RENISON LIMITED
DRILL CORE RECORD
HOLE NO. S1026

LOCATION	: DUNKLEY TOWN AREA.	LENGTH	: 766.50 m.
PURPOSE	: TO TEST MINE SEQUENCE AND FEDERAL	DATE COMMENCED	: 21/07/82
COLLAR RL	: 2194.85 m.	DATE COMPLETED	: 27/08/82
NORTHING	: 21606.19 m.	LOGGED BY	: D. KILPATRICK
EASTING	: 15141.66 m.	WATER LEVEL	:

HOLE SIZE

FROM	TO	SIZE
0.00	120.00	HQ
120.00	273.00	NQ
273.00	766.50	BQ

SIGNIFICANT CORE LOSS ZONES

FROM	TO	% LOSS
0.00	14.20	98
14.20	44.60	35

ORE ZONE GROUND CONDITIONS

ZONE	MECHANICAL STATE	HANGING WALL

S1026 WAS DESIGNED TO INTERSECT THE FEDERAL STRUCTURE AT RL1650 APPROX. 200m DOWNDIP FROM THE 'SUCCESS' WORKINGS. A SMALL UNMINERALISED FAULT ZONE WAS RECORDED IN THE ANTICIPATED POSITION OF THE FEDERAL FAULT AND INTERPRETED AS SAME. THE HOLE PASSED FROM CCF INTO DM THROUGH THIS STRUCTURE AND ENCOUNTED NO OBSERVABLE MINE SEQUENCE. A 4.5M DOLOMITIC UNIT WAS RECORDED AT 548.0M DOWNHOLE. THIS WAS UNMINERALISED.

SURVEY DATA

SURVEY DEPTH (M)	BEARING (DEG)	GRID TYPE	DIP (DEG)	DIP TYPE	REMARKS
0.00	244.30	MINE	-64.00		BEARING SET TO ALLOW FOR CONSIDERABLE SOUTH TO
60.00	240.00	MINE	-67.00		NORTH SWING SEEN IN ADJACENT HOLES. MOST HOLES
120.00	237.00	MINE	-67.70		ALSO SHOW APPRECIABLE LIFT. HOWEVER HOLE DRIFTED
160.00	237.00	MINE	-66.80		TO SOUTH AND STEEPENED OVER FIRST 120M. REDUCED
193.00	239.00	MINE	-66.00		TO NQ AT 120M TO HELP LIFT AND SWING.
244.00	241.00	MINE	-65.30		REDUCED TO BQ AT 273M TO HELP LIFT AND SWING.
295.00	241.50	MINE	-65.20		CHANGED FROM IMPREGNATED FLAT-FACE BIT TO 7-STAGE
328.00	245.00	MINE	-65.20		MULTISTEP TO ALLOW MORE SWING
388.00	249.00	MINE	-59.30		
433.00	249.00	MINE	-51.80		CHANGED FROM MULTISTEP TO FLAT-FACE BIT AT 436M
466.00	249.00	MINE	-51.60		TO STOP LIFT
505.00	250.00	MINE	-51.90		
550.00	249.00	MINE	-51.80		
598.00	249.00	MINE	-51.30		
727.00	251.00	MINE	-51.00		
766.00	250.00	MINE	-50.00		

FLAG DEPTH	RECOVERED THICKNESS	% REC	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA	STRAT
7.60	0.20	2.6	FLUVIO-GLACIALS	FLUVIO- GLACIALS: light grey - brownish cream, fine grained, agglomeratic quartzose, hard, pebbly, poorly sorted, subrounded, tabular, sharp base pebble and cobbles of quartzite-no matrix or cement.	FG
14.20	2.50	37.9	MUDSTONE	MUDSTONE: orange brown - yellow, fine grained, ferruginous, oxidised, highly weathered, very soft, uneven fracture, silty, indistinctly bedded, fine bedding, minor manganese oxides on joints, B.C.A.= 52 degrees, sharp base, very broken core. Rad <10%.	CCF
62.20	36.70	76.5	SILTSTONE	SILTSTONE: greenish grey - dark grey, fine grained, pinitized, spotted, slightly weathered, moderately soft, uneven fracture, muddy, fine bedding medium bedding alteration near the start of the unit, accessory manganese oxides in fractures, B.C.A.= 52 degrees, sharp base, bands of cherty crimson mudstone and fine siltstone up to 8m thick above 37m. Some horizons of black often very broken pyrite bearing rock (?siltstone) at 50 metres.	CCF
109.10	46.90	100.0	LITHIC TUFF	LITHIC TUFF: dark greenish grey, fine to coarse grained, agglomeratic, massive, hard, uneven fracture, turbiditic, coarse bedding, irregular bedding, common calcite, minor quartz in bands and veins, B.C.A.= 60 degrees, sharp planar base, core contains clasts and floaters of dark grey siltstone and occasional interbanded siltstone horizons at top and base.	CCF
322.60	213.50	100.0	SILTSTONE	SILTSTONE: green - crimson, fine to medium grained, siliceous, ?tuffaceous, hard, even fracture, turbiditic, fine bedding, cross bedding minor pyrite finely interbedded near top of unit, B.C.A.= 60 degrees, minor joints parallel to bedding, bca ranges from 65 to 75 deg in upper part of unit and 50 to 60 deg in the middle and lower sections. The upper 15m is spotted probably a metamorphic texture although the core is only slightly indurated. The upper zone also hosts dark bluish-black shale beds not seen elsewhere. The upper contact is slumped and brecciated at the contact, and also between 319.5 and 320.4m. Calcite veining and tension gashes more common in lower part of unit. Dark grey-black band of altered slumped ?tuffaceous siltstone with abundant calcite veining occurs between 227.2 and 231.0m. The core has more tuffaceous horizons below this level eg. 263.4-266.9m. The core between 248-262m. Is often strongly crossbedded. Slumping, occasional carbonate infilling more common towards base. Shear planes often graphite filled below 270m, and core becomes more massive with less obvious bedding. Quite broken between 319.5-321.5m.	CCF
324.40	1.80	100.0	CARBONATE	CARBONATE: cream - grey, fine to coarse grained, sheared, silty, hard, fractured, infilling, fragmented bedding, common galena, sphalerite,	CCF?

FLAG	DEPTH	RECOVERED THICKNESS	% REC	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA	STRAT
					pyrite, minor pyrrhotite bands, accessory and blebs, sharp planar base, one 20cm section has 0.30%sn (analyser).	
	330.90	6.50	100.0	LITHIC TUFF	LITHIC TUFF: dark grey, medium to coarse grained, tuffaceous, carbonaceous, hard, uneven fracture, turbiditic, massive bedding, common pyrite, chalcopyrite blebs replacing, sharp planar base, pyrite replacing carbonaceous clasts and matrix. Base is veined and sheared.	CCF?
	383.10	52.20	100.0	CARBONACEOUS SILTSTONE	CARBONACEOUS SILTSTONE: dark greenish grey - grey, fine to medium grained lithic, hard, uneven fracture, banded, fine bedding, irregular bedding, common calcite in fractures veins, B.C.A.= 70 degrees, gradational base, common oblique joints. Bands include - SEDIMENTARY BRECCIA: thickness 1.60 m., base at 378.80 m., dark greenish grey, fine to coarse grained, sheared, hard, uneven fracture, fluidal texture, slumped bedding, disturbed and disrupted bedding, sharp irregular base. SHALE: thickness 2.10 m., base at 383.10 m., dark grey - blue, fine grained, sheared, siliceous, hard, reworked, indistinctly bedded, common calcite, minor pyrite in fractures veins, gradational base.	CCF
	401.00	17.90	100.0	LITHIC TUFF	LITHIC TUFF: greenish grey - dark grey, fine to coarse grained, calcareous, ?tuffaceous, hard, uneven fracture, turbiditic, fine bedding, becoming finer towards the end of the unit, minor calcite, pyrite veins in fractures, poorly sorted, no contact, subangular, tabular, B.C.A.= 75 degrees, sharp planar base, the core contains clasts of tuffaceous and carbonaceous material some of which has been partly or totally replaced by very fine grained yellow or yellow brown ?pyrite. Bands containing no clasts are interbedded with the agglomeratic horizons. These are medium grain tuffaceous calcareous bands.	CCF
	520.50	119.50	100.0	SILTSTONE	SILTSTONE: greenish grey - dark grey, fine to medium grained, carbonaceous, ?tuffaceous, hard, poorly bedded, banding, minor calcite, pyrite in veins and disseminations, B.C.A.= 75 degrees, sharp planar base. the upper part of this unit contains a number of tuffaceous horizons and is generally dark grey in colour.cross bedding decreases with depth and the core becomes banded grey-green and grey with gradational contacts. The bands are subparallel to and may be related to bedding. Toward the base there are a number of coarse grained,possibly recrystallized carbonaceous horizons with pale blue grey calcareous spots, lenses and sometimes laths. Pyrite is more common in this zone occuring as interbeds disseminations and veins. Below 514.9m the core shows slumping and brecciation. B.C.A. of this zone is irregular and as low as 30 deg.	CCF

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FLAG	DEPTH	RECOVERED THICKNESS	% REC	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA	STRAT
	526.90	6.40	100.0	SHEARED ROCK	SHEARED ROCK: light grey - yellowish grey, fine to coarse grained, chloritized, silicified, hard, uneven fracture, silty, brecciated, reworked, locally abundant dolomite, minor pyrite in bands and veins stringers, B.C.A.= 70 degrees, gradational base, core is quite broken in middle section.	CCF?
	543.50	16.60	100.0	SILTSTONE	SILTSTONE throughout: dark purplish grey - dark grey, fine grained, lithic, shaley, hard, even fracture, turbiditic, fine beddins, well bedded, common pyrite, calcite, and, minor dolomite bands in veins and disseminations, B.C.A.= 55 degrees, sharp planar base, common joints parallel to bedding.	CCF?
	548.00	4.50	100.0	DOLOMITE	DOLOMITE: light grey, fine grained, non-crystalline, siliceous, hard, stylolitic, coarse beddins, becomins finer towards the end of the unit, common quartz, carbonate veins, B.C.A.= 55 degrees, sharp planar base.	CCF?
	681.50	133.50	100.0	SILTSTONE	SILTSTONE: dark grey, fine grained, lithic, shaley, hard, even fracture, turbiditic, fine beddins, slumpins and microfaultins, minor pyrite finely interbedded, B.C.A.= 40 degrees, sharp planar base, common oblique joints sandstone horizons more common towards base.	CCF?
	682.20	0.70	100.0	?FAULT	?FAULT: light greenish cream - light grey, fine to coarse grained, sericitized, siliceous, moderately soft, uneven fracture, competent, sheared, slumpins and microfaultins, common chlorite, and, minor pyrite intermixed, sharp planar base, minor joints, B.C.A. varies considerably from 30-60deg. B.C.A. at base is 65 deg.	FED?
	766.50	84.30	100.0	SILTSTONE	SILTSTONE: dark grey, fine to medium grained, lithic, sandy, hard, uneven fracture, competent, turbiditic, graded beddins, slumpins and microfaultins, sparse carbonate veinlets, B.C.A.= 35 degrees, some overturnins is apparent as.696.8-697.5 metres, but graded beddins suggest unit is facins up.grainsize varies from fine dark grey silt to white or pale grey fine sandstone and the sequence is repeated over an average interval of 0.5 to 1.0m. Some blebs and interlaminated lenses of pyrite between 730-735m. Last 6m is quartzite with stylolitic veinlets and minor pyrite replacing fine grained lamellae-tin barren.	DM

END OF HOLE at 766.50m.

RENISON LIMITED

STRAT	FROM (M)	TO (M)	Cutoff	Sn (%)	ANL Sn (%)	SOL Sn (%)	Cu (%)	Pb (%)	Zn (%)	Ag (G/T)	Bi (%)	As (%)	WO3 (%)	S (%)	Sb (%)
CCF	322.00	323.00			0.02										
CCF		324.00													
CCF		325.00			0.01										
CCF		326.00			0.02										
CCF		327.00			0.03										
CCF		328.00			0.02										
CCF		329.00			0.02										
CCF		330.00			0.05										
CCF		331.00			0.02										
CCF	520.50	521.50			0.07										
CCF		522.50			0.08										
CCF		523.50			0.03										
CCF		524.50			0.02										
CCF		525.50			0.03										
CCF		526.50			0.04										
CCF		527.50			0.06										
CCF		528.50			0.03										
CCF		529.50			0.05										
CCF		530.50			0.05										
CCF	543.50	544.50			0.06										
CCF		545.50			0.05										
CCF		546.50			0.07										
CCF		547.50			0.04										
CCF		547.90			0.04										
FED	681.50	682.10		<0.01		<0.01	<0.01	0.01	0.05	3.	0.002	<0.10	<0.01	1.00	