RENISON LIMITED - DRILL CORE RECORD

HOLE NUMBER	TH 4
PURPOSE	TO TEST COINCIDENT IP AND GEOCHEMICAL ANOMALIES.
LOCATION	EAST HEEMSKIRK GRID ~3990N/1650E
COLLAR R.L.	247.51
CO-ORDINATES	5360627.03N 354794.82E
LENGTH	119.6m
HOLE SIZE	0 - 10.6 HQ 10.6 - 45.8 NQ 45.8 - 119.6 BQ
DATE DRILLED	30.4.80 - 24.5.80
SIGNIFICANT CORE LOSS ZONES	28.9 m loss between 0 - 31.7m.
ORE ZONE GROUND CONDITIONS	
LOGGED BY	P. ROBERTS

SURVEY			From - To	Distance D	VERTICAL		HORIZONTAL	
Depth	Bearing	Dip			D.Sin.Dip	R.L.	D.Cos.Dip	Prog. Total
(m)	(AMG)							
Collar	-	- 45.5°	0 - 26.2	26.2	18.36	229.15	18.69	18.69
52.4	274°	- 45°	26.2-67.4	41.2	29.13	200.02	29.13	47.82
82.4	279°	- 45°	67.4-97.4	30.0	21.21	178.81	21.21	69.03
112.4	283°	- 44.5°	97.4-119.6	22.2	15.83	162.98	15.56	84.59

COMMENTS

The hole was designed to intersect the downdip extension of a geochemically and geophysically anomalous ironstone zone outcropping at the surface. This was hoped to represent one or more stanniferous sulphide - bearing skarn zones. The target zone was not intersected because the Heemskirk Granite dips outward much more shallowly than was previously thought, cutting out the sediments at shallow depth. The economic potential of this area has been reduced by this hole because of the small potential volume of mineralized (?) sediments. One encouraging aspect was the 4.2m intersection of partly skarnized carbonates. This is the first definite indication that this sequence contains carbonate beds.

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				
	32.0	36.0	4.0	0.02	0.02	0.02			<0.01	0.04		<0.01	2				

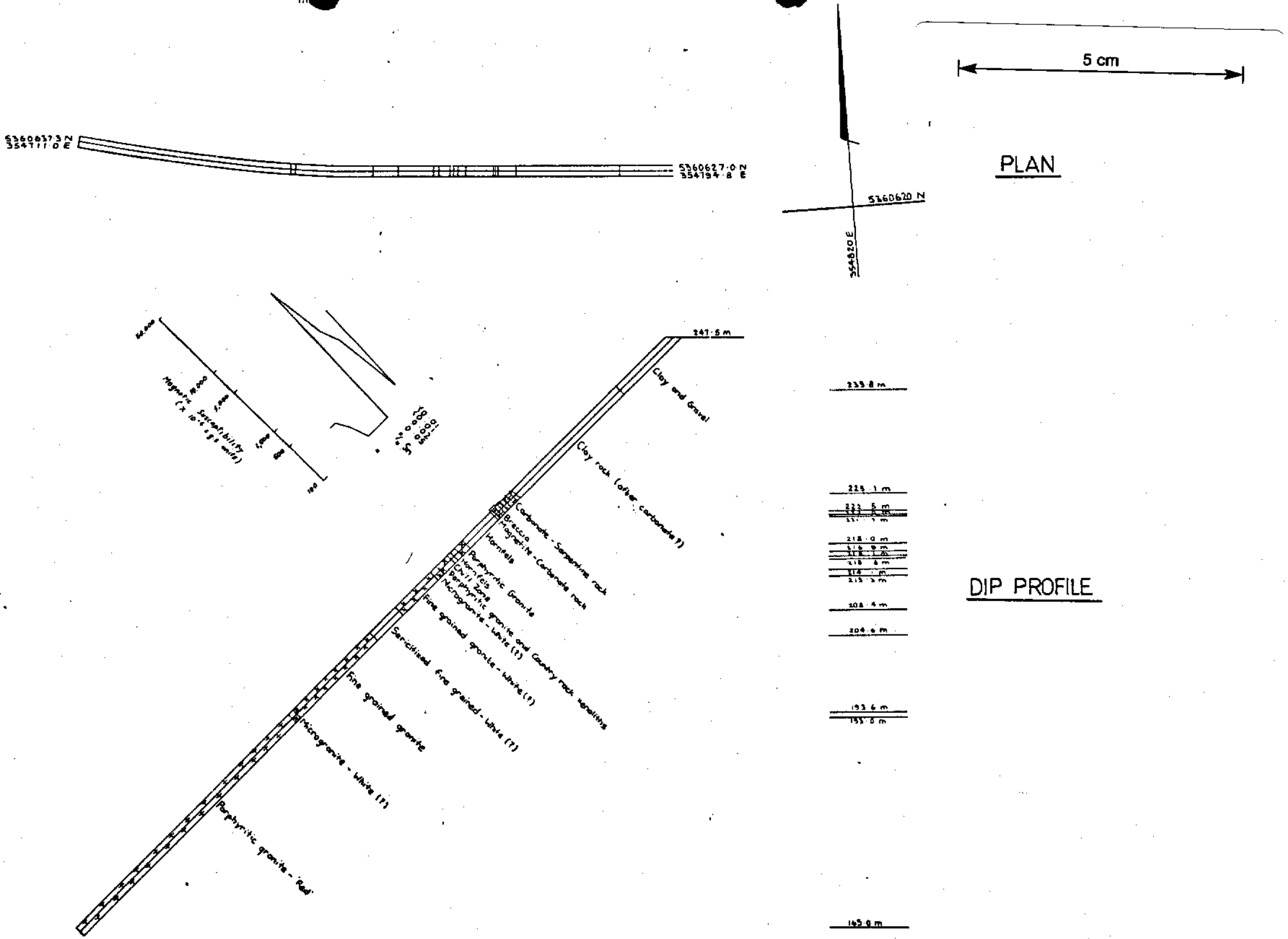
NWPS 27344

RENISON LIMITED

DIAMOND DRILL HOLE PLOT

HOLE No TH4

SCALE: 0 20



034041

DIAMOND DRILL RECORD

HOLE NUMBER : T E4

LOGGED BY : P.R.

RWPS

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
0.0	10.6	-	-	0.0 - 10.6 CLAY & GRAVEL No recovery													
10.6	31.7	2.8	13	10.6-31.6 CLAYROCK brown-black olive-brown, yellow laminated and partly brecciated, very soft. B.C.A. averages 60°. Coarse muscovite at 22.5m Extremely poor core recovery. Possibly derived from carbonate. Thin section 28.4m.													
31.7	35.4	3.4	92	31.6-35.3 CARBONATE-SERPENTINE ROCK grey weakly laminated marble interspersed with irregular masses of pale green serpentinous carbonate. Minor magnetite. B.C.A. varies 30 - 45°. Few veinlets of calcite. Brecciated with increasing proportion of magnetite 34.8 - 35.3m. Thin section 33.8m.		32.0	33.0	<0.01	0.01	0.02			<0.01	<0.01		2	<0.01
						33.0	34.0	<0.01	0.01	0.03			<0.01	<0.01		2	<0.01
						34.0	35.0	0.02	0.04	0.02			<0.01	0.10		2	<0.01
				35.3 - 35.4 GREY CLAY 5cm core loss.													
35.4	38.4	3.0	100	35.4-35.7 BRECCIA Comprising calcite, magnetite and pale green serpentinous carbonate. Skarn-type assemblage. Thin section 35.5m. Gradational change to:		35.0	36.0	0.05	0.05	0.02			<0.01	0.06		1	<0.01
				35.7-36.0 MAGNETITE-CARBONATE ROCK Similar to above but progressively less brecciated, minor serpentine. B.C.A.(?) 60 - 70°.													
38.4	41.4	3.0	100	36.0-41.8 HORNFELS, pale grey, laminated (BCA averages 50°) Minor local contortion and brecciation. Brown mica (phlog ?) lines laminae and in veinlets, locally disseminated throughout rock. Few veinlets of moderately soft black material (serpentine ?). Alteration increases in lower 1.5m. Thin section 38.4m													
41.4	43.4	2.0	100	41.8-43.4 PORPHYRITIC GRANITE, Pale grey-brown, green-grey phenocrysts packed white feldspar laths (av. 5mm long, rarely >1cm diam.), black tourmaline as clots or individual crystals, set in a sericitized aphanitic ground-mass. Contacts marked by chill zones.													
43.4	45.8	2.0	83	43.4-44.2 ALTERED HORNFELS, cream, pale grey, laminated (BCA 70°) hornfels/mudstone (?). Abundant mica along laminae and locally impregnating rock. Soft in places, 40cm core loss.													
				44.2-44.9 CHILL ZONE, pale grey or pale brown, aphanitic. Includes veins or veinlets of soft black material, one of which includes pyrite euhedra at 44.6m.													

DIAMOND DRILL RECORD

HOLE NUMBER : TH 4

LOGGED BY : P.R.

NWPS

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
45.8	47.6	1.6	89	44.9-47.0 PORPHYRITIC GRANITE Similar to 41.8 - 43.4, but including abundant rounded, hornfelsed country rock xenoliths. Latter infrequent below 45.9m.													
47.6	50.6	3.0	100	47.0-48.3 MICROGRANITE, pale grey, very fine grained with few phenocrysts of quartz, feldspar, sericite (after feldspar ?) and chlorite (after biotite ?). Minor black tourmaline in small (av. 1cm diam.) clots of quartz/tourmaline. Gradational change to:													
50.6	56.6	6.0	100	48.3-55.2 FINE GRAINED GRANITE consisting largely of equigranular quartz and feldspar. Fine grained black tourmaline disseminated throughout. Few quartz and sericitized feldspar phenocrysts. Occasional nodules of fine grained quartz / tourmaline.													
56.6	59.6	3.0	100	55.2-60.5 SERICITIZED GRANITE, pale grey-green, finer grained c.f. above, feldspars totally sericitized. Includes central zone at 58.0 - 59.5m which consists of sericite and/or clay with coarsely crystalline, pale brown siderite. Few tourmaline/quartz nodules.													
59.6	62.6	3.0	100	60.5-62.7 FINE GRAINED GRANITE Similar to 48.3 - 55.2 but less tourmaline. Minor sericitization of feldspars.													
62.6	77.6	15.0	100	62.7-76.0 FINE GRAINED GRANITE, mostly stained a brick red colour, equigranular quartz and feldspar, minor dissem. black tourmaline. Rare quartz and sericitized feldspar phenocrysts. Rare quartz/tourmaline in veinlets and small nodules. Minor biotite or chlorite after biotite. Sharp lower contact ~50° to c.a.													
				76.0-76.9 MICROGRANITE, white. Chill zone?. Very felsic. Very minor disseminated biotite and tourmaline. Few sericitized feldspar phenocrysts. Few small (1cm) quartz/tourmaline nodules.													
77.6	119.6	42.0	100	76.9-119.6 PORPHYRITIC GRANITE Pink-grey. Comprises pink K-feldspar and white or pale green (sericitized) plagioclase phenocrysts set in a finer grained groundmass.													

DIAMOND DRILL RECORD

HOLE NUMBER : TE 4

LOGGED BY : P.R.

KWPS

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
				Abundant biotite. Minor black tourmaline in veinlets and clots of tourmaline/quartz. Contrast between phenocryst and groundmass grainsize increases markedly at ~87.0m. Rimming of pink K-feldspar by white plagioclase (?) common below that point. Includes:												
				109.1 - 109.2 White microgranite dyke, contacts at 30 to c.a.													
				118.3 Vein of magnetite, banded, with banding and contacts at 40 to c.a.													
				END OF HOLE AT 119.6m.													

DIAMOND DRILL RECORD

HOLE NUMBER : TH4

LOGGED BY : P.R.

NWPS

INTERVAL (m) FROM	INTERVAL (m) TO	RECOVERY m	RECOVERY %	DESCRIPTION MAGNETIC SUSCEPTIBILITY ($x10^{-6}$ c.g.s. units)
31.7	32.0			4200
	33.0			200
	34.0			1800
	35.0			3500
	36.0			14300
	37.0			100
	38.0			4100
	39.0			100
	40.0			100
	41.0			100
	42.0			200
	43.0			300
	44.0			300

FORM.	% Sn. FROM	% Sn. TO	% Sn. TOTAL	% Sn. ACID SOL.	% Cu.	% As.	% S.	% Pb.	% Zn.	% Bi.	g/t Ag	% WO_3

034045

SCALE:

RENISON LIMITED
DIAMOND DRILL HOLE PLOT

HOLE No.: TH 4

G.M.S. REPORT 80/8/30

DEPTH (m)	ROCK TYPE - COMPOSITION	FABRIC	MINOR MINERALS	COMMENTS
28.4m (T.S. 33538)	Weathered Schist Foliated masses of degraded, iron-stained ?antigorite-chlorite and talc. Clusters of very small ?hydrogarnet grains.	Rough schistosity, cremulated and deformed. Fine-grained.	Fine granular topaz.	Rock is derived from serpentinite, with later metasomatism and introduction of hydrogrossular and topaz.
33.8m	Serpentinite Large antigorite pseudomorphs with fine magnetite, progressively replaced by granular siderite and calcite masses.	Excellent network textures preserved. Incipient banding.	Possible small tufts of ?ilvaite.	Relatively undisturbed orthodox serpentinised coarse ultramafic rock, fresher version of 28.4m.
35.5m	Serpentinite Coarse antigorite pseudomorphs, partly replaced by coarse and fine tremolite needles, now replaced by carbonate fibres and grains.	Coarse serpentinite textures; relict amphibole textures.	Colloform-banded carbonate/ Fe-silicate (?canby ite) veins.	Successive replacement phases, serpentinite by tremolite and tremolite by carbonate.
38.4m	Calc-Silicate Hornfels Dominantly granular to acicular diopside, as finer and coarser parallel bands, with a few thin bands of hydromuscovite flakes.	Excellent banding, due only to grainsize variations; random orientation.	Conformable and cross-cutting veins/lenses of green pumpellyite.	Pumpellyite is hydrothermal, metasomatic, replacing diopside. Rock is contact-metamorphosed carbonate.