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RENISON LIMITED

E.L. 42/71

RENISON BELL AREA.

1973-74

ANNUAL REPORT.

R.N. Lees,
L.A. Newnham,

September, 1974.

563002

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SUMMARY.

E.L. 42/71 is a two part Exploration Licence held by Renison and relates to one area of land north west of Renison Bell (Area 1) and a second area south of Renison Bell (Area 2.)

Both areas are thought to have potential for the development of hydrothermal replacement or fault infilling deposits similar to those of Renison or Zeehan.

Some airborne and ground geophysical surveys have been completed on both areas but the usefullness of geophysical methods in these particular areas is questionable, especially if unaccompanied by reasonably detailed geological mapping programs.

Exploration has now progressed to such a stage that some diamond drilling appears justified on both areas.

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1. INTRODUCTION:

During 1973-74, $17691 was spent on exploration of E.L. 42/71. Most of this was spent on geophysical and geological programs on Area 1. (north & west of Renison Bell) but some lesser amounts of similar work were also undertaken on Area 2. (south of Renison Bell).

Land tenure, access, geomorphology, previous work and regional geology, are adequately described in:

> "E.L. 42/71 Renison Bell Area - Western Tasmania Annual Report 1972-73" by R.R. Schellekens and L.A. Newnham, September, 1973.

It is not intended to repeat that information in this report. A location map is appended to this report as Map 1.

2. AREA 1. (N.W. of Renison Bell).

2.1. General:

Exploration during 1973-74 was confined to two gridded areas (see Map 1) viz. the Crimson Creek Grid and the Dunkley Grid.

The Crimson Creek Grid was designed to cover an area thought to be underlain by the northern continuation of the Renison Mine stratigraphy. Geological mapping, I.P. resistivity and magnetic surveys were completed on the grid during the year.

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The Dunkley Grid was designed to cover a large aeromagnetically anomalous area within faulted Crimson Creek Formation rocks. The only work completed on this grid during the year was a small amount of ground magnetic surveying, and geological mapping.

2.2. Geology:

The geology of Area 1. is described in the 1972-73 Annual Report (Schellekens & Newnham 1973) but 1973-74 mapping has indicated some amendments.

The oldest rocks in the area are Oonah Formation Quartzites and Slates (?L. Cambrian). They consist of basal quartzites and siltstones which grade upwards into shales and carbonates. The total thickness is greater than 500 metres.

The basal quartzites are thickly bedded grey to grey-green saccharoidal micaceous quartzites with minor interbedded fine grained argillaceous siltstones. They weather to soft friable sandstones with light grey sandy soils. A red siltstones bed approximately 30 metres wide accurs towards the top of this unit and is very similar to the rocks in the Crimson Creek Formation.

Conformably overlying the basal quartzites is a sequence of dark grey and black shales with interbedded siltstones and carbonates. The total sequence is up to 200 metres. This sequence is similar to the upper part of the Dalcoath Member and the Renison Bell Member of the Oonah Formation in the Renison Mine. Towards the base of this sequence a thin carbonate occurs in the

...3

Poseiden Mine and carbonate was located on the of the Murchison Mine. A carbonate derived gossan outcrops along the Pieman River Road near the top of the shale siltstone sequence and this may be equivalent to the No. 2 (or No. 1) carbonate horizon at Renison.

Dips and strikes are variable and Schellekens and Newnham (1973) suggested the Oonah sequence may have been folded into a series of NE-SW domes. However, more recent mapping suggests this is not the case as most dips are North or North East and many dips and strikes are considered unreliable because of hillside creep and local slumping.

Overlying the Oonah quartzites and slates in Area 1. is a sequence greater than 3000m thick of tuffs, cherts and argillites of the lower-middle Cambrian Crimson Creek Formation.

A chert bed marks the base of the Crimson Creek Formation. The basal cherts were probably deposited from silica rich waters associated with nearby volcanism. They consist of up to 50m of red, pink, green cherts, nodular cherts and pelletal clays and carbonates. Outcrops are rare and their presence is inferred by the presence of chert scree. They are probably the equivalent of the Red Rock Member of the Renison Mine sequence. Conformably overlying the basal chert is a thick sequence of interbedded argillites and tuffs. North of Dunkleytown light to dark grey shales occur immediately above the cherts perhaps 50 to 100 metres thick and these then grade into light grey green lithic tuffs and red argillites and tuffs. The lithic tuffs contain pyroclastic fragments of andesine, augite, magnetite, glass, serpentine trachyte and carbonate set in a fine grained altered ground mass of argillite and ash.

....4

Onion weathering of the tuffs on the ridges is common. The ash is often altered to chlorite. The argillites are purple to red brown fine grained massive indurated mudstone with some shale beds. They weather to thick brown & yellow clays. Carbonate occurs throughout the sequence in small amounts as carbonate rich beds or as disseminated grains. Mica (muscovite) occurs along bedding planes but is not as abundant as in the underlying Oonah Formation rocks.

The Crimson Creek Formation generally dips 40°-70° to the north-east but more variable dips do occur.

A possible disconformity occurs between the Oonah Formation and the Crimson Creek Formation from the Renison Mine lease boundary to just north of Dunkleytown. The chert beds of the lower Crimson Creek Formation are absent as are the typical shale siltstone and quartzites of the Renison Bell Member in the mine area. The carbonate gossan between the Oonah and Crimson Creek Formation is also absent at Dunkleytown. The quartzites with minor pebble beds, which occur in the hangingwall of the No. 3 Carbonate horizon in the Renison Mine, contains more pebbles (and coarser pebbles) in the north west direction until where seen in outcrop north west of the present mine it contains massive conglomerate beds. These beds may represent shallower water in the sedimentary basin and possibly a shore line. The sequence between the Renison Lease boundary and Dunkleytown may have in fact been exposed at this time (Lees).

In the south of Area 1. Silurian-Devonian Florence Quartzites, Keel Quartzites and Austral Creek Siltstone

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outcrop and form the NW-SE trending east limb of a large upper Palaeozoic syncline.

Upper Cambrian microgabbro Sills (?) and an Upper Devonian quartz porphyry dyke, intrude the Cambrian Sediments and volcanics in Area 1. The microgabbros are composed of oligoclase laths, augite, leucoxenised iron oxides, and secondary chlorite. Small vesicles are filled with secondary chlorite and carbonate. Serpentinous material occurs in small patches, possibly replacing Olivine crystals. Scattered outcrops of microgabbro were located and suggest several dyke or sill intrusions, and they appear to be related to microgabbro dykes north of E.L. 42/71 near the Pieman River and south of E.L. 42/71 on the Renison Mining Lease.

Three small outcrops of a weathered quartz porphyry dyke was located in the north-east section of Area 1, on the Pieman Road and north of the road. It may be related to similar dykes which radiate from the Pine Hill intrusion on the Renison Mining Lease.

Mineralization within Area 1. consists of argentiferous galena in the Poseidon workings and the Owen Meredith Success Extended line of workings, disseminated sulphides in the basal Crimson Creek cherts and microgabbros and gossanous material along the Pieman River Road.

In the Poseidon mine, silver lead mineralization occurs as a partial replacement of a flat lying carbonate bed. The carbonate has been altered to Ankerite marble. Carbonate was also found on the

....6

563010

Murchison Mine dump. Argentiferous galena was also produced from the Success Extended and Owen Meredith Mines where galena, pyrite cholcopyrite and sphalerite occurred in a shear up to 1.5m wide, within shales and argillites of the Crimson Creek Formation. Production was approximately 600-700 tonnes of ore grading 15% Pb and 1800 gms Ag per tonne. The Owen Meredith, Bon Accord, Success and Success Extended possibly the Murchison and several other smaller prospects appear to lie on the same shear zone.

Minor disseminated sulphides were found in the basal cherts and microgabbros.

An extensive gossan outcrop was traced from 260m east of Dunkleytown to the eastern licence boundary. The gossan is manganiferous cryptomelane developed on a carbonate bed which is probably the lateral equivalent of the Renison No. 2 horizon.

2.3. Geochemical Sampling:

Geochemical sampling was restricted to rock sampling of gossans, mine dumps and mine workings. The results are included as Appendix 1.

2.3.1. Tin:

Two samples gave anomalous tin values. These were re-assayed and the check assays were only low background. Sample contamination during preparation for assay is almost certainly the cause. Doubt must also be cast on the high tin assays reported in the 1972-73 Annual Report as these were not check assayed. A sample from the Owen Meredith Mines also had an

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assay of 0.5% Sn. However, this was not checked and seems unlikely to be accurate as other samples from the mines were low in tin.

To avoid sample contamination in future, sample preparation and assaying should not be done where contamination from Renison mine samples can occur.

2.3.2. Lead & Zinc.

High lead and silver assays were obtained from mine dump samples from the Owen Meredith and Success Extended mines. Other mine workings in the area showed anomalous lead and silver values. Galena from the Success Extended and Owen Meredith contained several hundred grams/tonne of Silver.

2.3.3. Tungsten.

A "gossan" situated on the Dunkley Tram was reported in 1972 to have high tungsten values. (Schellekens 1972 - Report on the Dunkley Area E.L. 42/71 Unpub. Renison Ltd. Rept.)

This "gossan" was resampled and found to contain only low tungsten values (less than 50 ppm WO_3)

2.4. Geophysical Surveys:

During 1972-73 an airborne E.M. - magnetic Survey was conducted over E.L. 42/71. The results of this survey are in the 1972-73 Annual Report. The 1973-74 field surveys were to investigate areas of interest delineated by the airborne survey.

EC3012

2.4.1. I.P. - Resistivity Surveys:

In January 1974 an I.P. - Resistivity survey was conducted on the Crimson Creek grid. Gradient array E.I.P. was used with detailed pole-dipole E.I.P. and M.I.P.. The results are present in a report:-

"Final Report on the Induced Polarization Surveys on the Crimson Creek Grid, near Renison Bell Tasmania on Behalf of Renison Limited" by A.W. Howland - Rose Jan. 1974. (Unpub. Scintrex Rept.)

2.4.2. Ground Magnetic Surveys:

A total field magnetometer survey was conducted on the Crimson Creek Grid and the Dunkley Fault Grid.

The magnetic profiles over the Oonah rocks are very flat, with a gradual increase in values to the South. Magnetic response over Crimson Creek Formation rocks is less predictable.

On the Dunkley Fault Grid a 1200 gamma anomaly is centred on line 3 at 13.5S, smaller anomalies occur on line 1 at 16.5S and line 5 at 19.0S The anomalies are probably caused by basic intrusions or tuffs and correspond with airomagnetic anomaly located by Aberfoyle Limited in 1965.

The major anomaly on the Crimson Creek Grid corresponds with a magnetic basic tuff which crosses line 145W and outcrops on the Pieman River Road. This anomaly was detected by the 1972-73 airborne

survey. Other anomalies (200 to 300 gammas) occur in the Crimson Creek Formation and are probably caused by basic intrusions or tuffs.

3. AREA 2. (S. of Renison Bell).

Very little work as undertaken on Area 2 during the year apart from the metrification of existing data.

The geology of Area 2 has been fully reported upon in a previous Renison Limited report (Ref. 2).

A ground magnetic, and an I.P. Resistivity survey were completed over much of the area in 1970 (Ref. 3).

4. RECOMMENDATIONS:

4.1. Area 1:

It is recommended that two diamond drill holes each 250m. long be drilled on the Crimson Creek Grid, with the following approx. specifications.

Hole:	Co-ords.	Length	Dip.	Testing
1.	125W/2N	250m	-55	Geophysical anomalies within Renison stratigraphy
2.	165N/3N	250m.	-55	

These holes should be drilled before summer 1974-75.

Further, it is recommended that the magnetic survey be completed on the Dunkley Grid.

4.2. Area 2.

A thorough evaluation of existing data in this area should be undertaken with the express aim of siting two 250m. diamond drill holes in the area, preferably for commencement before the end of February 1974.

A recommended 1974-75 budget is attached as Appendix 2.

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APPENDIX 1 - GEOCHEMICAL DATA.

SAMPLE NO.	RENISON MINE GRID CO-ORDS		ASSAYS						ROCK TYPE, COMMENTS
	N	E	% Sn	% As	% Cu	% Pb	% Zn	ppm Ag	
2002A	21145	14620	.02	.09	.01	.01	.02	10	Mine Dump Samples
2002B	21145	14620	.02	.09	.01	.07	.02	10	" " "
2002C	21145	14620	.01	.19	.01	.25	.05	10	" " "
2005	22650	14250	.01	10.0	.16	24.9	3.25	327.4	Galena, Success Extended
2006	21730	14500	.50?	.09	.01	.02	.01	9.2	Shale, Owen Meredith
2007	22650	14250	.01	12.3	.39	38.0	1.9	1585.1	Galena, Success Extended.
2008	22650	14250	.01	4.4	.11	10.3	2.4	694.6	Siderite & Galena, Success Extended.
2009	21730	14500	.01	.26	.01	.22	.07	13.8	Shear Zone, some carbonate Owen Meredith.
2010	21730	14500	.01	.34	.01	.62	.14	30.3	Shear Zone Owen Meredith.
2011	21730	14500	.01	8.45	.0	3.23	.18	593.6	Galena, Owen Meredith.
2012	21460	14520	.01	.48	.01	.33	.03	40.7	Shale and Quartz, Success (?)
2013	21460	14520	.01	.14	.01	.17	.02	20.2	Gossan, Success (?)
2014	21460	14520	.02	.15	.01	.15	.02	23.3	Quartz with boxwork. Success
2015	20500	14870	.02	.03	-			3	Shale and pyrite.
2016	20500	14870	.03	.03	-			3	Shale
2017	20500	14870	.03	.03	-			4	Quartzite
2018	22335	14335	-	9.47	.31				Gossan
2019	21390	14705	.01	.01	.04	.01	.04	7.3	Basic Tuff
2020	17755	10310	.02	.01	.01	.01	.01	45?	Dunkley Grid
2021	21655	13985	.01	.07	.01	.01	.01	15	Gossan
2022	20250	15350	.01	.09	.01	.01	.01	3	Shale with sulphide
2023	19835	15620	.01	.07	.01				Gossan

Cont'd

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42/71 1973 - 74 ANNUAL REPORT.

APPENDIX 1 - GEOCHEMICAL DATA.

SAMPLE NO.	RENISON MINE GRID CO-ORDS		ASSAYS						ROCK TYPE, COMMENTS
	N	E	% Sn	% As	% Cu	% Pb	% Zn	ppm Ag	
2024	22050	14155	.08	.02	.01	.01	.01		Gossan
2025	21975	14038	.01	.19	.02	.01	.01		"
2029	23909	14008	.07	.04	.01	.01	.02	6	
2034A	21680	13810	.01	.05	.01	.01	.01	6.7	Mine Dump Crimson Creek
2035	21680	13810	.06	.03	.01	.01	.01	11.0	" " " "
2038	21705	14610				.01	.01		Limonite float
2039	21725	14605				-	-	8.9	" "
2040	21740	14645				-	-	8.0	Weathered basic
2041	17750	9950	0.2		.01	.01	.01	6.5	Gossan Dunkley Grid
2044	22590	14365	.04	.05	.02				Gossan
02181	20840	11370	.01	.04	.02	.01	.01	5	50 ppm WO_3) Gossan
02182	20840	11370	.01	.04	.02	.01	.01	5	" ") previously
02183	20840	11370	.02	.04	.02	.01	.01	2	" ") reported as high WO_3 Assay.

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APPENDIX 2

RENISON LIMITED

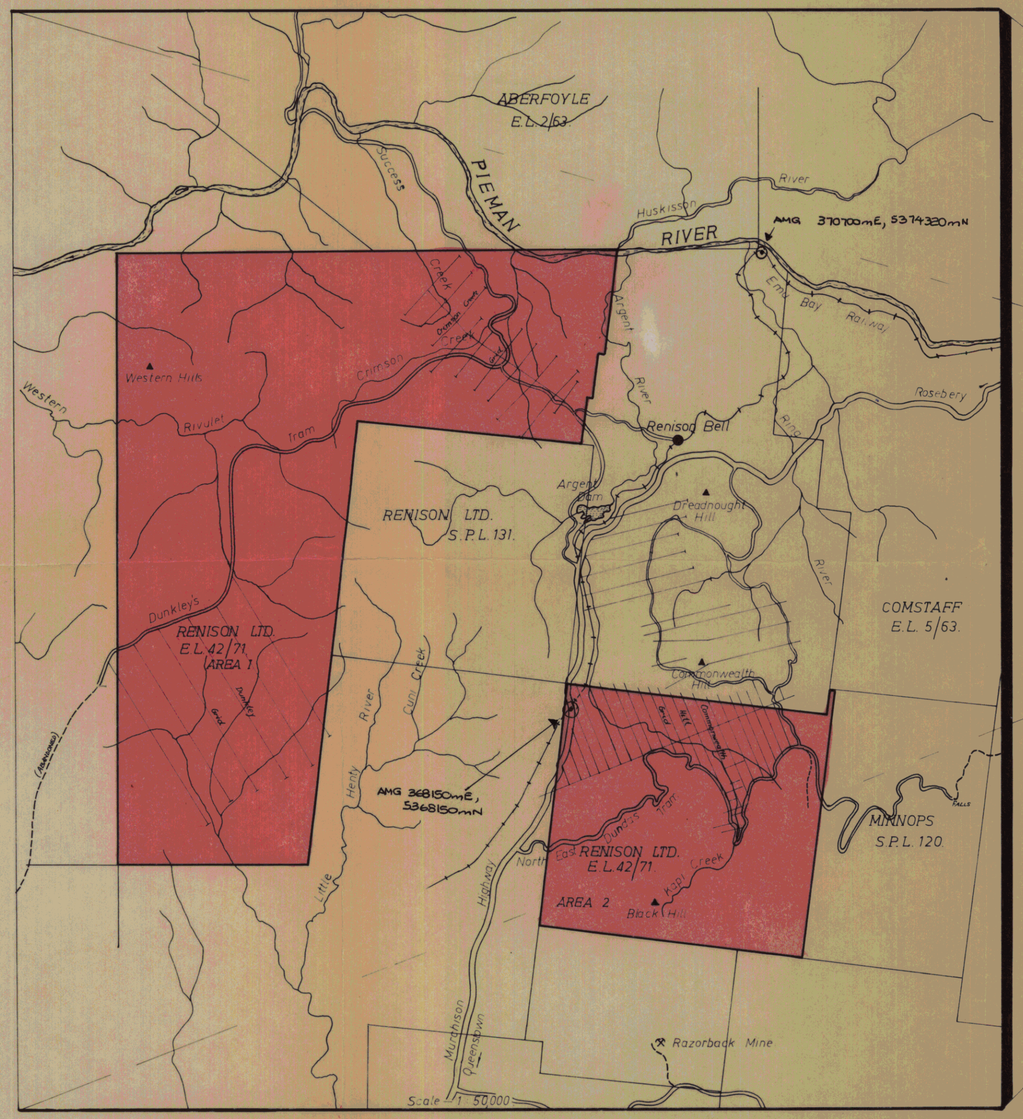
EXPLORATION - OPERATING

12 Periods to June 1975

Page
Sheet
Prepared

563018

Period	1 $	2 $	3 $	4 $	5 $	6 $	7 $	8 $	9 $	10 $	11 $	12 $	TOTAL $
E.L. 42/71													
Salaries & Wages	1250	1000	1000	1250	1000	1000	1250	1000	1000	1250	1000	1000	13000
Transport	25	20	20	25	120	20	25	20	20	25	20	20	360
Maintenance													
Consumables	1000	500		500			500			500			3000
Diamond Drilling		16000	16000										32000
Outside Services (Incl. Consultants)		1000				1000				1000			3000
Geophysics						3000	2500						5500
Geochemistry													
Survey	50	50	50	50	100	100	100	100	50	50	50	50	800
TOTAL	7325	18570	17070	1825	1220	5120	4375	1120	1070	2825	1070	1070	57660







E.L. 42/71.

LOCALITY PLAN.

1: 2,000,000.

5 cm

AMG REFERENCE POINTS ADDED

563019

74-1047 RJP

No 1.

1533

Dg

Ds

S&D

Huskisson Syclime

Mt Livingstone

E.L 18/73

Parsons Hood

E.L 2/63

Mt Lindsay

AMG 359849mE,
5381753mN

RENISON
LIMITED

Mt Lindsay Road

Eb

Whitsun River

Huskisson

ABERFOYLE LTD

Stanley River

Pieman

E.L. 42/71

RENISON LIMITED

(AREA 1)

Pe

RENISON LTD
CONSOLIDATED
MINING LEASE

Bay

Renison Bell

Highway

Railway

Pemu

Bassett Fault

Pe

Blakeney Fault

Eb

Dg

Dunkley Fault

E.L. 42/71

AMG 368150mE,
5368150mN

RENISON LTD

(AREA 2)

D&S

Marchison

Eb

Pe

LEGEND.

D&S Devonian & Silurian sediments.	Eb Cambrian Basic & Ultrabasic Intrusives.
Ds Ordovician Sediments.	Dg Devonian Granite Intrusives.
€ Cambrian Sediments & Volcanics	Sn. Mine with Mineral(s) produced, operating or abandoned.
Pe Precambrian Units.	E.L. Licence Boundary

563020 RENISON LIMITED 74-1047

E.L. 42/71.
LOCALITY MAP.

SCALE. 1: 50000 METRES

1000 0 1000 2000 3000

DRAWN	R.J.P
TRACED	
DATE	Oct. '74
SCALE	1:50000
DRAWING No.	2

AMG REFERENCE POINTS ADDED

5 cm

1534

PIEMAN RIVER

Agent River

LEGEND

- Alluvium
- Gossan
- Qp — Quartz Porphyry
- DALADWOUGHT HILL MEMBER
  - €m — Brown Mudstones
  - €mg — Layered Gabbro.
  - €g — Greywackes
- €cr — Red Cherts
- € — Cambrian (undifferentiated)
- CONAH FORMATION
  - Psh — Remson Bull Shale
  - Pq — Quartzites
  - Pc — Carbonates
- Fault
- Geological Boundary (inferred)

5 cm

RENISON LIMITED 74-1047

CRIMSON CREEK GRID.
GEOLOGY.
563021

SCALE. 1: 5000 METRES
100 0 100 200 300

DRAWN	R.J.P
TRACED	
DATE	Oct '74
SCALE	1:5000
DRAWING No.	3.

1535

PIEMAN RIVER

Argent River

LEGEND

- Resistivity High
- Resistivity Low
- Zones of High Chargeability background
- IP Trends
- Magnetic Trends
- Possible Fault

NOTE Geophysics compiled by Scintrex Pty Ltd. Jan 1974

.5 cm

RENISON LIMITED 74-1047

CRIMSON CREEK GRID. 1536

GEOPHYSICAL INTERPRETATION

563022

SCALE. 1: 5000 METRES

100 0 100 200 300

DRAWN	R.J.P
TRACED	
DATE	
SCALE	1:5000
DRAWING No.	4

65M/73

COMMONWEALTH HILL

D.H.M.

Qp

Emb

Emq

Emg

Emf

Eug

Euc

Ems

Emp

Dhm

Mercurius

Mistake

Fish Bay Formation

North East Dipping Reef

Diorite Dyke

Fault

Lease Boundary

Geological Boundary (inferred)

LEGEND

Devonian

- Qp — Quartz Porphyry

Upper Cambrian

- Eus — Shales & Siltstones
- Euc — Conglomerates
- Eug — Siltstones, grits & cherts

Mid-Upper Cambrian

- Ems — Melba Spillites
- Emt — Tremolite Rock
- Emg — Layered Gabbro
- Emp — Layered Pyroxenites & Pyroxenite - Norites

- Emb — Serpentinite

Lower-Mid Cambrian

- Dhm — Dreadnought Hill Member

5 cm

RENISON LIMITED 74-1047

COMMONWEALTH HILL GRID.
GEOLOGY.
563023

SCALE. 1: 5000 METRES
100 0 100 200 300

DRAWN	R.J.P
TRACED	
DATE	Oct '74
SCALE	1: 5000
DRAWING No.	1537

NO 5

65 M/73

COMMONWEALTH HILL

A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12 A13 A14 A15

S276 S271 S276 S275 S270 S280 S283 S284

L6 L7 L8 L9 L10 L11

17000N 16000E 16500E 17000E 16000N 15000N 14000N 14000E 15000E

LEGEND.

- Conductive Area
- Conductive Axis
- I.P Axis
- S.P Axis
- Magnetic Body
- Dip

Note, Survey by C.G.G 1970

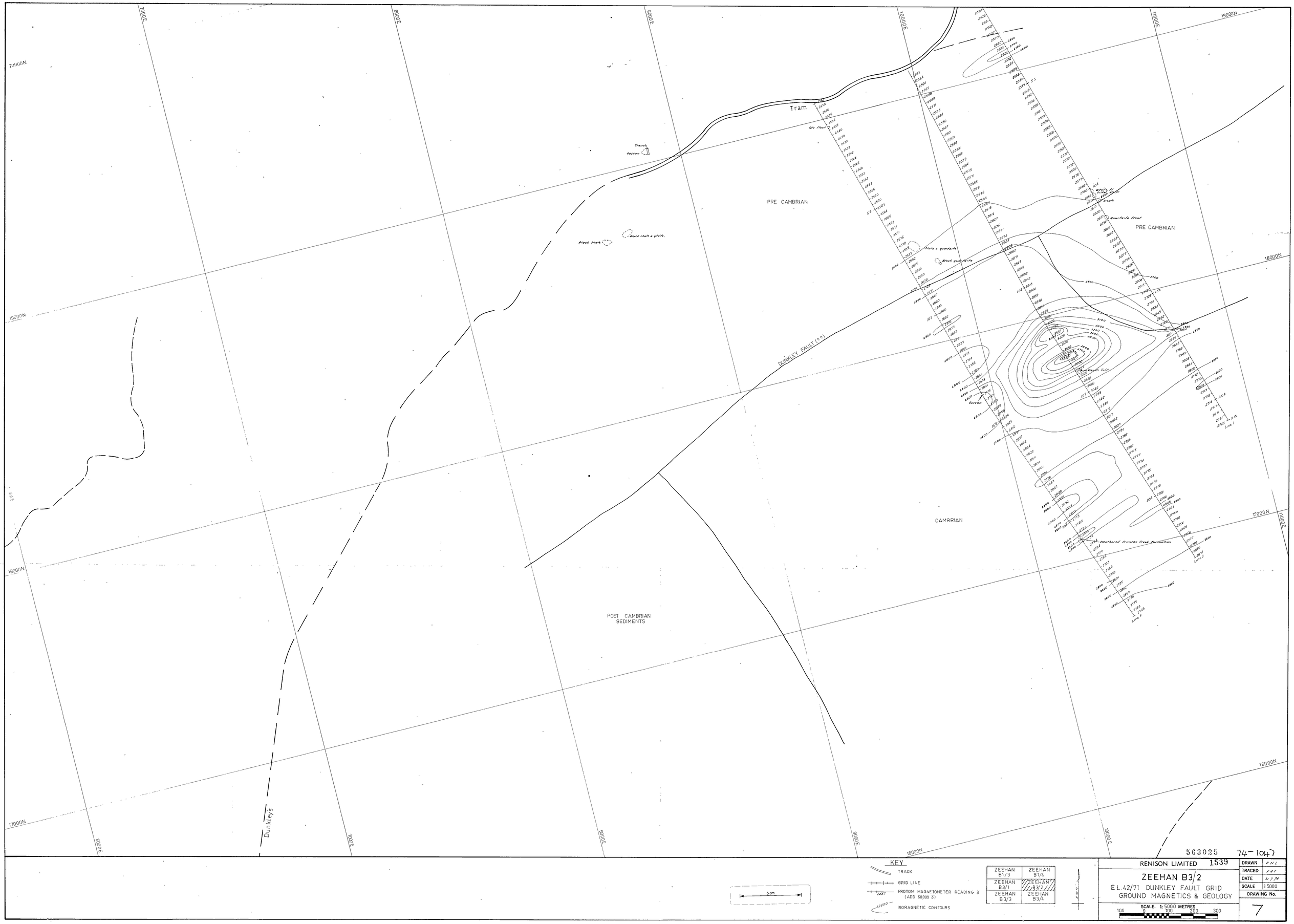
RENISON LIMITED 563024

COMMONWEALTH HILL GRID.
GEOPHYSICAL INTERPRETATION.
1538 74-1047

DRAWN	R.T.P
TRACED	
DATE	Oct '74
SCALE	1:5000
DRAWING No.	6

SCALE. 1:5000 METRES.
100 0 100 200 300

5 cm



KEY

- TRACK
- GRID LINE
- 2287 PROTON MAGNETOMETER READING γ (ADD 60000 γ)
- 62300 ISOMAGNETIC CONTOURS

5 cm

ZEEHAN B1/3	ZEEHAN B1/4
ZEEHAN B3/1	ZEEHAN B3/2
ZEEHAN B3/3	ZEEHAN B3/4

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RENISON LIMITED 1539

ZEEHAN B3/2

E.L. 42/71 DUNKLEY FAULT GRID

GROUND MAGNETICS & GEOLOGY

SCALE 1:5000 METRES

100 0 100 200 300

DRAWN	K.N.L.
TRACED	I.A.C.
DATE	11.74
SCALE	1:5000
DRAWING No.	7

Geochemistry

ppm.

50 — 200
40 — 160
30 — 120
20 — 80
10 — 40
0 — 0

I.P. Data

Resistivity in Ohm - Metres (——)

Chargeability in Millivolts/Volt (— —)

2000 — 60
1000
500 — 40
300
200 — 20
100 — 0

Total Magnetic Field (δ)

Fine Scale (——) — Coarse Scale (— —)

63000 — 65000
800 — 64000
600 — 63000
400 — 62000
200 — 61000
62000 — 60000

0S 5S 10S 15S 20S

Topography & Geology.

Height above Sea Level + 2000 m.

(m)
2300
2400
2300
2200
2100
2000
(m)
1900

Creek
Creek
Quartzite siltstone Float
Quartzite Float
Dark Shale
Dunkley Fault ?
Conah Formation
Conah Formation
Crimson Creek formation

0S 5S 10S 15S 20S

563026

I.P
Chargeability.
Resistivity

Magnetics
5000 δ Scale
1000 δ Scale

Geochemistry
Sn.
Cu.
Pb.
Zn.
As.
W.

5 cm

RENISON LIMITED 74-1047	
E.L. 42/71	
DUNKLEY FAULT GRID	
LINE 1 1540	
SCALE. 1:5000 METRES.	
DRAWN	R.N.L.
TRACED	F.A.C.
DATE	18-7-74.
SCALE	1:5000
DRAWING No.	

Geochemistry

p.p.m.

50 — 200
40 — 160
30 — 120
20 — 80
10 — 40
0 — 0

I.P. Data

Resistivity in Ohm-Metres (----)

Chargeability in milliVolts/Volt (——)

2000 — 60
1000 — 40
500 — 20
300
200
100 — 0

Total Magnetic Field (δ)

Fine Scale (----) Coarse Scale (——)

63000 — 65000
64000
63000
62000 — 62000
61000
60000

0S 5S 10S 15S 20S

Topography & Geology.

(m) Height above Sea Level + 2000m. (m)

2500
2400
2300
2200
2100
2000
1900

Dunkley Trom Rd.

Weathered Tuff

Oonah Formation

DUNKLEY FAULT ? ? ?

Crimson Creek Formation

563027

0S 5S 10S 15S 20S

IP
Chargeability.
Resistivity.

MAGNETICS.
5000 δ Scale.
1000 δ Scale.

GEOCHEMISTRY.
Sn
Cu.
Pb
Zn
As.
W.

5 cm

RENISON LIMITED 74-1047	
E.L. 42/71	
DUNKLEY FAULT GRID	
LINE 3 1541	
SCALE. 1:5000 METRES. 100 0 100 200 300	

DRAWN	R.N.L.
TRACED	F.A.C.
DATE	18.7.74
SCALE	1:5000
DRAWING No.	

Geochemistry

p.p.m.

50 — 200
180
40 — 160
140
30 — 120
100
20 — 80
60
10 — 40
20
0 — 0

I.P. Data

Resistivity in Ohm-Metres (----)

Chargeability in Milliseconds/Volt (——)

2000 — 60
1000
500 — 40
300
200 — 20
100 — 0

Total Magnetic Field (δ)

Fine Scale (----) Coarse Scale (——)

63000 — 65000
800 — 64000
600 — 63000
400 — 62000
200 — 61000
62000 — 60000

0S 5S 10S 15S 20S 25S

Topography & Geology.

Height above Sea Level + 2000 ft. (m)

2500
2400
2300
2200
2100
2000
1900

Dunkley Farm Rd. Qtz. Float Sandstone Slate & quartzite 30 m E of line Dunkley fault? Gossan Creek Weathered Tuff Float Creek

Oonah Formation

Crimson Creek Formation

E 63028

0S 5S 10S 15S 20S 25S

RENISON LIMITED 74-1047	
E.L. 42/71	
DUNKLEY FAULT GRID	
LINE 5 1542	
SCALE 1:5000 METRES	

DRAWN	R.N.L.
TRACED	F.A.C.
DATE	18.7.74
SCALE	1:5000
DRAWING No.	

I.P.
Chargeability.
Resistivity.

Magnetics.
5000 δ Scale.
1000 δ Scale.

Geochemistry.
Sn
Cu
Pb
Zn
As.
W.

5 cm

Geochemistry

ppm.

50 200
40 160
30 120
20 80
10 40
0 0

I.P. Data

Resistivity in Ohm-Metres (----)

Chargeability in Milliseconds/volt (—)

60
2000 40
1000
500
300 20
200
100 0

Total Magnetic Field (δ)

63000 65000
800 64000
600 63000
400 62000
200 61000
62000 60000

Fine Scale (----) Coarse Scale (—)

Topography & Geology.

(m) Height above Sea Level + 2000m (m)

2500
2400
2300
2200
2100
2000
1900

Track Road Shales Road Track Track

Oonah Formation

Crimson Creek Formation

Grey green tuff & ash.

10S 5S 0 5N 10N 15N 20N 25N 30N

E63029

RENISON LIMITED 74-1047	
E.L. 42/71	
CRIMSON CREEK GRID	
LINE 110 W 1543	
SCALE. 1:5000 METRES	

DRAWN	R.N.L.
TRACED	F.A.C.
DATE	24.7.74.
SCALE	1:5000
DRAWING No.	

I.P.
Chargeability.
Resistivity

MAGNETICS.
5000 δ Scale
1000 δ Scale

5 cm

GEOCHEMISTRY.
Sn
Cu
Pb
Zn
As.
W.

Geochemistry

p.p.m.

50 — 200
40 — 160
30 — 120
20 — 80
10 — 40
0 — 0

I.P. Data

Resistivity in Ohm - Metres (----)
Chargeability in Milliseconds/volt (—)

2000 — 60
1000 — 40
500 — 30
300 — 20
200 — 10
100 — 0

255 205 155 105 55 0 5N 10N 15N

Total Magnetic Field (δ)

Fine Scale (----) Coarse Scale (—)

63000 — 65000
800 — 64000
600 — 63000
400 — 62000
200 — 61000
62000 — 60000

255 205 155 105 55 0 5N 10N 15N

Topography & Geology.

Height above Sea Level + 2000 m. (m)

2500
2400
2300
2200
2100
2000
1900

Creek
Minor old workings in shales
Road
Quartzite
Coarse silt/quartzite float
Shales
Road
Road
Road
Road
Creek
Road
Gossan on road
Weathered Crimson Creek Formation.
Red Siltstones w. tuff (30m West)
Weathered/med. grained Tuff (30m West)
Oonah Formation
Crimson Creek Formation
88 ±
Oonah Formation
Oonah Formation.

563030

255 205 155 105 55 0 5N 10N 15N 20N 25N 30N

I.P. — Chargeability. — Resistivity

MAGNETICS. — 5000 δ Scale — 1000 δ Scale

GEOCHEMISTRY. — Sn, Cu, Pb, Zn, As, W.

5 cm

RENISON LIMITED 74-1047	
E.L. 42/71	
CRIMSON CREEK GRID	
LINE 115W 1544	
SCALE. 1:5000 METRES	
DRAWN	R.N.L.
TRACED	P.A.C.
DATE	24.7.74.
SCALE	1:5000
DRAWING No.	

Geochemistry

ppm.

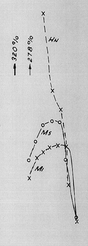
50 — 200
40 — 160
30 — 120
20 — 80
10 — 40
0 — 0

M.I.P. Data

Milligammas / gammas

10 — 140 %
0 — 100 %
-10 — 60 %

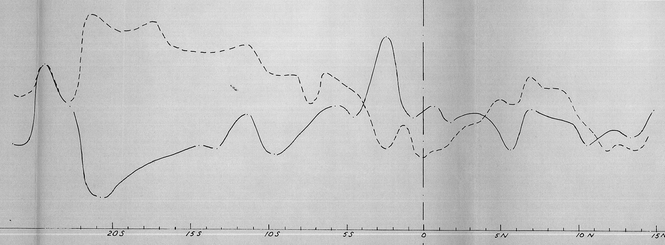
x—x—x M1
o—o—o M5
x—x—x Normalized Magnetic Field HN.



I.P. Data

Resistivity in Ohm Metres (——)
Chargeability in Milliamps/Volt (— —)

60
2000 — 40
1000 — 30
500 — 20
300 — 10
200
100 — 0

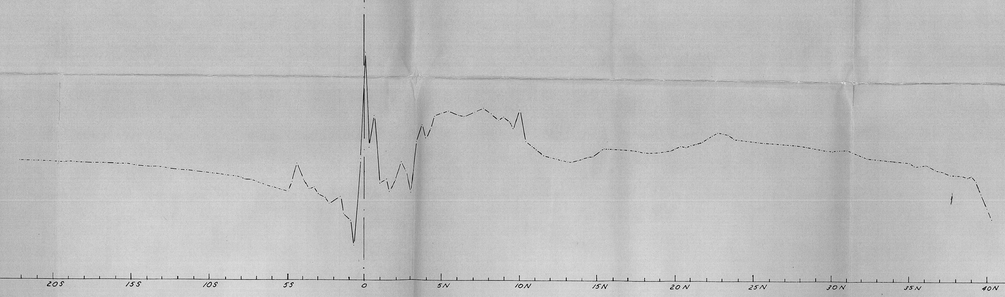


20S 15S 10S 5S 0 5N 10N 15N

Total Magnetic Field (δ)

Fine Scale (——) Coarse Scale (— —)

63000 — 65000
800 — 64000
600 — 63000
400 — 62000
200 — 61000
62000 — 60000

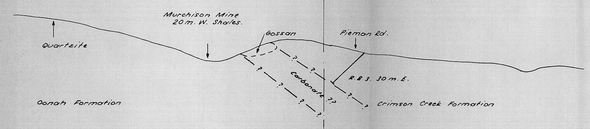


20S 15S 10S 5S 0 5N 10N 15N 20N 25N 30N 35N 40N

Topography & Geology.

Height above Sea Level + 2000 m. (m)

(m)
2500
2400
2300
2200
2100
2000
1900



20S 15S 10S 5S 0 5N 10N 15N 20N

563031

IP
Chargeability.
Resistivity.

MAGNETICS.
5000 δ Scale.
1000 δ Scale.

GEOCHEMISTRY.
Sn
Cu
Pb
Zn
As
W.

5 cm

RENISON LIMITED 74-1047	
E.L. 42/71	
CRIMSON CREEK GRID	
LINE 125 W	
SCALE. 1:5000 METRES. 100 0 100 200 300	

DRAWN	R.N.C.
TRACED	F.A.C.
DATE	25.7.74
SCALE	1:5000
DRAWING No.	1545

Geochemistry

ppm.

50 — 200
40 — 160
30 — 120
20 — 80
10 — 40
0 — 0

I.P. Data

Resistivity in Ohm Metres (——)
Chargeability in Milliseconds/cycl (— — —)

60
2000 — 40
1000 —
500 — 20
300 —
200 —
100 — 0

2SS 20S 15S 10S 5S 0 5N 10N 15N

Total Magnetic Field (δ)

Fine Scale (— — —) Coarse Scale (——)

63000 — 65000
800 — 64000
600 — 63000
400 — 62000
200 — 61000
62000 — 60000

30S 25S 20S 15S 10S 5S 0 5N 10N 15N 20N 25N

Topography & Geology.

Height above Sea Level + 2000 ft. (m.)

2500
2400
2300
2200
2100
2000
1900

Quartzites
Quartzites
Dennah Formation
Crimson Creek Formation.

563032

2SS 20S 15S 10S 5S 0 5N 10N 15N 20N 25N

I.P. — Chargeability. — Resistivity

MAGNETICS — 5000 δ Scale — 1000 δ Scale

GEOCHEMISTRY — Sn, Cu, Pb, Zn, As, W.

5 cm

RENISON LIMITED 74-1047

E.L. 42/71

CRIMSON CREEK GRID

LINE 135W

SCALE. 1:5000 METRES

100 0 100 200 300

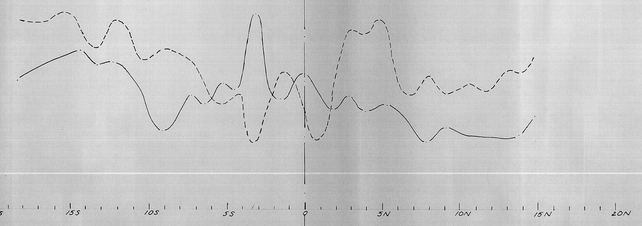
DRAWN	A.N.C.
TRACED	A.A.C.
DATE	25.7.74
SCALE	1:5000
DRAWING No.	1546

Geochemistry
ppm.

50 200
150
40 160
140
30 120
100
20 80
60
10 40
20
0 0

I.P. Data
Resistivity in Ohm Metres (——)
Chargeability in Milliseconds/cycle (— — —)

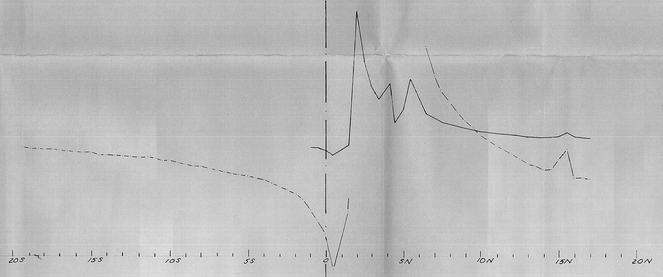
60
2000
40
1000
500
20
300
200
100 0



Total Magnetic Field (γ)

63000 65,000
800 64000
600 63000
400 62000
200 61000
62000 60000

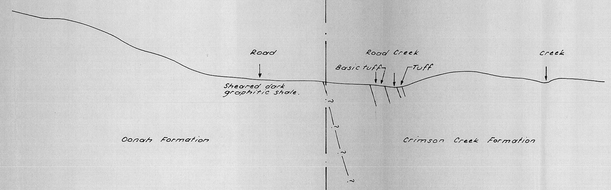
Fine Scale (——)
Coarse Scale (— — —)



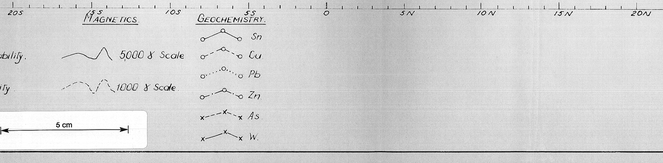
Topography & Geology.

Height above Sea Level + 2000 m (m)

2500
2400
2300
2200
2100
2000
1900



563033



RENISON LIMITED 74-1047	DRAWN R. N. C.
E.L. 42/71	TRACED F. A. C.
CRIMSON CREEK GRID	DATE 26. 7. 74
LINE 145 W	SCALE 1:5000
SCALE. 1:5000 METRES.	DRAWING No. 1547

I.P.
Chargeability.
Resistivity

MAGNETICS.
5000 γ Scale
1000 γ Scale

GEOCHEMISTRY.
Sn
Cu
Pb
Zn
As
W

6 cm

Geochemistry

ppm

50 — 200
40 — 160
30 — 120
20 — 80
10 — 40
0 — 0

I.P. Data

Resistivity in Ohm Metres (——)
Chargeability in Milliseconds/Volt (— —)

2000
1000
500
300
200
100

60
40
20
0

20S 15S 10S 5S 0 5N 10N 15N 20N

Total Magnetic Field (δ)

Fine Scale (——) Coarse Scale (— —)

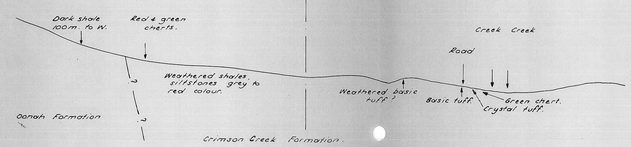
63000 — 65000
800 — 64000
600 — 63000
400 — 62000
200 — 61000
62000 — 60000

20S 15S 10S 5S 0 5N 10N 15N

Topography & Geology.

(m) Height above sea level + 2000m (m)

2500
2400
2300
2200
2100
2000
1900



20S 15S 10S 5S 0 5N 10N 15N 20N

E66034

I.P.
Chargeability
Resistivity

MAGNETICS
5000 δ Scale
1000 δ Scale

GEOCHEMISTRY
Sn
Cu
Pb
Zn
As
W

5 cm

RENISON LIMITED 74-1047	
E.L. 42/71	
CRIMSON CREEK GRID	
LINE 155 W	
SCALE. 1:5000 METRES	
DRAWN	R.N.L.
TRACED	F.A.C.
DATE	26.7.74.
SCALE	1:5000
DRAWING No.	1548

Geochemistry

ppm.

50 200
180
40 160
140
30 120
100
20 80
60
10 40
20
0 0

I.P. Data

Resistivity in Ohm Metres (——)

Chargeability in milliseconds/sec (- - -)

60
2000
1000 40
500
300 20
200
100 0

255 205 155 105 55 0 5N 10N 15N 20N

Total Magnetic Field (δ)

Fine Scale (- - -) Coarse Scale (——)

63000 65,000
800 64000
600 63000
400 62,000
200 61000
62000 60,000

255 205 155 105 55 0 5N 10N 15N 20N

Topography & Geology.

(m) Height above sea level + 2000m (m)

2500
2400
2300
2200
2100
2000
1900
1800

Road Crimson Creek Creek Road

Weathered siltstone

Shale Gossan Tuff Weathered siltstone

Ganoh Formation Crimson Creek Formation

563035

255 205 155 105 55 0 5N 10N 15N 20N 25N

RENISON LIMITED 74-1047	DRAWN R.N.L.
E.L. 42/71	TRACED F.A.C.
CRIMSON CREEK GRID	DATE 26.7.74.
LINE 165 W	SCALE 1:5000
SCALE. 1:5000 METRES	DRAWING No.
100 0 100 200 300	1549

I.P. MAGNETICS. GEOCHEMISTRY.

Chargeability. 5000 δ Scale Sn

Resistivity 1000 δ Scale Cu

Pb

Zn

As

W.

5 cm

M.I.P Data

Milligammas / gammas

10 140%
0 100%
-10 60%

x—x—x M1
o—o—o M5
x—x—x Normalized Magnetic Field HN

Pole-Dipole E.I.P. Data

Resistivity in Ohm-Metres (- - -)
Chargeability in Milliseconds / Volt (——)

2000 60
1000 40
500
300 20
200
100 0

n = 1/2 1—1—1
n = 1 o—o—o
n = 2 x—x—x
a = 100 feet

I.P. Data

Resistivity in Ohm-Metres (- - -)
Chargeability in Milliseconds/Volt (——)

2000 60
1000 40
500
300 20
200
100 0

Total Magnetic Field (δ)

Fine Scale (- - - -) 3000 65000
800 64000
600 63000
Coarse Scale (——) 400 62000
200 61000
62000 60000

205 155 105 55 0 5N 10N 15N 20N

Topography & Geology.

Height above Sea Level + 2000 (m)

2500 (m)
2400
2300
2200
2100
2000
1900

Quartzite Quartzite Creek Creek Creek Creek Road
Quartzite Float
Gossan Shale Gossan fl. Grey shale chalcedony fl. Gossan 10m. to E.
Banah Formation
Crimson Creek Formation

205 155 105 55 0 5N 10N 15N 20N 25N 30N 35N

63036

RENISON LIMITED 74-1047	
E.L. 42/71	
CRIMSON CREEK GRID	
LINE 175 W	
SCALE. 1:5000 METRES.	

DRAWN	A.N.L.
TRACED	K.A.C.
DATE	31.7.74
SCALE	1:5000
DRAWING No.	1550

I.P
Chargeability
Resistivity

MAGNETICS
5000 δ Scale
1000 δ Scale

GEOCHEMISTRY
Sn
Cu
Pb
Zn
As
W

5 cm

Geochemistry

ppm.

50 200
180
40 160
140
30 120
100
20 60
60
10 40
20
0 0

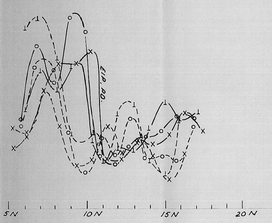
E.I.P. Pole – Dipole Data

Resistivity in Ohm-Metres (---)

Chargeability in Milliseconds/Volt (—)

2000 60
1000 40
300 20
200
100 0

n = ½ ⊥—⊥—⊥
n = 1 o—o—o
n = 2 x—x—x
a = 100 feet

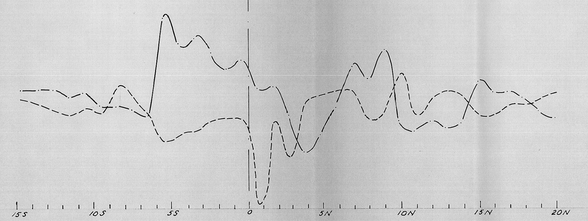


I.P. Data

Resistivity in Ohm-Metres (---)

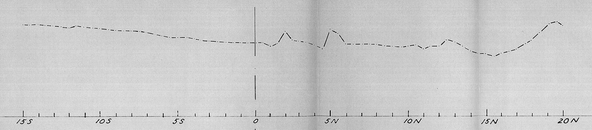
Chargeability in milliseconds/volt (—)

60
2000
1000 40
300 20
200
100 0



Total Magnetic Field (δ)

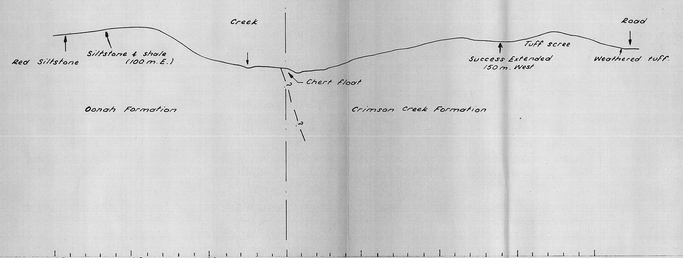
63000 65,000
800 64,000
(----) (—)
600 63000
Fine Scale
400 62,000
Coarse Scale
200 61,000
62,000 60,000

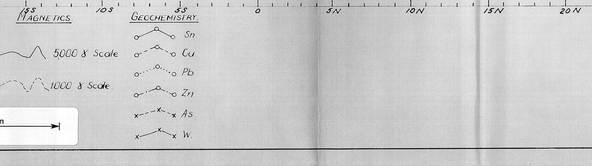


Topography & Geology.

(m)
2500
2400
2300
2200
2100
2000
1900

Height above Sea Level + 2000 m.





563037

RENISON LIMITED 74-1047

E.L. 42/71

CRIMSON CREEK GRID

LINE 185 W

SCALE. 1:5000 METRES

100 0 100 200 300

DRAWN	R.N.L.
TRACED	F.A.C.
DATE	29.7.74.
SCALE	1:5000
DRAWING No.	1551

I.P.

Chargeability

Resistivity

MAGNETICS.

5000 δ Scale

1000 δ Scale

GEOCHEMISTRY.

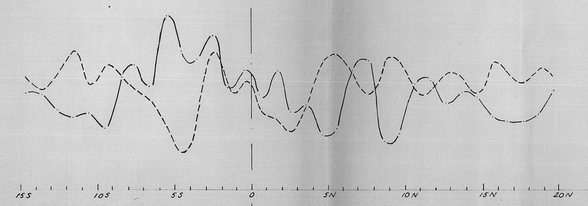
Sn
Cu
Pb
Zn
As
W

5 cm

Geochemistry

ppm.

50 200
180
40 160
140
30 120
100
20 80
60
10 40
20
0 0



I.P. Data

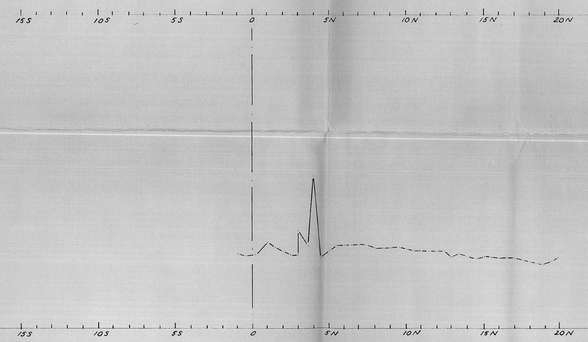
Resistivity in Ohm Metres (----)

Chargeability in Milliseconds/volt (—)

60
2000
40
1000
500
20
300
200
0
100

Total Magnetic Field (γ)

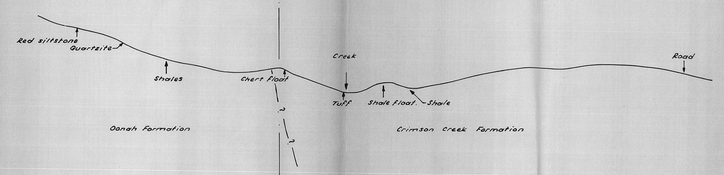
63000 65000
800 64000
600 63000
Fine Scale (----)
Coarse Scale (—)
400 62000
200 61000
62000 60000



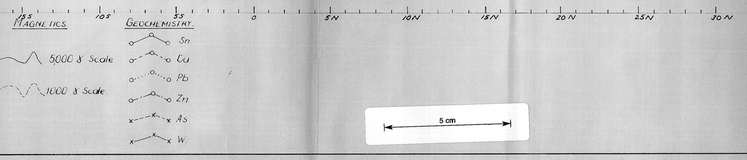
Topography & Geology.

Height above Sea Level + 2000 m. (m)

2500
2400
2300
2200
2100
2000
1900



563038



I.P.
Chargeability
Resistivity

MAGNETICS.
5000 γ Scale
1000 γ Scale

GEOCHEMISTRY.
Sn
Cu
Pb
Zn
As
W

5 cm

RENISON LIMITED 74-1047	
E.L. 42/71	
CRIMSON CREEK GRID	
LINE 195 W	
SCALE. 1:5000 METRES.	
DRAWN	R.N.L.
TRACED	F.A.C.
DATE	23.7.74
SCALE	1:5000
DRAWING No.	1552