

# RENISON LIMITED - DRILL CORE RECORD

HOLE NUMBER	8697	SURVEY			From - To	Distance D	VERTICAL		HORIZONTAL	
		Depth	Bearing	Dip			D.Sin.Dip	R.L.	D.Cos.Dip	Prog.Total
PURPOSE	To test Owen-Meredith Fault and Mine Sequence	COLLAR	240°52'	-69°08'	0.0 - 26.50	26.00	24.76	2132.8	9.62	7.14
		53.0m	249°	-67.5°	- 25.50	59.0	54.51	2078.3	22.58	32.62
		118.0m	261°	-60°	- 149.00	63.50	59.99	2023.33	31.75	63.77
LOCATION	CRIMSON CREEK	180.0m	260°	-57.5°	- 202.50	58.50	45.12	1778.21	28.75	92.52
		225.0m	260°	-55°	- 260.00	57.50	47.10	1731.10	32.98	125.50
COLLAR R.L.	2157.59	295.0m	267°	-48°	- 325.00	65.00	48.30	1682.80	43.49	168.99
		355.0m	264°	-46°	- 356.00	31.00	22.30	1660.50	21.53	190.52
CO-ORDINATES	21821.86N 14687.36E									
LENGTH	356.0m									
HOLE SIZE	0.0 - 3.4m HQ - 231.2m HQ - 356.0m HQ									
DATE DRILLED	25.7.80 - 12.8.80									
SIGNIFICANT CORE LOSS ZONES										
ORE ZONE GROUND CONDITIONS	Very broken ground on Hangingwall of Owen-Meredith fault.									
LOGGED BY	L.D. BOND									
COMMENTS	Intersected the Owen-Meredith fault about 150m earlier than anticipated, indicating a displacement of the fault somewhere near the Owen Meredith Workings. Encountered Red Rock Member/Fault/Renison Bell Member/No.3 Horizon/Dalcoath in footwall of fault with only sparse sulphide mineralisation.									

### 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 <sub>3</sub>	Ag g/t			
Owen-Meredith P.	213.8	220.5	6.7													
incl.	219.7	220.4	0.7	0.03	0.01	0.38	< 0.01	0.9	0.46	0.06	0.014	0.01	650			
Vein	239.1	239.3	0.2	< 0.01		0.05	0.1	5.6	1.72	0.22	0.003	0.01	145			
No.3 Horizon	288.8	290.6	1.8													70°

## DIAMOND DRILL RECORD

HOLE NUMBER : S697

LOGGED BY : LDB

MWPS

INTERVAL (m)		RECOVERY		DESCRIPTION	FORM	% Sn.										
FROM	TO	m	%			FROM	TO	TOTAL	ACID SOL	% Cu.	% As.	% S.	% Pb.	% Zn.	% Bi.	g/t Ag
0.0	3.4	-	-	No recovery : triconed.	NK											
3.4	13.6	3.2	31	<u>WEATHERED SILTSTONE TUFF, AND AGGLOMERATE</u> Interbedded clayey yellow-brown weathered tuff, siltstone and silty agglomerate. Goethite coats joints. Core is broken to very broken, with high core loss.	CCF											
13.6	23.7	7.1	70	<u>SILTSTONE, AGGLOMERATE, TUFF</u> Weakly leached dark grey calcareous siltstone, calcareous dark grey silty agglomerate containing tuff, siltstone, and volcanic? fragments in a silty matrix and medium grained massive light grey tuff, with calcareous bands. Locally broken to very broken, but generally reasonably good ground. Sparse goethite on joints. Sparse disseminated and vein pyrite. B.C.A. 70°.	CCF											
23.7	29.8	3.5	57	<u>WEATHERED TUFF, MINOR UNWEATHERED SILTSTONE</u> Broken and clayey yellow-brown medium grained tuff, with minor unweathered interbedded light and dark grey medium grained calcareous siltstone patches. B.C.A. 70°.	CCF											
29.8	48.0	18.2	100	<u>CALCAREOUS TUFF AND SILTSTONE, MINOR AGGLOMERATE</u> Interbedded black siltstone, grey medium grained siltstone and light grey medium grained tuff, with minor coarse agglomerate bands at 38.3 - 38.4m, and 47.6 - 48.0m. Black siltstone is locally pyritic. The entire sequence is strongly calcareous. Minor calcite veins throughout. Calcite quartz vein at 47.5 - 47.6m is strongly fractured; driller reported water return lost here. B.C.A. 70°.	CCF											
48.0	54.5	6.5	100	<u>NON CALCAREOUS TUFF, MINOR SILTSTONE</u> Generally fine grained massive green-grey tuff, with minor coarser siltstone fragments near base and middle of the unit, with minor interbedded pale grey calcareous cherty siltstone and medium to coarse lithic tuff also near the middle of the unit. B.C.A. 60-70°.	CCF											
54.5	56.5	2.0	100	<u>INTERBEDDED SILTSTONE(70%) AND TUFF (30%)</u> Interbedded light grey, green-grey and grey fine to medium grained locally calcareous siltstone and fine to medium grained lithic tuff. Gradational base. B.C.A. = 60° - 70°.	CCF											
56.5	70.6	14.1	100	<u>AGGLOMERATE, MINOR SILTSTONE</u> Massive coarse grained silty agglomerate containing angular siltstone, tuff and volcanic? fragments up to 2cm in a black calcareous siltstone matrix. Minor massive dark grey siltstone beds	CCF											

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## DIAMOND DRILL RECORD

HOLE NUMBER : S697

LOGGED BY : LDB

INTERVAL (m)		RECOVERY		DESCRIPTION	FORM.	% Sn.										
FROM	TO	m	%			FROM	TO	TOTAL	ACID SOL.	% Cu.	% As.	% S.	% Pb.	% Zn.	% Bi.	g/t Ag
				Fragments are locally partly replaced by pyrite. Minor carbonate - pyrite veins.												
70.6	85.9	15.3	100	<u>CALCAREOUS SILTSTONES, MINOR AGGLOMERATE AND TUFF</u> Interbedded dark and light grey calcareous siltstone, with minor coarse agglomerate interbeds near top of unit. Medium grained massive grey to green-grey tuff beds occur sporadically. Sparse carbonate veins. Trace disseminated pyrite. B.C.A. 70°.	CCF											
85.9	86.2	0.3	100	<u>FAULT ZONE</u> Brecciated siltstone infilled by carbonate, with locally abundant finely disseminated brown sphalerite and traces of galena. Trend of structure ~30° to C.A.	F											
86.2	90.5	4.3	100	<u>TUFF</u> Indistinctly bedded green-grey medium grained calcareous tuff. Minor calcite veinlets. B.C.A. 70°.	CCF											
90.5	104.3	13.8	100	<u>INTERBEDDED TUFF AND SILTSTONE</u> Interbedded calcareous light and dark grey locally pyritic fine grained siltstone and grey fine-medium grained calcareous tuff. Minor calcite veins throughout. 4cm thick calcite vein at 96.4 - 96.9m (at 30° to C.A.) contains common rock fragments. Sparse disseminated pyrrhotite at base of some tuff beds. BCA 60° - 70°.	CCF											
104.3	116.7	12.4	100	<u>INTERBEDDED SILTSTONES</u> Interbedded light grey, grey, and black calcareous and green-grey and black non calcareous cherty siltstones. Minor disseminated pyrite and pyrrhotite. Minor calcite veins throughout. BCA 70°.	CCF											
116.7	119.1	2.4	100	<u>BRECCIATED TUFF/SILTSTONE</u> Weakly to intensely brecciated dark grey calcareous siltstone, and green-grey fine grained calcareous tuff. Calcite infills breccia.	F?											
119.1	161.3	42.2	100	<u>INTERBEDDED SILTSTONE AND TUFF</u> Interbedded light grey and dark grey locally pyritic calcareous siltstone, and light grey to green-grey calcareous fine to medium grained tuff. Minor breccia zone. Minor to common calcite veins. Brecciated base. Trace to minor disseminated pyrite. BCA 60° - 70°.	CCF											
161.3	171.0	9.7	100	<u>CALCAREOUS SILTSTONES</u> Light to mid grey fine grained interbedded calcareous siltstones. (~70:30). Sparse carbonate veins, some with small displacements	CCF											

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## DIAMOND DRILL RECORD

HOLE NUMBER : 5697

LOGGED BY : LDB

INTERVAL (m)		RECOVERY		DESCRIPTION	FORM	% Sn.											
FROM	TO	m	%			FROM	TO	TOTAL	ACID SOL.	% Cu.	% As.	% S.	% Pb.	% Zn.	% Bi.	g/t Ag	% WO <sub>3</sub>
220.5	222.4	1.9	100	<u>?TUFF AND BLACK SHALE</u>	RRM?												
				Interbedded green-grey fine to medium grained silty tuff, and black shale. Rocks are well veined by cream carbonate in anastomosing veins. B.C.A. = 60° at 220.9m.													
222.4	222.6	0.2	100	<u>BRECCIA</u>	F?												
				Extremely broken and slightly clayey brecciated ?tuff (green-grey, fine grained) with locally abundant carbonate veins, and sparse pyrite. Fractures are locally slickensided. Sharp planar base, w80 to C.A.													
222.6	226.3	3.7	100	<u>TUFF</u>	RRM												
				Medium grained massive grey-green tuff becoming darker and cherty towards end of unit. Fine white carbonate veins common. No distinct bedding.													
226.3	233.0	3.7	100	<u>CHERT, SILTSTONE</u>	RRM												
				Red to pink massive chert, and pink to grey silty chert, and grey-green to pink-grey chert. Laminated siltstone. Rocks are brecciated and veined by carbonate 228.1 - 229.6m. Minor calcareous chert near top of unit. Carbonate veins and sparse pyrite occur throughout. BCA 70° - 80°.													
233.0	234.9	1.9	100	<u>CHERT, SILTSTONE</u>	RRM												
				Massive dark pink-grey chert interbedded with massive dark grey cherty-siltstone and massive light green-grey cherty siltstone. Minor blebs of pyrite and pyrrhotite 234.0 - 234.9m. Base sharp, marked by irregular aggregate of milky quartz. BCA 80°.													
234.9	237.7	2.8	100	<u>CHERTY SILTSTONE, MINOR CHERT AND TUFF</u>	RRM												
				Laminated green-grey cherty siltstone with minor medium to coarse grained lithic tuff horizons, and dark grey-red chert bands. Minor slumping and microfaulting sparse carbonate veins. BCA 80°.													
237.7	239.1	1.4	100	<u>CHERTY SILTSTONE, MINOR TUFF</u>	RRM												
				Laminated light grey to dark grey cherty siltstone with minor medium grained tuff horizons. Minor slumping, associated with graphite veins. Sparse carbonate veins. BCA = 70° - 80°.													
239.1	239.3	0.2	100	<u>VEIN</u>	F?	239.1	239.3	<0.01	0.01	0.05	0.1	5.6	1.72	0.22	0.003	145	0.01
				Carbonate - quartz - galena - minor pyrite and rock fragments vein, VCA = 70°. Vuggy and leached near middle of unit. Moderately broken.													

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DIAMOND DRILL RECORD

HOLE NUMBER : S697

LOGGED BY : LDB

HWFS

INTERVAL (m)		RECOVERY		DESCRIPTION	FORM	% Sn.										
FROM	TO	m	%			FROM	TO	TOTAL	ACID SOL.	% Cu.	% As.	% S.	% Pb.	% Zn.	% Bi.	g/t Ag
				weakly stylonitic dolomite bands. Diffuse base. Minor microfaulting. Sparse quartz veins. Sparse disseminated pyrite. BCA = 70° - 80°.												
298.7	324.7	26.0	100	<u>SILTSTONE AND QUARTZITE</u> Interbedded dark grey carbonaceous siltstone, light grey siliceous siltstone and mid grey fine to medium grained quartzite. Microfaulting and slumping common. Quartz veins occur throughout. Sparse disseminated pyrite. BCA = 70° - 80°.	DM											
324.7	327.9	3.2	100	<u>QUARTZITE, MINOR SILTSTONE</u> Mid grey to brown grey medium to coarse (slightly gritty) quartzite, interbedded with mid grey medium grained siltstone. Quartzite appears microfractured throughout, and veined by fine veinlets of a dark mineral. Minor quartzite. Locally abundant disseminated pyrite, but generally trace pyrite only. BCA = 80°.	DM											
327.9	349.7	21.8	100	<u>SILTSTONE AND QUARTZITE</u> Interbedded fine grained dark grey to black carbonaceous siltstone, light grey siliceous siltstone, and mid grey medium grained quartzite. Quartz-carbonate veins common. Microfaulting and slumping frequent. BCA 60° - 80°.	DM											
349.7	356.0	6.3	100	<u>SILTSTONE, QUARTZITE, MINOR GRIT</u> Interbedded black and dark grey carbonaceous siltstone, light grey fine grained siliceous and fine to coarse grained (gritty) quartzite. Gritty portions tend to be strongly calcareous. Slumping and contorted bedding throughout. BCA highly variable. Minor graphite on joints. Sparse carbonate - quartz veins. Trace pyrite.	DM											
				END OF HOLE AT 356.0m.												

881034

RENISON LIMITED  
DIAMOND DRILL HOLE PLOT

SCALE:

HOLE No.: s 697

PETROLOGICAL DESCRIPTION

REPORT CMS 81/2/1

SAMPLE NO.

CLASSIFICATION - COMPOSITION

FABRIC

ACCESSORIES

COMMENTS

220.0m  
(T.S. 35978)

Quartz-Carbonate Rock. Vein-type quartz, subordinate sideritic carbonate, disseminated sphalerite, galena, chalcopyrite, pyritised pyrrhotite. Late films calcite, chlorite, carbonaceous matter.

Stressed to locally granulated. Partly quartz-healed. Late microfractures.

Sporadic films (to 300 u x 4mm), clots (to 300 u x 400 u) native silver.

Stressed, granulated, fractured quartz-carbonate vein material. Silver heals late fractures, microfractures with calcite, chalcopyrite, chlorite.

220.2m

Quartz-Carbonate Rock. Vein-type quartz with sporadic aggregates, single sparry grains, bands of sideritic carbonate. Sparse galena, pyrite and chalcopyrite disseminations, films.

Mildly stressed. Semi-ubiquitous, quartz-healed microfractures, calcite films in siderite.

Bare sphalerite. Extremely rare silver.

Affinities with 220.0m, but relatively undeformed. Bulk of sulphide (with rare silver) as ultrafine films with calcite on fractures, cleavage, in siderite.

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