RENISON LIMITED - DRILL CORE RECORD

727015

014

HOLE NUMBER	B947
PURPOSE	To test mineralised conglomerate intersected in S764, adjacent to Grand Prize Fault.
LOCATION	Grand Prize Hill
COLLAR R.L.	2428.518
CO-ORDINATES	14191.6N 13387.4E
LENGTH	390.5m
HOLE SIZE	0-156m HQ; reamed HQ-171.0m 156-260.3m HQ; reamed NQ-363.0m 260.3-390.5m BQ;
DATE DRILLED	21/1/82 - 3/3/82
SIGNIFICANT CORE LOSS ZONES	298.8 - 299.0m: 0.1m (50%) lost 320.3 - 322.6m: 2.1m (98%) lost 323.0 - 324.5m: 0.8m (51%) lost 367.1 - 390.0m: 18.9m (81%) lost
ORE ZONE GROUND CONDITIONS	
LOGGED BY	L.D. BOND

SURVEY Depth	SURVEY Bearing	SURVEY Dip	From - To	Distance D	VERTICAL D.Sin.Dip	VERTICAL R.L.	HORIZONTAL D.Cos.Dip	HORIZONTAL Prog. Total
collar	117°44'31"	-76°46'27"	0.0-7.5	7.5				
15.0m	121°	-76.75°	-42.0	34.5				
69.0m	118°	-78.5°	-91.5	49.5				
114.0m	111°	-79.5°	-130.0	48.5				
146.0m	111°	-81°	-159.0	29.0				
172.0m	§ 107° in rods	-80.25°	-200.0	41.0				
(213.0m*	197°	-81°)						
228.0m	103°	-81°	-244.0	44.0				
260.0m	101°	-81°	-271.5	27.5				
283.0m	96°	-81.5°	-301.0	20.5				
329.0m	§ 85°?	-81.25°	-333.0	32.0				
347.0m	77°?	-80°	-366.0	33.0				
385.0m	§ 68°?	-79.25°	-390.5	24.5				

§ Survey in rods: bearing extrapolated/interpolated.
* Disregard survey.

COMMENTS

Hole abandoned at 390.5m in very difficult ground: broken, sandy, poor water return.
To be continued? 171.0m HQ, 363m NQ rods remain in hole.
Sequence interpretted as:
0.0 - 209.9 Brevery Junction Fmtn
209.9 - 279.9m Razorback Conglomerate
279.9 - 390.5m Hodge Slate

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.
Fault?	160.9	161.8	0.9	<0.01	0.01	0.19	<0.1	29.6	0.90	1.10	0.008	<0.01	35				

NWPS 27344

HOLE No S 947

SCALE: 0 40 80 metres

RENISON LIMITED

DIAMOND DRILL HOLE PLOT

5 cm

DIAMOND DRILL RECORD

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LOGGED BY : L.D.BOND

016

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
0.0	134.7	131.2	97.4	SILTSTONE + TUFF/SANDSTONE	dG												
				Interbedded fine to medium grained weakly laminated grey, green-grey & purple grey siltstone and purple-grey to green-grey fine to medium gra medium grained tuffaceous lithic sandstone, containing subangular tabular fragments locally with a distinct preferred orientation parallel to bedding; some grading evident.													
				Units are up to 1.5m thick, but average 10-20cm. Minor disrupted bedding.													
				High core loss in first metre or so, thereafter recovery is good except in quartz veins (see below). Rocks are locally clayey & ironstained on bands up to 20cm thick occur sporadically, but decrease in abundance towards the end of the unit.													
				BCA consistently 40°-45°													
				Minor quartz veining occurs at 32m, 85-86m, 100.4m (poorly recovered) and traces of pyrite occur in joints, becoming slightly more common with depth.													
				Ground is particularly broken, & clayey between 83.3 & 86.1m with some shearing? apparent at about 84.2m; approx 40° to CA.													
134.7	139.8	5.1	100	WEAKLY ALTERED SILTSTONES AND GRITTY SANDSTONES	DG												
				Generally purple-grey soft fine grained massive & weakly laminated siltstones interbedded with fine to coarse (gritty) green-grey sandstones, locally graded. Units are up to 20cm thick but average ~5cm. Patches up to 30cm of weak but pervasive alteration (pale greenish grey chlortisation?) occur throughout, but more commonly towards the base of the unit. Such altered zones appear softer and more broken than adjacent rock.												
				Leached dark green chlorite and quartz coat joints, whilst fine grained earthy and specular hematite occur in joints sporadically. Traces of drusy fine grained pyrite "framboids" occur occasionally.													
				BCA = 45°.													
139.8	160.9	17.3	82.0	BROKEN, LEACHED AND ALTERED SILTSTONE & GRITS	DG												
				Light green-grey fine grained locally laminated soft siltstone interbedded with fine to medium grained & gritty green sandstone in units up to 15cm thick. In generally the rock appears chloritised, with greatest intensity near upper & lower contacts; near the upper contact rocks appear fractured to brecciated, with some shearing. Chlorite + hematite coat joints 139.8-144.0m, with some												

DIAMOND DRILL RECORD

HOLE NUMBER : S 947

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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
				sheared quartz veins evident. Near bottom contact, the rocks are too broken to defect any tectonic textures.													
				From 155.7m, the rocks are extremely broken (moderately to strongly broken elsewhere) with some clay zones (evidently thoroughly altered siltstone) and core loss is high. (recovery ~ 60%) BCA ≈ 40°.													
160.9	161.8	0.8	89	MASSIVE SULPHIDE	VEIN/	160.9	161.8	<0.01	0.01	0.19	<0.1	39.6	0.90	1.10	0.008	35	<0.01
				Massive fine to medium grained crystalline pyrite, with buff	FAULT		162.8	<0.01	0.01	0.17	<0.1	6.4	0.90	2.70	0.003	9	<0.01
				carbonate gangue. Minor to common sphalerite and galena throughout			163.8	<0.01	<0.01	0.01	<0.1	0.5	0.06	0.12	0.005	1	<0.01
				Several 2cm corroded sphalerite crystals at 161.5m. Rock locally			164.8	<0.01	0.01	0.01	<0.1	0.2	0.07	0.21	0.004	1	<0.01
				weakly to strongly leached, with broken patches 161.3-161.5m, and			165.8	<0.01	<0.01	0.01	<0.1	0.2	0.02	1.24	0.003	1	<0.01
				161.6-161.8m. Contacts sharp but irregular, at about 40° to CA.			166.8	<0.01	<0.01	<0.01	<0.1	<0.1	0.04	0.21	0.005	1	<0.01
							167.8	<0.01	<0.01	<0.01	<0.1	<0.1	0.03	0.12	0.003	1	<0.01
161.8	176.8	14.7	98	BROKEN, LEACHED, and CLAYEY SILTSTONE and MINOR GRIT	DG		168.8	<0.01	<0.01	0.01	<0.1	<0.1	0.02	0.19	0.004	1	<0.01
				Grey to green-grey fine grained to medium grained siltstone			169.8	<0.01	0.01	0.01	<0.1	0.9	0.26	1.74	0.004	3	<0.01
				interbedded with fine to medium grained tuffaceous(?) sandstone,			170.8	<0.01	0.01	0.02	<0.1	1.4	0.17	3.18	0.002	3	<0.01
				with minor medium to coarse grained grits. Rocks are pervasively			171.8	<0.01	0.01	0.01	<0.1	0.1	0.10	0.40	0.001	2	<0.01
				brecciated, locally with a green-grey clay infilling which has			172.8	<0.01	0.01	0.01	<0.1	0.3	0.04	0.24	0.002	2	<0.01
				resulted in very to extremely broken core.			173.8	<0.01	0.01	0.01	<0.1	0.4	0.14	0.73	0.002	2	<0.01
				Bleached, leached, and clayey zones up 1.5m appear to occur			174.8	<0.01	0.01	<0.01	<0.1	0.1	0.15	0.43	0.004	2	<0.01
				around quartz veins and contain sparse to minor leached pyrite.			175.8	<0.01	0.01	0.01	<0.1	0.3	0.09	0.36	0.004	2	<0.01
				Some of these zones appear to be altered (originally calcareous?)			176.8	<0.01	0.01	0.01	<0.1	0.3	0.04	0.82	0.003	2	<0.01
				grits.													
176.8	192.5	15.6	99	SILTSTONE & SANDSTONE	DG												
				Fine grained to medium grained green-grey siltstone interbedded													
				with fine to coarse grained sandstone in graded beds which tend													
				to become coarser towards the end of the unit. Patches of broken and													
				/or clayey rock occur sporadically but become less common towards													
				the end of the unit. Sparse leached carbonate veins. Minor medium grit beds													
				near top and bottom of unit appear similar in composition to the													
				following unit.													
				Base of unit is gradational.													
				BCA 40°.													
192.5	208.3	15.8	100	GRITTY SANDSTONE, CONGLOMERATE and MINOR SILTSTONE	DG												
				Interbedded and intergrading medium to coarse and gritty sandstone													
				& fine to medium grained conglomerate containing angular to subangular													
				quartz, quartzite, chert, siltstone & volcanics, with minor coarse													
				"soft pebbles" of siltstone (up to 2cm long) in a sand/silt matrix,													
				and all interbedded with minor medium to coarse (sandy) green-grey													
				siltstone. Rock is only moderately broken, becoming more broken													

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NWPB

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
				& clayey near base. BCA varies from 30° to 45° (possibly cross bedding in sandy beds).													
208.3	209.2	0.9	100	GRAVEL & CLAY Apparently strongly altered fine to medium grained conglomerate in a sandy clay matrix. Clasts appear subrounded to subangular, well washed by drilling.													
209.2	209.9	0.7	100	SILTSTONE, SANDSTONE Grey-green medium grained to sandy siltstone grading into silty sandstone with minor pebbly beds becoming more abundant near base. Minor broken & gravelly pebbly band at 209.6m. Gradational base. BCA = 40°.													
209.9	279.9	70.0	100	CONGLOMERATE, minor SILTSTONE & SANDSTONE Moderately well sorted to poorly sorted fine to very coarse grained conglomerate composed of generally angular, to subrounded (large clasts) fragments of chert, quartz, siltstone & acid to intermediate volcanics (lavas & tuffs) in a grey green silty sand matrix. Matrix comprises 20-40% of rock. Conglomerate appears to be locally weakly graded (facing?-fining-uphole) with some angular "soft pebbles" of siltstone (up to 5cm) near tops of individual units. Minor interbedded sandy siltstone to pebbly silty sandstone, beds up to 1.5m thick occur sporadically. Patches of ferruginous alteration occur sporadically, & in these patches some clasts appear to have been selectively leached or argillised. Traces of pyrite & chlorite occur in joints & fractures, becoming slightly more common with depth. BCA = 40°-45° in silty interbeds. Base is broken, but appears quite sharp.												
279.9	298.8	18.9	100	GREY FINE GRAINED SILTSTONE with SANDY SILTSTONE INTERBEDS Light grey, fine grained weakly laminated siltstone with a slightly cherty appearance, interbedded (to interlaminated) with sandy (clayey weathered) cream-brown to grey siltstone, containing minor to locally common pyrite blebs. Minor pyrite on joints. Rocks are moderately well jointed, with joints at 30°-10° to core axis; BCA = 40°. Ground is increasingly broken from 280m onward. Ground is bleached and ironstained 298.7-298.8m	HODGE SLATE?												

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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
298.8	299.0	0.1	50	GOSSAN/BRECCIA	VEIN?												
				Essentially massive goethite infilling a clayey siltstone-breccia. Minor aggregates of relict pyrite. Contacts not recovered.													
299.0	367.1	64.1	94.1	BROKEN to EXTREMELY BROKEN SILTSTONE	HODGE												
				Similar rock to 279.9-298.8m, but "coarse grained" silty interbeds	SLATE												
				are dark red brown (phlogopitised?) and clayey apparently washing out during drilling. This fact plus extreme jointing has produced very broken ground; from 320.3-322.6m, the ground is extremely broken and clayey-gravelly, with high core loss (~5cm:2.2% recovered). Between 323m and 324.5m ground is similarly gravelly and clayey with minor pyrite grains throughout, with only 0.7m (47%) recovered. Between 353 and 367.1m, the only material recovered is small small sections of core (~2cm long), & redrilled rubble, with a total of 3.2m (23%) recovered.												
				Base is very poorly recovered, & is estimated only. BCA 40^{0} throughout.													
367.1	375.4	0.3	3.6	LEACHED BRECCIA/VEIN	VEIN?												
				Small (~1cm) fragments of siltstone in a white clay/minor quartz sludge. Probably a thoroughly leached carbonate-filled breccia. No trace of sulphide, no iron staining.													
375.4	390.5	4.2	28	BROKEN SILTSTONE & TUFF?	DG												
				Moderately to extremely broken dark brown massive & weakly laminated siltstone, interbedded with thin (~4cm) beds of spotted (altered?) tuff. Minor leached & clayey bands.													
				Hole was cemented at 390.5 back to ~365m; the new hole ran off the cement at ~370m, & the core recovered from 370-376.5m is much more competent; with 3.2m recovered (49%). Hole encountered similarly broken ground to previous between 376.5 & 389m, forcing the eventual abandoning of the hole.													
				BCA in "redrilled" section = 40^{0}-50^{0}.													
				END OF HOLE at 390.5m													