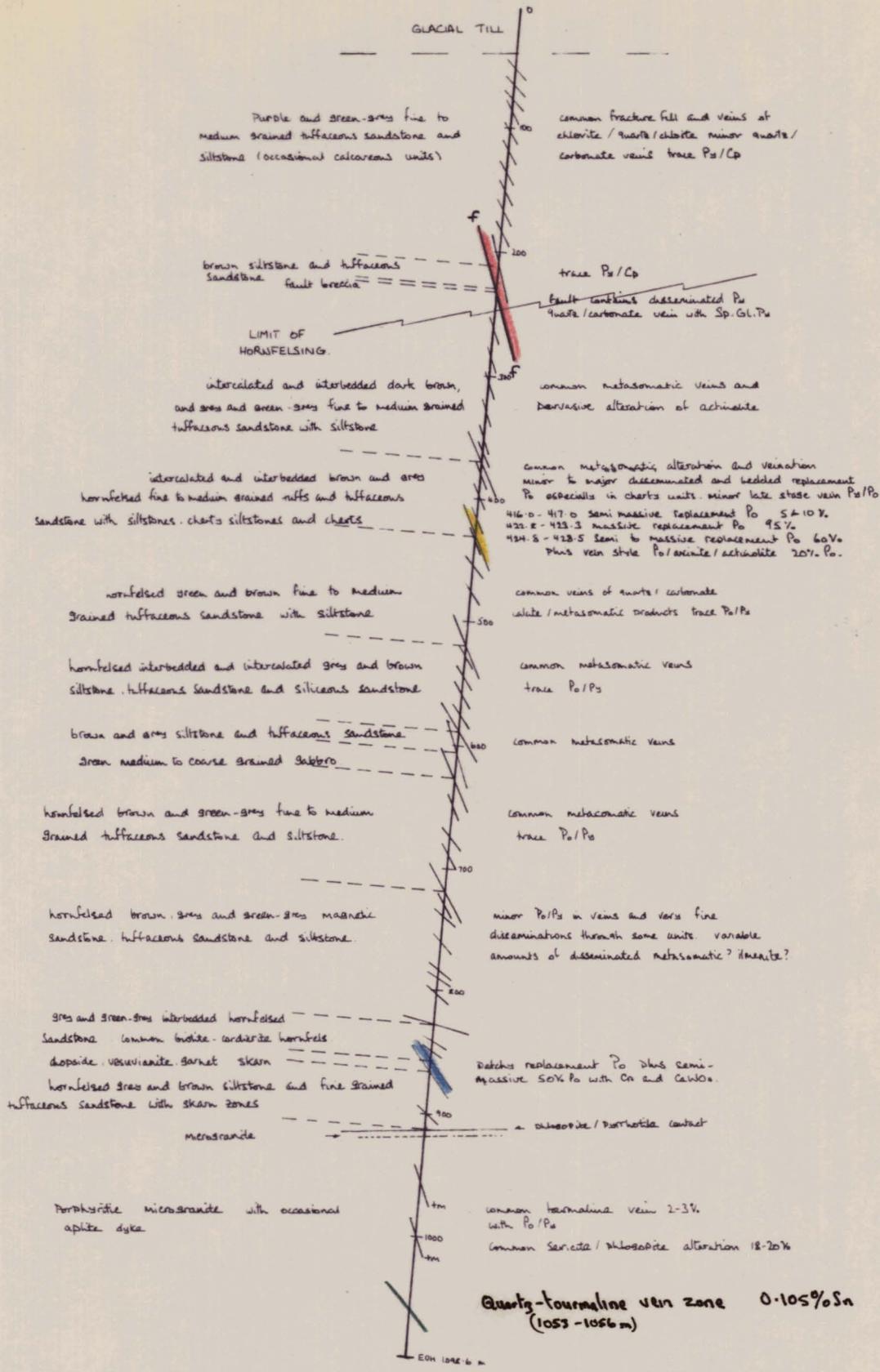
641077



COMSTAFF PROPRIETARY LIMITED  
 DRILL PROFILE RBE 45  
 L S 371 704.5 m N  
 BOTTOM OF HOLE PROJECTED SOUTH  
 SCALE 1 : 1000  
 NOV 83



1:5,000 PLAN SHOWING DRILL HOLE RBE 45 IN RELATION TO GROUND MAGNETIC CONTOUR TRENDS.



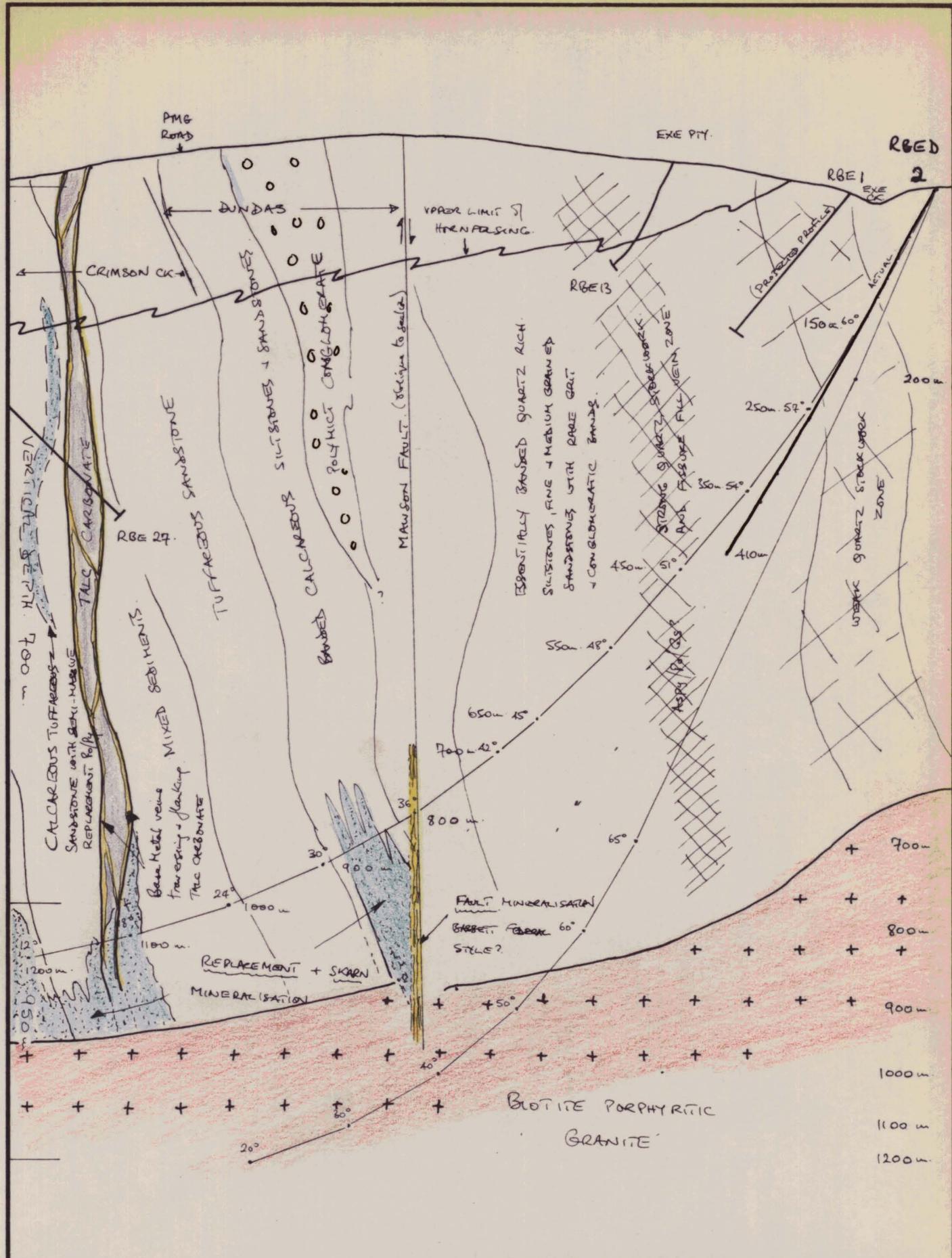
641078

**COMSTAFF PROPRIETARY LIMITED**

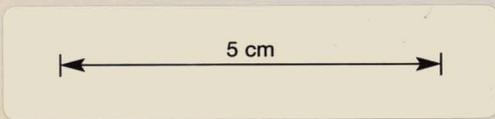
GEOLOGICAL SECTION RBED1

5 cm

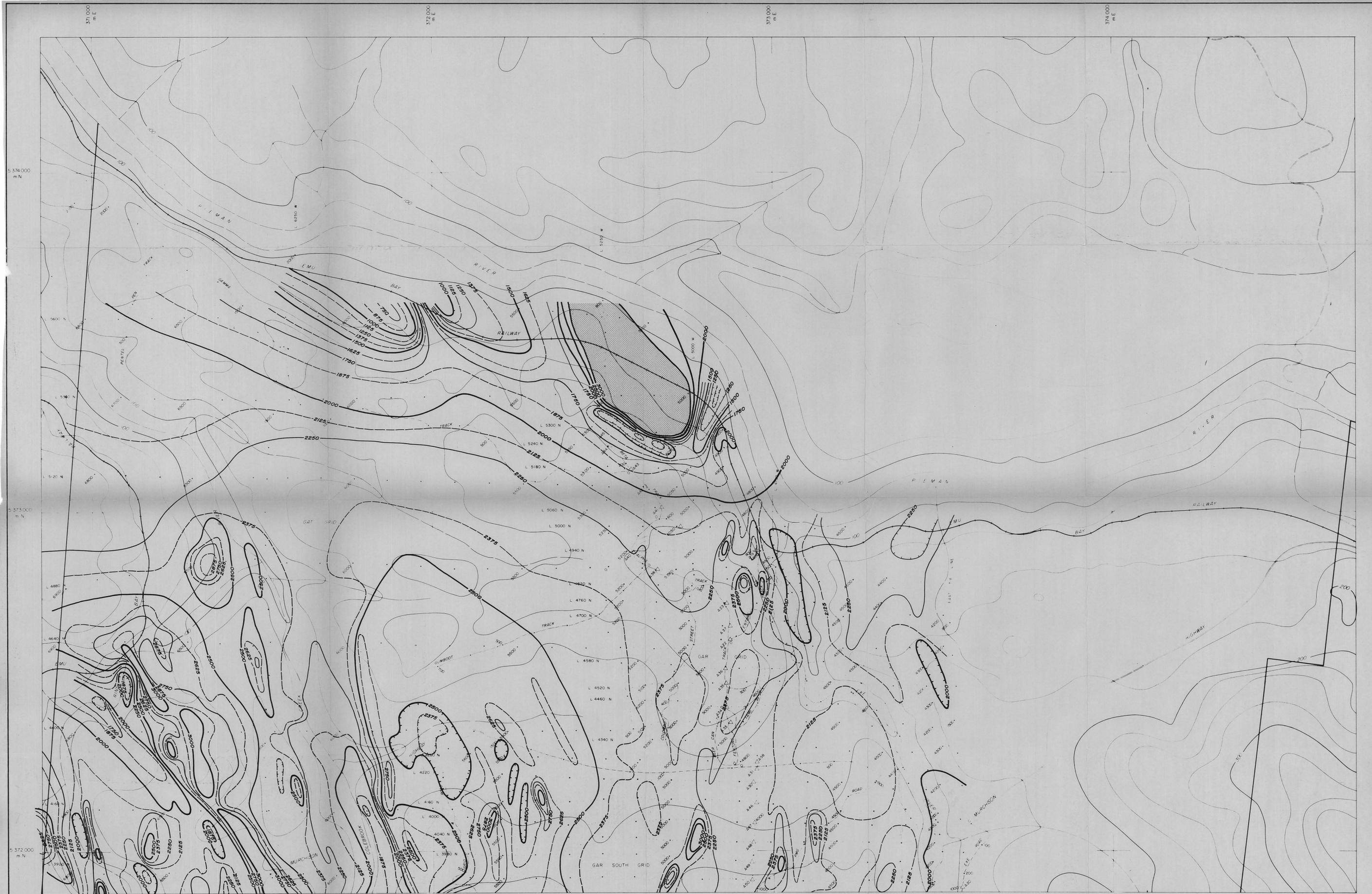
DRAWN	COMPILED	SCALE	3DC/3
		1:5000	



641079



COMSTAFF PROPRIETARY LIMITED			
ANTICIPATED CONTROLLED DIRECTIONAL PATH OF A DEEP DRILL HOLE RBE D 2			
DRAWN SRY	COMPILED JDC/SRY	SCALE 1:5000	JDC/SRY 4



641080

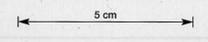
COMSTAFF PROPRIETARY LIMITED

SOUTHERN PORTION EL5/63 AREA 6 : M.L. 62M /75

MAGNETIC ANOMALIES



NB Most contours over 3000nT have been omitted to improve clarity.



COMPILED	DBT
DRAWN	HR
DATE	10/82
AMENDED	
SCALE	1 : 5000
PLAN NO	TAS / 2 / 3 / 100



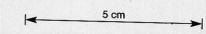
NB: Most contours over 3000m have been omitted to improve clarity.



641081  
COMSTAFF PROPRIETARY LIMITED

SOUTHERN PORTION EL 5/63 AREA 6 : ML 62M/75

MAGNETIC ANOMALIES



COMPLETED	DBT
DRAWN	HR
DATE	10/82
AMENDED	
SCALE	1 : 5000
PLAN No	TAS/2/3101