

071

HOLE NUMBER	FED 16	SURVEY			From - To	Distance D	VERTICAL		HORIZONTAL	
		Depth (m)	Bearing (A.M.G.)	Dip			D.Sin Dip	R.L.	D.Cos Dip	Prog Total
PURPOSE	To test the eastern end of the Cross Lode	12.0	033°	- 56°	0.0 - 34.0	34.0	28.2	371.3	19.0	19.0
		56.0	033.5°	- 56°	34.0 - 82.0	48.0	39.8	331.5	26.8	458
		108.0	035°	- 55°	82.0 - 110.2	28.2	22.1	308.4	16.2	62.0
LOCATION	WEST FEDERATION WORKINGS									
COLIAR R.L.	349.45									
COORDINATES	5359589.59 N 349888.44 E									
LENGTH	110.2m									
HOLE SIZE	0 - 3m HQ 3 - 110.2m NQ									
DATE DRILLED	27.1.81 - 5.2.81									
SIGNIFICANT CORE LOSS ZONES	3.9m loss 7.6 - 31.2m									
ORE ZONE GROUND CONDITIONS										
LOGGED BY	P. ROBERTS									
COMMENTS	The hole was designed to test the Cross Lode down-dip from its interpreted intersection with Geasons Lode and below where the Tributary pipe was reported to pinch out. Tourmaline-quartz and sericitized granite at 48.1 - 51.3m are probably the Cross Lode in much reduced form - this indicates that it dips south-west at approximately 65°.									

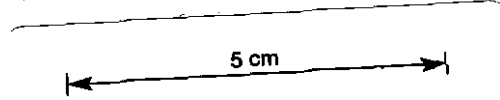
SUMMARY - ASSAY DATA

LODE NAME	FROM	TO	LENGTH (m)	AVERAGE WEIGHTED ASSAYS										B.C.A.	
				Sn.	Acid Sol. Sn.	Cu.	As.	S.	Pb.	Zn.	Bi.	WO ₃	Ag g/t		
	48.1	51.3	3.2	<0.01	<0.01							0.001	0.02	1	
	57.9	58.8	0.9	0.02	<0.01							0.009	0.02	< 1	

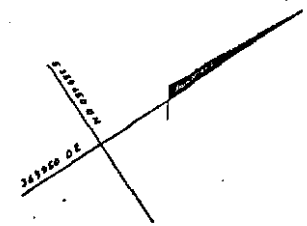
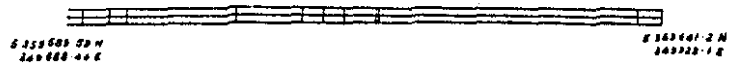


DIAMOND DRILL HOLE PLOT

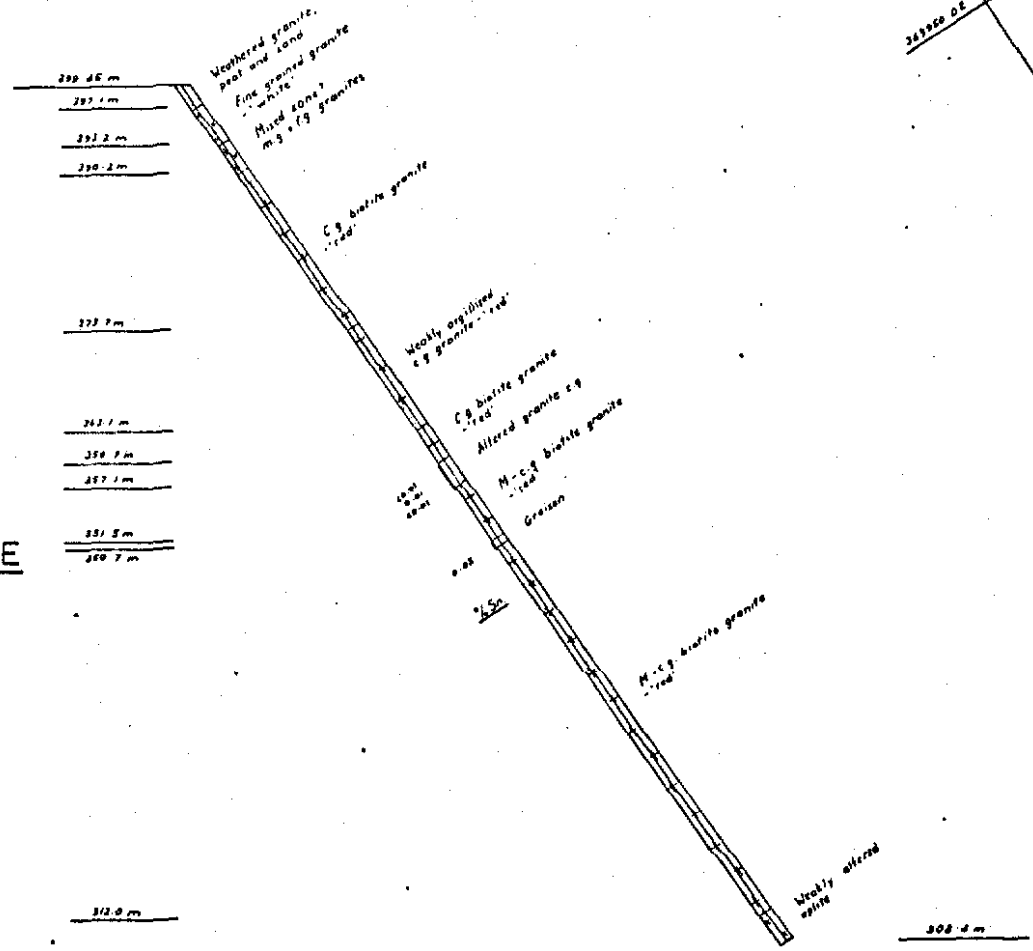
072



PLAN



DIP PROFILE



919074

DIAMOND DRILL RECORD

HOLE NUMBER : FID 16

LOGGED BY : P.R.

073

INTERVAL (m)		RECOVERY		DESCRIPTION	FORM.	% Sn.											
FROM	TO	m	%			FROM	TO	TOTAL	ACIDSOL.	% Cu.	% As.	% S.	% Pb.	% Zn.	% Bi.	g/t Ag	% WC
0.0	1.0	0.2	20	PEAT AND SAND													
1.0	3.0	0.5	25	WEATHERED GRANITE Pale yellow-brown, medium to coarse grained, comprising white and pale yellow (weakly argillized) feldspars, quartz, minor biotite. Core losses where granite is weathered to granitic sand(?). Contact not visible (core loss).													
3.0	7.6	3.4	74	FINE GRAINED GRANITE White, grainsize $\leq 0.5\text{mm}$, becoming slightly coarser grained downwards. Minor biotite or chlorite (after biotite). Rare tourmaline veinlets, 15-40° VCA. Becoming porphyritic lower 30 cm. Slightly weathered, friable and broken down to 6.0m, more competent below that point. Few joints, JCA 20-25°. Gradational contact.													
7.6	11.3	3.2	86	MIXED ZONE(?) Patches of fine grained and medium grained granite similar to above granite types. In places appears to consist of medium grained xenoliths in a finer grained matrix, elsewhere appears to be a contact near parallel to c.a. (e.g. 8.0-8.2m). Rare tourmaline veinlets. Several thin (0.5 - 1.0cm) grey-green greisen veins at 11.0m, VCA 35°. Broken along few joints.													
11.3	31.2	16.5	83	BIOTITE GRANITE Pale grey, pink-grey, pale yellow-grey, coarse grained, comprising ~50% feldspars - white, pink, yellow (argillized) rarely green (sericitized) - ~45% quartz, ~5% black biotite or chlorite after biotite. Rare grey or grey-green greisen veins 1-5cm thick. Broken along joints JCA's 20-40° (some clay coated) and 60-70°. Includes minor soft badly broken zones where a total of 3.4m core loss. 12.0 - 12.3 Patch of fine grained granite similar to 7.6 - 11.3m. 13.1 - 13.2 Pegmatite vein, 2cm thick comprising quartz, feldspar, black tourmaline, pale green fluorite, VCA 5°. 13.8 - 14.1 Central vein of black tourmaline, minor topaz(?) and pyrite, enclosed in quartz-minor tourmaline rock; grey-green greisen at edges. Broken - core losses(?). 24.9 - 25.1 Aplite dyke, white, very fine grained, contacts sharp but irregular at ~10° to c.a.													

919075

DIAMOND DRILL RECORD

HOLE NUMBER: F216

LOGGED BY: P.R.

INTERVAL (m)		RECOVERY		DESCRIPTION	FORM.	% Sn.										
FROM	TO	m	%			FROM	TO	TOTAL	ACID SOL.	% Cu.	% As.	% S.	% Pb.	% Zn.	% Bi.	g/Ag
31.2	44.1	12.3	95	WEAKLY ARGILLIZED GRANITE Essentially same as above except feldspars yellow and argillized, biotite largely converted to chlorite. Broken largely along clayey joints, badly broken in strongly argillized incompetent zones (minor core losses). 41.3 - 41.4 Greisen vein - quartz, muscovite - VCA ~70°. 41.6 - 41.8 Greisen vein as above, VCA ~60°.												
44.1	48.1	4.0	100	BIOTITE GRANITE Same as 11.3 - 31.2m except plagioclase(?) tends to be pale green (sericitized). Yellow and argillized within 30cm of lower contact. Competent core. Gradational contact.												
48.1	51.3	2.9	91	ALTERED GRANITE Grey-green, coarse grained, consisting largely of sericite (after feldspar) and quartz. Minor clay. 49.0 - 50.4 Tourmaline-quartz zone, in places massive tourmaline, quartz partly as vug-filling crystals, minor intensely sericitized granite, trace pyrite. Contacts between tourmaline-quartz and sericitic alteration 35 - 45° to c.a. Badly broken. Gradational lower contact.	48.1	49.1	<0.01	<0.01						0.001	2	0.02
						50.1	0.01	<0.01						0.001	<1	0.05
						51.3	<0.01	<0.01						0.002	1	0.02
51.3	106.3	54.6	99	BIOTITE GRANITE Essentially the same as 11.3 - 31.2m except medium to coarse grained, with trace tourmaline as isolated grains or clots or in veinlets. Few quartz-muscovite greisen veins, mostly 1-8cm thick (VCA's 40-50°). Few breaks where fresh, broken along clay-coated joints where argillized. Weak argillization in patches, particularly 62.0 - 64.0m, 66.7 - 70.0m, 90.7 - 95.5m (including badly broken zones, minor core losses). 57.7 - 57.9 Pink aplite, sharp upper contact at 45° to c.a., gradational irregular lower contact at ~70° to c.a. 57.9 - 58.8 Quartz-muscovite greisen, fine grained down to 58.3m (i.s. greisenized aplite) and coarser grained below that point. Minor black tourmaline in veinlets and in 3mm vein enclosed in quartz at 58.4m (VCA 20°). Trace disseminated pyrite. Irregular lower contact - apparently near parallel to c.a.	57.9	58.8	0.02	<0.01						0.009	<1	0.02

DIAMOND DRILL RECORD

HOLE NUMBER FFD 16

LOGGED BY F.R.

NFS

INTERVAL (m)		RECOVERY		DESCRIPTION	FORM.	% Sn.										
FROM	TO	m	%			FROM	TO	TOTAL	ACID SOL.	% Cu.	% As.	% S.	% Pb.	% Zn.	% Bi.	g/t Ag
				98.5 Aplite vein, 1cm thick, VCA 35°.												
				98.0 - 98.1 Aplite-pegmatite vein. Aplite grainsize <0.5mm, flanked by pegmatite of quartz and feldspar - grainsize 5mm - 2cm. VCA 60°.												
				98.2 - 98.3 Greisen vein, quartz, muscovite, minor disseminated black tourmaline and sericite. VCA ~40°.												
				98.8 - 98.9 Greisen vein; quartz, muscovite, minor tourmaline, VCA ~45°. Contact sharp 45° to c.a.												
106.3	110.2	3.9	100	WEAKLY ALTERED APLITE Grey, greenish white, very fine grained. Feldspars partly argillized or sericitized. Minor biotite or chlorite (after biotite) 106.3 - 107.6m. Few fine grained quartz-black tourmaline nodules 1-4cm diameter, rare greisen and quartz-tourmaline veinlets. Broken along few clayey joints.												
				107.0 - 107.1 Pegmatite vein, quartz interstitial to large feldspar crystals (>3cm diameter), minor disseminated chloritized biotite flakes (1-2mm). VCA ~45°.												
				107.2 Pegmatite vein as above but 5cm wide.												
				109.1 - 109.7 Limonite stained, strongly limonitic at 109.5m.												
				109.7 Green clay vein, 3cm thick, VCA ~70°.												
				END OF HOLE 110.2m												

919077