

775001

**MICROFILMED**

RENISON

QUARTERLY REPORT - EL. 42/71

Period till MAY 82

P. STEPHENSON

82 - 1762

**OPEN FILE**

3 - JUN 1982

82-1762.

RENISON LIMITEDEL 42/71

of M	A.D.	D.A.	E.O.	DEAD
Received	3 JUN 1982			RECEIVED
Answered				
REP. NO.	4193/82			
DEPT. OF MINES				

QUARTERLY REPORT FOR THE 3 MONTHS ENDING 23/5/82INTRODUCTION

EL 42/71 covers an area South and West of Renison's Mining Lease. The Western portion is referred to as the Argent Area, while the Southern area includes the Grand Prize Mining Leases.

GEOLOGY

The area is underlain by Lower Cambrian sediments which host the Renison and Razorback tin deposits and in view of its proximity to both these mines, it is considered to have good potential for the discovery of stanniferous hydrothermal deposits.

PREVIOUS WORK

Parts of the area have been the subject of exploration by various companies over many years. Renison has been conducting continuous exploration programmes since 1971.

For further details on geology and previous work, the reader is referred to the 1980/81 Annual Report.

WORK COMPLETED IN THE QUARTER ENDING 23/5/821. ARGENT AREA

S966, a vertical diamond drill hole located 2 km west of the Argent Dam (see accompanying map), was completed at 547.1m. The hole was collared in Crimson Creek Formation rocks, and was designed to test geophysical and geochemical anomalies, and to test for mineralisation within the Renison Mine Sequence. At approximately 420m, the hole intersected a major fault, passing from Crimson Creek Formation tuffs and siltstones into Dalcoath Member siltstones and quartzites, thus missing the Renison Mine Sequence. The fault contained minor sulphide mineralisation, however no assay results are available at present. The geochemical and geophysical anomalies were probably caused by above background levels of base metals and magnetite within the Crimson Creek Formation tuffs, a property common to these rocks in the Renison area. A drill log and dip profile of S966 are attached.

Expenditure \$33,750

2. GRAND PRIZE AREA

Drilling recommenced on S947 using a larger capacity rig, towards the end of March. Progress has been very slow however, and the hole is now at 535m.

82-1762.

Units intersected to date comprise:-

- 0.0 - 209.9m - Brewery Junction siltstones and grits
- 209.9 - 279.9m - Razorback Conglomerate
- 279.9 - 461.0m - Hodge Slate
- 461.0 - 535.0m - Grand Prize Fault Zone

The section from 461.0m to the current end of hole comprises brecciated and broken siltstone and conglomerate with sulphide mineralisation (arsenopyrite - chalcopyrite - ? stannite and pyrite - pyrrhotite ± galena - sphalerite) in concentrations ranging from sparse veinlets to massive veins. The last 20-30m is only weakly mineralised, but extremely broken, and is again causing drilling problems. No assay results on the mineralisation are available as yet.

Expenditure \$18,465

WORK PLANNED FOR THE QUARTER ENDING 23/8/82

1. ARGENT AREA

A 700 - 800m diamond drill hole is planned for late May - early June, located in the Dunkley town area, and designed to test the Northern extension of the Federal structure at a depth of approximately 500-600m below surface.

Following on from this, a similar hole is planned for July - August testing the Federal structure under the Owen Meredith - Bon Accord line of workings approximately 700m further north. Planned length of hole ~ 600m.

Budgetted expenditure \$90,000

2. GRAND PRIZE AREA

The current hole will continue through the Grand Prize fault zone, and the anticipated mineralised conglomerate bed in the footwall, and is expected to be completed at approximately 650m. A second hole, designed to test the same target further north is then planned. Approximate length 400m.

Budgetted expenditure \$45,000

The 1981/82 EL 42/71 Annual Report should be compiled towards the end of August.

ENCLOSED

1. 1:10,000 Geological Plan EL 42/71 showing current, completed and planned diamond drill holes.
2. Drill log and dip profile, S966.

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LIST NO: 20 JAN 82      IN: SP44 LOG      12 MAY 82      Pat Stephenson

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*****
REVISION LIMITED
DRILL LOGS RECORD
HOLE NO. SP44
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LOCATION      : ARGENT AREN.          LENGTH      : 547.10 M.
PURPOSE     : TO TEST MINE SEQUENCE DATE COMMENCED : 11/03/82
COLLAR RL   : 2347.70 M.           DATE COMPLETED : 24/03/82
NORTHING    : 18080.35 N.         LOGGED BY   : P. STEPHENSON
EASTING     : 17443.11 M.         WATER LEVEL :

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HOLE SIZE

SIGNIFICANT CORE LOSS ZONES

FROM	TO	SIZE	FROM	TO	% LOSS
0.00	70.00	NO			
70.00	547.10	BB			

ORE ZONE GROUND CONDITIONS

ZONE	MECHANICAL STATE	HANGING WALL

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ESP. NO. 0450 BUB

SP44 WAS DESIGNED TO TEST GEOPHYSICAL AND GEOCHEMICAL ANOMOLIES, AND TO TEST FOR MINERALISATION WITHIN THE RENISON MINE SEQUENCE. THE HOLE COLLARED IN CRINOID STREW FORMATION, PASSED THROUGH A FAULT BETWEEN 414.07 AND APPROX. 442.10, WHICH CUT OFF THE RENISON MINE SEQUENCE, AND WAS COMPLETED IN GOLDMINE MEMBER. THE LOWER PART OF THE CDF CONTAINED COMMON PYRITE FRAGMENTS. THE TOP 3M OF THE FAULT CONTAINED STRONG SULPHIDE CARBONACEOUS (RIFE) PYRITE, (MARCASITE) MINERALISATION. T1IN, RED BROWN SILTSTONES IN DALCOATH MEMBER.

SURVEY DATA

SURVEY DEPTH (M)	BEARING (DEG)	GRID TYPE	DIP (DEG)	DIP TYPE	REMARKS
0.00		MINE	-70.00		
77.00	286.00	MINE	-86.25		
121.00	289.00	MINE	-84.75		
185.00	305.00	MINE	-83.75		
245.00	285.00	MINE	-78.75		
305.00	283.00	MINE	-73.75		
365.00	282.00	MINE	-71.75		
425.00	285.00	MINE	-71.00		
485.00	287.00	MINE	-69.00		
545.00	293.00	MINE	-66.00		

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## RENISON LIMITED

BLAD DEPTH	RECOVERED THICKNESS	% REC	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA	STRAT
29.00	3.00	10.3	TUFF AND SILTSTONE	TUFF: YELLOW - BROWN, VERY BROKEN. SILTSTONE: YELLOW - BROWN, VERY BROKEN, B.C.A. = 45 DEGREES, EXTREMELY BROKEN CORE, ONLY RUMBLE PLUS A FEW PIECES OF CORE RECOVERED.  MINERALIZATION: ABUNDANT IRON OXIDES ON JOINTS. ROCK: SOFT, FRAGILE.	CCF
59.20	23.10	64.6	TUFF AND SILTSTONE	TUFF: BROWN - GREY, FINE GRAINED. SILTSTONE: BROWN - GREY INTERBEDDED, B.C.A. = 60 DEGREES. ROCK: LEACHED, FRACTURED, BROKEN.  MINERALIZATION: COMMON IRON OXIDES ON JOINTS; MINOR CALCITE VEINLETS.	CCF
82.20	33.00	100.0	TUFF AND SILTSTONE	TUFF: PURPLE - BROWN, FINE TO MEDIUM GRAINED. SILTSTONE: PURPLE - BROWN, FIRM, UNBROKEN, BANDED, B.C.A. = 60 DEGREES, MICROFAULTING, CROSS BEDDING , MINOR.  MINERALIZATION: ABUNDANT CALCITE, MINOR QUARTZ, TRENOLITE VEINS.	CCF
151.00	58.80	100.0	TUFF AND SILTSTONE	TUFF (70%): GREY - BROWNISH GREY, FINE TO MEDIUM GRAINED. SILTSTONE (30%): BROWN - GREY, CROSS BEDDING, MINOR B.C.A. = 40 DEGREES.  MINERALIZATION: COMMON CALCITE VEINS VEINLETS, MINOR CALCITE, ACTINOLITE VEINS, UP TO 5CM THICK.	CCF
189.30	38.30	100.0	TUFF	TUFF: GREY - GREENISH GREY, FINE TO MEDIUM GRAINED, MASSIVE, STEELY BEDDED, B.C.A. = 40 DEGREES, VERY MINOR SILTSTONES.  MINERALIZATION: COMMON CALCITE VEINS VEINLETS, TRACE PYRITE IN FRACTURES	CCF
189.40	0.10	100.0	?FAULT	?FAULT.	FT
229.00	38.60	100.0	TUFF AND SILTSTONE	TUFF (80%): LIGHT GREY - CREAMY GREY, FINE TO MEDIUM GRAINED. SILTSTONE (20%): LIGHT GRAY & DARK GREY, BANDED, B.C.A. = 45 DEGREES.	CCF

RENISON LIMITED  
GEOLOGY DEPARTMENTHOLE NO: 8966  
PAGE NO: 3

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RENISON LIMITED

REF NO 1111 0115

FLAG	DEPTH	RECOVERED THICKNESS	% REC	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA	STRAT
					MINERALIZATION: COMMON LOCALLY ABUNDANT CALCITE VEINS.	
	250.30	22.30	100.0	TUFF AND SILTSTONE	TUFF: REDDISH BROWN - GREENISH GREY, BANDED. SILTSTONE: REDDISH BROWN - GREENISH GREY, BANDED INTERBEDDED, P.D.A. = 40 DEGREES. CROSS BEDDING, COMMON.	CCF
					MINERALIZATION: ABUNDANT CALCITE VEINS VEINLETS, TRACE RHODOCHROSITE VEINS, TRACE PYRITE IN FRACTURES, SLIGHTLY BROKEN CORE.	
	302.10	56.80	100.0	SILTSTONE AND TUFF	SILTSTONE: LIGHT GREY - DARK GREY, BANDED, B.C.A. = 50 DEGREES. TUFF: LIGHT GREY - GREENISH GREY, FINE TO COARSE GRAINED INCREASING ABUNDANCE TOWARDS END OF UNIT. BEDDING COARSEN TOWARD THE END OF THE UNIT.	CCF
					MINERALIZATION: COMMON CALCITE, TRACE PYRITE VEINS VEINLETS, TECTONIC BRECCIA: ABUNDANT CALCITE INFILLING, BETWEEN 274 AND 275M, DOES NOT APPEAR TO BE A FOLI.	
	313.20	34.10	100.0	CARBONACEOUS SILTSTONE AND SILTSTONE	CARBONACEOUS SILTSTONE (80%): BLACK. SILTSTONE (15%): LIGHT GREY, CALCAREOUS. CONTORTED BEDDING, SLUMPED BEDDING, FRAGMENTED BEDDING.	CCF
					MINERALIZATION: COMMON CALCITE, QUARTZ VEINS, COMMON SIDERITE VEINS, TRACE PYRITE.	
	416.50	73.30	100.0	TUFF, CARBONACEOUS SILTSTONE, SILTSTONE AND SILTSTONE	TUFF (40%): LIGHT GREY, SANDY, BANDED, B.C.A. = 25 DEGREES. CARBONACEOUS SILTSTONE (30%): BLACK. SILTSTONE (20%): DARK GREY. SILTSTONE (10%): LIGHT GREY, CALCAREOUS. CONTORTED BEDDING, SLUMPED BEDDING, FINE BEDDING.	CCF
					MINERALIZATION: COMMON PYRITE CLASTS LENSES, AND BANDS, POSSIBLY REPLACING FRAGMENTED CALCAREOUS SILTSTONES, ALTHOUGH IT MAY PREDATE THE FRAGMENTING (SEDIMENTARY). MINOR CALCITE, QUARTZ VEINS. BROKEN NEAR BASE OF UNIT.	
	419.50	2.80	93.3	CARBONATE AND SULPHIDE	CARBONATE: YELLOW, COARSE GRAINED, SIDERITE, SULPHIDE.	CCFF?

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FLAS DEPTH	RECOVERED THICKNESS	% REC	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA	STRAT
				<p>PYRITE NEAR MIDDLE OF UNIT DECREASING ABUNDANCE TOWARDS END OF UNIT, THE ARSENOPYRITE IS VERY FINE, THIS ZONE APPEARS TO BE COEVAL SULPHIDE - SIDERITE VEINING, NOT SULPHIDES REPLACING A CARBONATE, POSSIBLY A FAULT.</p>	
425.80	6.30	100.0	SILTSTONE, TUFF AND SILTSTONE	<p>SILTSTONE (50%): LIGHT GREENISH GREY, CHERTY, CONTORTED BEDDING, DISTURBED AND DISRUPTED BEDDING, TUFF (20%): DARK GREENISH GREY, FINE GRAINED, SILTSTONE (30%): BLACK, CARBONACEOUS, DISTURBED AND DISRUPTED BEDDING.</p>	CCFF2
				<p>MINERALIZATION: COMMON QUARTZ, SIDERITE, MINOR PYRITE VEINS, CONTORTED AND DISTURBED SEQUENCE, MIXTURE OF CCF AND DM.</p>	
437.30	11.50	100.0	SANDSTONE, SILTSTONE AND SILTSTONE	<p>SANDSTONE: DARK GREY - LIGHT GREY, BANDED, CONTORTED BEDDING, B.C.A. = 50 DEGREES, SILTSTONE: LIGHT GREY - DARK GREY, BANDED, CONTORTED BEDDING, SILTSTONE: BLACK, CARBONACEOUS, CONTORTED BEDDING.</p>	DM
				<p>MINERALIZATION: COMMON QUARTZ, SIDERITE, MINOR PYRITE VEINS.</p>	
442.30	5.00	100.0	SILTSTONE, CARBONACEOUS SILTSTONE AND SILTSTONE	<p>SILTSTONE (40%): LIGHT GREENISH GREY, CHERTY, CONTORTED BEDDING, DISTURBED AND DISRUPTED BEDDING, CARBONACEOUS SILTSTONE (15%): BLACK, CONTORTED BEDDING, SILTSTONE (40%): LIGHT GREY, BLEACHED, LEACHED, IRONEN, IN PLACES.</p>	DM2
				<p>MINERALIZATION: COMMON QUARTZ VEINS, COMMON QUARTZ, SIDERITE VEINS VEINLETS.</p>	
446.00	3.70	100.0	QUARTZITE	<p>QUARTZITE: LIGHT GREY - DARK GREY, GRITTY, HARD, BANDED, B.C.A. = 70 DEGREES.</p>	DM
				<p>MINERALIZATION: MINOR QUARTZ, AND, SIDERITE VEINS VEINLETS.</p>	
473.80	27.80	100.0	QUARTZITE AND SILTSTONE	<p>QUARTZITE (50%): LIGHT GREY, HARD, SILTSTONE (50%): LIGHT GREY, BANDED, MICROFAULTING, B.C.A. = 75 DEGREES, GRITTY BANDE.</p>	DM
				<p>MINERALIZATION: MINOR QUARTZ, SIDERITE VEINS, TRACE FLUORITE, TRACE PYRITE.</p>	
483.80	10.00	100.0	SANDSTONE, QUARTZITE AND SILTSTONE	<p>SANDSTONE (30%): PURPLE - BROWN, SILICEOUS, HARD, QUARTZITE (30%): LIGHT GREY, HARD, SILTSTONE (30%): LIGHT GREY, BANDED, B.C.A. = 75 DEGREES.</p>	DM

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FLAS TEETH	RECOVERED THICKNESS	% REC	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA	STRAT
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MINERALIZATION: MINOR QUARTZ, AND, SIDERITE VEINS, COMMON SPHALERITE, IN CARBONATE VEINLET AT 122.2 METRES.

487.40	3.60	100.0	QUARTZITE	QUARTZITE: DARK GREY, GRITTY, HARD, FIRM, UNBROKEN.	DM
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MINERALIZATION: COMMON QUARTZ, AND, CARBONATE VEINS, TRACE SPHALERITE.

504.00	18.60	100.0	QUARTZITE AND SILTSTONE	QUARTZITE (50%): LIGHT GREY - DARK GREY. SILTSTONE (50%): LIGHT GREY, BANDED. P.C.A. = 70 DEGREES.	DM
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MINERALIZATION: COMMON QUARTZ, SIDERITE VEINS INFILLING BRECCIA, TRACE PYRITE, SPHALERITE.

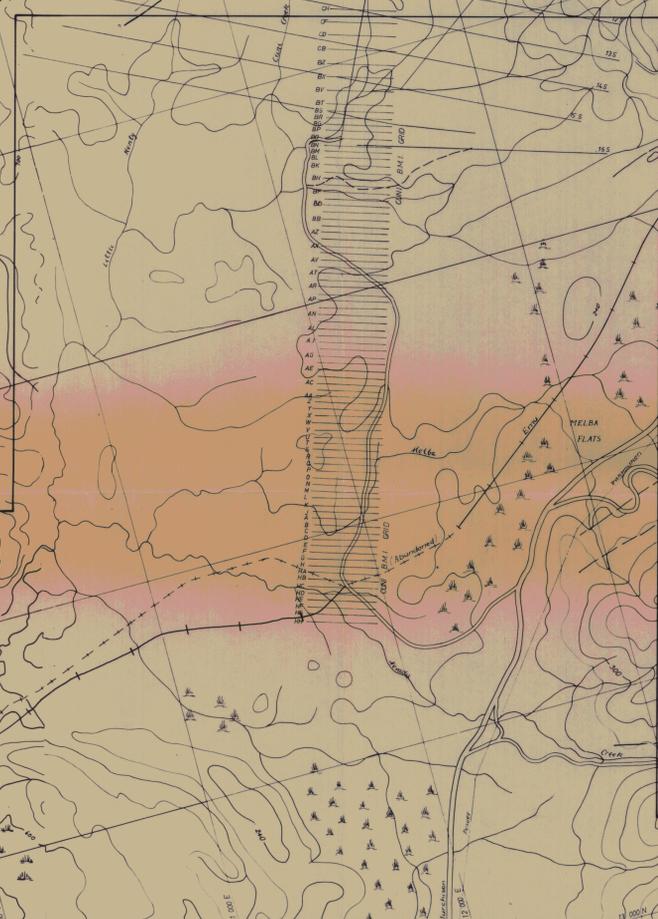
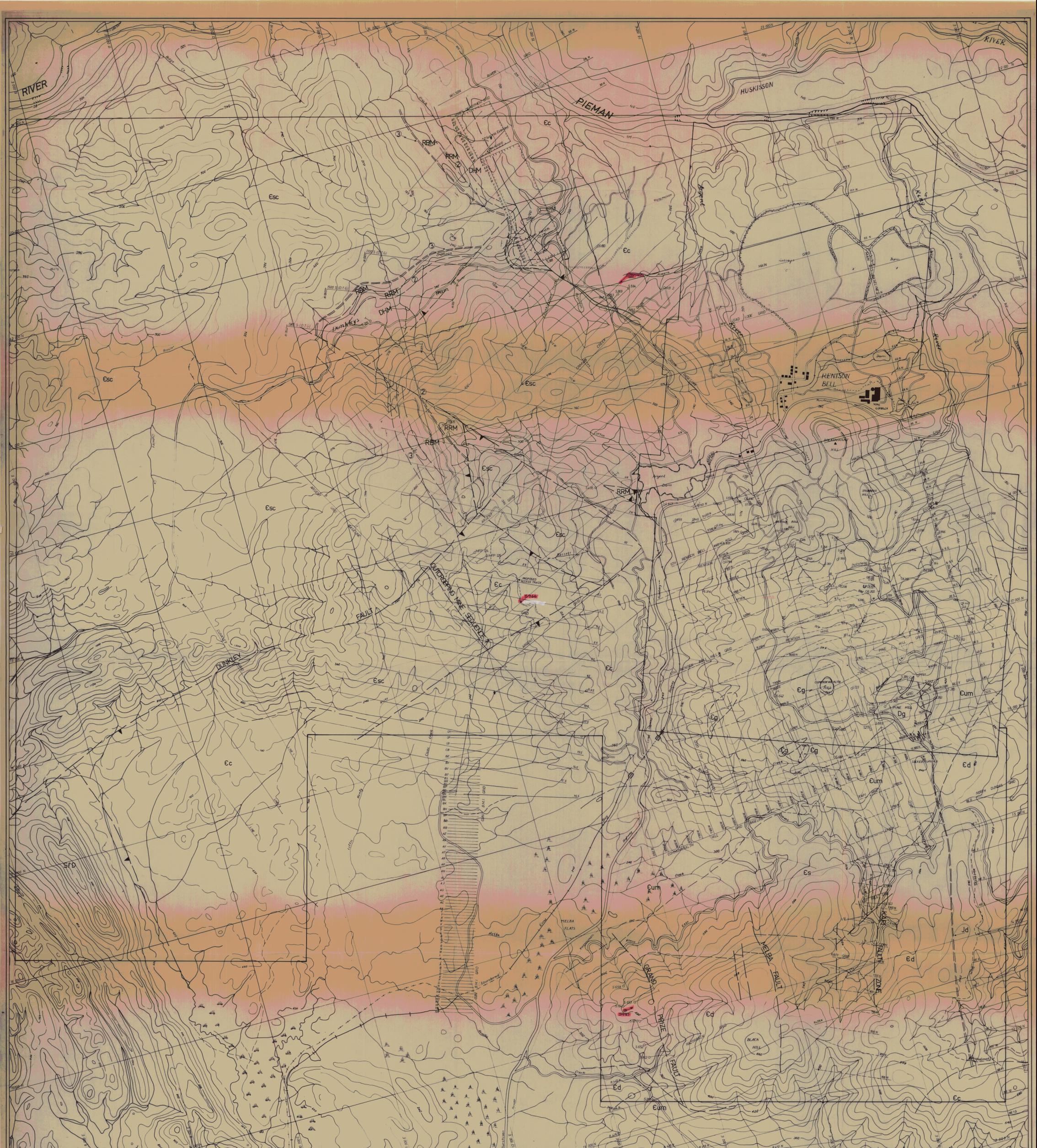
522.00	14.00	100.0	QUARTZITE	QUARTZITE: DARK GREY, GRITTY, CARBONACEOUS, HARD, P.C.A. = 70 DEGREES, MINOR REMNANT SILTSTONE "BASIS".	DM
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MINERALIZATION: MINOR QUARTZ, SIDERITE VEINS.

547.10	25.10	100.0	SILTSTONE AND QUARTZITE	SILTSTONE (75%): LIGHT GREY, POORLY BEDDED. QUARTZITE (25%): LIGHT GREY - DARK GREY, POORLY BEDDED, P.C.A. = 70 DEGREES.	DM
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MINERALIZATION: MINOR QUARTZ, SIDERITE VEINS, TRACE CHLORITE,  
NOTE: COMPLETE LACK OF TUBALINISATION SURROUNDING QUARTZ VEINS IN THIS HOLE.

END OF HOLE AT 547.10 M



**KEY**

- ▲— Inferred Fault
- ▲— Definite Fault
- - - - - Inferred Geological Boundary
- - - - - Definite Geological Boundary
- LINE 1 — Traverse Line
- Diamond Drill Hole

**SEDIMENTS**

- SVD Silurian / Devonian
- C d Middle to Upper Cambrian Dundas Group
- E c Lower Middle Cambrian Onondaga Formation
- Csc Lower Cambrian Success Creek Group

**LEGEND**

- DHM Onondaga Hill Member
- 1 No. 1 Horizon
- RRM Red Rock Member
- 2 No. 2 Horizon
- RBM Reinson Bell Member
- 3 No. 3 Horizon
- DM Daboth Member

**IGNEOUS ROCKS**

- Jd Jurassic Dolerite
- Dg Devonian Granite
- Es 1st and 2nd Middle Cambrian Melba Spitzes
- Eum Mid and post mid Cambrian Ultramafic Complex
- Cg Cambrian Gabbro

**RENISON LIMITED**  
**INTERPRETATIVE GEOLOGY**

E.L. 42/71      775010

GEOLOGIST : P.R.S.      SCALE 1:1000 METRES  
 DRAUGHTSMAN : E.V.      DATE : AUGUST 1981

REVISIONS      DRAWING No.      FIG. 1

5cm

Fig. 2.

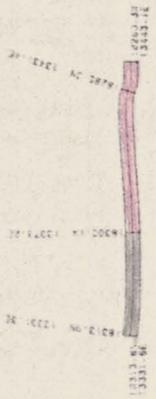
775011

HOLE NO.: 5966

# REINSON LIMITED DIAMOND DRILL HOLE PLOT

METRES  
40 0 20 0 0 0 20 0 40 0  
SCALE:

PLAN



DIP PROFILE

