HOLE NUMBER	FED 15
PURPOSE	To test for extensions of mineralization intersected in FED 10
LOCATION	WEST FEDERATION WORKINGS
COLLAR R.L.	437.56
CO-ORDINATES	5 359 695.23 N 349 962.01 E
LENGTH	100.8m
HOLE SIZE	0 - 6m HQ 6 - 100.8m NQ (triple tube)
DATE DRILLED	21/1/81 — 25/1/81
SIGNIFICANT CORE LOSS ZONES	0.7m loss 21.2 - 24.5m 1.7m loss 70.3 - 73.7m 11.6m loss in weathered, near surface zone (0 - 18.7m)
ORE ZONE GROUND CONDITIONS	
LOGGED BY	P.A. ROBERTS

SURVEY Depth (m)	SURVEY Bearing (A.M.G.)	SURVEY Dip	From - To	Distance D	VERTICAL D Sin. Dip	VERTICAL R.L.	HORIZONTAL D Cos Dip	HORIZONTAL Proj. Tota
COLLAR	-	-55°	0 - 25.0	25.0	20.5	417.1	14.3	14.3
50.0	310°	-56.8°	25.0 - 74.0	49.0	41.0	376.1	26.8	41.1
98.0	310°	-57°	74.0 - 100.8	26.8	22.5	353.6	14.6	55.7

COMMENTS: The hole was designed to test "Geason's lode" north-east of the mineralized intersection in FED 10. Initially the hole was planned to be vertical, however the results of FED 14 suggested that the lode dips moderately to the south-east (assuming the mineralization has a tabular shape). Consequently this hole was angled north-west towards the lode. Only minor alteration with insignificant Sn was found. This suggests that either the mineralization's strike extent is very limited, or that alteration/mineralization is patchily distributed.

SUMMARY — ASSAY DATA

LODE NAME	FROM	TO	LENGTH (m)	AVERAGE WEIGHTED ASSAYS Sn.	Acid Sol. Sn.	Cu.	As.	S.	Pb.	Zn.	Bi.	WO_3	Ag g/t	B.C.A.
	50.7	52.9	2.2	0.01	<0.01	0.06	<0.1	0.6	0.01	<0.01	0.028	0.03	1	
	62.3	63.2	0.9	<0.01	<0.01	0.15	<0.1	0.7	<0.01	0.01	0.052	0.02	<1	
	70.3	73.7	3.4	0.02	<0.01	0.03	<0.1	0.4	<0.01	0.02	0.003	0.02	<1	

NWPS 27344

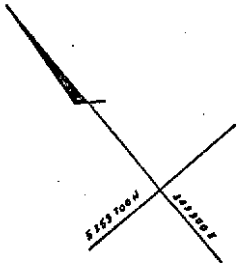
HOLE No. FED 15 SCALE 0 10 20 ft

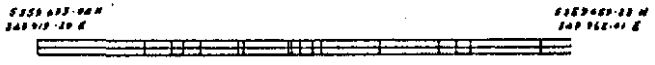
DIAMOND DRILL HOLE PLOT

067

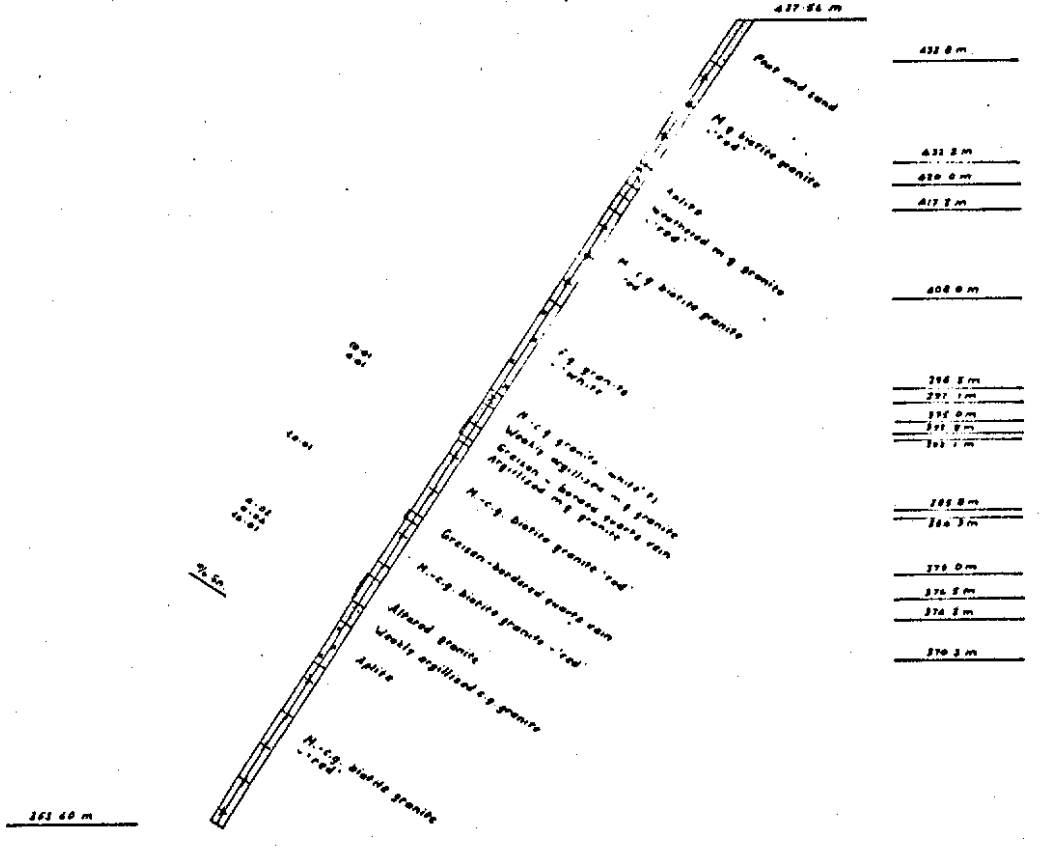
5 cm

PLAN





DIP PROFILE



068

DIAMOND DRILL RECORD

HOLE NUMBER FE-15

LOGGED BY P.R.

INTERVAL (m) FROM	TO	RECOVERY m	%	DESCRIPTION	FORM.	% Sn. FROM	TO	TOTAL	ACID SOL.	% Cu.	% As.	% S.	% Pb.	% Zn	% Bi.	g/t Ag	% WO.
0.0	5.8	0	0	PEAT AND SAND No core recovered.													
5.8	6.0	0.2	100	GREISEN Quartz, muscovite, minor black tourmaline - greisenized coarse grained granite (?)													
6.0	18.7	6.9	54	BIOTITE GRANITE Pale grey, medium grained, comprising white, pale pink or pale green -yellow feldspars, grey quartz, minor black biotite or chlorite (after biotite). Minor brown iron-staining mostly outward from limonite-coated joints. Rare tourmaline-quartz nodules, very rare pyrite. Broken along few joints, J.C.A.'s variable (0 - 70°). 5.8m core loss, mostly between 6 - 12m, probably granite weathered to sand. Contact sharp, marked by biotite enrichment, contact angle 70° to C.A.												
19.7	21.2	2.5	100	APLITE White, very fine grained (average grainsize ~0.5mm) comprising quartz, feldspars, minor partly chloritized biotite. Few tourmaline and greisen veinlets, V.C.A. 30 - 40°. Lower 10cm porphyritic possibly aplite/medium grained granite mixed zone.													
21.2	24.5	2.6	79	WEATHERED GRANITE White, medium grainted, comprising white and pale yellow argillized feldspars, grey quartz, minor chloritized bitotite. Minor greisenized granite: 22.6-23.0m grey, pyritic, minor black tourmaline, very minor muscovite, 24.4-24.5 grey, muscovite-rich, with tourmaline. Broken to badly broken. 0.7m core loss in strongly weathered/ argillized zones particularly 23.1-23.8m.													
24.5	36.0	11.5	100	BIOTITE GRANITE Pale yellow-grey, pale grey, medium to coarse grained, comprising white, yellow (weakly argillized) and pink feldspars, grey quartz, minor black biotite or chlorite (after biotite). Argillization increasing downwards. Broken along joints, J.C.A.'s variable, including some clay-coated joints at ~10° and ~40° to C.A. Contact sharp at ~40° to C.A.													

919070

DIAMOND DRILL RECORD

HOLE NUMBER: FZD15

LOGGED BY: P.R.

069

INTERVAL (m) FROM	TO	RECOVERY m	%	DESCRIPTION	FORM.	% Sn. FROM	TO	TOTAL	ACID SOL.	% Cu.	% As.	% S.	% Pb.	% Zn	% Bi.	g/t Ag	% WO_3
36.0	47.0	11.0	100	FINE GRAINED GRANITE Pale yellow-grey, grainsize 0.5 - 1mm, comprising white and pale yellow (weakly argillized) feldspars, grey quartz, minor black biotite and black tourmaline in small (1-2cm diameter) nodules. Broken along yellow clay-coated joints, JCA's variable. Gradational lower "contact" - phenocrysts rare above 47.0m and becoming abundant downwards.													
47.0	48.6	1.6	100	GRANITE Pale grey, medium to coarse grained. Feldspar- and quartz-porphyritic at top becoming progressively more even grained downwards. Comprising pink, white, yellow (weakly argillized) feldspars, minor black biotite or chlorite (after biotite) but <5% of total. Few joints at 40-60° to C.A.													
48.6	51.2	2.6	100	WEAKLY ARGILLIZED GRANITE Pale yellow, medium grained, weakly quartz- and feldspar - porphyritic comprising yellow (argillized) and white feldspars, grey quartz, minor chlorite (after biotite). Broken along few clay-coated joints. Minor greisenized granite, thicker veins at: 48.6-49.7 Quartz, sericite, muscovite, central pyrite veinlet, VCA 35°. 50.7-51.0 Similar to above, also disseminated pyrite, central 1 cm thick vein of green-black tourmaline, VCA 45°. Contact 65° to c.a.		50.7	51.7	<0.01	0.01	0.07	<0.1	1.0	0.02	<0.01	0.020	<1	0.02
51.2	52.9	1.7	100	GREISEN-BORDERED QUARTZ VEIN Quartz (with minor topaz?), very pale grey; greisen grey, comprising quartz, pyrite, minor green-black tourmaline and muscovite, 30cm thick both sides of quartz vein, contacts ~65° to c.a. Tourmaline in 1cm veins, VCA 70° and 45°. Includes 3cm vein of finely micaceous green sericite containing disseminated black tourmaline at 51.9m, VCA ~80°. Lower margin gradational.		51.7	52.9	0.01	<0.01	0.05	<0.1	0.2	<0.01	<0.01	0.034	1	0.03
52.9	53.5	0.6	100	ARGILLIZED GRANITE Similar to 48.6 - 51.2m, argillization progressively weaker downwards.													
53.5	70.3	16.8	100	BIOTITE GRANITE Pale grey, pale yellow-grey, medium to coarse grained. Feldspars pink, white, yellow (weakly argillized). Biotite black, minor, partly chloritized. Minor greisen. Rare clots coarse grained black tourmaline. Broken along rare, variously oriented joints (JCA commonly ~70°).													

DIAMOND DRILL RECORD

HOLE NUMBER : FED15

LOGGED BY : P.R.

INTERVAL (m) FROM	INTERVAL (m) TO	RECOVERY m	RECOVERY %	DESCRIPTION	FORM.	% Sn. FROM	% Sn. TO	% Sn. TOTAL	% Sn. ACID SOL.	% Cu.	% As.	% S.	% Pb.	% Zn.	% Bi.	g/t Ag	% WO₃
				55.2 - 55.4 *Greisen veins with (lesser) argillized granite. Quartz, minor muscovite, trace pyrite, VCA 60°.*													
				62.3 - 63.2 Greisen-bordered quartz vein. Greisen siliceous and pyritic, includes green-black tourmaline-quartz veins (VCA's ~70°). Greisen-quartz contacts irregular, greisen-granite contacts - upper ~30° to c.a., lower ~60° to c.a. Granite near contacts weakly argillized.		62.3	63.2	<0.01	<0.01	0.15	<0.1	0.7	<0.01	0.01	0.052	<1	0.02
				64.3 - 64.5 Quartz, sericite, minor tourmaline greisen. Lower contact ~55° to c.a.													
				67.1 - 67.2 *Siliceous greisen, minor pyrite, contacts ~60° to c.a.*													
				69.7 - 69.8 Quartz, sericite, minor muscovite greisen. Central tourmaline-quartz vein, VCA 45°.													
70.3	73.7	1.7	50	ALTERED GRANITE		70.3	71.3	0.02	<0.01	0.04	<0.1	1.0	<0.01	<0.01	0.002	<1	0.02
				Greisenized, sericitized and argillized. Greisen - quartz, minor topaz(?) and pyrite, very minor muscovite, and dark green-grey tourmaline in thin veins (VCA ~45°). Sericitized granite grey-green, feldspars converted to sericite and clay. 1.7m core loss.			72.3	0.04	<0.01	0.03	<0.1	<0.1	<0.01	0.05	0.001	<1	0.02
							73.7	<0.01	"	"	"	0.2	"	0.01	0.005	<1	0.02
73.7	76.0	2.3	100	WEAKLY ARGILLIZED GRANITE Pale yellow, coarse grained, feldspars pale yellow (argillized), minor chlorite (after biotite). Broken along clay-coated joints. Contact sharp, 30-40° to c.a.(?) - only part of contact preserved.													
76.0	81.1	5.1	100	APLITE Pale yellow, very fine grained, comprising pale yellow (weakly argillized) feldspars, quartz, very minor chlorite (?). Few quartz phenocrysts. Few thin clay veins. Rare tourmaline in small clots and veinlets with quartz. Broken along smooth clay-coated joints, badly broken 78.6 - 81.1m.													
				76.4 - 76.6 Grey, fine grained quartz-muscovite greisen vein, VCA ~60°. Contact not visible - broken core - probably sharp.													
81.1	100.8	19.7	100	BIOTITE GRANITE Pale yellow-grey, pink-grey, medium to coarse grained. Feldspars pink, white, pale yellow (weakly argillized) or grey-green (sericitized), minor biotite or chlorite (after biotite). Includes few thin greisen veins 5cm. thick (VCA 45-65°), and one thicker vein at 96.8 - 97.1m, consisting of quartz, muscovite, minor tourmaline (VCA ~30°). Broken along few, variously oriented, clay-coated joints.													
				END OF HOLE 100.8m.													