RENISON LIMITED - DRILL CORE RECORD

HOLE NUMBER	MH5
PURPOSE	To Test For Depth Extension of the Mineralized Fault Zone Intersected in MH2
LOCATION	MERTON HILL
COLLAR R.L.	2187.608m
CO-ORDINATES	5 379 675.336 mN 367 872.242 mE
LENGTH	331m
HOLE SIZE	0 - 3m HW 150 - 331m N.Q. 3 - 150m HQ
DATE DRILLED	16.9.1981 - 14.10.1981
SIGNIFICANT CORE LOSS ZONES	
ORE ZONE GROUND CONDITIONS	
LOGGED BY	LINDA MARTIN
COMMENTS	ALL ASSAYS DONE BY AMDEL, ADELAIDE.

SURVEY Depth	SURVEY Bearing (MG)	SURVEY Dip	From - To	Distance D	VERTICAL D.Sin.Dip	VERTICAL R.L.	HORIZONTAL D.Cos.Dip	HORIZONTAL Prog. Total
Collar set-up	211°	-50°	0 - 9.0	9.0	6.89	2180.72	5.79	5.79
18m	210°	-51.25°	- 34.5	25.5	19.89	2160.83	15.96	21.75
51m	inside rods	-54°	- 70.5	36.00	29.12	2131.71	21.16	42.91
90m	212°	-57.25°	-105.0	34.5	29.02	2102.69	18.66	61.57
120m	210°	-55.75°	-135.0	30.00	24.80	2077.89	16.88	78.45
150m	210°	-55°	-170.0	35.0	28.67	2049.22	20.09	98.53
190m	205.5°	-53°	-208.0	38.0	30.35	2018.87	22.87	121.40
226m	205°	-51.25°	-243.0	35.0	27.30	1991.57	21.91	143.31
260m	205°	-48.75°	-274.5	31.5	23.68	1967.89	20.77	164.08
289m	205°	-47.75°	-310.0	35.5	26.28	1941.61	23.87	187.95
331m	205°	-47°	-331	21.0	15.36	1926.25	14.32	202.27

SUMMARY - ASSAY DATA

LODE NAME	FROM	TO	LENGTH (m)	AVERAGE WEIGHTED ASSAYS Sn. %	Acid Sol. Sn.	Cu. %	As. ppm	Sb ppm	Pb. %	Zn. %	Bi. ppm	WO_3	Ag g/t				B.C.A.
SIL. LIMESTONE MEMBER	244.5	268.5	24	<0.01	<100 ppm	<0.01	<20	10	0.328	0.509	<100		8.2				
" " "	281.0	282.0	1	0.021	300 ppm	0.028	<20	100	3.7	6.8	<100		120				
CAMBRIAN DUNDAS	317.3	318.3	1	<0.01	<100 ppm	<0.01	<20	28	0.025	0.065	<100		2				
GROUP SEDIMENTS.																	

NWPS 27344

038

HOLE No · MH 5

SCALE · 0 20 40 metres

RENISON LIMITED
DIAMOND DRILL HOLE PLOT

785040

5 cm

PLAN

5379675 34 N 367872 24 E
5379669 3 N 367869 6 E
5379654 2 N 367860 5 E
5379647 3 N 367856 4 E
5379642 2 N 367852 3 E
5379634 6 N 367849 0 E
5379618 0 N 367838 8 E
5379595 5 N 367825 9 E
5379580 4 N 367817 7 E
5379555 1 N 367805 5 E
5379551 2 N 367804 0 E
5379540 0 N 367798 5 E
5379533 8 N 367795 7 E
5379505 4 N 367782 7 E
5379502 7 N 367781 5 E
5379496 65 N 367777 99 E
5379450 N
367800 E

DIP PROFILE

R.L 2187 61

CLAY & SHALE RUBBLE 9.5 m
SANDSTONE
SILURIAN AMBER SHALE
SANDSTONE MEMBER IN SILURIAN AMBER SHALE
SILURIAN AMBER SHALE
37.3 m
SHALE
FAULT? ZONE
SANDSTONE
59.3 m
SHALE
68.2 m
CALCAREOUS SHALE
78.4 m
FRAGMENTAL LIMESTONE
118.6 m
CALCAREOUS SHALE
157.7 m
186.4 m
BEDDED TO MASSIVE LIMESTONE
LIMESTONE MEMBER IN SILURIAN AMBER SHALE
232.2 m
MASSIVE LIMESTONE
259.0 m
BEDDED TO MASSIVE LIMESTONE
FAULTED AND BRECCIATED LIMESTONE
267.2 m
268.3m
MASSIVE STYLOLITIC LIMESTONE
CAMBRIAN DUNDAS GROUP
CAMBRIAN ULTRA MAFICS
BIT AQ
120
314.4m
318.5 m TUFF & SHALE
SERPENTINE
331.0 m
ACID INTRUSIVE DYKES
0.065
0.025

2184.0 2179.0 2156.7 2146.9 2138.0 2125.2 2090.5
2035.5 1999.5 1980.2 1972.0 1937.9 1936.1
R L 1926.25

<0.01% Cu <0.01% Sn
0.021% Sn 0.028% Cu
<0.01% Cu <0.01% Sn

039

DIAMOND DRILL RECORD

HOLE NUMBER : MR5

LOGGED BY : LINDA MARTIN

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	3	-	-	No Core.													
3	9.5	3.9	60	Clay and Minor Shale Fragments.	SIL. AMBER SHALE												
9.5	11.0	0.9	60	Clay and Sandstone Chips.													
11.0	37.3			Sandstone.	Sandstone												
		6.1	51	11.0 - 23.0m: Fine to medium grained sandstone with brownish 'Tarry' staining. Massive to vaguely bedded; at 16m - 29°. Minor qtz veining. Broken core.	Member of Silurian												
		6.76	65	23.0 - 33.4m: Light grey to white sandstone composed mostly of qtz with minor feldspar, mica + black opaque minerals. Vaguely bedded with minor shale layers; So at 25m - 29°, 27m - 21°, 29m - 26°. Light brown iron-oxide staining from 28m-31m.	Amber Formation												
		3.1	80	33.4 - 37.3: Medium grey sandstone with dark grey shale layers 1-3cm wide. Sandstone is coarser grained. Unit grades from sandstone with shale layers to shale. So at 34m - 40°; 35.5m - 36°.													
37.3	51.3	8.4	60	SHALE Light grey to green, fine grained well bedded shale. So at 37m - 41°; 41m - 40°; 45m - 35°; 48m - 32°. 47.4m - 51.3m: Zone of very fractured and crumbly core. (Possibly a fault zone).	SILURIAN AMBER SHALE												
51.3	61.2	9.9	100	SANDSTONE 51.3 - 55.4m: Light grey, medium grained, massive to vaguely bedded, with minor qtz. veining; So at 54m - 15°. 55.4 - 61.2m: Medium grey sandstone with dark grey shale layers 1-3cm wide. Grading to dark grey shale unit below. So at 56m - 31°; 57m - 30°; 59m - 30°.	SANDSTONE MEMBER OF SILURIAN AMBER FORMATION												
61.2	76.4	9.8	65	SHALE Light to medium grey, fine grained, well bedded and fossili ferous, with minor coarser grained, light grey, calcareous + fossiliferous layers, 1-4cm wide. So at 64m - 39°; 69m - 43°; 70m - 41°, 72m-49°; 76m - 40°. The Shale has been altered to clay in places; core is broken.	SILURIAN AMBER SHALE												

28504.1

040

DIAMOND DRILL RECORD

HOLE NUMBER : MH5

LOGGED BY : LIND & MARTIN

RWPS

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	% WO_3
76.4	118.6	41.35	98	CALCAREOUS SHALE													
				76.4 - 95.7m: Medium grey shale with light grey to white coarser grained calcareous fossiliferous sands 1-5cm wide forming up to 30% of the rock. These bands are 'boudinaged' in places probably as the result of consolidation. The upper boundary of these bands is gradational, while the lower one is sharp indicating that the sequence is "aging" down the drill hole. Upper and lower "boundaries" of the unit are gradational.													
				So at 77m - 38°; 81m - 37°; 83m - 42°; 86m - 43°													
				89m - 31°; 91m - 36°; 94m - 40°.													
				95.7 - 118.6m: Calcareous fossiliferous bands now forming 60 - 70% of rock. Shale layers are thin, wavy and are squashed around more competent limestone bands or fragments. They are often stylolitic in appearance. Increase in white calcite veins.													
				So at 97m - 30°; 100m - 39°; 102m - 38°; 103m - 33°;													
				107m - 31°; 110m - 30°; 114m - 36°; 116m - 34°;													
				117m - 40°.													
118.6	157.7			LIMESTONE	LIMESTONE												
		13.2	100	118.6 - 131.8m: Dark to medium grey fragmental limestone with fine layers of shale as stylolites. Numerous fossils within the clasts and as matrix fragments: Fossils of gastropods, brachiopods, crinoid ossicles, corals and bryozoans. Minor calcite veins at 0°-20°, and 1-2cm wide. At 125.0m, A 3-4cm wide vein of coarsely crystalline calcite at 10°.	MEMBER IN SIL AMBER SHALE												
		9.96	100	131.8 - 141.76m: Light grey limestone with pinkish (oxidised?) fossil fragments.													
		13.86	100	141.76 - 155.62m: Medium grey, with more numerous and thicker black stylolites. Increase in irregular white carbonate veining at 0°-30°. Sheared upper boundary. At 141.97m an ankerite vein, 1cm wide at 21°.													
		1.9	90	155.62 - 157.7m: Zone of brecciated limestone and bedded calcareous shale, with numerous calcite veins at 0°-30°. In places the rock has been replaced by recrystallized calcite. The core is broken and crumbly.													
157.7	186.43			CALCAREOUS SHALE													
		23.33	100	157.7 - 181.03m: Well bedded dark grey shale with calcareous layers to 5cm width, composed of fossil fragments mostly crinoid ossicles. Minor calcite veining, 0-20°, 1-3cm wide. At 163m, 4cm wide vein of coarsely crystalline calcite at 5°.													

041

DIAMOND DRILL RECORD

HOLE NUMBER : MR5

LOGGED BY : LINDA MARTIN

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
				So at 159m - 39°; 161m - 34°; 164m - 28°; 167m - 32°; 169m - 29°; 171m - 15°; 175m - 29°; 178m - 30°; 180m - 30°.												
		5.13	95	181.03m - 186.43m Brecciated calcareous shale fragments with numberous white calcite veins, in a sheared matrix of dark grey to black shale and carbonaceous material. The matrix is sheared at approx. 50°-60°. At 186.36m, and irregular yellow ankerite vein 1-2 mm wide at approx 40°, with minor spots of sphalerite and galena replacing some of the surrounding rock.												
186.43	232.24	45.81	100	BEDDED TO MASSIVE LIMESTONE: Medium grey, well bedded to 193.5m then grades into more massive limestone with stylolites subparallel to bedding, and with minor well bedded zones. Minor irregular calcite veining at 40°-50°, and coarse grained calcite veins up to 5cm wide at 0-20°. Minor slightly altered limestone zones sometimes associated with wide coarse grained calcite veins. Here the limestone is bleached, softer and more porous. Boundaries of the zones are diffuse and gradational. Zones at: 231.94 - 232.0m with calcite vein at 232.0, 4 cm wide. 232.14 - 232.24m with calcite vein at 232.24m, 3 cm wide. Bedding: 187m - 51° 218m - 40°; 189m - 43° 219m - 40°; 193m - 40° 224m - 46°; 205m - 43° 228m - 42°; 207m - 46° 229m - 40°. MINERALIZED VEINS: 212.2m: Ankerite-Calcite-Minor Galena vein at 39°, 1 cm wide. 214.51m: Irregular Galena-Sphalerite vein at 18°, 2mm wide, associated with minor ankertie veins along an irregular stylolite. 215.6m : Irregular patch of ankerite-sphalerite-galena as part of vein intersected by drill hole. 217.95m: Irregular ankertie-sphal. - gal.- calcite vein at 29°, 0.5cm wide. 218.25m :Anker. - Sphal. - Cal. Vein along bedding at 40°, 0.5cm wide. 224.24m: Anker. - Sphal. - Gal. Vein along bedding at 46°, 1cm wide												

042

DIAMOND DRILL RECORD

HOLE NUMBER : ME5

LOGGED BY : LINDA MARTIN

RWPS

INTERVAL (m) FROM	TO	RECOVERY m	%	DESCRIPTION	FORM.	FROM	TO	ppm Sn. TOTAL	ACID SOL.	ppm Cu.	ppm As.	ppm Sb	% Pb.	% Zn.	ppm Bi.	g/t Ag	% WO_3
232.24	239.0	6.76m	100	MASSIVE LIMESTONE:													
				Medium grey, more massive with minor stylolites. Brecciated zone at													
				235.0 - 235.20m "healed" with recrystallized limestone. Minor													
				altered zones of bleached, porous limestone. Wide zone at													
				235.5 - 236.54m with 3-4 cm wide calcite vein at 335.62m.													
				MINERALIZED VEIN:													
				233.59m: Anker. - Sphal. - Minor Gal. Vein at 51° 1-2 cm wide.													
239.0	257.21	18.21	100	BEDDED TO MASSIVE LIMESTONE:													
				Medium Grey limestone with stylolites in places.													
				Bedding: 251m - 57°.													
				254m - 61°													
				Zones of bleached altered limestone at 241.32 - 241.75m, 242.20 -													
				242.50m, 244.34 - 245.19m.													
				244.34 - 244.83m: Brecciated zone "healed" with recrystallized													
				limestone. Upper boundary - calcite vein at 20°, lower boundary is													
				mineralized vein at 23°.													
				MINERALIZED VEINS:													
				239.7m : Slightly irregular anker.-minor sphal. and gal. at 46°,													
				0.5 - 1cm wide.				DETN LIMIT (4)	DETN LIMIT (100)								
				239.86m: As above.													
				244.83 - 245.19m: Irregular anker. veining with patchy sphal. and		244.5	245.5	6	100	< 20	< 20	10	1.2	0.28	< 100	17	
				gal. replacing the matrix.		245.5	246.5	<4	< 100	< 20	< 20	8	0.01	0.01	< 100	<1	
				247.19 - 247.43m: Zone of fine ankerite - sphal. - gal. veining up		246.5	247.5	<4	< 100	< 20	< 20	10	0.08	0.14	< 100	4	
				to 1cm wide, at 30° and replacing some stylolites at 55°.		247.5	248.5	4	100	< 20	< 20	12	0.02	0.012	< 100	41	
				247.62m: Thin sphal. - gal. - anker, irregular, 0.5cm wide at 50°.													
				249.33m: Irregular anker. veinlets at 55°, with patchy sphal. and													
				galena replacing some of matrix over 1cm wide zone.		248.5	249.5	<4	< 100	20	< 20	12	0.06	0.06	< 100	3	
				249.65 - 249.95m Irreg. ank.-sphal.-gal. vein at 0-10°, 3-5 cm wide.		249.5	250.5	32	100	60	< 20	6	1.1	0.85	< 100	14	
				250.30m: Sphal.-Gal. vein at 25°, 0.3cm wide.		250.5	251.5	32	100	60	< 20	<4	0.15	0.72	< 100	3	
				250.70m: Ank.-Sphal.-Gal. vein at 41°, 0.5 cm wide.													
				250.88m: Ank.-Gal. vein at 43°, 0.5cm wide.													
				251.37 - 251.46M: Veined and replaced zone of ank-gal-sphal.,		251.5	252.5	8	< 100	20	< 20	8	0.055	0.065	< 100	1	
				5-6 cm wide, sub parallel to stylolites at 50°. Minor patches and													
				veinlets of sphal. and gal. between 250.88 - 251.46m.													
				253.69m: Thin anker. vein at 47°, with patches of sphal. and minor		252.5	253.5	4	< 100	20	< 20	<4	0.005	0.002	< 100	<1	
				gal. replacing matrix for 2cm either side of vein.		253.5	254.5	30	100	40	< 20	12	0.22	0.8	< 100	6	
				254.36m: Irregular anker. - Sphal.-Gal. Veining at 40°-60° with													
				associated minor patches of sphal. and gal. replacing the matrix.													
				255.24M: Fine veinlet of anker. - Sphal.-Gal. at 32°, 0.1cm wide.		254.5	255.5	10	<100	< 20	< 20	6	0.01	0.06	< 100	1	

7850414

DIAMOND DRILL RECORD

HOLE NUMBER : MR5

LOGGED BY : LINDA MARTIN

NWPB

INTERVAL (m) FROM	TO	RECOVERY m	%	DESCRIPTION	FORM.	ppm Sn. FROM	TO	TOTAL	ACID SOL.	ppm Cu.	ppm As.	ppm Sb	% Pb.	% Zn.	ppm Bi.	g/t Ag	% WO_3
				255.64m: Irregular veinlets of anker. associated with patches of		255·5	256·5	34	100	20	<20	10	0·17	0·63	< 100	3	
				sphalertie replacing matrix over 3cm.		256·5	257·5	8	100	<20	<20	8	0·26	0·15	< 100	6	
				256.40 - 256.77m: Irregular ankerite vein at 0°-10°, with minor spots		257·5	258·5	38	< 100	80	<20	18	1·1	1·2	< 100	31	
				of sphalerite and galena.													
257.21	268.3	10.87	98	FAULTED AND BRECCIATED LIMESTONE													
				With recrystalized grey calcite in patches, zones and "healing"													
				fractures. Numerous calcite and ankerite veins, with patchy													
				mineralization. Bleached and porous zone with gradational boundaries													
				at 261.8 - 262.0m.				DETN. LIMIT (4)	DETN. LIMIT (100)								
				MINERALIZED VEINS													
				259.97 - 259.16m: Sphal.-Anker.-Gal. as irregular veinlets at 65° and		258·5	259·5	34	< 100	20	<20	8	0·04	0·66	< 100	3	
				replacing the matrix in a zone 4-5cm wide.		259·5	260·5	16	< 100	20	<20	6	0·055	0·37	< 100	4	
				260.6 - 261.15m: Irregular patches of sphal., anker, and minor gal.		260·5	261·5	30	< 100	40	<20	38	1·9	0·88	< 100	38	
				262.0 - 263.35m: Wide vein of anker.-minor sphal. and gal., 5-7cm		261·5	262·5	60	100	80	<20	10	0·24	1·9	< 100	10	
				wide, subparallel to core axis.		262·5	263·5	38	< 100	40	<20	44	0·13	0·85	< 100	4	
				264.55m: Irregular zone of veinlets and patches of sphal., and anker.		263·5	264·5	24	100	<20	<20	8	0·02	0·22	< 100	<1	
				267.05 - 267.65m Irregular ankor. vein 10-15cm wide with patches of		264·5	265·5	110	100	80	<20	8	0·065	1·2	< 100	5	
				sphal. and galena in the vein and in the matrix.		265·5	266·5	4	100	20	<20	14	0·01	0·028	< 100	<1	
						266·5	267·5	60	100	60	<20	38	0·96	0·88	< 100	44	
268.3	314.42	46.12	100	MASSIVE STYLOLITIC LIMESTONE:		267·5	268·5	18	100	20	<20	4	0·025	0·25	< 100	<1	
				More massive less well bedded, medium grey limestone. From 279.1m													
				onwards the limestone is intersected by numerous calcite veins and													
				medium grey recrystallized calcite veins and zones. Minor brecciated													
				zones. Some zones of bleaching: 272.44m - 8cm wide altered													
				crumbly zone. 277.65 - 277.85m - altered crumbly zone associated													
				with irregular coarse calcite veining.													
				From 285.2m onwards the limestone is coarser grained with a sandy													
				appearance. Lower boundary of unit is obscured by poor core recovery													
				but is probably a sheared one. 300.85 - 300.34m: Thin band of dark													
				grey limestone with banded and convoluted syngenetic pyrite.													
				Bedding at 274m - 64°.													
				MINERALIZED VEINS:													
				269.98m : Anker - minor sphal. and gal. vein at 41°, 0.5cm wide.													
				270.94m : Irregular anker. - minor sphal. and gal. vein at 48°,													
				0.4cm wide.													
				271.37 - 271.70m: Anker. - very minor sphal. and gal. patches at 9°,													
				1 cm wide.													
				271.79m: Sphal. - Gal.- Ank. vein along stylolites subparallel to													
				bedding at 67°, 0.8 cm wide and slickensided.													
				273.0m: Sphal.-Gal-Ank. vein along sylolites, 1-2cm wide at 64°.													

DIAMOND DRILL RECORD

HOLE NUMBER : ME5

LOGGED BY : LINDA MARTIN

NWPS

INTERVAL (m) FROM	TO	RECOVERY m	%	DESCRIPTION	FORM.
				281.0 - 282.51m: Zone of irregular veinlets of anker.-sphal.-Cal. replacing matrix.	
				282.78m: Anker.-Cal.-Sphal. vein, 2-3cm wide, at 50°, associated with patches of sphalerite and cal. replacing matrix.	
314.42	315.09	0.67	100	CRYSTAL TUFF: Medium grey green coarse grained crystal tuff with medium + dark green chloritic flattened pumice fragments. Sheared lower boundary at 50°.	CAMBRIAN DUNDAS GROUP SEDIMENTS
315.09	315.37	0.28	100	SHALE: Light grey - green, well bedded shale; bedding at 41°.	
315.37	316.56	1.19	100	CRYSTAL TUFF: As for 314.42 - 315.09m. Sheared boundaries at 48°.	
316.56	316.90	0.34	100	SHALE: Light grey-green with some dark grey zones, similar to 315.09 - 315.37m Well bedded at 55°.	
316.90	318.49	1.51	95	SHALE: Dark grey grading to medium grey pink then to light grey pink. Finely laminated with soft sediment deformation features. Towards base of unit, there are flattened tuffaceous fragments up to 2cm diam. Minor fine qtz. veinlets in upper part of unit.	
				ACID INTRUSIVE DYKES at 317.55 - 317.84m and 318.03 - 318.26m. Light grey, very fine grained matrix with coarse crystal fragments of feldspar and altered micas. Upper dyke has regular boundaries - upper at 43°, lower at 50°. Lower dyke has very irregular and convoluted boundaries possibly indicating that it may have intruded the sediments when they were unconsolidated. Upper dyke has fine flecks of pyrrhotite towards lower crystal rich part of unit.	
318.49	331.0	12.51	100	SERPENTINE: 318.49 - 322.50m Dark green altered serpentine with numerous white calcite veinlets. Band of light green fuchsite with gradational boundaries at 318.75 - 318.85m. 322.50 - 331.0m Light pea green coloured serpentine with black veinlets. Minor chromite and sulphide specks.	CAMBRIAN ULTRA-MAFIC
				E.O.H	

FROM	TO	ppm Sn. TOTAL	ACID SOL.	ppm Cu.	ppm As.	ppm Sb	% Pb.	% Zn.	ppm Bi.	g/t Ag	% WO_3
281.0	282.0	240	300	280	420	100	3.7	6.8	4100	120	
317.3	318.3	44	4100	40	420	28	0.025	0.065	4100	2	

MAGNETIC SUSCEPTIBILITY ($\times 10^{-6}$ C.G.S. UNITS)

METRES:			READING
0	322	...	4 100
322	323	...	6300
323	324	...	6800
324	325	...	2300
325	326	...	4700
326	327	...	4000
327	328	...	100
328	329	...	200
329	330	...	4,600
330	331	...	10,000

044

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