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Vol. 1 of 2

Prospect 7602

7777/85

CSR LIMITED

MINERALS EXPLORATION AND DEVELOPMENT GROUP

RENEWAL REPORT - 1985

EXPLORATION LICENCE 15/76

DUNDAS, TASMANIA

EMR 72/85

HOBART

JUNE 1985

P.D. ELLIS

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KEYWORDS

TASMANIA	EXPLORATION
TIN	MINERALISATION
COPPER	VLF-EM
LEAD	MAGNETICS
ZINC	CSAMT
EL15/76	GEOPHYSICS
8SK55-03	DUNDAS
GEOLOGY	JOINT VENTURE

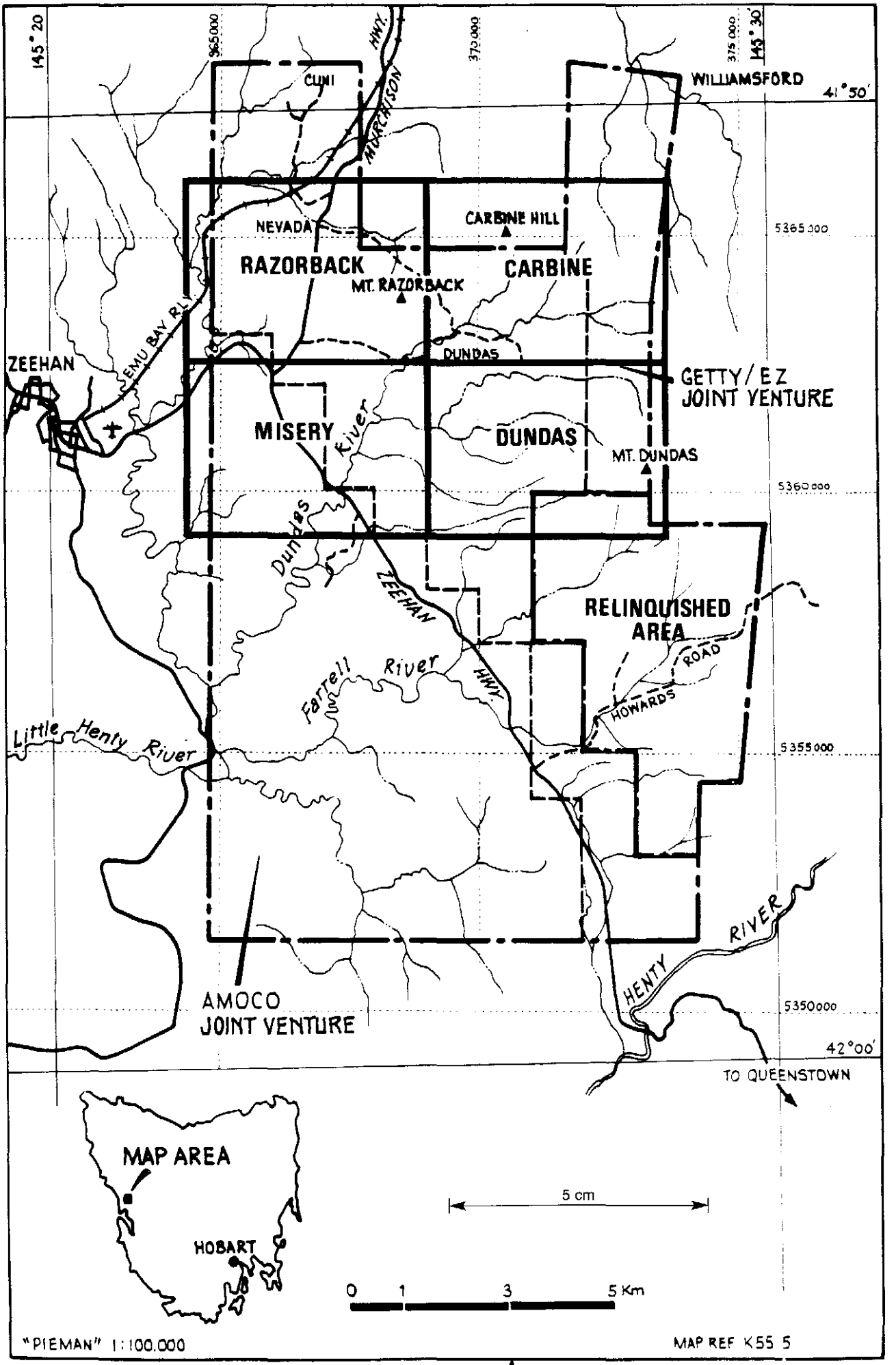

FIG. 1. LOCATION MAP E.L. 15/76 DUNDAS, TASMANIA

1. INTRODUCTION

Exploration Licence 15/76 (EL 15/76) was granted to CSR Limited on 2nd August, 1976. The Licence originally covered an area of 145km^2 situated east of Zeehan on the west coast of Tasmania (Figure 1). It extends south from Melba Flats and Williamsford to the Henty River and west from Mt Dundas to the Little Henty River.

This area contains small silver/lead/zinc deposits (Dundas), a small tin orebody (Mt Razorback), small copper/nickel shows (Cuni/Lead Blocks), small complex lead/antimony-rich sulphides with minor Sn, Ag, Bi, W (Montezuma) and several minor lead/zinc/silver concentrations (Mariposa). There is also potential for silver/lead/zinc mineralisation with tin sulphides in the upper units of the Oonah Formation (Oonah-Mine type), copper/zinc/silver/tin associations in the acid volcanics of the Dundas Group, and Renison-style replacement tin deposits.

Prior to 1976 the area was intensely prospected by many companies and individuals as well as investigated by government researchers. Since 1976 CSR has undertaken exploration to evaluate the Licence. Recently portions of the Licence were joint ventured to Amoco (west of the Murchison Highway) and EZI/Getty (northeast Montezuma area).

In August 1984 the area of the Licence was reduced by 21.78km^2 to comply with the Department of Mines revised Exploration Licence conditions.

On 2nd August, 1984 the reduced 124km^2 area was renewed for a further 12 month period. This report summarises the investigations completed during this renewal period.

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2. SUMMARY

Exploration of EL15/76 by CSR and two groups of joint venture partners, Amoco and EZI/Getty, continued through 1984 and early 1985.

Amoco continued drilling on the areas of Gordon Limestone in the southwest of the Licence. One set of holes in the Mariposa area showed significant mineralisation. New areas in the south of the area will be explored during the next period.

EZI/Getty completed exploration drilling of the northeast Montezuma area with disappointing results. One drill target remains.

CSR continued investigations in the South Nevada Creek area. The tin source is probably small quartz/cassiterite veins related to faults. The Carbine Dighem anomaly has been gridded and traversed with magnetics and VLF-EM. Further investigations for a deep tin target are required. An aeromagnetic anomaly in the Cuni area has been investigated and ground magnetics have shown further work is required. Detailed regional mapping has been undertaken as part of a Ph.D. study by P. Kitto. Several carbonate horizons have been located in the course of this work.

3. GENERAL INFORMATION

The sealed Murchison Highway diagonally bisects the Licence area and a series of unsealed roads, tracks and old tram ways give reasonable access to most parts of the Licence.

All but the northeast portion of the Licence is drained by tributaries of the westerly flowing Little Henty-Henty River system. The northeast is drained by the headwaters of the Ring River which flows into the westerly draining Pieman River system. Most of the streams are small and steep; typically "young" streams. On the flat areas of the easily eroded Gordon Limestone (southwest) the streams form swamps.

Vegetation in areas of Silurian, Devonian and Ordovician sedimentary rocks is generally button grass with local patches of dense ti-tree/sword grass/bowrah scrub. The remainder of the Licence is covered by temperate rainforest with patches of dense "horizontal" scrub. Small areas of open cleared grassland are present near Dundas and Cuni.

In 1981, Amoco Minerals Australia Company expressed an interest in obtaining exploration rights to areas of Ordovician Gordon Limestone. A Joint Venture Agreement between CSR and Amoco was finalised in December 1981 under which Amoco assumed responsibility for exploration of the portion of EL15/76 to the southwest of the Murchison Highway (Figure 1).

In late 1981 EZI and Getty Oil Development Company Ltd. approached CSR with a view of joint venture exploration of the Montezuma area of EL15/76. A Heads of Agreement was signed in early 1982 covering the old Geophoto Montezuma Grid and the CGFA Grid (Figure 1).

4. PREVIOUS EXPLORATION

A brief resumé of all available previous exploration and prospecting data plus details of 1982 exploration is given in MacNamara and Ellis (1983). The 1983 and 1984 exploration is detailed in Ellis (1983) and Ellis (1984) respectively.

Since 1982 Amoco have established grids and completed geochemical drainage, soil and rock-chip sampling, magnetic, gravity, IP and EM surveys, costeaning and drilling over the Gordon Limestone. Geophysical and/or geochemical anomalies have been located in most of the gridded areas.

EZI/Getty have re-cut and extended CGFA grids and completed soil geochemistry, geological mapping and magnetic, Dighem and Genie EM surveys followed by drilling. The main anomalies are along the Montezuma Fault zone.

Since 1982 CSR has gridded areas of anomalous drainage geochemistry at Howards Road, Cuni, South Nevada and Nevada and completed soil geochemistry, geological mapping and magnetics and VLF-EM surveys. Dighem anomalies have been gridded and EM traverses completed, and airborne magnetic anomalies have also been gridded and traversed by magnetics and VLF-EM. Lithogeochemical analyses and detailed geological mapping of the Licence have been completed.

5. GEOLOGY

The geology of the area was described by Blissett (1962). Brown (1982) has re-mapped and reviewed the geology of the northern half of the Licence while Corbett (1985) has re-mapped the southern half.

A brief summary of the geology of the Licence area is included in MacNamara and Ellis (1983). More detailed geology on individual prospects is contained in Ellis (1982) and recent geological mapping is shown in Jones (1982a, 1982c, 1983), Kary and Jones (1983), Sainty (1982) and MacNamara (1983a, 1983b, 1983c).

Detailed geology of the northern half of the Licence is summarised in this report.

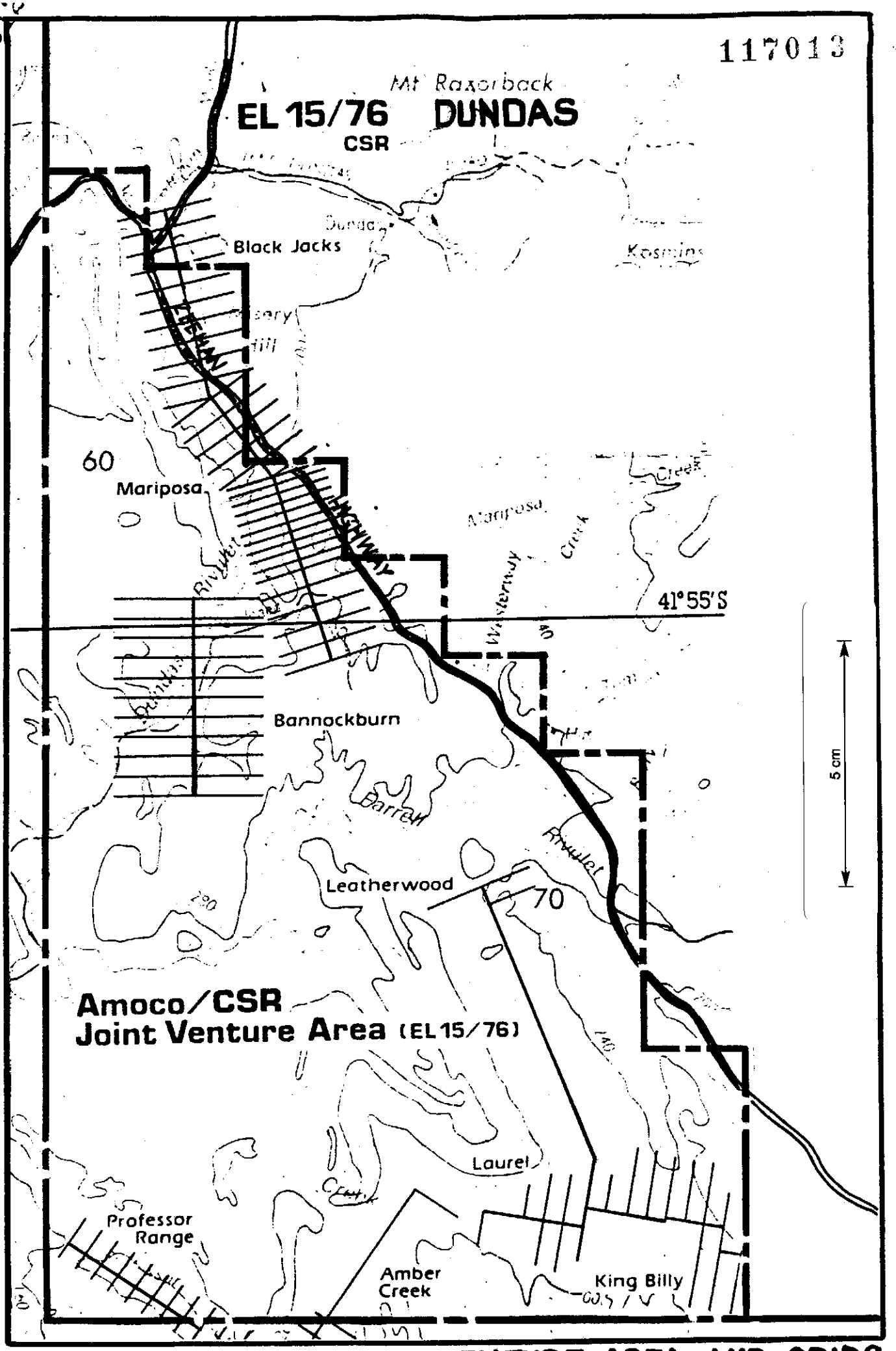

FIG. 2 CSR-AMOCO JOINT VENTURE AREA AND GRIDS

6. AMOCO JOINT VENTURE AREA

Amoco's main exploration target is the Irish-style lead/zinc/silver deposits in the Ordovician Gordon Limestone.

6.1 Current Exploration

Exploration by Amoco during the reporting period included 2,162m of diamond drilling, downhole gamma and PEM surveys, surface VLF-EM and PEM surveys, "wacka" bedrock sampling of boulder covered areas, lead isotope and geochemical studies of surface and drill hole mineralisation and rehabilitation of some of the exploration costeans. Most of this work centred on the Bannockburn, Sunny Corner, Mariposa and Blackjack's Grids (Figure 2).

Detailed results of this work have been reported by Kary, 1985 (Appendix I).

6.1.1 Gridding

Minor infill gridding at the Blackjacks, Mariposa and Bannockburn areas enabled "wacka" bedrock sampling to be completed.

Detailed gridding of the Sunny Corner area enabled EM and "wacka" sampling to be completed.

6.1.2 Drilling

Drilling continued in the Mariposa and Bannockburn areas and commenced in the Blackjacks area. Holes completed are as follows:

(a) Mariposa

DTM - 84-1 See Ellis, 1984

DTM - 84-2 See Ellis, 1984

DTM - 84-3 on Line 58825N/67288E to 072°T at -40°
0-66m Limestone
66-70m Dundas Group
70m EOH.

DTM - 84-4 on Line 59193N/67310E to 072°T at -40°
0-73m Limestone
73-77m Dundas Group
77m EOH

DTM - 84-5 on Line 59200N/67160E to 252°T at -40°
0-145.7m Limestone
145.7m EOH

DTM - 84-6 on Line 59075N/67170E to 252°T at -45°
0-238m Limestone
238m EOH

DTM - 84-7 on Line 59419N/67300E to 072°T at -45°
0-59m Limestone
59-65.5m Dundas Group
65.5m EOH

DTM - 84-8 on Line 59600N/67214E to 252°T at -45°
0-112m Limestone
112m EOH

DTM - 84-9 on Line 59158N/67040E to 072°T at -60°
0-28m Crotty Quartzite
28-200m Limestone
200m EOH

(b) Bannockburn

DTB - 84-1 See Ellis, 1984

DTB - 84-1A on Line 56900N/65699E to 091°T at -50°
0-69m Crotty Quartzite
69-212.7m Limestone
212.7m EOH

(c) Sunny Corner

DTSC - 84-1 on Line 57781N/65388E to 040°T at -45°
0-70m Limestone
70m EOH

DTSC - 84-2 on Line 57807N/65356E to 030°T at -45°
0-70.2m Limestone
70.2m EOH

DTSC - 84-3 on Line 57800N/65870E to 091°T at -45°
0-43m Crotty Quartzite
43-72.1m Limestone
72.1m EOH

DTSC - 84-4 on Line 57905N/65620E to 215°T at -45°
0-46m Crotty Quartzite
46-105m Limestone
105m EOH

DTSC - 84-5 on Line 58054N/65420E to 222°T at -45°
0-44m Crotty Quartzite
44-54m Limestone
54m EOH

(d) Blackjacks

DTBJ - 84-1 on Line 60830N/67225E to 075° at -40°

0-102.5m Limestone
102.5m EOH

DTBJ - 84-2 on Line 61050N/67160E to 075°T at -45°

0-23m Crotty Quartzite
23-98.5m Limestone
98.5m EOH

6.1.3 Drillhole Geochemistry

Mineralised intervals were sampled and analysed. Best intersections for the holes were:

(a) Mariposa

DTM - 84-1	Trace galena/sphalerite
DTM - 84-2	131-151m at 2.5% Pb, 0.9% Zn, 43.4 ppm Ag
DTM - 84-3	21-24m at 0.6% Pb, 0.20% Zn, 36 ppm Ag
	28-31m at 0.2% Pb, 1.4% Zn, 5 ppm Ag
DTM - 84-4	41-42m at 0.4% Pb, 0.7% Zn, 4 ppm Ag
	70-17m at 4.1% Pb, 2.45% Zn, 280 ppm Ag
DTM - 84-5	44-53m at 1.2% Pb, 1.6% Zn, 21.4 ppm Ag
DTM - 84-6	158-166m at 3.0% Pb, 0.41% Zn, 44.8 ppm Ag
DTM - 84-7	8-20m at 2.0% Pb, 1.5% Zn, 48.4 ppm Ag
DTM - 84-8	37-38m at 2.55% Pb, 5.32% Zn, 14 ppm Ag
DTM - 84-9	37-46m at 6.41% Pb, 0.85% Zn, 53.2 ppm Ag

(b) Bannockburn

DTB - 84-1A Trace galena/sphalerite

(c) Sunny Corner

DTSC - 84-1	15-16m at 0.6% Pb, 1.10% Zn, 4 ppm Ag
DTSC - 84-2	No mineralisation
DTSC - 84-3	52-64m at 2.1% Pb, 0.3% Zn, 25.8 ppm Ag
DTSC - 84-4	66-67m at 1.4% Pb, 0.67% Zn, 4 ppm Ag
DTSC - 84-5	Trace galena

(d) Blackjacks

DTBJ 84 - 1	Trace galena/sphalerite
DTBJ - 84-2	No visible mineralisation

Best results came from the Mariposa area where a zone 5m wide extending along strike for 350m and to a depth of at least 120m and grading about 4% Pb + Zn and 40 ppm Ag.

Drilling (below highest costean geochemistry) in the Sunny Corner area failed to intersect any mineralisation. Karst fill zones were intersected at the inferred mineralisation position in two holes.

6.1.4 Down hole Geophysics

(a) Gamma Logging

Fifteen holes were logged by Mitre Geophysics. Incomplete results (due to caving of the PVC tubing) and facies variation in the limestone prevented log correlations.

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Elevated counts at the edge of the Crotty Quartzite contrast with low counts in the limestone were recorded.

(b) PEM

Crone PEM surveys of the drillholes showed only a poor conductor response below DTM - 84-9 at Mariposa. This was a small body conformable to the bedding, and did not warrant drill testing.

6.1.5 Surface Geophysics

A limited PEM survey was conducted over the Sunny Corner area. No significant responses were noted.

A VLF-EM study using Japan and Northwest Cape transmitting stations was conducted over the Blackjacks, Mariposa and Bannockburn grids. VLF-EM anomalies show good correlation with faults and soil geochemical anomalies.

6.1.6 Bedrock Geochemistry

"Wacka" sampling was completed on several lines on the Blackjacks, Mariposa and Sunny Corner grids. Areas previously sampled by Jackro drilling were traversed to compare the two drilling methods (see Kary, 1985).

Several spotty values up to 7700 ppm Zn and 4100 ppm Pb were recorded within the Blackjacks area, but no anomalous geochemical zones were outlined.

Values up to 1.3% Pb and 0.75% Zn were noted on the Mariposa grid adjacent to old workings. These areas, covered by thick river gravels, were subsequently tested by diamond drilling.

Samples in the Sunny Corner area showed values up to 2.5% Zn and 3.2% Pb adjacent to the Gordon Limestone/Crotty contact. This 400m long zone was partially tested by diamond drilling.

6.1.7 Costean Geochemistry

Assays from the 4 costeans in the Professor Range area confirmed the visible mineralisation. Best results were:

Line 50900N 65216-65218E at 0.03% Pb, 1.17% Zn
65354-65360E at 0.5% Pb, 0.8% Zn, 2 ppm Ag

Line 51100N 65278-65286E at 1.4% Pb, 0.5% Zn, 6 ppm Ag
65294-65298E at 0.9% Pb, 0.5% Zn, 5 ppm Ag

Line 51300N 65362-65366E at 1.26% Pb, 2.18% Zn, 11 ppm Ag

Comparison of costean geochemistry and drilling results showed the costean and Jackro samples represented a surface enrichment (up to 4 times) in base metals. This surface enrichment effect may be minimised by deeper sampling with the "wacka" drill.

Lead isotope studies of 13 costean and drill samples showed the mineralisation to be of Cambrian to Ordovician age. This supports a syngenetic or syndiagenetic origin for the mineralisation.

Additionally, petrological examination of 18 core and costean samples revealed evidence for bedded and infill sulphide mineralisation, similar in texture and lithology to Irish-style base metal mineralisation.

6.1.8 Rehabilitation

Under the instruction of a consultant botanist, most of the costeans and some of the drill tracks were filled-in, covered with soil and, in some cases, replanted. Present indications are that this rehabilitation has been successful.

The remaining costeans will be rehabilitated next summer.

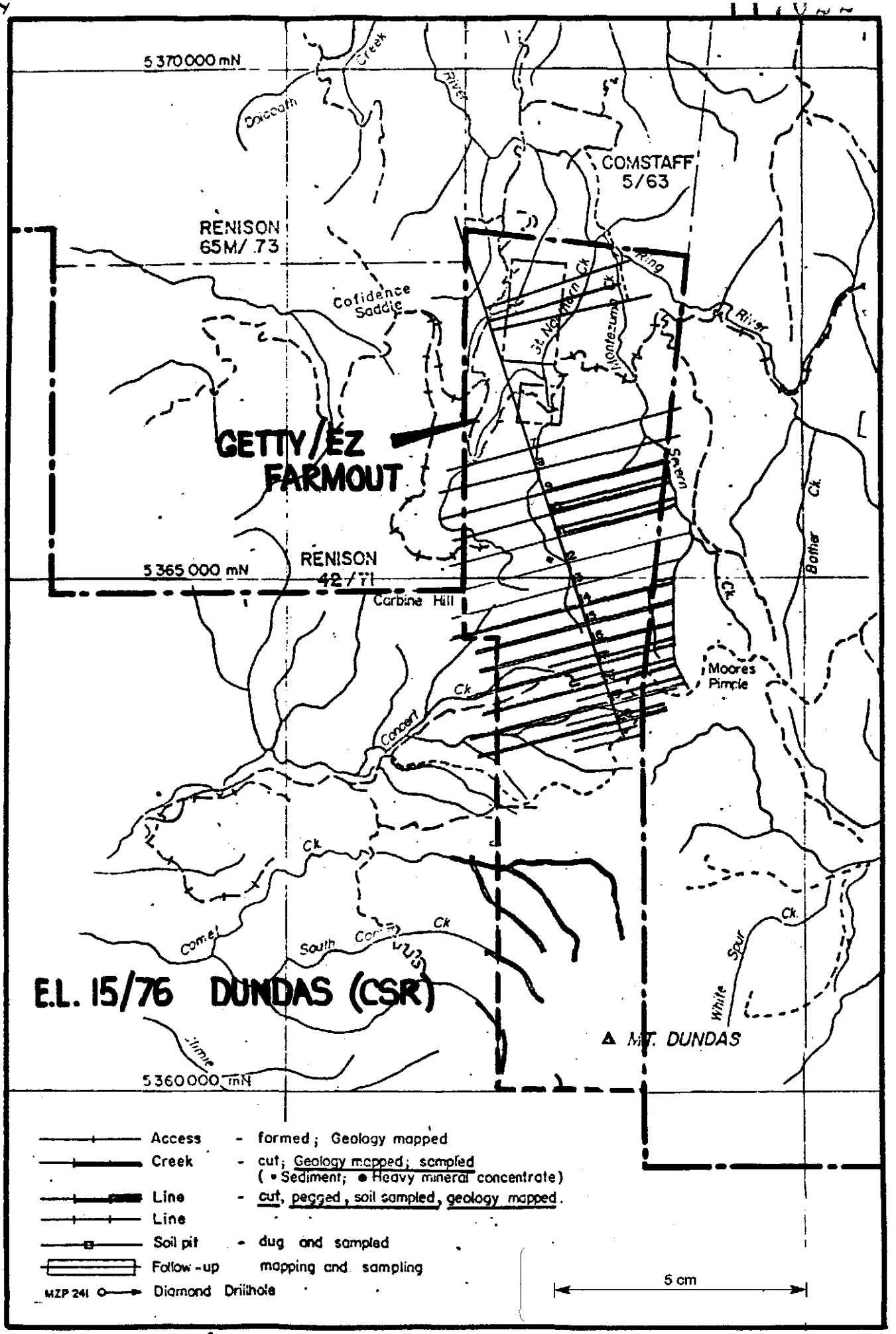

FIG. 3 E.Z./GETTY JOINT VENTURE AREA AND GRIDS

7. EZI/GETTY JOINT VENTURE AREA

EZI/Getty's main exploration target in the 14km^2 Montezuma area is Renison-style, carbonate-hosted tin mineralisation. Lead/zinc, complex sulphide or gold-rich deposits are of secondary interest.

7.1 Current Exploration

EZI (operators) continued field work on the old CGFA and Geophoto grids and adjoining areas (Figure 3) which included Phase II drilling, pit sampling of unexplained anomalies and a review of the gold potential. This work was completed in the first half of the renewal period. No work was undertaken in the second half due to uncertainties of the future of Getty.

Detailed results of this work have been reported by Sainty (1984), Appendix II. The following is a brief summary.

7.1.1 Diamond Drilling

MZP 261 was the second of two holes targetted beneath a broadened zone of enhanced soil and bedrock Sn values on the Montezuma Fault to test for either carbonate-hosted or structurally controlled Sn.

MZP 261 at 5300E on line 10 was drilled at -50° on an azimuth of 256° GN and intersected Dundas Group sediments for the entire 241.0m length. Minor galena/sphalerite veining at 55.0-69.9 and 100.6-110.6m were thought to represent the Montezuma Fault. Highest assays from these zones were:

61.3-61.8m with 1.33% Pb, 5.10% Zn, 51 ppm Ag and 3340 ppm Sn
68.35-69.6m with 0.43% Pb, 0.38% Zn, 34 ppm Ag and 1320 ppm Sn
105.9-107.1m with 2.62% Zn and 1220 ppm Sn
109.1-110.3m with 4.17% Zn, 40 ppm Ag and 1530 ppm Sn

Strongly sheared and carbonate-veined (with minor pyrite) black shales at 161.9-184.0m and 209.7-241.0m showed no anomalous geochemistry.

A down hole Sirotem survey was attempted on holes MZP 244 and MZP 245a. No useful results were obtained due to blockages at 135m and 193m, respectively, well above the target depths.

Petrological samples from MZP 258 showed the fault breccia mineralisation consisted of tourmaline-quartz-arsenopyrite-pyrite-pyrrhotite-sphalerite-cassiterite with late-stage sphalerite-jamesonite-silver sulphosalts. The flanking zone of disseminated sulphides consisted of pyrite-sphalerite mineralisation.

7.1.2 Pitting

An unexplained magnetic anomaly on Line 14 was pitted and sampled at 3 sites between 5280E and 5330E. The pits exposed a weakly magnetic siltstone within the Crimson Creek Formation equivalents which explained the anomaly.

Samples from the pits showed slightly elevated Cu and Zn values.

7.1.3 Gold Potential

Rock-chip samples from drill access track mineralisation, the Curtin-Davis group of mines and drill core of the Maestries Dolomitic Conglomerate were submitted for Au analyses.

One sample from the access track mineralisation assayed 1.37 ppm Au with 7.23% Pb, 0.61% Cu, 2.60% As, 2150 ppm Ag and 1130 ppm Sn and represents part of a banded jamesonite-pyrite vein. Six other samples from the Montezuma Fault mineralisation showed 0.1-1.0 ppm Au. However, the majority of the track samples showed less than 0.008 ppm Au.

Only 5 samples of the Dolomitic Conglomerate in MZP 244 and MZP 245 contained more than 0.008 ppm Au. These all came from the mineralized zone at 167.45-171.7m in MZP 244.

Of 13 samples from old mine areas only 2 from the discontinuous mineralisation at the collar of MZP 244 showed significant values, i.e. 3.05 and 2.61 ppm Au

7.2 Proposed Exploration

The only outstanding anomalous area is the Line 18 intersection of the Maestries Dolomite Conglomerate with the Montezuma Fault. This area still remains a possible site for Renison-style replacement Sn mineralisation. An 800m+ hole is required to test a zone 500m below surface at this site.

No further work is planned unless the economics of Sn production improves.

8. 100% CSR AREA

The 51km^2 central strip includes the Cuni and Dundas mineral fields.

The exploration target in this area is Renison-style replacement tin mineralisation.

8.1 Current Exploration

Exploration continued on the South Nevada Creek Sn anomaly (petrography/mineralogy, ground magnetics and VLF-EM), the airborne magnetic anomaly in the Cuni area (ground magnetics and CSAMT), the Carbine EM anomaly (gridding with ground magnetics and VLF-EM) and the regional detailed mapping of the area.

8.1.1 South Nevada Creek

Work on the Sn anomaly within the Siluro-Devonian sediments of the South Nevada Creek area (Ellis, 1984) included panned concentrate sampling, petrographic/mineragraphic examination of polished thin section grain mounts and traversing the anomalous area with ground magnetics VLF-EM and VLF resistivity (DRG. No. 7602-1).

Panned concentrate samples for petrographic-mineragraphic examination were collected at 500m intervals along the stream. All samples consisted of two medium (15") panfuls of -10 mesh material panned to about 200 grams. No heavy media separation of heavy minerals was attempted. The final mounted samples contained 75-85% quartz grains, 6-8% rock fragment grains, 6-8% chromite and traces of tourmaline, zircon, cassiterite, rutile and pyrite (Appendix III).

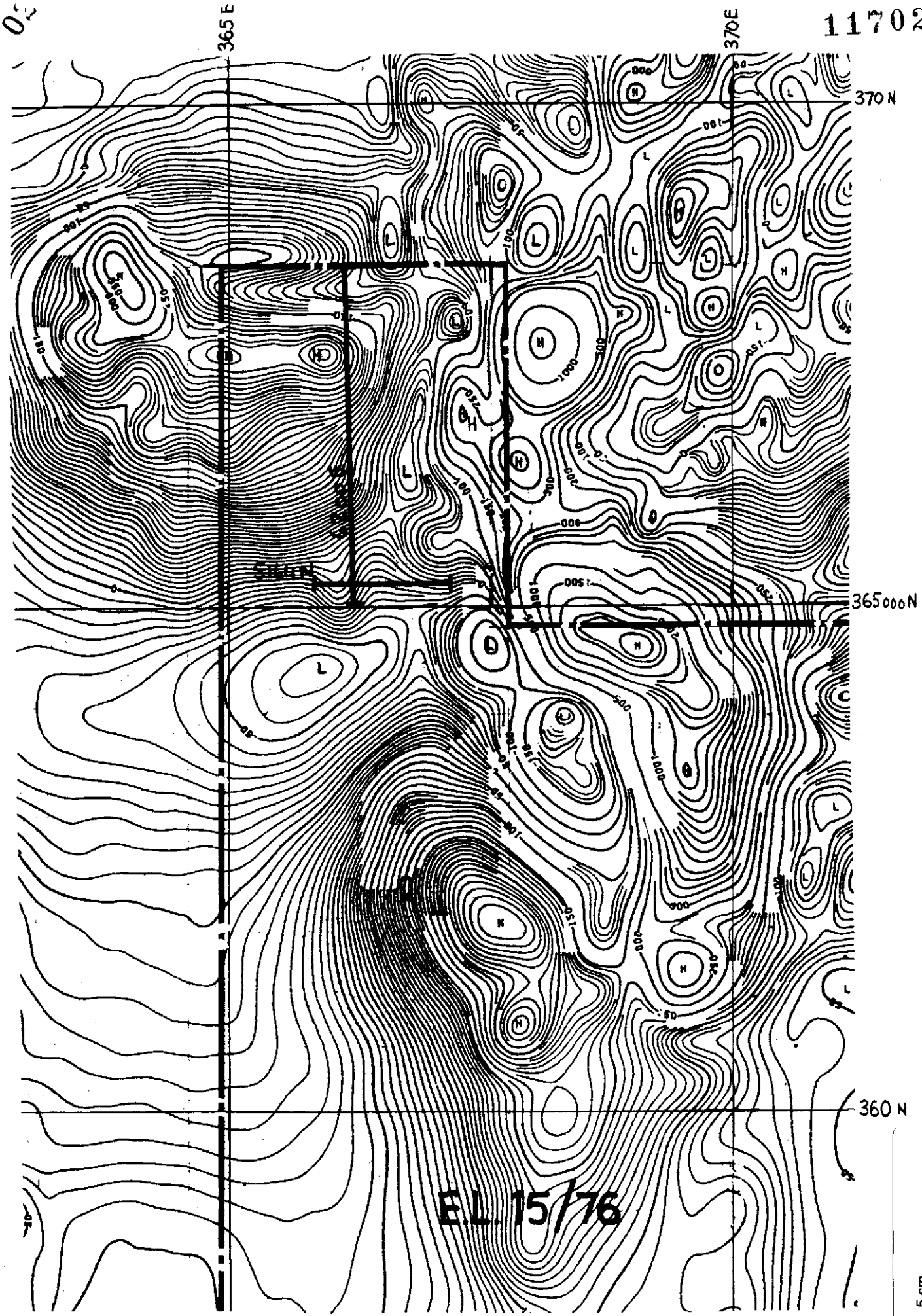

FIG. 4. AEROMAGNETIC CONTOURS CUNI AREA
FROM MINES DEPT. 1:50000 SHEET

The quartz grains are from two sources; a finer population of sub-rounded grains derived from a sandstone source such as the surrounding Crotty and Keel Quartzites; and a coarse angular population derived from veins. Rock fragments consist of shales, phyllites and meta-siltstones which are probably derived from the Amber Slate underlying the floor of the valley. Much of the chromite is reworked, rounded to sub-rounded grains from an ultramatic source. The cassiterite grains tend to be angular and are derived locally as are the few pyrite and sphalerite grains. Tourmaline, rutile and zircon grains tend to be rounded, indicating reworking.

In view of the angular, locally derived nature of the cassiterite grains and the size of the drainage tin anomaly, eight 160m spaced lines orientated at 45° magnetic were pegged to provide control for follow-up work. A ninth base reference line 350m to the southeast covered similar geological units but in a drainage with no tin anomalies. These lines were traversed with magnetics, VLF-EM and VLF resistivity at 25m intervals from the Gordon Limestone (NE) to the Austral Creek Siltstone (SW) covering the intervening Crotty Quartzite, Amber Slate and Keel Quartzite.

Results of these surveys (Appendix IV, DRG. No. 7602-2) showed no significant anomalies. VLF-EM crossovers tended to define the change of slope at the edges of the swampy valley floor.

The lack of any magnetic or VLF-EM response suggest the Sn drainage anomaly is due to cassiterite carrying veins possibly in the floor of the valley.

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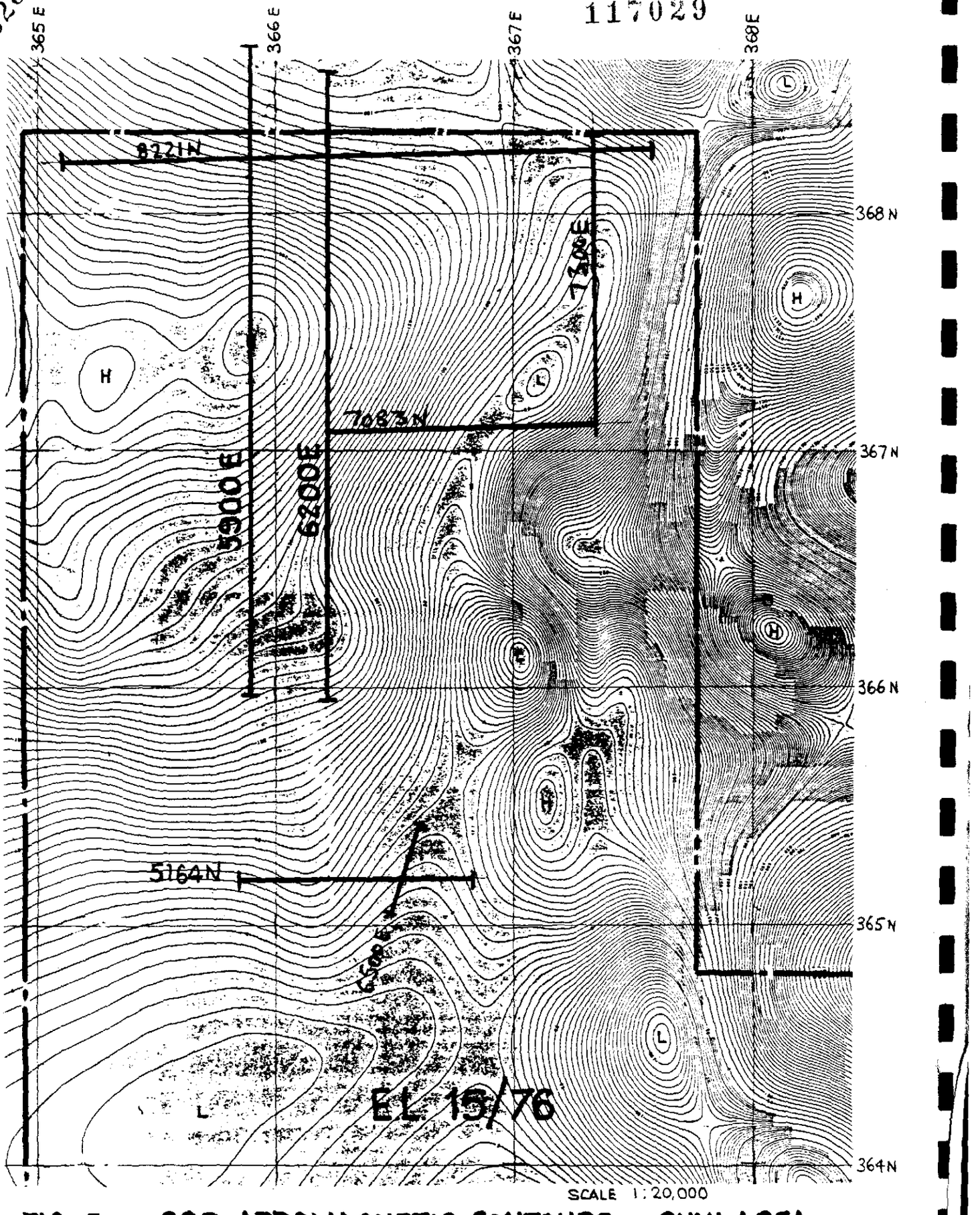


FIG. 5. CSR AEROMAGNETIC CONTOURS CUNI AREA
E.L. 15/76 DUNDAS

5 cm

No further work is warranted.

8.1.2 Cuni Airborne Magnetic Anomaly

Reprocessing by Pitt Research and CSR of Geoex airborne magnetic data (Ellis, 1984) highlighted a large sub-circular anomaly in the north Cuni area. This anomaly extends into Renisons' EL 41/71 (Figures 4 and 5).

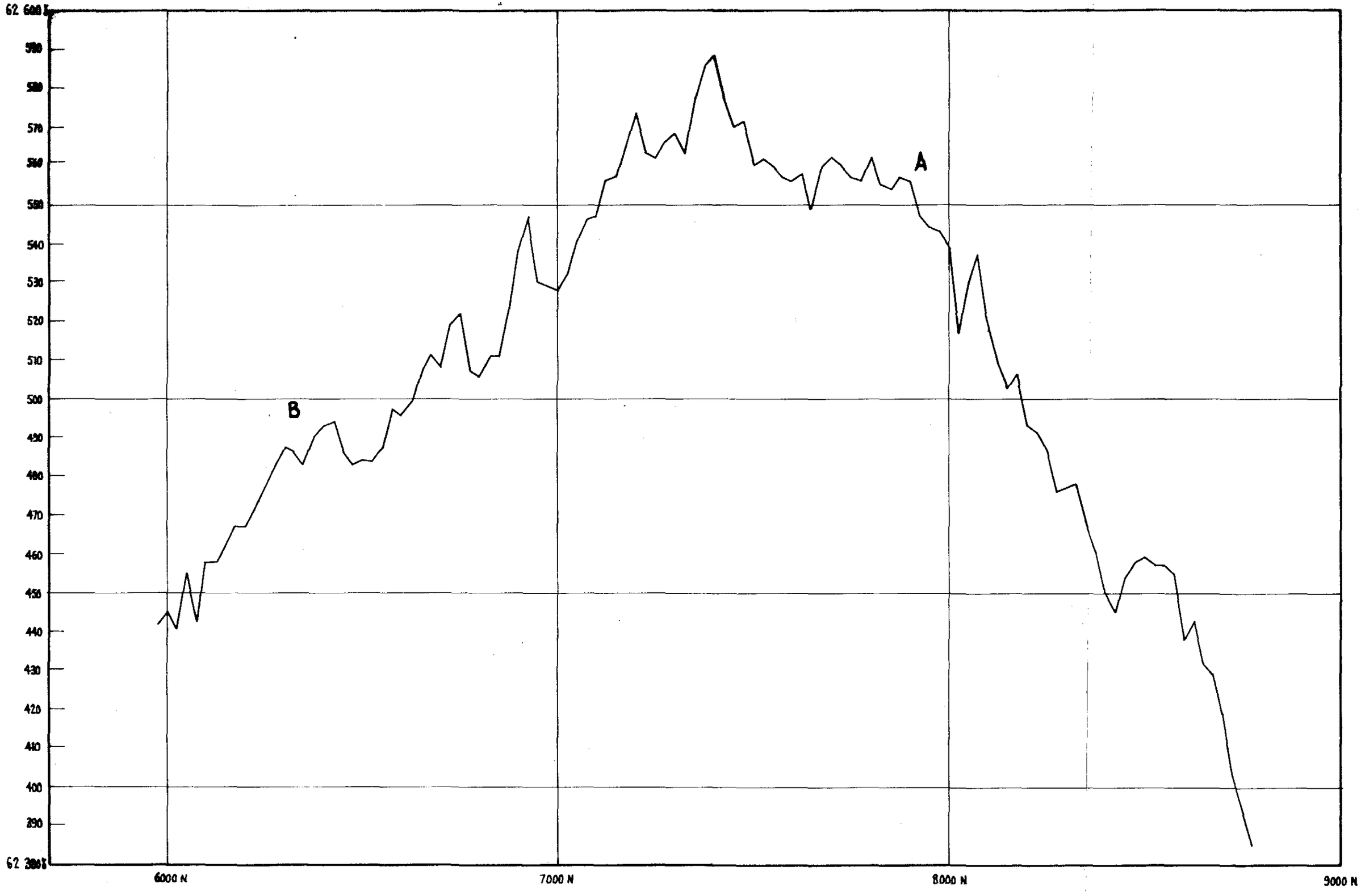
The anomaly was poorly defined as the survey lines (1370 and 1362) only flanked the main closure of the anomaly. Ground magnetic traverses were initiated in an attempt to better define the peak of the anomaly. Two north-south traverses (5900E and 6200E) were completed with readings at 25m intervals (DRG No. 7602-11).

Survey results and magnetic modelling (Appendix V, Figures 6 and 7) indicated that the main aeromagnetic anomaly is at a depth of 700-800m and may represent a granitic body. On the north and south flanks of this main body several shallower secondary anomalies (A and B) are also apparent. These were interpreted to be at depths of 250 to 320m and may represent alteration zones or a halo around the deeper body.

If the deeper body is a granite intruding the basal Cambrian Crimson Creek Success Creek sequence (Renison Mine Sequence) which contains carbonate horizons, then the shallower anomalies may reflect pyrrhotite replacement bodies.

The entire area is currently being gridded at 200m spacings to provide control for detailed ground magnetic surveys.

030



NOTE : SEE FIG. 5 AND DRG. Nº 7602-11 FOR LOCATION OF LINE

FIG. 6 CUNI LINE 5900 E MAGNETIC PROFILE E.L. 15/76 DUNDAS, TASMANIA

A trial CSAMT survey was run over line 5900E. Preliminary results confirm the presence of the deeper body. Corrected and normalised results are expected shortly.

8.1.3 Carbine EM Anomaly

Surface impedance and VLF-EM measurements (TSIM and VLF resistivity) over the Carbine Dighem anomaly defined an area of deep potential mineralisation (Ellis 1984). This area was further investigated by re-opening the Geophoto Carbine Grids (DRG No. 7602-3) and traversing with ground magnetics and VLF-EM.

The ground magnetics (Appendix VI, DRG No. 7602-4) defined the position of a dolerite dyke in the east of the grid and a steeply north plunging magnetic body on lines 66N and 68N at 400-500mE. Although several very low readings were obtained at 225 to 250mE on lines 60N and 52N the magnetic response over the rest of the area were flat.

The VLF-EM profiles obtained do not show any anomalism on the eastern ends of lines south of 52N. However in the northern lines and the western ends of most lines, readings were noisy with some significant responses. Cross-overs occur on lines as far north as 60N just to the west of the baseline. On the lines north of 66N cross-overs occur at the baseline and eastwards.

The Dighem anomaly has not yet been explained by either the VLF-EM or magnetic responses. Further work is required, particularly since several carbonates and much mineralisation have been located in the area.

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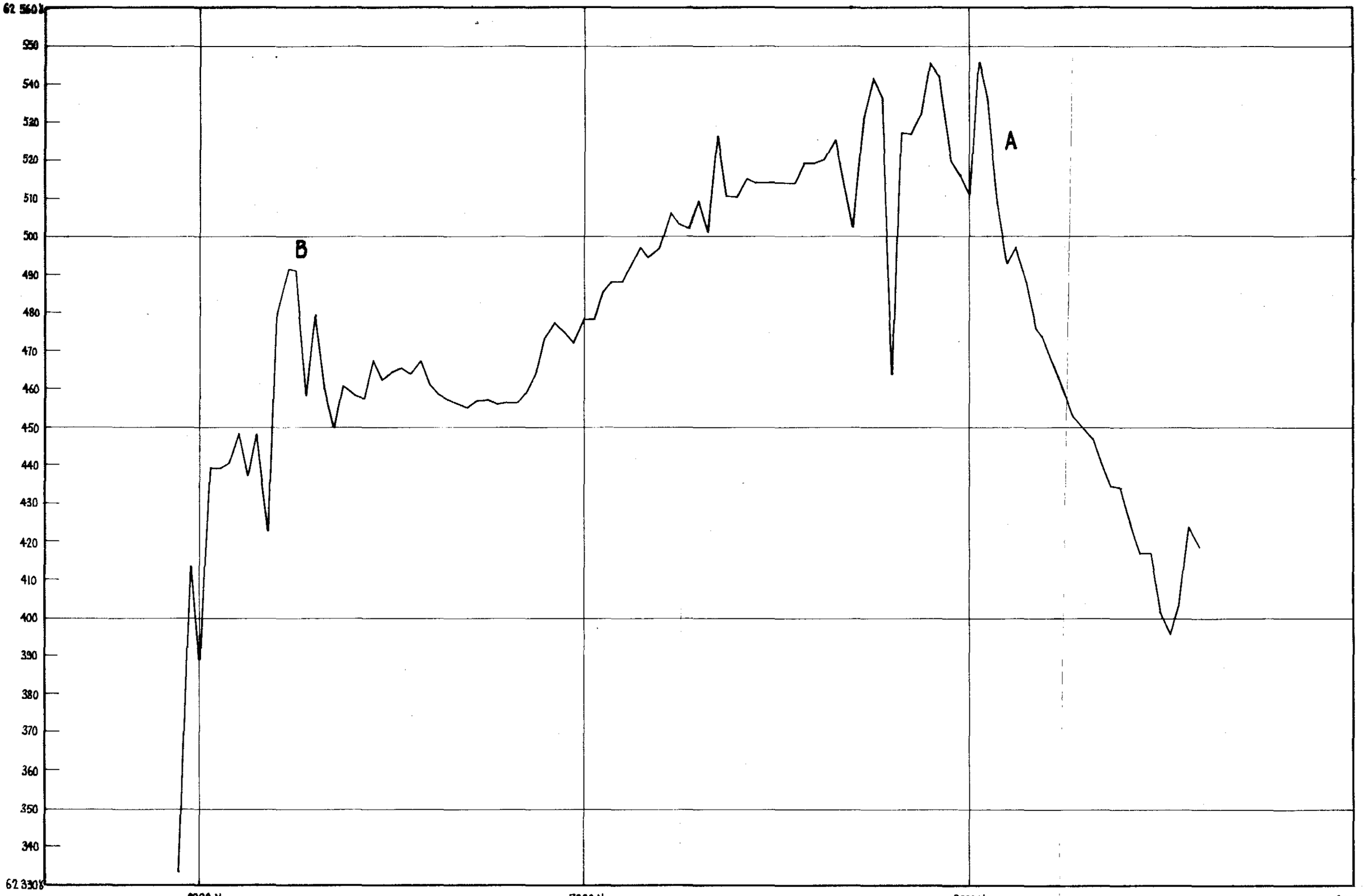

NOTE: SEE FIG. 5 AND DRG. No. 7602-11 FOR LOCATION OF LINE

FIG. 7 CUNI LINE 6200 E MAGNETIC PROFILE E.L. 15/76 DUNDAS, TASMANIA

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After a detailed evaluation of the data obtained by these surveys, it is planned to position a gradient array I.P. survey possibly followed by dipole-dipole surveys over any anomalous areas.

8.1.4 Regional Mapping

P. Kitto mapped much of the Dundas area as part of a Ph.D. study at the University of Tasmania. The mapping included traversing many of the roads, streams, tracks and grids in the area to the east of the Murchison Highway and north of Mt. Dundas.

This mapping was compiled onto a set of geological fact (DRG No's 7602-5, 7602-6, 7602-7, 7602-8) and interpretative (DRG No's 7602-9, 7602-10, 7602-12, 7602-13) plans.

Several carbonate occurrences were noted. Significantly most of the newly discovered carbonates are in the basal Crimson Creek succession in the Carbine area.

Thin sections of some rocks and most of the mineralised zones have been cut and are being examined.

8.2 Further Exploration

The CSAMT survey results will be evaluated.

Magnetic surveys and geological mapping will be completed over the Cuni area in an attempt to define the size, shape and position of the anomalies. Drill testing may follow if prospective targets are outlined.

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The geophysical and geological data over the Carbine area will be reviewed. An I.P. survey will be conducted over the EM anomaly in an attempt to define drill targets.

The trace element lithogeochemical information will be re-assessed in the light of recently acquired geological information.

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9. REFERENCES

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CORBETT, K.D. 1985 : Geological compilation map of the Mt. Read Volcanics, Que River to Mt. Darwin. Tas. Dept. Mines (unpub.).

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SAINTY, R.A. 1982 : Part EL15/76, Progress Report on Activity 22 Feb to 21 Nov 1982. EZI Co A'Asia Ltd Report No 166 (unpub.).

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APPENDIX I

AMOCO MINERALS ANNUAL REPORT

See accompanying report

KARY, G.L., 1985: Annual Report, July 1984 to June 1985 Amoco/CSR Joint Venture, Part Exploration Licence 15/76, Dundas, Tasmania Amoco Minerals Australia Company (unpub.)

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APPENDIX II

ELECTROLYTIC ZINC COMAPNY A'ASIA -

MONTEZUMA JOINT VENTURE

PART EL15/76 - PROGRESS REPORT, 1984

See accompanying report

SAINTY, R.A. 1984: Montezume J.V., Part E115/76
Report on Exploration Activity
30 May to 13 November, 1984
EZ Co A'Asia Ltd, Report No T197
(unpub.)

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APPENDIX III

PETROGRAPHY/MINERALOGY OF PANNED CONCENTRATE

SAMPLES FROM THE SOUTH NEVADA CREEK

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Pontifex & Associates Pty. Ltd.

TEL. 332 6744
A.H. 31 3816

26 KENSINGTON ROAD, ROSE PARK
SOUTH AUSTRALIA

P.O. BOX 91, NORWOOD
SOUTH AUSTRALIA 5067

MINERALOGICAL REPORT NO. 4461

4th December, 1984

TO: Mr. P.D. Ellis,
CSR Ltd.,
35 East Derwent Highway
LINDISFARNE TAS 7015

COPY TO: The Manager,
CSR Ltd.,
AMCDivision
GPO Box 483
SYDNEY NSW 2001

YOUR REFERENCE: Purchase Order 41555
Field Sample Sheet 13066
Project Code 602

MATERIAL: Panned heavy mineral concentrates

IDENTIFICATION: A161451, 556, 558, 466, 468

WORK REQUESTED: Preparation as polished thin section grain mounts, petrographic/mineragraphic examination and report.

SAMPLES & SECTIONS: Returned to P.D. Ellis with this report.

PONTIFEX & ASSOCIATES PTY. LTD.

PROCEDURE

The panned concentrates, as received, were mounted as polished thin section, so that the opaque and translucent grains could be examined in the one representative sub-sample.

In all samples, quartz and rock fragments, greatly exceeded the abundance of heavy mineral grains, even so, it was decided to mount a representative sub-sample 1 of the material as received, since the size, shape and composition of the grains reported here-in may be more meaningful in terms of what CSR understand their sample to represent in total; also the identification of the rock fragments and their relative abundance may be important in terms of information of the source (as requested).

For future samples, if in fact it is the specific characteristics only of the heavy mineral grains is all that is required, then this fraction may be isolated from the material as received by:

(1) passing the sample through a 20 mesh or 30 mesh or other appropriate size sieve, chosen for each sample to remove the bulk of the quartz grains and rock fragments (coarser) and allow the bulk of the heavy minerals (finer) to pass through.

(2) if necessary a concentrate of the finer fraction can be done by careful hand panning in the laboratory, or by super panner if required.

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A161451H

Field note: lower end of drainage.

Grain size range 0.1 mm to 1.6 mm.

The sample consists of:	approximate abundance
quartz grains; average size about 0.8 mm	75 - 80%
shale, phyllite meta-silt fragments; average size 0.5 mm	15 - 20%
chromite grains; average size about 0.3 mm	5%
tourmaline, zircon, cassiterite, rutile	each trace

Most quartz grains are single crystal grains, variably angular to rounded. About one fifth of the quartz grains are composite and include metafine quartz sandstone, metaquartz siltstone or chert, and vein quartz micromosaic. The rounded grains are mostly clear, some have relicts of authigenic overgrowths and appear to derive from sandstone. Most of the coarser more angular grains are stressed and clouded by minute fluid inclusions, (so are some "sandstone" grains), but as single crystals their origin cannot be distinguished as igneous, metamorphic or vein quartz. The composite and stressed quartz grains clouded by minute fluid inclusions do however appear to be "vein-quartz".

The rock fragments consist of carbonaceous fine mica schist or shale, incorporating minor quartz silt. Some have minute crystals of random biotite, and trace tourmaline, to suggest possible low-grade contact metamorphism.

The opaque heavy mineral grains consist entirely of chromite with a subrounded to rounded form, which partly represents their original isometric, octahedral crystal form, (even though many are distinctly rounded).

.../.

A161451H continued:

Many have an inernal extremely fine granular aggregate fabric, and internally microcracked texture commonly seen in chromite in ultramafic rocks. Some are translucent, deep amber-red colour, indicating the picotite variety of chromite. Others have a brownish tint, transitional in optical colour to magnetite, and probably an Fe-rich variant of the chromite. All chromite grains are "free" i.e. not composite with any other phase.

Most of the rare non-opaque heavy minerals in this sample are grey-green tourmaline, and these are well rounded. One grain of cassiterite is present, this is twinned and angular to subangular, size is 0.4 mm.

Two small (0.15 mm) rounded grains of zircon, and one angular grain of rutile (0.15 mm) are also present.

A161556

Grain size range 0.1 mm to 2.4 mm	approx. abundance
quartz grains; average size about 0.8 mm	60 - 70%
fragments of (?carbonaceous) shale, phyllite; metasiltstone, rarely with pyrite; average size about 0.5 mm	5 - 7%
chromite grains; average size 0.6 mm	20 - 25%
pyrite grains	<1%
cassiterite and rutile	each trace

The variation in size, shape, form and optical properties of the quartz grains, and of the rock fragments is the same as in 161451.

Also the only opaque grains, (except for sparse pyrite in some rock fragments), is chromite, and these also have the same form, variation in roundness etc. as in 161451. As in 161451, the chromite grains all occur as individuals, except one picotite-chromite grain which is composite with several fine (0.3 mm) quartz sand grains cemented together with them by a limonitic cement.

It cannot be positively ascertained if the chromite is a previously reworked detrital heavy mineral component in a sandstone source rock to these panned samples submitted; or whether the chromite grains and the quartz grains have a separate source with this one composite chromite-quartz sand fragment having formed by cementation in-situ, in the drainage sampled.

The only non-opaque heavy mineral grains are cassiterite (2 grains), and rutile (1 grain). The cassiterite overall size is 0.6 mm and composed of an aggregate of very small (0.1 mm) crystals. The overall compact aggregate is angular (see. fig.3). The rutile grain is well rounded, yellowish and with well-developed twinning.

A single ragged grain of sphalerite is present, optically it has the same colour as cassiterite, but is is isotropic.

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A161466

Field note: right, top of drainage.

Grain size range 0.1 mm to 1.6 mm.	approx. abundance
quartz grains; average size 0.4 mm	95%
shaley rock fragments	2 - 3 %
chromite grains	<1%
rutile	trace
tourmaline	trace
zircon	trace

The variation in size, shape and detailed optical characteristics of the quartz grains correspond to the finer size population in sample 161558 but on the whole, slightly more angular. About one third of these are more or less composite and clouded by minute fluid inclusions, and are fairly confidently identified as vein quartz. The source of the other quartz grains is uncertain but certainly includes some from a sandstone source, thus the degree of roundness may be inhereted from that sandstone, and not necessarily related to the present drainage.

The rock fragments are of metapelite, but generally less schistose, and less silty than in the three samples above.

The few chromite grains are variably subangular (octahedral), subrounded, and rounded.

The rare rutile grains are subrounded very small prisms. Zircon and rutile are very small 0.1 mm.

A161558

Grain size range 0.1 mm to 3 mm.	approx. abundance
quartz grains; apparently 2 size populations	
one has an average size of about 2 mm	10 - 15%
one has an average size of about 0.4 mm	60%
fragments of shale or phyllite; average size 0.5 mm	7 - 10%
chromite grains average size 0.3 mm	5 - 7%
zircon grains; average size 0.15 mm	1%
tourmaline and rutile	each trace

The coarse population of quartz grains are also represented in 161451 and 556; these are stressed, with incipient subgrain development, clouded by numerous minute fluid inclusions, and generally have an angular to subangular outline. Some however are subrounded; and one coarse composite quartz grain is rounded.

The finer quartz grain population includes about 30% with the same characteristics as the coarse (ex vein quartz) grains. The remainder are subangular to subrounded, some rounded, some with relict authigenic overgrowths. These are the same as in previous samples and probably derived from a sandstone source.

The rock fragments are the same as in the two samples above 161451 and 556.

The only opaque heavy mineral grains are chromite, and the same as in the two samples above, except with a slightly higher proportion of rounded grains, with some well-rounded and spherical.

The zircon grains are subrounded to subangular, and largely reflect thieir original crystal form. One however is near spherical. The rare tourmaline grains (yellowish-greenish) are subrounded; the trace small (leucoxenised) rutile grains mainly retain their primary crystal form.

A161468

Field note: left top of drainage.

Grain size range 0.1 to 5 mm

The dominant quartz grains in this sample are the same as in 161558, in that two size populations are present. The sample is rather distinctive in the suite in that it contains the greatest abundance of translucent heavy minerals.

	approx. abundance
quartz grains; 2 size populations	
average size about 1.3 mm	15 - 20%
average size about 0.3 mm	70 - 75%
shaly rock fragments	<1%
chromite grains; average size 0.3 mm	
zircon grains; average size 0.15 mm	1 - 2%
tourmaline grains	<1%
rutile grains	trace
cassiterite?	one coarse grain

The characteristics of the quartz grains are the same as in 161558. The characteristics of the chromite grains are the same as throughout the suite, although smaller, rounded grains are proportionately more abundant.

Zircon grains are small, rounded to subrounded, but largely reflecting their primary crystal form. Tourmaline is variably yellowish and greenish in colour, generally rounded. Rutile grains are subangular to subrounded.

Cassiterite? occurs as a highly irregular and angular 'grain' 0.3 mm x 1 mm composed of an aggregate of randomly interlocking crystals each about 0.1 mm. The aggregate is fairly densely clouded and apparently partly 'limonitised' (which poses some doubt on the positive identification as cassiterite - it may be sphene), but it does resemble similar composite cassiterite grains in A161556.

SELECTED PHOTOMICROGRAPHICS

Figure 1 161451 length of photo 1.4 mm

Reflected light; shows variably subangular to rounded form of chromite grains, also internal fabric of the chromite. Paler almost ghost-like grains are mostly quartz.

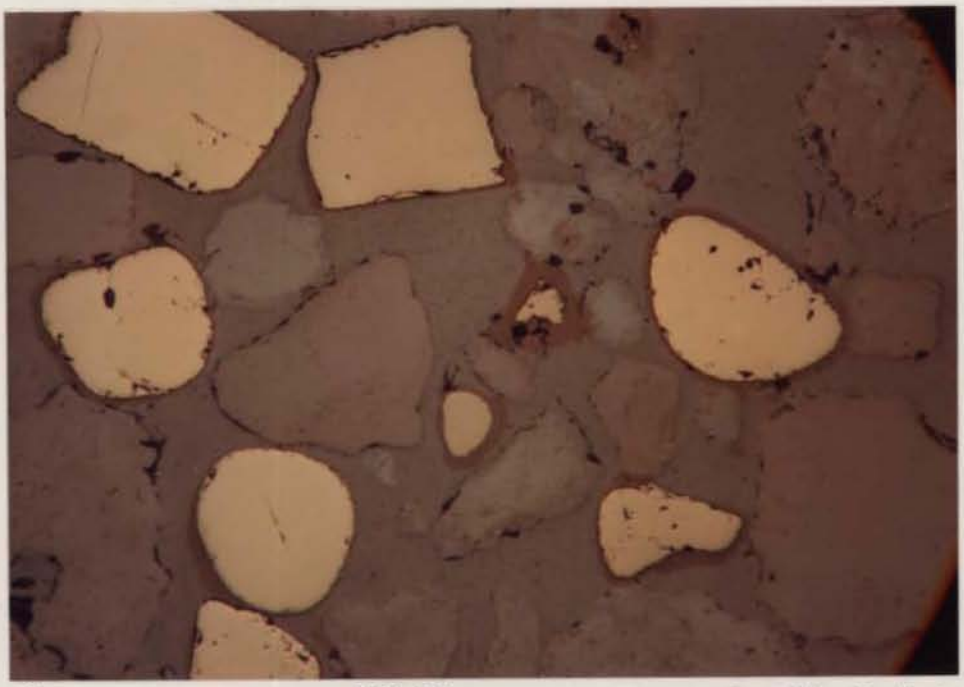

Figure 2 161451 length of photo 4.4 mm

Transmitted light (plane polarised) black-opaque grains are chromite. Most other grains are quartz, variably rounded to angular, commonly "dusted" by minute fluid inclusion. Grain circled in centre of photo is a twinned grain of cassiterite.

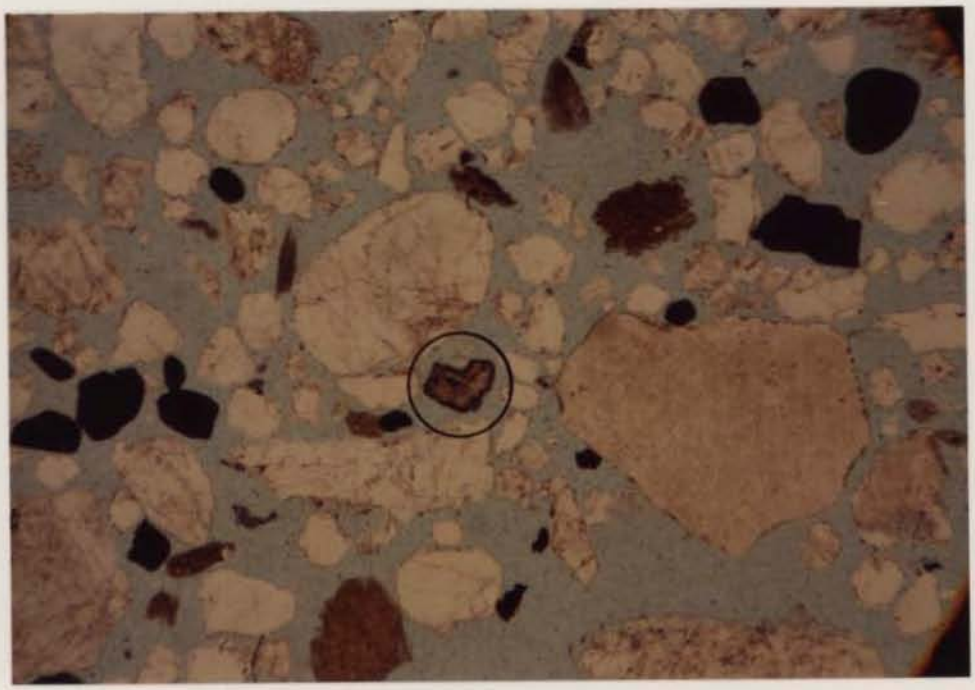

Figure 3 161556 length of photo 4.4 mm

This section, plane polarised light capiton essentially as for figure 3. Angular grain of cassiterite circled. Dark, small, often splintery grains are of shale.

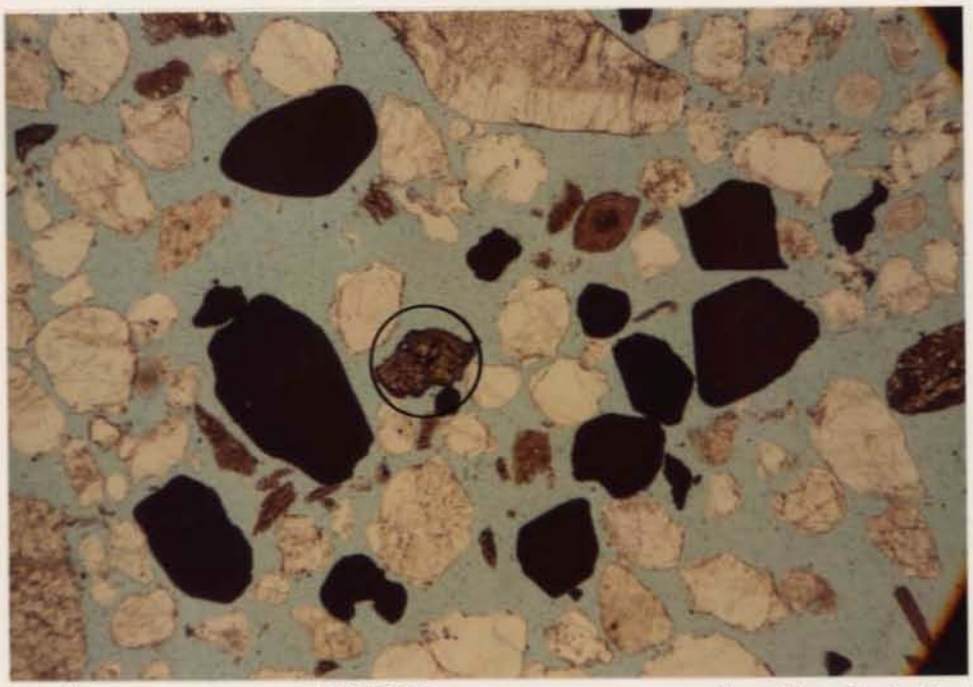

Figure 4 161556 length of photo 4.4 mm

Transmitted light: opaque/black grains are chromite, very dark clouded grain is 'shale', most grains are quartz. Composite grain in centre consists of several quartz grains and a chromite grain cemented by limonite.

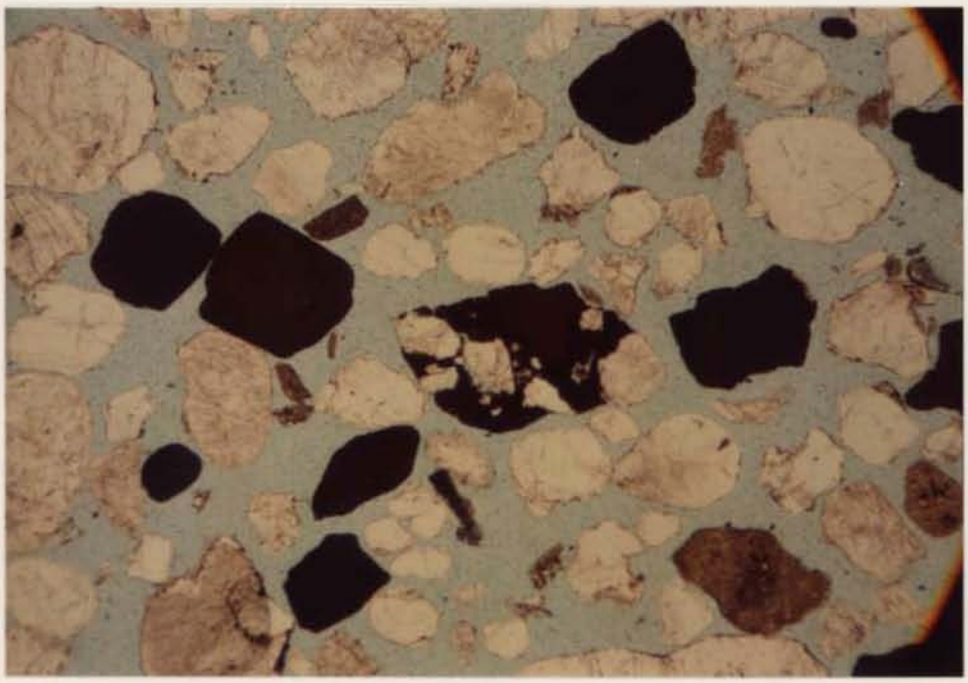

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Figure 5 161556 length of photo 1.4 mm

Relfected light, composite grain in figure 5, to suggest a relationship between chromite grain (grey), cemented together with quartz grains.

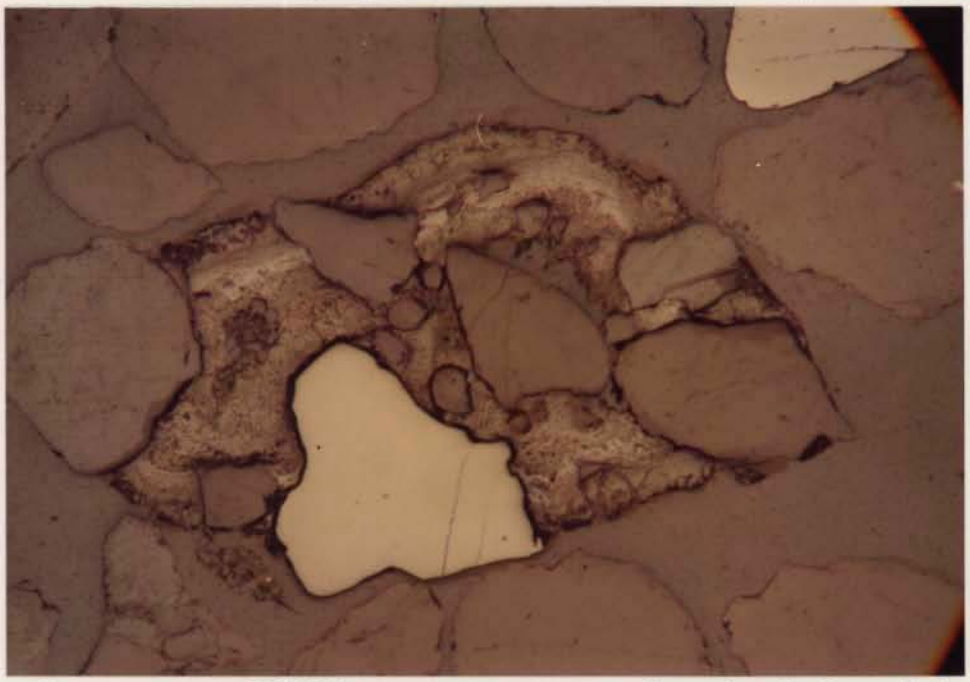
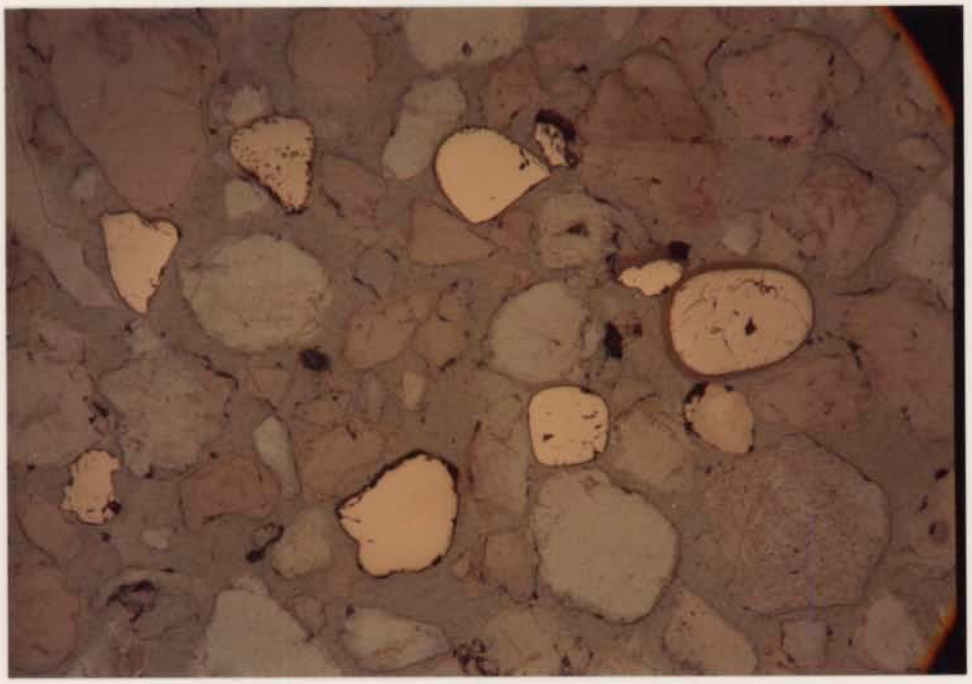


Figure 6 161468 length of photo 1.4 mm

Relfected light; further example to highlight variably angular to rounded form of chromite grains.



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APPENDIX IV

SOUTH NEVADA CREEK

MAGNETIC, VLF-EM AND VLF-EM RESISTIVITY DATA

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BASE STATION MAGNETICS

GEOMETRICS SN 565 MOD G816

STATION	READING	TIME	ASSIGNED VALUE
LINE 1 - 00	62326	1.38	62327
	62328	2.54	
LINE 2 - 00	62316	1.39	62315
	62313	2.51	
LINE 3 - 00	62306	1.43	62306
	62305	2.46	
LINE 4 - 00	62299	1.48	62299
	62298	2.41	
LINE 5 - 00	62288	1.51	62290
	62292	2.38	
LINE 6 - 00	62284	1.55	62284
	62283	2.35	
LINE 7 - 00	62281	1.58	62279
	62276	2.32	
LINE 8 - 00	62274	2.02	62276
	62277	2.28	
LINE 9 - 00	62280	2.12	62280

NOTE: All readings were retaken until constant values were obtained.

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STATION	MAGNETICS		VLF-EM/RESISTIVITY				
	MAGNETIC READING	TIME	INCLIN-ATION	QUADR-ATURE	RESIST-IVITY	MULTI-PLIER	PHASE ANGLE
LINE 1 0	62333	3.16	-22	+2	14	x 10	38
25W	62338	3.17	-27	+17	17	x 10	46
50W	62334	3.18	-30	+24	18	x 10	60
75W	62340	3.20	-34	+14	21	x 10	50
100W	62339	3.21	-18	+17	18	x 10	50
125W	62338	3.22	-20	+13	2	x 100	40
150W	62339	3.23	-18	+3	22	x 10	47
175W	62336	3.24	-14	+9	24	x 10	53
200W	62334	3.25	-9	+9	120	x 10	58
225W	62337	3.26	-13	+1	10	x 10	55
250W	62331	3.27	-19	+3	16	x 10	54
275W	62330	3.28	-18	+3	8	x 10	52
00	62339	3.35					
25E	62336	3.36	-17	+11	22	x 10	40
50E	62355	3.38	-13	+10	3	x 10	50
75E	62362	3.39	-9	+6	5	x 10	61
100E	62348	3.40	-2	+11	4	x 10	50
125E	62348	3.42	-8	+5	9	x 10	60
150E	62347	3.43	-3	+2	20	x 10	47
175E	62346	3.44	+2	+4	26	x 10	56
200E	62343	3.45	+4	+5	14	x 10	52
225E	62345	3.46	-3	+3	15	x 10	49
250E	62350	3.47	-2	+2	16	x 10	47
275E	62349	3.48	-1	+6	13	x 10	46
300E	62352	3.49	-3	+3	22	x 10	49
00	62336	4.56					

STATION	MAGNETICS		VLF-EM/RESISTIVITY				
	MAGNETIC READING	TIME	INCLIN-ATION	QUADR-ATURE	RESIST-IVITY	MULTI-PLIER	PHASE ANGLE
LINE 2 00	62324	9.17	-16	+7	14	x 10	36
25W	62326	9.19	-15	+8	14	x 10	43
50W	62329	9.21	-25	+4	14	x 10	60
75W	62330	9.23	-19	+14	12	x 10	74
100W	62332	9.24	-22	+10	24	x 10	54
125W	62328	9.25	-15	+8	18	x 10	70
150W	62323	9.27	-18	+16	13	x 10	62
175W	62319	9.28	-14	+8	16	x 10	50
200W	62323	9.29	-6	+8	12	x 10	50
225W	62318	9.30	-4	+5	20	x 10	50
250W	62323	9.32	-1	-2	6	x 10	62
275W	62322	9.33	+1	+1	20	x 10	60
300W	62324	9.35	+2	-1	20	x 10	54
325W	62321	9.36	+1	-2	18	x 10	40
00	62327	9.45					
25E	62327	9.47	-11	+9	16	x 10	45
50E	62328	9.48	-13	+5	10	x 10	45
75E	62329	9.49	-18	+5	12	x 10	34
100E	62335	9.51	-16	0	7	x 10	34
125E	62345	9.53	-11	+3	14	x 10	56
150E	62346	9.55	-4	+12	10	x 10	52
175E	62342	9.56	-2	+8	10	x 10	50
200E	62341	9.57	-2	+4	10	x 10	40
225E	62341	9.58	-1	+6	12	x 10	47
250E	62342	9.59	0	+3	10	x 10	45
275E	62342	10.01	-2	+8	20	x 10	45
300E	62345	10.02	+2	+10	12	x 10	40
325E	62348	10.04	+4	+8	18	x 10	45
350E	62347	10.05	+10	+2	5	x 10	35
00	62326	10.28					

STATION	MAGNETICS		VLF-EM/RESISTIVITY				
	MAGNETIC READING	TIME	INCLIN-ATION	QUADR-ATURE	RESIST-IVITY	MULTI-PLIER	PHASE ANGLE
LINE 3 00	62315	10.34	-18	+1	28	x 10	20
25W	62315	10.36	-17	+10	18	x 10	34
50W	62313	10.37	-25	+7	10	x 10	45
75W	62320	10.39	-11	+21	16	x 10	30
100W	62318	10.40	-9	+12	6	x 10	50
125W	62314	10.41	-4	+14	23	x 10	45
150W	62312	10.43	+2	-12	11	x 10	60
175W	62310	10.44	-7	+3	19	x 10	50
200W	62309	10.45	-3	-13	9	x 10	0
225W	62308	10.46	-8	-23	4	x 10	40
250W	62309	10.48	-11	-5	14	x 10	30
275W	62311	10.49	-14	-3	15	x 10	50
300W	62313	10.50	-10	-5	28	x 10	32
325W	62312	10.51	-4	0	24	x 10	45
350W	62314	10.53	-3	+1	10	x 10	45
375W	62310	10.54	-3	+13	12	x 10	40
400W	62307	10.56	-14	+9	11	x 10	40
425W	62314	10.58	-12	0	9	x 10	20
00	62317	11.16					
25E	62316	11.34	+15	-3	4	x 10	45
50E	62314	11.35	+6	-6	10	x 10	45
75E	62311	11.37	+3	-10	12	x 10	45
100E	62310	11.39	+2	-15	20	x 10	40
125E	62317	11.40	+2	-10	14	x 10	35
150E	62314	11.41	+6	-8	14	x 10	40
175E	62322	11.43	+3	-14	10	x 10	50
200E	62323	11.44	0	-23	15	x 10	40
225E	62325	11.45	0	-14	18	x 10	65
250E	62324	11.46	0	-11	18	x 10	40
275E	62321	11.48	+5	-3	14	x 10	40
300E	62321	11.49	0	-3	9	x 10	?
325E	62318	11.50	-2	+2	12	x 10	60
00	62308	12.00					

STATION	MAGNETICS		VLF-EM/RESISTIVITY				
	MAGNETIC READING	TIME	INCLIN-ATION	QUADR-ATURE	RESIST-IVITY	MULTI-PLIER	PHASE ANGLE
LINE 4 00	62301	12.42	+7	+7	6	x 10	30
25W	62295	12.44	+15	-3	4	x 10	45
50W	62301	12.46	+6	-6	10	x 10	45
75W	62298	12.47	+3	-10	12	x 10	45
100W	62297	12.48	+2	-15	20	x 10	40
125W	62301	12.50	+2	-10	14	x 10	35
150W	62297	12.51	+6	-8	14	x 10	40
175W	62297	12.53	+3	-14	10	x 10	50
200W	62300	12.54	0	-23	15	x 10	40
225W	62302	12.56	0	-14	18	x 10	65
250W	62298	12.58	0	-11	18	x 10	40
275W	62296	12.59	+5	-3	14	x 10	40
300W	62295	1.00	0	-3	9	x 10	?
325W	62293	1.01	-2	+2	12	x 10	60
350W	62293	1.02	-2	+5	18	x 10	38
00	62296	1.11					
25E	62298	1.13	+2	-6	6	x 10	24
50E	62300	1.15	-2	-7	12	x 10	12
75E	62297	1.17	+10	0	18	x 10	12
100E	62298	1.18	+1	-3	16	x 10	30
125E	62300	1.20	-7	+2	22	x 10	40
150E	62303	1.22	-16	-2	18	x 10	41
175E	62305	1.24	-10	+10	14	x 10	50
200E	62314	1.25	0	+12	12	x 10	41
225E	62314	1.27	-4	+6	14	x 10	54
250E	62310	1.28	-7	+18	18	x 10	40
275E	62309	1.29	-7	+20	14	x 10	43
300E	62307	1.30	-3	+18	14	x 10	40
325E	62299	1.32	0	+15	12	x 10	22
00	62299	1.51					

057

117058

STATION	MAGNETICS		VLF-EM/RESISTIVITY				
	MAGNETIC READING	TIME	INCLIN-ATION	QUADR-ATURE	RESIST-IVITY	MULTI-PLIER	PHASE ANGLE
LINE 5 00	62294	1.56	-15	+2	16	x 10	10
25W	62295	1.58	+1	+2	9	x 10	30
50W	62298	2.00	+4	-2	5	x 100	40
75W	62299	2.01	0	-6	14	x 10	52
100W	62299	2.03	0	-7	13	x 10	45
125W	62297	2.04	-3	-5	6	x 10	45
150W	62297	2.05	0	-8	4	x 100	45
175W	62301	2.07	+8	-8	4	x 100	40
200W	62245	2.09	+6	-8	12	x 10	40
225W	62295	2.10	+4	-12	4	x 100	40
250W	62296	2.12	+6	-10	5	x 100	50
275W	62299	2.13	+5	-5	4	x 100	45
00	62299	2.19					
25E	62296	2.21	-16	+4	20	x 10	22
50E	62301	2.23	-5	+12	12	x 10	26
75E	62298	2.30	0	+15	16	x 10	35
100E	62299	2.33	+1	+16	12	x 10	40
125E	62302	2.34	+4	+8	20	x 10	40
150E	62306	2.36	+4	0	12	x 10	45
175E	62311	2.37	+4	-6	14	x 10	50
200E	62321	2.40	0	-13	9	x 100	45
225E	62316	2.42	+1	-16	12	x 10	45
250E	62313	2.45	+11	-20	10	x 10	40
275E	62306	2.46	+11	-21	7	x 10	36
300E	62296	2.47	+9	-21	6	x 10	30
325E	62283	2.49	-11	-4	9	x 10	6
00	62302	2.59					

058

117059

STATION	MAGNETICS		VLF-EM/RESISTIVITY				
	MAGNETIC READING	TIME	INCLIN-ATION	QUADR-ATURE	RESIST-IVITY	MULTI-PLIER	PHASE ANGLE
LINE 6 00	62299	3.25	+21	0	3	x 10	45
25E	62297	3.27	+8	+7	2	x 10	47
50E	62295	3.28	-2	+11	7	x 10	26
75E	62299	3.30	0	+12	12	x 10	32
100E	62300	3.31	-6	+8	12	x 10	40
125E	62301	3.33	-8	+5	4	x 100	45
150E	62305	3.34	-7	+4	7	x 100	52
175E	62315	3.35	0	-8	5	x 100	56
200E	62322	3.37	-7	-4	6	x 100	55
225E	62321	3.38	-2	-5	7	x 100	54
250E	62311	3.40	0	-10	4	x 100	50
275E	62305	3.42	-2	-8	12	x 10	45
300E	62306	3.44	+1	-8	7	x 10	25
325E	62302	3.45	-9	+2	20	x 10	10
00	62304	3.56					
25W	62305	3.58	+3	-6	6	x 10	32
50W	62304	3.59	+12	-2	4	x 10	34
75W	62303	4.00	-1	-7	18	x 10	42
100W	62299	4.01	0	-4	4	x 100	43
125W	62304	4.02	-1	-5	10	x 10	35
150W	62302	4.03	+3	-5	12	x 10	38
175W	62302	4.04	+10	-10	14	x 10	32
200W	62302	4.06	+11	-8	5	x 100	45
225W	62303	4.08	+8	-8	4	x 100	42
250W	62301	4.09	+11	-12	6	x 100	35
275W	62304	4.10	+4	-9	8	x 100	36
300W	62302	4.12	+6	-12	6	x 100	45
325W	62303	4.13	+10	-10	5	x 100	40
350W	62300	4.14	+7	-4	9	x 10	45
00	62310	4.22					

STATION	MAGNETICS		VLF-EM/RESISTIVITY				
	MAGNETIC READING	TIME	INCLIN-ATION	QUADR-ATURE	RESIST-IVITY	MULTI-PLIER	PHASE ANGLE
LINE 7 00	62282	11.07	0	+2	7	x 10	30
25E	62282	11.08	+3	+4	3	x 100	26
50E	62284	11.09	+3	+2	8	x 10	30
75E	62287	11.11	+5	+6	3	x 100	30
100E	62290	11.12	+3	+2	12	x 10	30
125E	62285	11.13	-5	+4	4	x 100	24
150E	62288	11.15	-8	+2	3	x 1000	32
175E	62293	11.16	-8	0	9	x 100	45
200E	62296	11.17	-5	-8	12	x 100	38
225E	62292	11.17	-2	-5	3	x 100	42
250E	62287	11.18	-1	-6	7	x 10	44
275E	62287	11.19	+3	-3	8	x 10	40
300E	62284	11.21	+2	0	6	x 10	28
00	62283	11.28					
25W	62282	11.33	-2	-3	3	x 100	38
50W	62281	11.35	-2	-3	3	x 100	49
75W	62281	11.36	+2	-5	7	x 10	36
100W	62282	11.37	+7	-6	3	x 100	40
125W	62279	11.38	+7	-10	7	x 10	45
150W	62279	11.39	+8	-12	3	x 100	40
175W	62279	11.40	+17	-10	3	x 100	40
200W	62281	11.42	+13	-10	5	x 100	44
225W	62278	11.42	+7	-8	7	x 100	45
250W	62281	11.43	+8	-16	3	x 100	45
275W	62278	11.45	+6	-15	3	x 100	48
300W	62281	11.46	+9	-7	10	x 100	40
325W	62280	11.47	-1	-4	3	x 10	42
350W	62283	11.48	+2	-2	3	x 100	48
00	62281	11.56					

060

117061

STATION	MAGNETICS		VLF-EM/RESISTIVITY				
	MAGNETIC READING	TIME	INCLIN-ATION	QUADR-ATURE	RESIST-IVITY	MULTI-PLIER	PHASE ANGLE
LINE 8 00	62282	12.22	-3	+8	14	x 10	12
25E	62281	12.24	-6	+4	10	x 10	20
50E	62279	12.26	-10	0	9	x 10	28
75E	62275	12.28	-5	-2	6	x 10	34
100E	62282	12.30	+7	+3	3	x 100	68
125E	62290	12.32	+8	-2	3	x 100	66
150E	62290	12.33	-1	-8	3	x 100	60
175E	62292	12.34	-5	-13	3	x 100	70
200E	62284	12.35	0	-10	7	x 10	70
225E	62285	12.37	-2	-28	4	x 10	70
250E	62288	12.38	-1	-16	6	x 10	62
275E	62285	12.39	0	-20	3	x 100	54
00	62280	12.45					
25W	62285	12.48	-7	+6	9	x 100	18
50W	62276	12.50	-17	+2	12	x 10	14
75W	62274	12.51	+6	+4	14	x 10	18
100W	62276	12.52	+7	0	10	x 10	30
125W	62274	12.53	+9	+1	9	x 10	40
150W	62277	1.02	+4	-7	9	x 10	43
175W	62274	1.04	+7	-9	9	x 10	45
200W	62273	1.05	+12	-6	12	x 10	36
225W	62275	1.06	+6	-8	4	x 100	46
250W	62275	1.07	+6	-10	4	x 100	48
275W	62272	1.08	+4	-10	6	x 100	46
300W	62275	1.10	+2	-10	6	x 100	40
325W	62280	1.12	0	-9	4	x 100	56
350W	62278	1.14	+1	+1	3	x 100	46
375W	62277	1.17	-2	0	6	x 100	28
00	62284	1.28					

061

117062

STATION	MAGNETICS		VLF-EM/RESISTIVITY				
	MAGNETIC READING	TIME	INCLIN-ATION	QUADR-ATURE	RESIST-IVITY	MULTI-PLIER	PHASE ANGLE
LINE 9 00	62286	2.10	-6	+2	3	x 100	22
25W	62283	2.12	-4	-7	4	x 100	22
50W	62287	2.13	-2	-5	14	x 10	26
75W	62287	2.14	+9	-1	6	x 10	32
100W	62291	2.15	+8	-5	8	x 10	56
125W	62287	2.17	+6	-1	7	x 100	40
150W	62289	2.18	+4	-8	9	x 10	49
175W	62290	2.19	+1	-5	4	x 10	45
00	62287	2.24					
25E	62286	2.26	-9	+6	7	x 10	32
50E	62287	2.27	-6	+11	8	x 10	32
75E	62286	2.28	0	+15	14	x 10	28
100E	62287	2.30	0	+10	0	x 100	32
125E	62293	2.32	-1	+7	11	x 100	32
150E	62292	2.34	0	+9	4	x 100	45
175E	62294	2.35	-3	0	7	x 100	40
200E	62288	2.37	-1	+4	8	x 100	40
225E	62291	2.37	+2	-1	10	x 100	42
250E	62293	2.38	+3	-2	9	x 100	43
275E	62293	2.40	+7	+2	8	x 100	43
00	62290	3.05					

062

117063

APPENDIX V

CUNI MAGNETIC DATA

5900E AND 6200E

063

CUNI MAGNETOMETER SURVEY

GEOMETRICS G816 NO. SN565

STATION		READING (nT)
6200E/7375N	BASE STATION	62510
5900E/5975N		62442
6000N		62445
6025N		62441
6050N		62455
6075N		62443
6100N		62458
6125N		62458
6150N		62462
6175N		62467
6200N		62467
6225N		62472
6250N		62477
6275N		62483
6300N		62487
6325N		62486
6350N		62483
6375N		62490
6400N		62493
6425N		62494
6450N		62486
6475N		62483
6500N		62484
6525N		62484
6550N		62487
6575N		62497
6600N		62496
6625N		62499
6650N		62507
6675N		62511
6700N		62508
6725N		62519
6750N		62522
6775N		62507
6800N		62506
6825N		62511
6850N		62511
6875N		62523
6900N		62538
6925N		62546
6950N		62530
6975N		62529

CUNI MAGNETOMETER SURVEY Cont.

GEOMETRICS G816 NO. SN565

STATION	READING (nT)
5900E/7000N	62528
7025N	62532
7050N	62540
7075N	62546
7100N	62547
7125N	62556
7150N	62557
7175N	62564
7200N	62573
7225N	62563
7250N	62562
7275N	62566
7300N	62568
7325N	62563
7350N	62578
7375N	62586
7400N	62588
7425N	62576
7450N	62570
7475N	62571
7500N	62560
7525N	62561
7550N	62560
7575N	62557
7600N	62556
7625N	62558
7650N	62549
7675N	62560
7700N	62562
7725N	62560
7750N	62557
7775N	62556
7800N	62562
7825N	62555
7850N	62554
7875N	62557
7900N	62556
7925N	62547
7950N	62544
7975N	62543

CUNI MAGNETOMETER SURVEY Cont.

GEOMETRICS G816 NO. SN565

STATION	READING (nT)
5900E/8000N	62540
8025N	62517
8050N	62530
8075N	62537
8100N	62520
8125N	62509
8150N	62503
8175N	62506
8200N	62493
8225N	62491
8250N	62487
8275N	62476
8300N	62477
8325N	62478
8350N	62468
8375N	62461
8400N	62450
8425N	62445
8450N	62454
8475N	62458
8500N	62459
8525N	62457
8550N	62457
8575N	62455
8600N	62438
8625N	62442
8650N	62432
8675N	62429
8700N	62419
8125N	62403
8750N	62394
8775N	62385

CUNI MAGNETOMETER SURVEY Cont.

GEOMETRICS G816 NO. SN565

STATION		READING (nT)
6200E/7375N	BASE STATION	62510
6200E/5950N		62333
5975N		62413
6000N		62389
6025N		62439
6050N		62439
6075N		62440
6100N		62448
6125N		62437
6150N		62448
6175N		62423
6200N		62479
6225N		62491
6250N		62491
6275N		62458
6300N		62479
6325N		62460
6350N		62450
6375N		62460
6400N		62458
6425N		62457
6450N		62467
6475N		62462
6500N		62464
6525N		62465
6550N		62464
6575N		62467
6600N		62461
6625N		62458
6650N		62457
6675N		62456
6700N		62455
6725N		62457
6750N		62457
6775N		62456
6800N		62456
6825N		62456
6850N		62459
6875N		62464
6900N		62473
6925N		62477
6950N		62475
6975N		62472

CUNI MAGNETOMETER SURVEY Cont.

GEOMETRICS G816 NO. SN565

STATION	READING (nT)
6200E/7000N	62478
7025N	62478
7050N	62485
7075N	62488
7100N	62488
7125N	62492
7150N	62497
7175N	62495
7200N	62497
7225N	62506
7250N	62503
7275N	62502
7300N	62509
7325N	62501
7350N	62526
7375N	62510
7400N	62515
7425N	62514
7450N	62514
7475N	62514
7500N	62514
7525N	62514
7550N	62519
7575N	62519
7600N	62520
7625N	62525
7650N	62514
7675N	62502
7700N	62530
7725N	62541
7750N	62536
7775N	62464
7800N	62527
7825N	62527
7850N	62531
7875N	62545
7900N	62542
7925N	62520
7950N	62516
7975N	62511

CUNI MAGNETOMETER SURVEY Cont.

GEOMETRICS G816 NO. SN565

STATION	READING (nT)
6200E/8000N	62545
8025N	62536
8050N	62509
8075N	62493
8100N	62497
8125N	62488
8150N	62476
8175N	62472
8200N	62465
8225N	62460
8250N	62453
8275N	62459
8300N	62447
8325N	62440
8350N	62434
8375N	62434
8400N	62424
8425N	62417
8450N	62417
8475N	62402
8500N	62396
8525N	62403
8550N	62424
8575N	62419
BASE	62510

069

117070

APPENDIX VI

CARBINE MAGNETIC & VLF-EM DATA

070

117071

BASE STATION MAGNETICS

STATION		READING	TIME	ASSIGNED VALUE
LINE 40N	00	62163	10.40	62163
		62163	12.10	
LINE 44N	00	62211	10.47	62210
		62208	12.05	
LINE 48N	000	62233	10.50	62230
		62227	11.55	
LINE 52N	00	62285	10.55	62284
		62283	11.50	
LINE 57N	00	62376	11.05	62377
		62377	11.42	
LINE 60N	00	62461	11.09	62459
		62457	11.40	
LINE 64N	000	62493	11.16	62492
		62491	11.34	
LINE 68N	00	62487	11.19	62488
		62489	11.32	
LINE 72N	000	62473	11.22	62473
		62472	11.30	

	MAGNETICS		VLF-EM	
STATION	READING	TIME	INCLINATION	QUADRATURE
LINE 40N - 00	62166	12.55		
LINE 44N - 00	62210	12.59	18	0
25E	62197	1.04	33	-1
50E	62194	1.07	34	6
75E	62191	1.11	35	5
100E	62232	1.13	26	5
125E	62233	1.15	22	-3
150E	62232	1.17	42	-5
175E	62215	1.20	44	-6
200E	62214	1.22	34	-7
225E	62205	1.25	29	-18
250E	62218	1.27	31	-14
175E	62208	1.30	48	-2
300E	62250	1.32	28	2
325E	62246	1.34	26	14
350E	62252	1.35	22	14
375E	62257	1.37	9	7
400E	62259	1.38	3	3
425E	62269	1.39	8	4
450E	62287	1.41	12	5
475E	62304	1.43	21	6
500E	62296	1.45	24	3
525E	62301	1.47	28	6
550E	62301	1.50	23	4
575E	62307	1.52	26	9
600E	62313	1.54	21	8
LINE 40N - 600E	62328	2.10	-2	-28
575E	62330	2.11	-2	-18
550E	62319	2.15	1	-18
525E	62308	2.19	0	-22
500E	62303	2.18	2	-22
475E	62298	2.19	3	-14
450E	62296	2.20	-2	-12
425E	62284	2.25		
400E	62284	2.26	3	-5
375E	62266	2.28	6	-7
350E	62261	2.29	16	2
325E	62250	2.31	22	-2
300E	62237	2.33	12	-6
275E	62232	2.35	22	-1
250E	62208	2.38	23	-3
225E	62221	2.47	24	-5
200E	62217	2.49	35	-6
175E	62195	2.52	23	-4
150E	62206	2.54	17	-8
125E	62199	2.56	12	-12
100E	62201	2.58	23	-8
75E	62184	3.00	0	-6
50E	62175	3.01	0	-12
25E	62170	3.03	-3	-8
00	62175	3.05	-2	-4

072

117073

STATION		MAGNETICS READING	TIME	VLF-EM INCLINATION	QUADRATURE
LINE 44N -	00	62220	3.09		
LINE 48N -	00	62222	10.41		
LINE 52N -	00	62275	10.50	42	10
	25E	62256	11.10	32	12
	50E	62267	11.12	32	8
	75E	62266	11.17	27	8
	100E	62254	11.20	24	7
	125E	62255	11.23	23	1
	150E	62248	11.58	35	0
	175E	62254	12.05	27	0
	200E	62268	12.08	40	-5
	225E	62272	12.13	29	-4
	250E	62256	12.17	72	0
	275E	62237	12.23	44	-2
	300E	62239	12.27	48	12
	325E	62245	12.35	55	6
	350E	62247	12.51	66	8
	375E	62248	1.01	63	0
	400E	62252	1.06	59	-5
	425E	62265	1.14	76	-6
	450E	62275	1.20	off scale	
	475E	62260	1.25	off scale	
	500E	62279	1.30	100	2
	525E	62557	1.34	59	1
	550E	62457	1.48	46	-3
	575E	62394	1.52	43	0
LINE 48N -	575E	62275	2.39	63	3
	550E	62275	2.43	60	10
	525E	62275	2.46	57	7
	500E	62280	2.52	off scale	
	475E	62275	2.58	38	15
	450E	62274	3.05	45	12
	425E	62278	3.11	33	12
	400E	62271	3.16	45	16
	375E	62262	3.20	52	12
	350E	62252	3.24	72	14
	325E	62242	3.26	46	3
	300E	62225	3.30	50	-3
	275E	62221	3.35	0	-18
	250E	62233	3.45	20	-1
	225E	62252	4.08	26	-2
	200E	62243	4.10	18	0
	175E	62251	4.15	20	2
	150E	62255	4.17	16	0
	125E	62238	4.20	12	5
	100E	62218	4.24	10	6
	75E	62218	4.26	4	-2
	50E	62228	4.29	14	0
	25E	62213	4.32	36	8
	00	62227	4.36	29	4

		MAGNETICS		VLF-EM	
STATION		READING	TIME	INCLINATION	QUADRATURE
LINE 52N -	00	62281	4.42		
LINE 72N -	00	62460	10.38	17	8
	25E	62458	10.41	off scale	
	50E	62438	10.45	off scale	
	75E	62428	10.56	115	10
	100E	62423	10.51	off scale	
	125E	62417	11.03	off scale	
	150E	62414	11.07	off scale	
	175E	62408	11.19	off scale	
	200E	62408	11.23	112	7
	225E	62502	11.28	116	3
	250E	62489	11.30	104	2
	275E	62483	11.33	132	1
	300E	62477	11.36	86	4
	325E	62466	11.38	100	2
	350E	62463	11.42	62	3
	375E	62467	11.44	off scale	
	400E	62459	11.46	off scale	
	425E	62452	11.48	130	20
	450E	62444	11.51	110	30
	475E	62434	11.53	86	25
	500E	62425	11.56	100	22
	525E	62409	12.01	55	23
	550E	62399	12.05	57	18
	575E	62387	12.08	48	14
	600E	62378	12.11	32	9
	625E	62376	12.13	24	13
LINE 68N -	550E	62365	12.45	24	16
	525E	62385	12.47	37	19
	500E	62444	12.48	24	15
	475E	62503	12.50	30	18
	450E	61551	12.52	-32	20
	425E	62579	12.54	40	30
	400E	62586	12.56	27	40
	375E	62550	12.57	off scale	
	350E	62505	12.59	80	35
	325E	62462	13.01	102	28
	300E	62430	13.03	off scale	
	275E	62418	13.10	120	9
	250E	62211	13.14	140	9
	225E	62300	13.20	52	-8
	200E	62336	13.24	56	2
	175E	62353	13.26	60	16
	150E	62376	13.29	50	18
	125E	62183	13.33	48	0
	100E	62777	13.40	86	-12
	75E	62440	13.45	off scale + ve	
	50E	62454	13.48	off scale - ve	
	25E	62466	13.53	-46	-2
	00	62473	14.00	-32	-8

		MAGNETICS		VLF-EM	
STATION		READING	TIME	INCLINATION	QUADRATURE
LINE 64N -	00	62481	14.26	48	-4
	25E	62474	14.30	30	-6
	50E	62473	14.32	32	-9
	75E	62465	14.35	72	-12
	100E	62418	14.40	off scale	
	125E	62407	14.43	55	-8
	150E	62394	14.47	42	-14
	175E	62377	14.50	90	16
	200E	62365	14.52	84	7
	225E	62344	14.57	off scale	
	250E	62329	15.00	off scale	
	275E	62309	15.02	88	14
	300E	62277	15.05	64	21
	325E	62218	15.08	44	8
	350E	62126	15.10	65	18
	375E	62019	15.14	60	12
	400E	62087	15.17	60	-2
	425E	62207	15.21	off scale	
	450E	62273	15.24	88	8
	475E	62295	15.25	80	13
	500E	62251	15.28	70	15
	525E	62266	15.30	72	5
	550E	62301	15.32	62	9
	575E	62309	15.34	55	6
	600E	62329	15.40	42	-8
LINE 72N -	00	62470	11.31	off scale	
	25W	62516	11.54	4	-26
	50W	62499	11.59	off scale + ve	
	75W	62499	12.01	off scale - ve	
	100W	62491	12.05	-55	-2
	125W	62524	12.10	-26	4
	150W	62526	12.13	0	9
	175W	62520	12.20	16	17
	200W	62468	12.25	27	15
	225W	62533	12.33	18	10
	250W	62431	12.44	35	20
	275W	62468	12.47	29	15
	300W	62501	12.50	49	25
	325W	62508	12.53	off scale	
	350W	62503	12.55	53	28
	375W	62528	13.01	28	13
	400W	62495	13.02	82	34
	425W	62512	13.11	off scale	
	450W	62483	13.13	off scale	
	475W	62503	13.16	off scale	
	500W	62492	13.17	100	32

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117076

STATION		MAGNETICS READING	TIME	VLF-EM INCLINATION	QUADRATURE
LINE 60N -	00	62459	10.00	42	-5
	25E	62443	10.01	37	-5
	50E	62404	10.04	32	5
	75E	62388	10.09	22	10
	100E	62385	10.12	10	12
	125E	62382	10.15	8	9
	150E	62368	10.17	20	0
	175E	62358	10.19	24	5
	200E	62347	10.21	33	-3
	225E	62342	10.24	38	0
	250E	62330	10.28	90	30
	275E	62325	10.36	58	6
	300E	62320	10.39	94	0
	325E	62312	10.42	112	4
	350E	62313	10.48	68	12
	375E	62700	10.50	56	10
	400E	62272	10.54	54	9
	425E	62496	10.57	47	5
	450E	62370	11.00	53	-5
	475E	62367	11.05	54	1
	500E	62360	11.07	55	0
	525E	62353	11.10	50	1
	550E	62338	11.13	48	-12
	575E	62338	11.16	70	-28
LINE 64N -	00	62503	11.39	23	-10
	25W	62528	11.49	5	-2
	50W	62533	11.57	13	3
	75W	62534	12.02	34	4
	100W	62556	12.09	42	5
	125W	62545	12.13	59	4
	150W	62545	12.18	off scale	
	175W	62544	12.22	off scale	
	200W	62547	12.25	off scale	
	225W	62548	12.29	off scale	
	250W	62541	12.34	off scale	
	275W	62555	12.37	off scale	
	300W	62520	12.41	29	20
	325W	62548	12.46	13	5
	350W	62530	12.52	off scale	
	375W	62533	12.55	off scale	
	400W	62511	13.01	off scale	
	425W	62512	13.03	58	30
	450W	62509	13.07	47	18
	475W	62490	13.10	off scale	
	500W	62527	13.15	63	20

		MAGNETICS		VLF-EM	
STATION		READING	TIME	INCLINATION	QUADRATURE
LINE 57.5N	00	62381	14.27	53	6
	25E	62387	14.30	41	6
	50E	62392	14.32	43	7
	75E	62379	14.35	38	6
	100E	62380	14.37	38	-6
	125E	62391	14.39	74	-12
	150E	62402	14.42	86	-9
	175E	62360	14.44	86	0
	200E	62333	14.46	54	-9
	225E	62340	14.48	80	-9
	250E	62359	14.51	100	-4
	275E	62326	14.56	102	4
	300E	62324	14.58	48	8
	325E	62314	15.00	38	8
	350E	62333	15.04	40	4
	375E	62309	15.06	42	1
	400E	62326	15.12	38	-3
	425E	62341	15.18	30	-2
	450E	62328	15.20	49	3
	475E	62295	15.22	44	1
	500E	62526	15.25	49	5
	525E	62396	15.27	38	-9
	550E	62369	15.29	46	-10
	575E	62368	15.34	30	-5
LINE 70N -	00	62498	9.56	12	8
	25E	62527	10.05	off scale + ve	14
	50E	62575	10.10	off scale + ve	-30
	75E	62400	10.14	off scale - ve	7
	100E	62443	10.33	off scale + ve	-16
	125E	62410	10.38	off scale + ve	-12
	150E	62404	10.42	off scale + ve	-2
	175E	62400	10.44	off scale + ve	2
	200E	62416	10.48	off scale + ve	0
	225E	62382	10.50	off scale + ve	0
	250E	62580	11.54	off scale + ve	0
	275E	62508	11.00	off scale + ve	-8
	300E	62518	11.02	off scale + ve	-9
	325E	62498	11.09	140	2
	350E	62486	11.13	86	0
	375E	62490	11.17	74	3
	400E	62478	11.20	67	13

077

117078

STATION		MAGNETICS READING	TIME	VLF-EM INCLINATION	QUADRATURE
LINE 66N -	00	62486	12.25	5	-6
	25E	62506	12.30	16	-9
	50E	62486	12.40	3	-10
	75E	62487	12.45	-13	-40
	100E	62445	12.50	off scale + ve	-24
	125E	62430	12.53	off scale + ve	9
	150E	62423	12.56	off scale + ve	30
	175E	62403	13.01	off scale + ve	8
	200E	62384	13.07	off scale - ve	?
	225E	62351	13.13	off scale - ve	?
	250E	62344	13.44	off scale + ve	3
	275E	62324	13.59	off scale + ve	9
	300E	62300	14.02	off scale + ve	10
	325E	62269	14.14	53	-1
	350E	62461	14.17	72	14
	375E	62436	14.22	78	14
	400E	62500	14.27	100	27
	425E	62738	14.32	63	22
	450E	62454	14.34	45	20
	475E	61840	14.41	14	13
	500E	63140	14.45	18	10
	525E	63469	14.48	32	15
	550E	61181	14.51	28	9
	575E	62444	14.59	26	8
	600E	62345	15.01	18	4
LINE 68N -	00	62481	9.50	120	-32
	25W	62491	10.01	70	-38
	50W	62496	10.07	35	-38
	75W	62501	10.15	55	-35
	100W	62494	10.19	-90	-32
	125W	62510	10.26	off scale	-30
	150W	62512	10.33	-80	-22
	175W	62513	10.35	off scale	-30
	200W	62516	10.40	-45	-33
	225W	62515	10.45	-55	-34
	250W	62508	10.47	-35	-20
	275W	62502	10.51	-110	24
	300W	62501	11.55	-110	-32
	325W	62500	11.00	-90	-32
	350W	62500	11.02	off scale	-25
	375W	62496	11.05	off scale	-24
	400W	62500	11.08	off scale	-6
	425W	62496	11.11	off scale	5
	450W	62493	11.14	off scale	10
	475W	62500	11.18	off scale	10
	500W	62493	11.23	off scale	25
	00	62470	12.15		

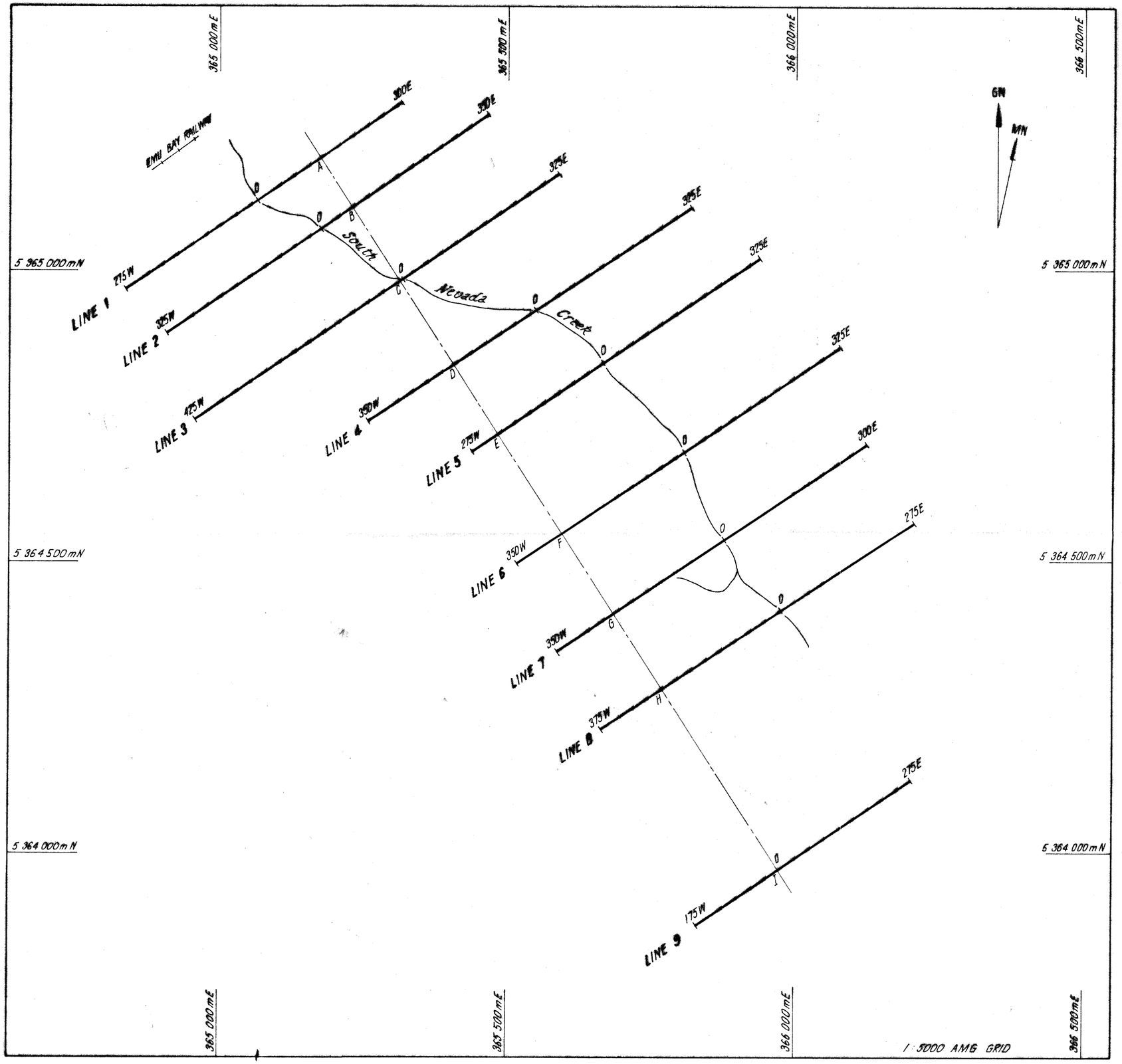
078

117079

STATION		MAGNETICS READING	TIME	VLF-EM INCLINATION	QUADRATURE
LINE 60N -	00	62482	12.36	off scale	-10
	25W	62500	12.39	off scale	0
	50W	62519	12.61	off scale	-6
	75W	62527	12.43	-150	-20
	100W	62527	12.45	off scale	-38
	125W	62523	12.47	off scale	-10
	150W	62518	12.50	off scale	-8
	175W	62499	12.53	-140	-10
	200W	62486	12.55	off scale	-10
	225W	62478	12.58	-140	35
	250W	60483	13.04	off scale	3
	275W	62472	13.07	-80	4
	300W	62476	13.10	off scale	+20
	325W	62477	13.12	-140	+8
	350W	62470	13.14	off scale	16
	375W	62475	13.18	-40	-6
	400W	62457	13.22	-90	14
	425W	62441	13.25	-90	15
	450W	62455	13.32	30	21
	475W	62465	13.36	15	3
	500W	62485	13.40	-55	18
	00	62486	14.27		
LINE 57.5N	00	62372	10.31	off scale	-2
	25W			-150	-12
	50W	62354	10.00	off scale	5
	75W	62382	10.43	off scale	10
	100W	62416	10.46	off scale	-3
	125W	62422	10.50	off scale	25
	150W	62415	10.52	-145	3
	175W	62416	10.56	-100	8
	200W	62433	10.07	off scale	-1
	225W	62415	11.01	off scale	6
	250W	62417	11.04	off scale	15
	275W	62413	11.07	-65	0
	300W	62410	11.09	-140	4
	325W	62413	11.50	off scale	11
	350W	62433	11.55	-150	-2
	375W	61570	11.59	55	10
	400W	62471	12.04	-35	13
	425W	62470	12.07	-10	-15
	450W	62475	12.09	45	-10
	475W	62459	12.13	5	-2
	500W	60558	12.18	-15	-14
	00	62373	12.40		

		MAGNETICS		VLF-EM	
STATION		READING	TIME	INCLINATION	QUADRATURE
LINE 52N -	00	62275	13.44	off scale	31
	25W	72276	13.49	off scale	32
	50W	62282	13.53	150	5
	75W	62295	13.55	75	12
	100W	62298	13.57	off scale	16
	125W	62313	14.00	off scale	-2
	150W	62319	14.02	140	17
	175W	62325	14.06	off scale	20
	200W	62350	14.08	off scale	12
	225W	61000	14.10	-100	6
	250W	62380	14.17	-100	12
	275W	62366	14.27	off scale	22
	300W	62388	14.36	-140	15
	325W	62395	14.39	off scale	25
	350W	62414	14.43	off scale	25
	375W	62439	14.45	off scale	30
	400W	62496	14.50	-110	21
	425W	62580	14.51	-120	6
	450W	62624	14.53	off scale	14
	475W	62575	15.03	off scale	18
	500W	?		off scale	18
	00	62274	15.30		
LINE 48N -	00	62235	9.54	off scale	25
	25W	62237	10.03	80	25
	50W	62256	10.07	-55	15
	75W	62261	10.09	-75	22
	100W	62234	10.13	75	8
	125W	62238	10.15	-90	26
	150W	62238	10.18	-90	-1
	175W	62236	10.21	off scale	-24
	200W	62243	10.24	-100	22
	225W	62255	10.33	60	20
	250W	62293	10.36	20	16
	275W	62318	10.40	-95	-2
	300W	62326	10.44	-75	30
	325W	62338	10.45	-75	37
	350W	62350	10.46	-55	38
	375W	62325	10.50	-45	28
	400W	62316	10.55	-100	28
	425W	62311	10.57	-90	25
	450W	62316	11.01	-35	35
	475W	62381	11.04	-55	16
	500W	62333	11.07	15	24

		MAGNETICS		VLF-EM	
STATION		READING	TIME	INCLINATION	QUADRATURE
LINE 44N -	00	62203	12.09	-90	30
	25W	62200	12.12	-86	8
	50W	62187	12.15	-90	15
	75W	62185	12.19	-80	17
	100W	62150	12.22	-75	-2
	125W	62166	12.25	-75	22
	150W	62181	12.27	-95	15
	175W	62155	12.30	-120	-10
	200W	62154	12.33	-80	10
	225W	62160	12.36	off scale	12
	250W	62162	12.38	-80	-4
	275W	62163	12.42	-65	19
	300W	62162	12.45	15	34
	325W	62183	12.48	30	13
	350W	62186	12.52	5	2
	375W	62203	12.55	20	-10
	400W	62237	12.57	-80	8
	425W	62209	13.01	-150	-15
	450W	62217	13.07	5	8
	475W	62260	13.10	15	-8
	500W	62288	13.23	10	-20
	525W	62293	13.27	50	-13
	550W	62326	13.30	-20	-22
	575W	62370	13.33	-20	-12
	600N			-24	-12



REFERENCE

Creek

Railway

LINE 1 275W — Grid line with distances from creek in metres

117082

5 cm

NOTE : See Drg. No. 7602-11 for location

0 500m

CSR LIMITED

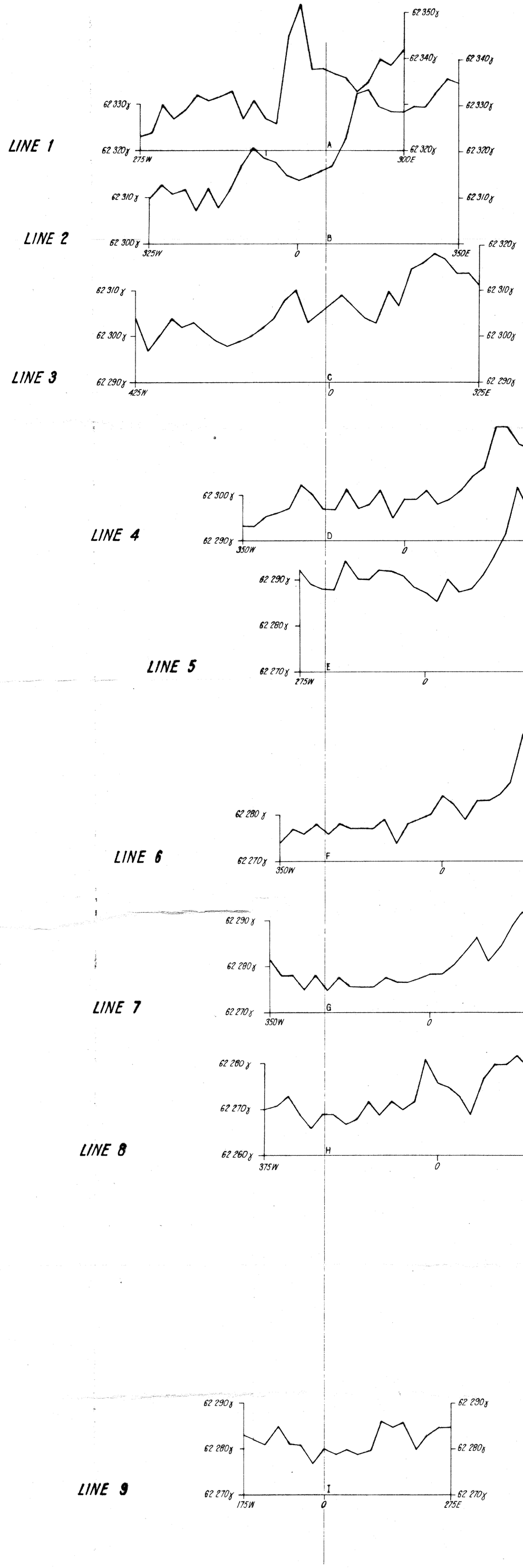
E.L. 15/76 DUNDAS, TASMANIA

SOUTH NEVADA CREEK ANOMALY
GEOPHYSICAL GRID LOCATION

001

SCALE	:	1 : 5000	DRG No. 7602-1
DRAWN	:	P.D.E. / P.R.	
DATE	:	July '85	
REVISED	:		

85-2435



117083

85-2455

REFERENCE

NOTE : GRID LINE DISTANCES IN METRES FROM SOUTH NEVADA CREEK

REFER DRG. No. 7602-1 FOR GRID LINE LOCATIONS

VERTICAL MAGNETIC DATUM NOT CONSTANT (SCALE VARIATION 62 260γ - 62 320γ)

CSR LIMITED

E.L.15/76 DUNDAS, TASMANIA

SOUTH NEVADA CREEK ANOMALY MAGNETIC PROFILES

002

SCALE	1:5000 Horizontal	DRG No.
DRAWN	P.D.E. / P.R.	7602-2
DATE	July '85	
REVISED		

371 000mE

0

72 N

68

64

60

57·5

52

48

44

40 N

5 364 000mN

DOL/CON

DOL/CON

DOL/CON

DOL CON

DOL/PY

DOL

DOL/SER

PY/DOL

DOL

DOL/PY

DIGHEM ANOMALY TRACE

DOLERITE DYKE

CARBINE TRACK

500 W

500 E

0

371 000mE

Creek

Concert

EZ GETTY JOINT VENTURE

REFERENCE

DOL	DOLOMITE / LIMESTONE
PY	PYRITE
SER	SERICITE
CON	CONGLOMERATE
M	MAGNETIC ANOMALY
•	VLF RESPONSE

5 cm

117084

85-2455

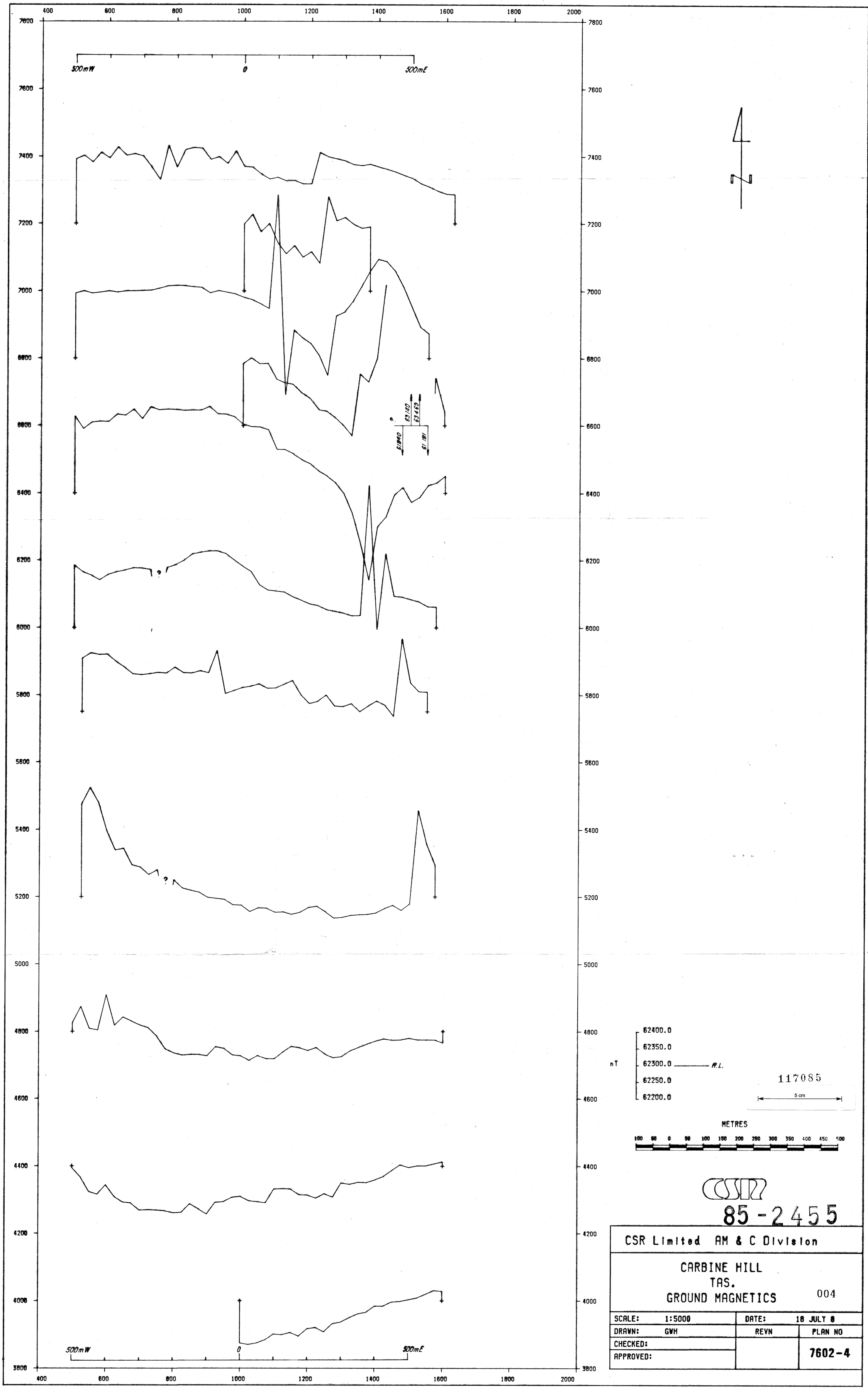
CSR LIMITED

LOCATION OF GRID
CARBINE AREA 003

E.L. 15/76 DUNDAS TASMANIA

SCALE	1:5000
DRAWN	P.D.E. / C.J.L.
DATE	JULY 1985
REVISED	

7602-3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800
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1200
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1800
2000
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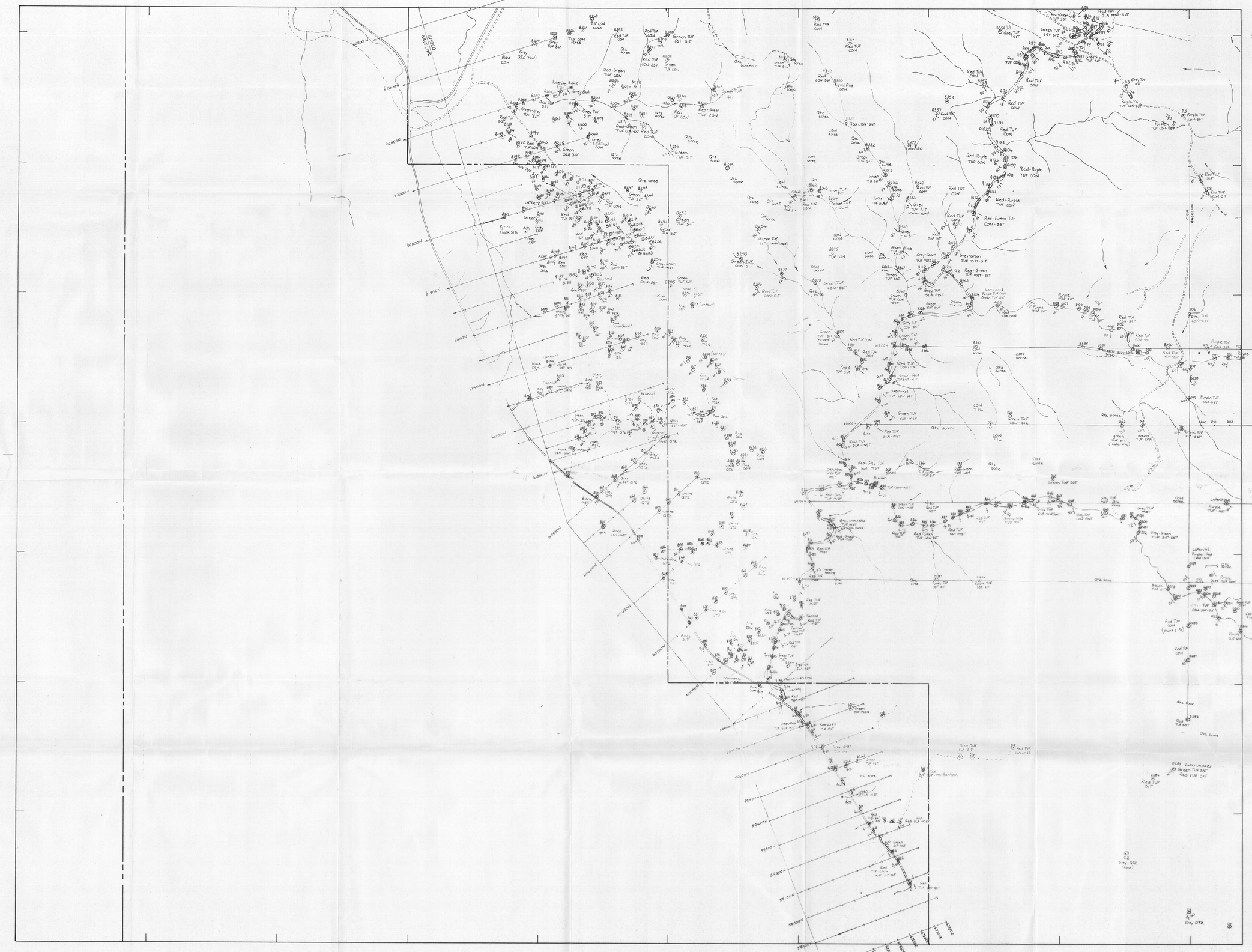
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
500mW
0
500mE
63140
63469
61840
61181
?
nT
62400.0
62350.0
62300.0
62250.0
62200.0
R.L.
117085
5 cm
METRES
100 50 0 50 100 150 200 250 300 350 400 450 500
CSIRO
85-2455
CSR Limited AM & C Division
CARBINE HILL
TAS.
GROUND MAGNETICS
004
SCALE: 1:5000
DATE: 18 JULY 8
DRAWN: GWH
REVN
PLAN NO
CHECKED:
APPROVED:
7602-4

005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5 362 500
5 362 000
5 361 500
5 361 000
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5 360 000
5 359 500
AMOCO BASE LINE
Pyrrhic Block SH.
Lafferty Block
Lafferty Block SH.
Lafferty Block Ext.
Lafferty Block Ext. SH.
Razorback Block
Razorback Block SH.
Razorback Block Ext.
Razorback Block Ext. SH.
Carbine Block
Carbine Block SH.
Carbine Block Ext.
Carbine Block Ext. SH.
Misery Block
Misery Block SH.
Misery Block Ext.
Misery Block Ext. SH.
Dundas Block
Dundas Block SH.
Dundas Block Ext.
Dundas Block Ext. SH.
Zeehan Block
Zeehan Block SH.
Zeehan Block Ext.
Zeehan Block Ext. SH.
Amoco JV
Elliott JV
Red-Purple TUF CON
Red-Green TUF CON - SST
Grey Green TUF MST - SIT
Red TUF SLA - MST
Green TUF SST - SIT
Red TUF CON - SST
Red TUF SIT
Red TUF SST
Green TUF SIT
Grey TUF SIT
Purple TUF SST
Purple TUF SIT
Purple TUF CON - SST
Purple TUF CON - SIT
Grey TUF CON - SST
Grey TUF CON - SIT
Red TUF CON - MST
Green TUF CON - SST
Green TUF CON - SIT
Green TUF SST
Grey TUF SST
Grey TUF SLA
Grey TUF MST
Red TUF CON
Green TUF CON
Qtz Scree
CON Scree
Qtz Vein
Qtz Reef
Qtz Stockwork
Qtz Veining
Qtz Boulder
Qtz Float
Qtz Outcrop
Qtz Pebbles
Qtz Gravel
Qtz Sand
Qtz Silt
Qtz Clay
Qtz Soil
Qtz Rock
Qtz Stone
Qtz Pebble

117087

Prospect 7602

7777/85

CSR LIMITED

MINERALS EXPLORATION AND DEVELOPMENT GROUP

RENEWAL REPORT - 1985

EXPLORATION LICENCE 15/76

DUNDAS, TASMANIA

PROTECTED

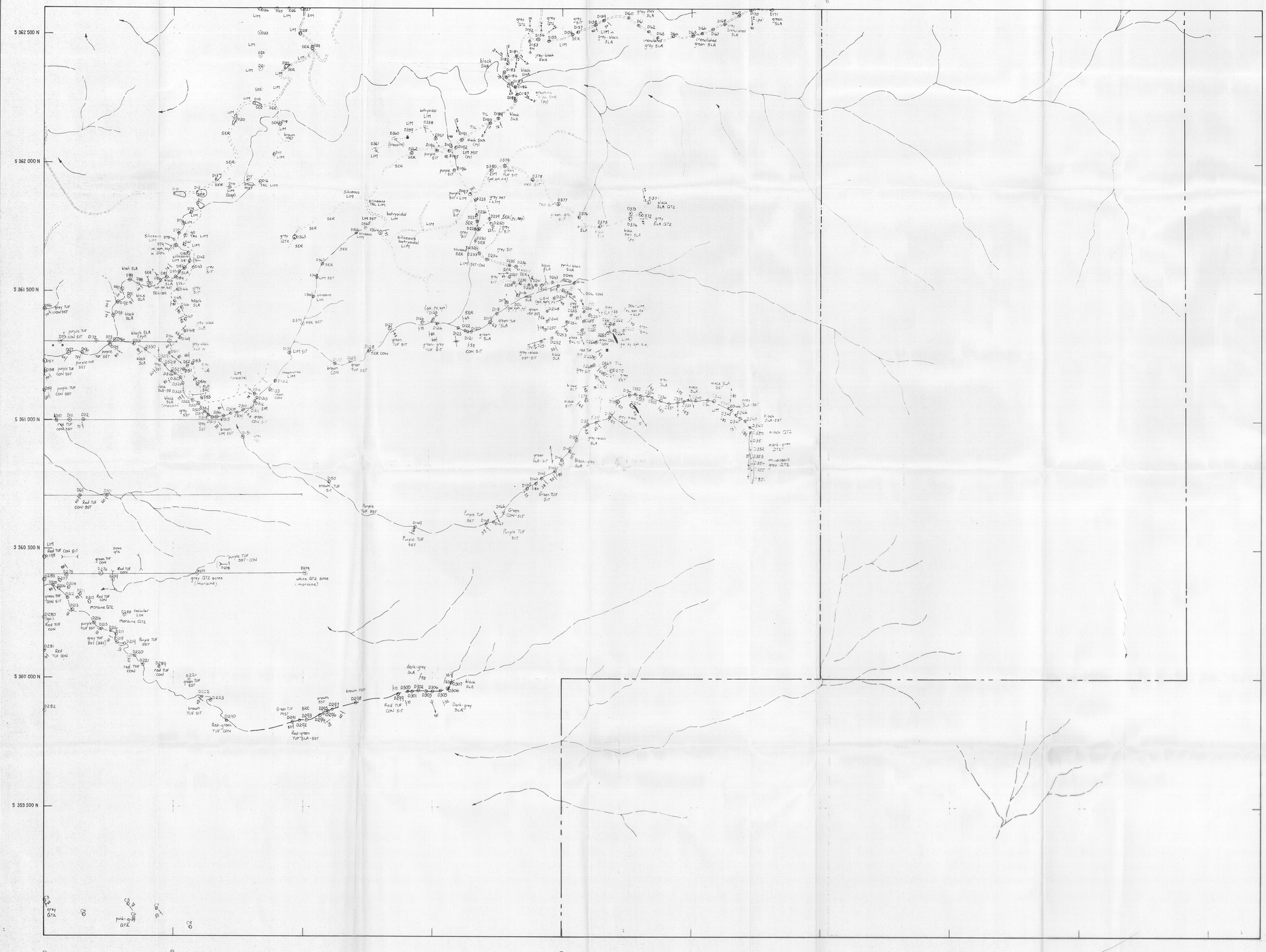
EMR 72/85

HOBART

JUNE 1985

P.D. ELLIS

006


5 362 500 N
5 362 000 N
5 361 500 N
5 361 000 N
5 360 500 N
5 360 000 N
5 359 500 N
369 000
369 500
370 000
370 500
371 000
371 500
372 000
372 500
373 000
373 500
Red TUF CON SST
Purple TUF SST
Green TUF SST
Red TUF CON SIT
Purple TUF SST (BRC)
Red-green TUF-SLA-SST
Red-green TUF-CON
Red TUF CON
Purple TUF SST-CON
grey QTZ scree (moraine)
white QTZ scree (moraine)
moraine QTZ
Green TUF MST
BRC
Dark-grey SLA
Red TUF CON SIT
brown SST
Purple TUF SST
Green TUF CON-SIT
Purple TUF SST
Green TUF CON-SST
Purple TUF SST
Red TUF CON-SST
Red TUF CON SIT
Purple TUF SST
Red TUF CON SST
Purple TUF CON SST
Purple TUF CON SIT
Purple TUF SST
Purple TUF CON SST
Purple TUF SST
Red TUF CON SST
Red TUF CON SST
Red TUF CON

007

5 366 000 N
5 365 500 N
5 365 000 N
5 364 500 N
5 364 000 N
5 363 500 N
5 363 000 N
5 362 500 N

363 000 E
363 500 E
370 000 E
370 500 E
371 000 E
371 500 E
372 000 E
372 500 E
373 000 E
373 500 E

N

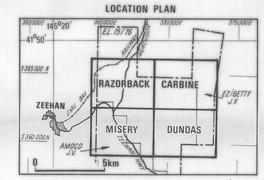
REFERENCE

- Road
- Track, vehicular
- Track, walking
- Stream, major
- Stream, minor
- Mining adits
- Grid lines
- Licence boundary
- Joint venture boundary
- Outcrop with sample number
- Float with sample number
- Strike and dip of bedding
- Vertical bedding
- Strike and dip of bedding, overturned
- Strike and dip of schistosity
- Strike and dip of cleavage
- Vertical cleavage
- Strike and dip of shearing
- Vertical shearing
- Strike and dip of joints
- Vertical joints
- Trend and plunge of anticline, minor
- Trend and plunge of syncline, minor
- Trace of anticline
- Trace of syncline
- Trend and plunge of fold axis

LITHOLOGY CODE

DOI	Dolerite
SER	Serpentinite
PHY	Phyllite
SLA	Slate
CSH	Carbonaceous shale
SIT	Siltstone
MST	Mudstone
SHL	Shale
SST	Sandstone (Arenite)
QTZ	Quartzite
ARK	Arkose (feldspar rich sandstone)
MSR	Sub greywacke
LGR	Lithic greywacke
LMG	Lithic metagreywacke (Pyroclastic)
CGN	Conglomerate
TIL	Tillite
BRC	Breccia
DOL	Dolomite with limestone
TUF	Tuff
FBR	Fault breccia
HOR	Hornfels
LIM	Limonite
TAL	Talcose

LOCATION PLAN



0·0 0·5 Km

SCALE 1:5000

5 cm

117089

85-2455

CSR LIMITED - AM & C DIVISION

E.L.15/76 DUNDAS, TASMANIA
GEOLOGICAL FACT MAP
CARBINE 007

DRAWN : P KITTO / P.D ELLIS	
DATE: 22-JAN-85	PLAN NO. 7602-7

008



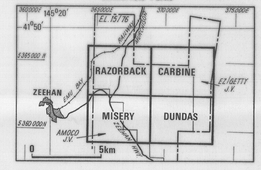
REFERENCE

- Road
- Track, vehicular
- Track, walking
- Stream, major
- Stream, minor
- Mining adits
- Grid lines
- Licence boundary
- Joint venture boundary
- Outcrop with sample number
- Float with sample number
- Strike and dip of bedding
- Vertical bedding
- Strike and dip of bedding, overturned
- Strike and dip of schistosity
- Strike and dip of cleavage
- Vertical cleavage
- Strike and dip of steering
- Vertical steering
- Strike and dip of joints
- Vertical joints
- Trend and plunge of anticline, minor
- Trend and plunge of syncline, minor
- Trace of anticline
- Trace of syncline
- Trend and plunge of fold axis

LITHOLOGY CODE

DOI	Dolerite
SER	Serpentinite
PHY	Phyllite
SLA	Slate
CSH	Carbonaceous shale
SIT	Siltstone
MST	Mudstone
SHL	Shale
SST	Sandstone (Arenite)
QTZ	Quartzite
ARK	Arkose (Feldspar rich sandstone)
MGR	Sub greywacke
LGR	Lithic greywacke
LMG	Lithic metagreywacke (Pyroclastic)
CON	Conglomerate
TIL	Tillite
BRC	Breccia
DOL	Dolomite with limestone
TUF	Tuff
FBR	Fault breccia
HOR	Hornfels
LIM	Limonite
TAL	Talcose

LOCATION PLAN



0-0 0-5 Km

SCALE 1:5000

5 cm

CSR

117090 85-2455

CSR LIMITED - AM & C DIVISION

E.L.15/76 DUNDAS, TASMANIA
GEOLOGICAL FACT MAP 008
RAZORBACK

DRAWN : P. KITTO / P.D. ELLIS

DATE: 22-JAN-85 PLAN NO. 7602 – 8

009



REFERENCE

ORDOVICIAN

Og		GORDON LIMESTONE
Om		MOINA SANDSTONE

CAMBRIAN

Em	Em1	MISERY CONGLOMERATE
	Em	Coarse grained conglomeratic sandstone. Variable
Ecl	Ecl1	CLIMAX FORMATION
	Ecl2	Green laminated tuffaceous siltstone
	Ecl3	Red coarse tuffaceous sandstone and siltstone
Ef		FERNYLOW FORMATION
Eco		COMET FORMATION
Efe		FERNFIELDS FORMATION
Eb		BREWERY JUNCTION FORMATION
Era		RAZORBACK CONGLOMERATE
Eh		HODGE SLATE
Er		RED LEAD CONGLOMERATE
Ed		DUNDAS GROUP - UNASSIGNED
Ec		CRIMSON CREEK FORMATION

PRECAMBRIAN

Puo	GONAH FORMATION

INTRUSIVES

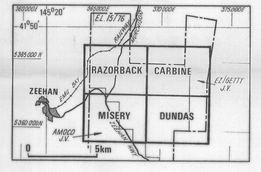
DIO	Dolerite
SER	Serpentinite
LIM	Limonite

MINERALIZATION

Py	Pyrite
Pb	Lead
Zn	Zinc
gal	Galena
sph	Sphalerite
asp	Arsenopyrite
ccp	Chalcopyrite
moly	Molybdenite
sid	Siderite

- Road
- Track, vehicular
- Track, walking
- Stream, major
- Stream, minor
- Mining adit
- Licence boundary
- Joint venture boundary
- Geological boundary, accurate
- , approx.
- , inferred
- Fault, established movement
- , doubtful approx.
- , inferred
- , inferred, concealed
- Strike and dip of: bedding, vertical, overturned
- cleavage, vertical
- shearing, vertical
- joints, vertical
- schistosity
- Trend and plunge of: minor anticline
- syncline
- Trace of: anticline
- syncline
- Trend and plunge of fold axis

LOCATION PLAN



SCALE 1:500k

5 cm

117091

85-2455

CSR LIMITED - AM & C DIVISION

E.L. 15/76 DUNDAS, TASMANIA
INTERPRETATIVE GEOLOGY
MISERY 009

DRAWN : P.KITTO / P.D ELLIS
DATE : 22-JAN-85
PLAN NO. 7602 – 9

010



REFERENCE

ORDOVICIAN	Og	GORDON LIMESTONE
	Om	MOINA SANDSTONE
CAMBRIAN	Ꞓm	MISERY CONGLOMERATE
	Ꞓm1	Coarse grained conglomeratic sandstone
	Ꞓm	Variable
	Ꞓc1	CLIME FORMATION
	Ꞓc1i	Green laminated tuffaceous siltstone
	Ꞓc1a	Red coarse tuffaceous sandstone and siltstone
	Ꞓf	FERNFLOW FORMATION
	Ꞓco	COMET FORMATION
	Ꞓfe	FERNFIELDS FORMATION
	Ꞓb	BREWERY JUNCTION FORMATION
	Ꞓra	RAZORBACK CONGLOMERATE
	Ꞓh	HODGE SLATE
	Ꞓr	RED LEAD CONGLOMERATE
	Ꞓd	DUNDAS GROUP - Unassigned
	Ꞓg	CRIMSON CREEK FORMATION
PRECAMBRIAN	Ꞓuo	DONAH FORMATION

INTRUSIVES

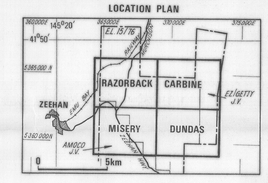
DIO	Dolerite
SER	Serpentinite
LIM	Limonite

MINERALIZATION

Py	Pyrite
Pb	Lead
Zn	Zinc
gal	Galena
sph	Sphalerite
asp	Arsenopyrite
ccp	Chalcopyrite
moly	Molybdenite
sid	Siderite

Road
Track, vehicular
Track, walking
Stream, major
Stream, minor
Mining adit
Licence boundary
Joint venture boundary
Geological boundary, accurate
" , approx.
" , inferred
Fault, established movement
" , position approx.
" , inferred
" , inferred concealed
Strike and dip of bedding, vertical, overturned
" " cleavage, vertical
" " shearing, vertical
" " joints, vertical
" " schistosity
Trend and plunge of minor anticline
" " syncline
Trace of anticline
" syncline
Trend and plunge of fold axis

LOCATION PLAN



0.0 0.5 Km

SCALE 1:5000

5 cm

117092

85-2455

CSR LIMITED - AM & C DIVISION

E.L. 15/76 DUNDAS, TASMANIA
INTERPRETATIVE GEOLOGY
DUNDAS

010

DRAWN:	P. KITTO / P.D. ELLIS		
DATE:	22-JAN-85	PLAN NO.	7602-10

011

REFERENCE

QUATERNARY	Qra	Alluvium
	Qrg	Gravels
	Qt	Conglomerate talus
	Qt	Dolerite talus
	Qrs	Older alluvium marsh deposits, downwash etc.
	Qpf	Fluvioglacial & lacustrine deposits
	Qpm	Moraine
PERMIAN	Pt	Zeehan Glacial Formation
DEVONIAN	Db	Bell Shale
	Df	Florence Quartzite
SILURIAN	Sac	Austral Creek Siltstone
	Sk	Keel Quartzite
	Sa	Amber Slate
	Sc	Crotty Quartzite
	S	Unassigned
ORDOVICIAN	Og	Gordon Limestone
	Om	Moina Sandstone
	Oz	Mt Zeehan Conglomerate
CAMBRIAN	Em	Misery Conglomerate
	Ecl	Climie Formation
	Ef	Fernflow Formation
	Eco	Comet Formation
	Efe	Fernfields Formation
	Eb	Brewery Junction Formation
	Era	Razorback Conglomerate
	Eh	Hodge Slate
	Er	Red Lead Conglomerate
	Ed	Dundas Group unassigned
	Ec	Crimson Creek Formation
	E	Cambrian unassigned
PROTEROZOIC	Puo	Oonah Quartzite & Slate
	Pc	Concert Schist
	Pw	Whyte Schist

IGNEOUS ROCKS

JURASSIC	Jdl	Dolerite
	D	Quartz porphyry
CAMBRIAN	Eg	Gabbro, norite and dolerite
	Es	Serpentinite and pyroxenite

- Stream sediment (M)
- Panned concentrate (P)
- Rock chip, Float (R, F)
- Limonite (L)

181 — 182 GEOTERREX BARRINGER SYSTEM AIRBORNE TEST E.M. LINE 1.5E (1978)

MH 208-20 MAGNETIC HIGH AT FIDUCIAL 208-20 ON FLIGHT LINE

EM 206-45 E.M ANOMALY AT FIDUCIAL 206-45 ON FLIGHT LINE

5 cm

117093

85-2455

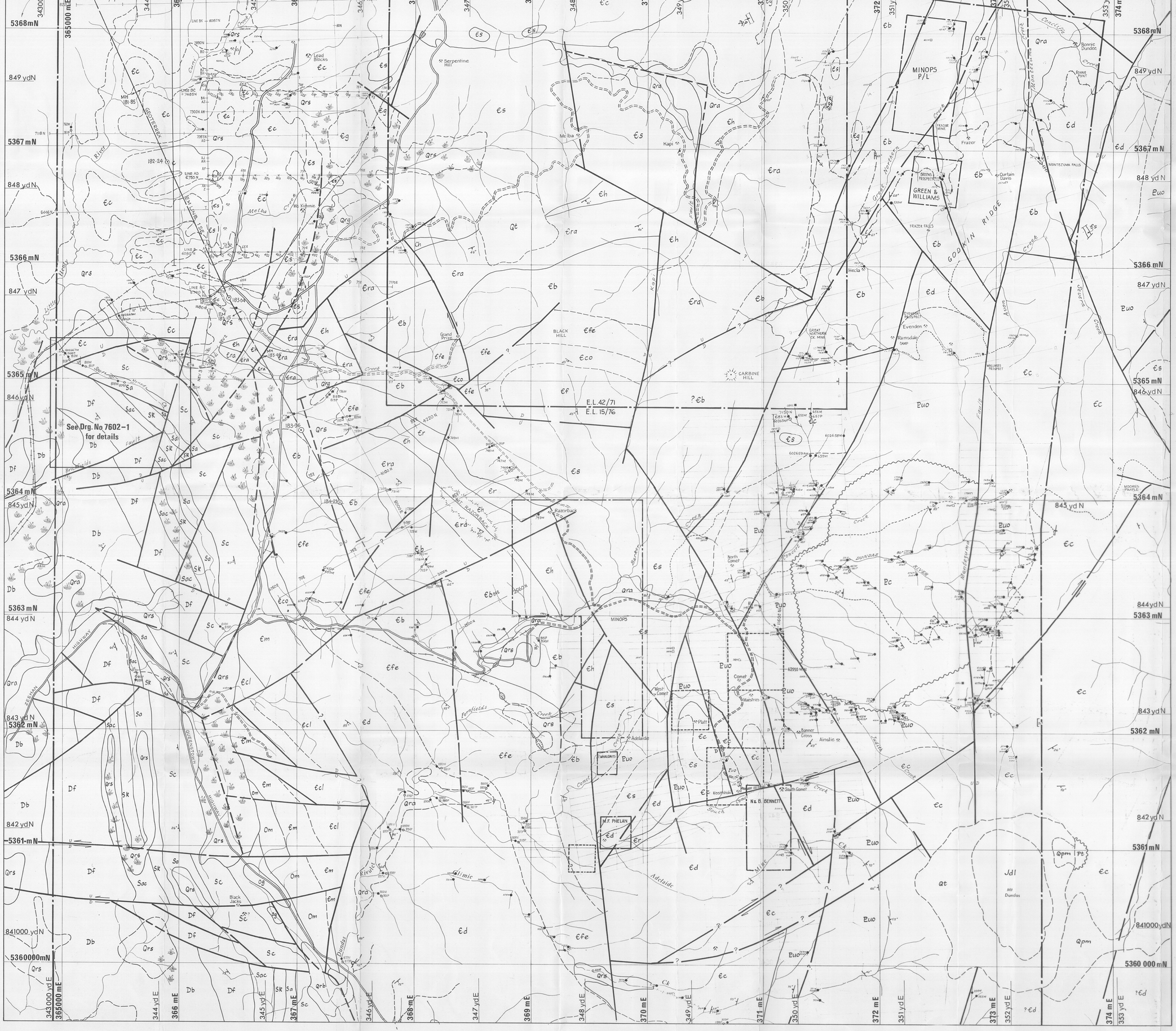
PACMINEX PTY. LIMITED

GEOTERREX E.M. TEST LINES AND DRAINAGE SAMPLE NUMBERS

E.L. 15/76 - North Sheet

011

DUNDAS, WEST TASMANIA



Period	Symbol	Description
QUATERNARY	Q	Qrg Gravels
		Qt Conglomerate talus
		Qc Dolerite talus
		Qrs Older alluvium marsh deposits, downwash etc.
		Qpf Fluvioglacial & lacustrine deposits
		Qpm Moraine
PERMIAN	P	Pt Zeehan Glacial Formation
DEVONIAN	D	Db Bell Shale
		Df Florence Quartzite
SILURIAN	S	Sac Austral Creek Siltstone
		Sk Keel Quartzite
		Sa Amber Slate
		Sc Crotty Quartzite
		S Unassigned
ORDOVICIAN	O	Og Gordon Limestone
		Om Moina Sandstone
		Oz Mt Zeehan Conglomerate
CAMBRIAN	Є	Єm Misery Conglomerate
		Єcl Climie Formation
		Єf Fernflow Formation
		Єco Comet Formation
		Єfe Fernfields Formation
		Єb Brewery Junction Formation
		Єra Razorback Conglomerate
		Єh Hodge Slate
		Єr Red Lead Conglomerate
		Єd Dundas Group unassigned
		Єc Crimson Creek Formation
		Є Cambrian unassigned
PROTEROZOIC	P	Ꝑuo Oonah Quartzite & Slate
		Ꝑc Concert Schist
		Ꝑw Whyte Schist
IGNEOUS ROCKS		
		Jdl JURASSIC Dolerite
DEVONIAN	D	[illegible] Quartz porphyry
CAMBRIAN	Є	Єg Gabbro, norite and dolerite
		Єs Serpentinite and pyroxenite

- ● Stream sediment (M)
- ○ Panned concentrate (P)
- ○ Rock chip, float (R, F)
- ■ Limonite (L)

181 — 182 GEOTERREX BARRENGER SYSTEM AIRBORNE TEST E M LINE 1 SE (1978)

MH 208-20 MAGNETIC HIGH AT FIDUCIAL 208-20 ON FLIGHT LINE

EM 206-45 EM ANOMALY AT FIDUCIAL 206-45 ON FLIGHT LINE

5 cm

117093

85-2455

PACMINEX PTY. LIMITED

GEOTERREX E.M. TEST LINES AND DRAINAGE SAMPLE NUMBERS

E. L. 15/76 – North Sheet

DUNDAS, WEST TASMANIA

011

SCALE	1 : 10 000		K555-6
DRAWN	P.M.M./P.H./P.D.E.	DRG No.	7602-11
DATE	Jan '79		
REVISED	May '81, Oct '81, July '85		

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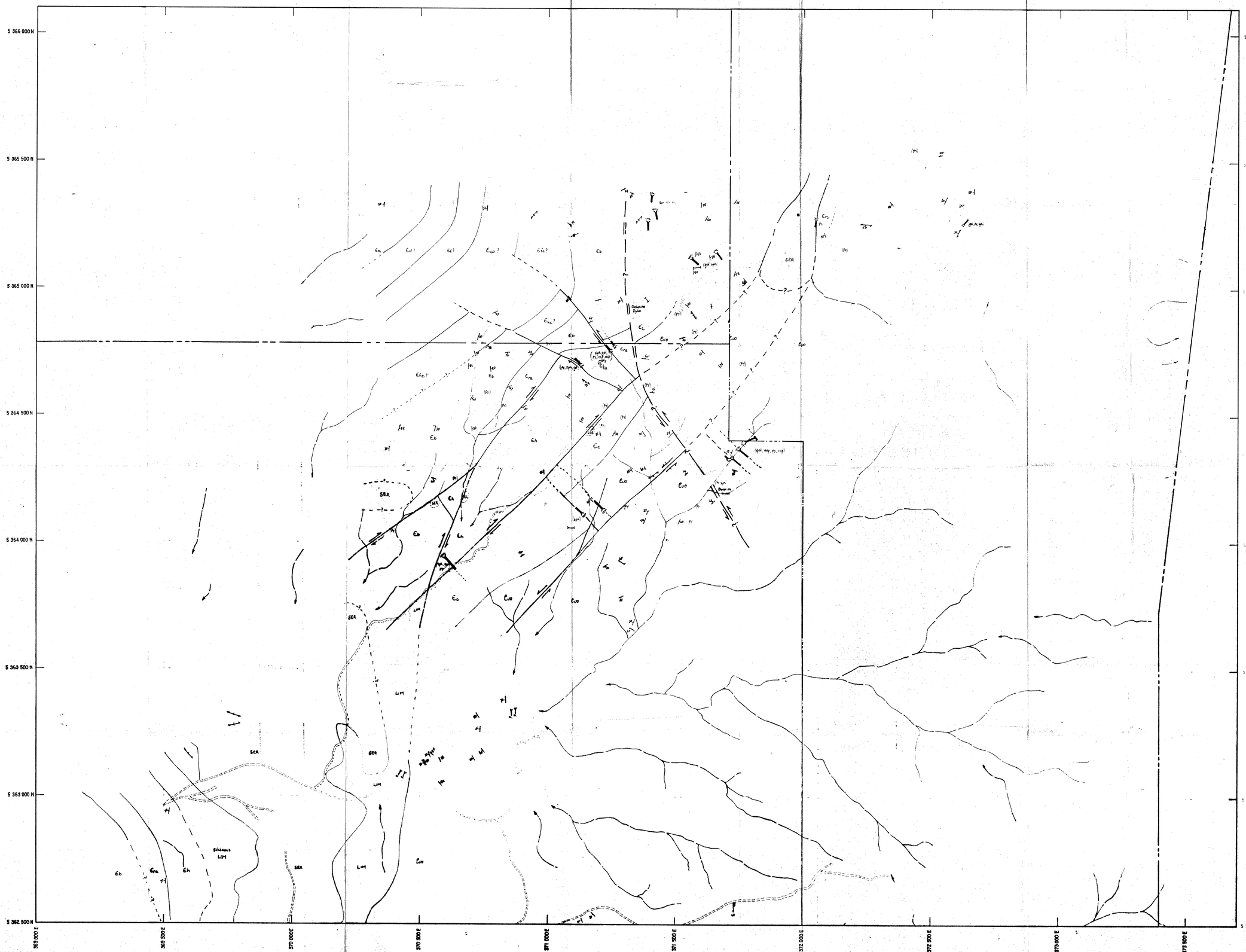


N

REFERENCE

ORDOVICIAN	Og	GORDON LIMESTONE
	Om	MOINA SANDSTONE
CAMBRIAN	Єm	MISERY CONGLOMERATE
	Єm1	Coarse grained conglomeratic sandstone
	Єm2	Variable
	Єcl	CLIMAX FORMATION
	Єcl1	Green laminated tuffaceous siltstone
	Єcl2	Red coarse tuffaceous sandstone and siltstone
	Єf	FERNFLOW FORMATION
	Єco	COMET FORMATION
	Єfe	FERNFIELDS FORMATION
	Єb	BREWERY JUNCTION FORMATION
	Єra	RAZORBACK CONGLOMERATE
	Єh	HODGE SLATE
	Єr	RED LEAD CONGLOMERATE
	Єd	DUNDAS GROUP - Unassigned
	Єc	CRIMSON CREEK FORMATION
PRECAMBRIAN	Ꝑuo	DONAH FORMATION

INTRUSIVES

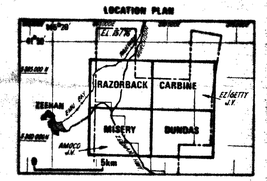
DIO	Dolerite
SER	Serpentinite
LIM	Limonite

MINERALIZATION

Py	Pyrite
Pb	Lead
Zn	Zinc
gal	Galena
sph	Sphalerite
asp	Arsenopyrite
ccp	Chalcopyrite
moy	Molybdenite
sid	Siderite

Road
Track, vehicular
Track, walking
Stream, major
Stream, minor
Mining adit
Licence boundary
Joint venture boundary
Geological boundary, accurate
" " , approx.
" " , inferred
Fault, established movement
" , position approx.
" , inferred
" , inferred, concealed
Strike and dip of bedding, vertical, overturned
" " cleavage, vertical
" " shearing, vertical
" " joints, vertical
" " schistosity
Trend and plunge of minor anticline
" " " syncline
Trace of anticline
" syncline
Trend and plunge of fold axis

LOCATION PLAN



0.5 0.5 Km

SCALE 1:5000

5 cm

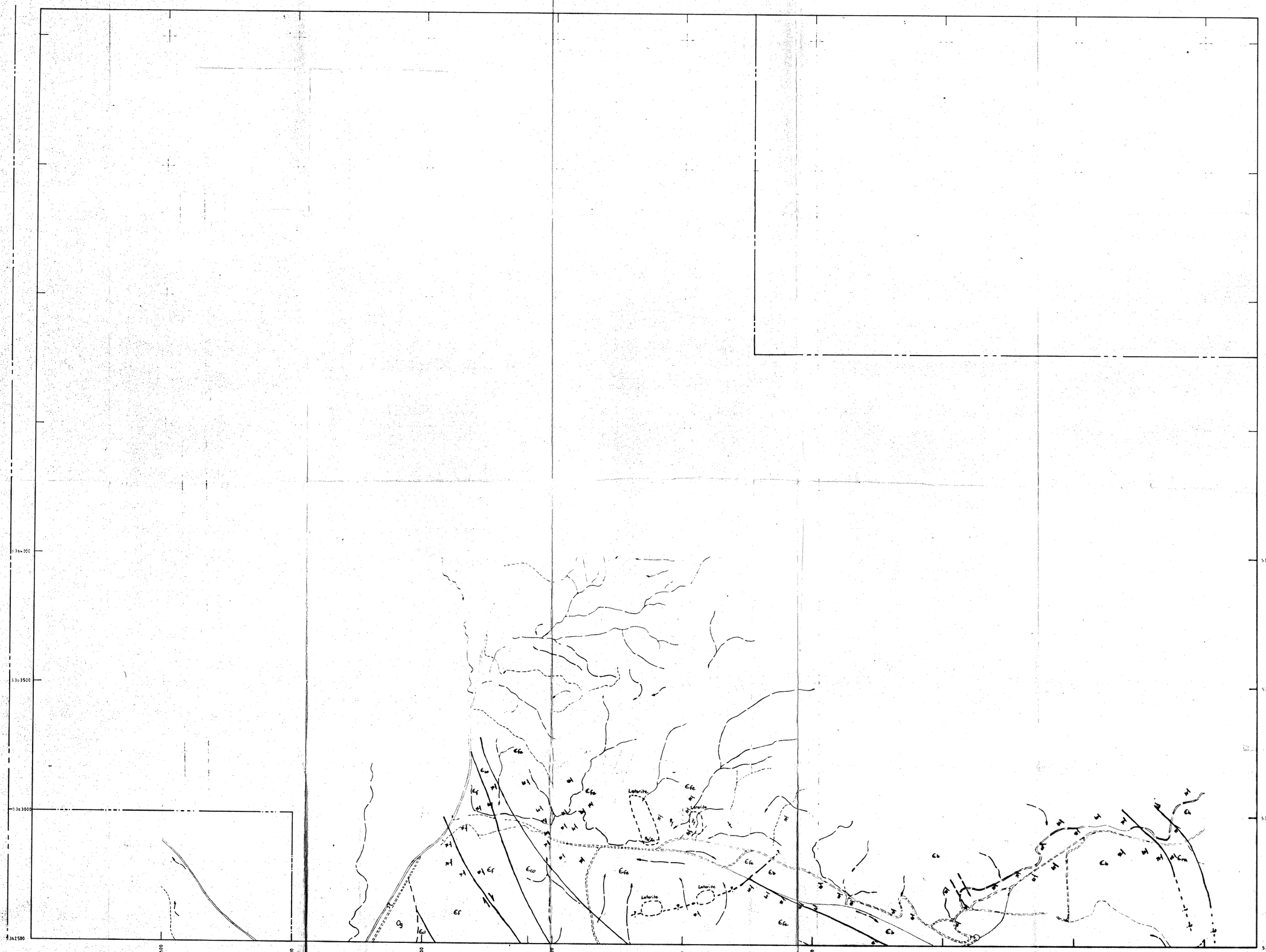
117094 85-2455

CSR LIMITED - AM & C DIVISION

E.L. 15/76 DUNDAS, TASMANIA
INTERPRETATIVE GEOLOGY
CARBINE 012

DRAWN : P. KITTO / P.D. ELLIS	
DATE: 22-JAN-85	PLAN NO. 7602 - 12

013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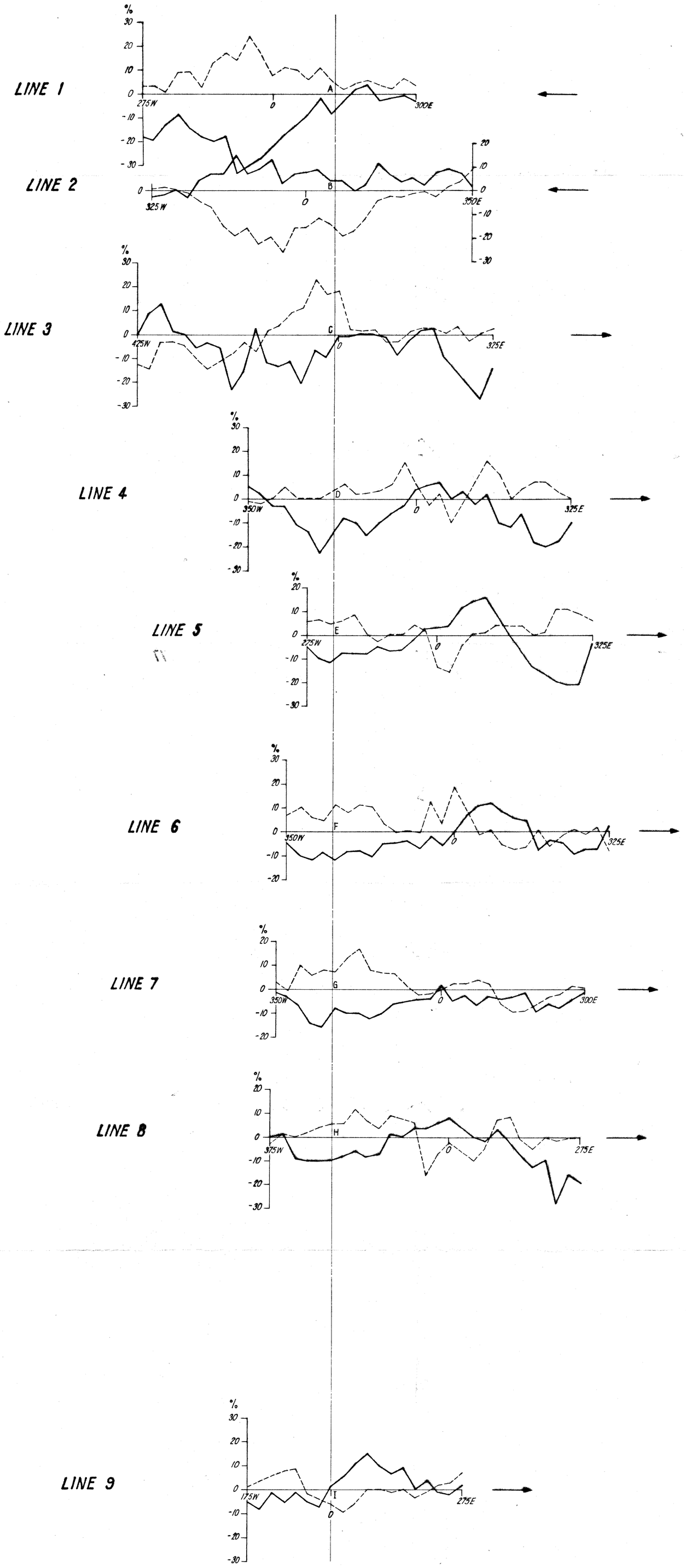
Laterite
Laterite



85-2455

117096

REFERENCE

NOTE : GRID LINE DISTANCES IN METRES FROM SOUTH NEVADA CREEK
REFER DRG. No. 7602-1 FOR GRID LINE LOCATIONS

→ INDICATES DIRECTION OF VLF-EM TRAVERSE
—— QUADRATURE
---- IN PHASE

CSR LIMITED

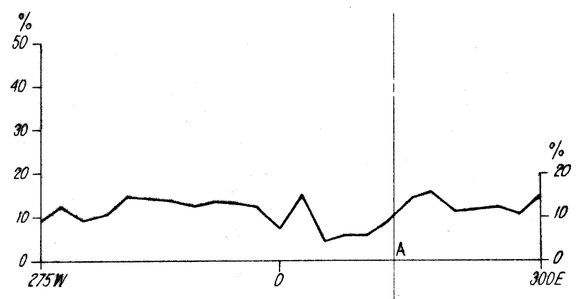
E.L. 15/76 DUNDAS, TASMANIA

SOUTH NEVADA CREEK ANOMALY

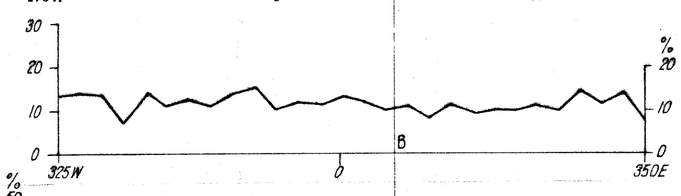
VLF-EM PROFILES 014

SCALE : 1:5000 Horizontal	DRG. No.
DRAWN : P.D.E / PR	**7602-14**
DATE : July '85	
REVISED :	

LINE 1



LINE 2



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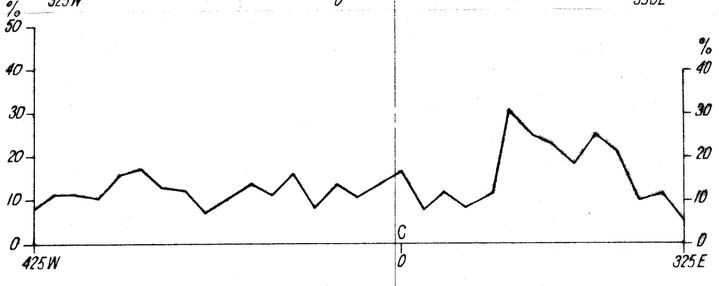

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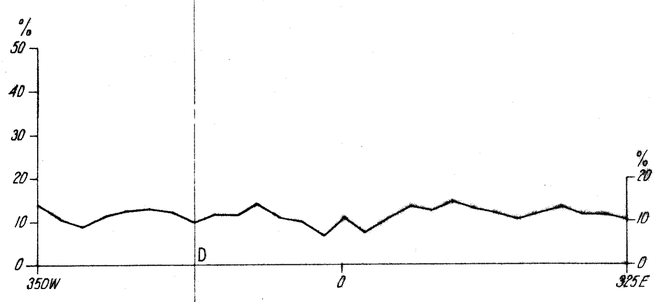

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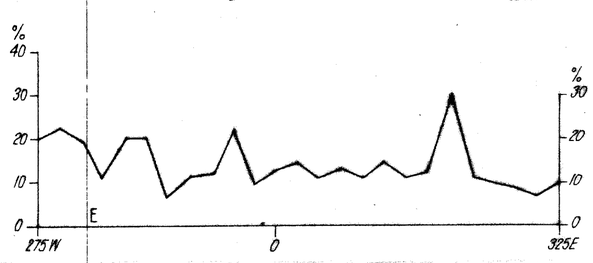

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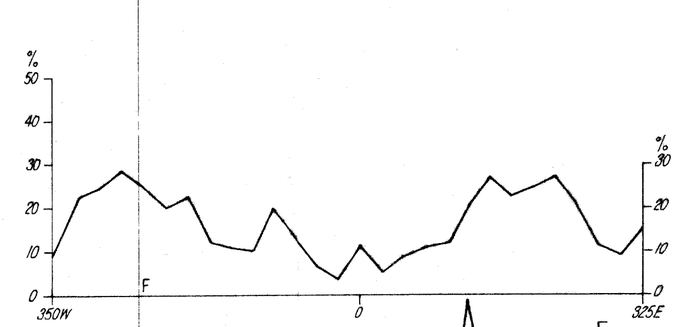

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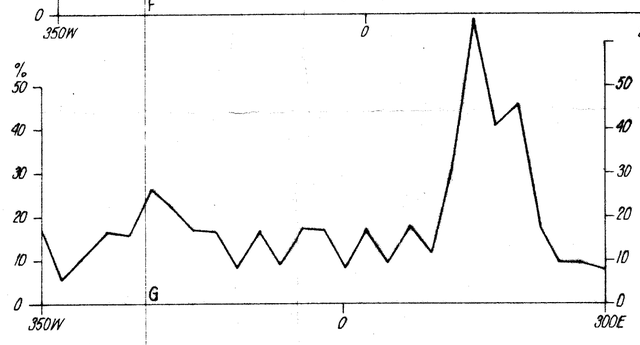

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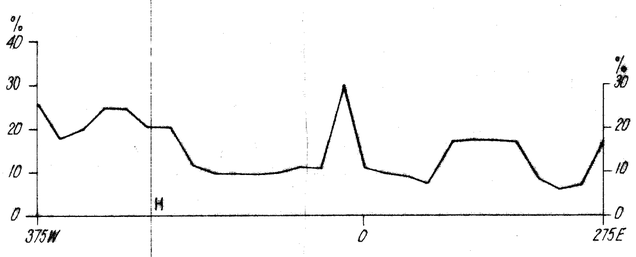


LINE 9

5 cm

117097

85 2455

REFERENCE

NOTE : GRID LINE DISTANCES IN METRES FROM SOUTH NEVADA CREEK

REFER DRG. No. 7602-1 FOR GRID LINE LOCATIONS

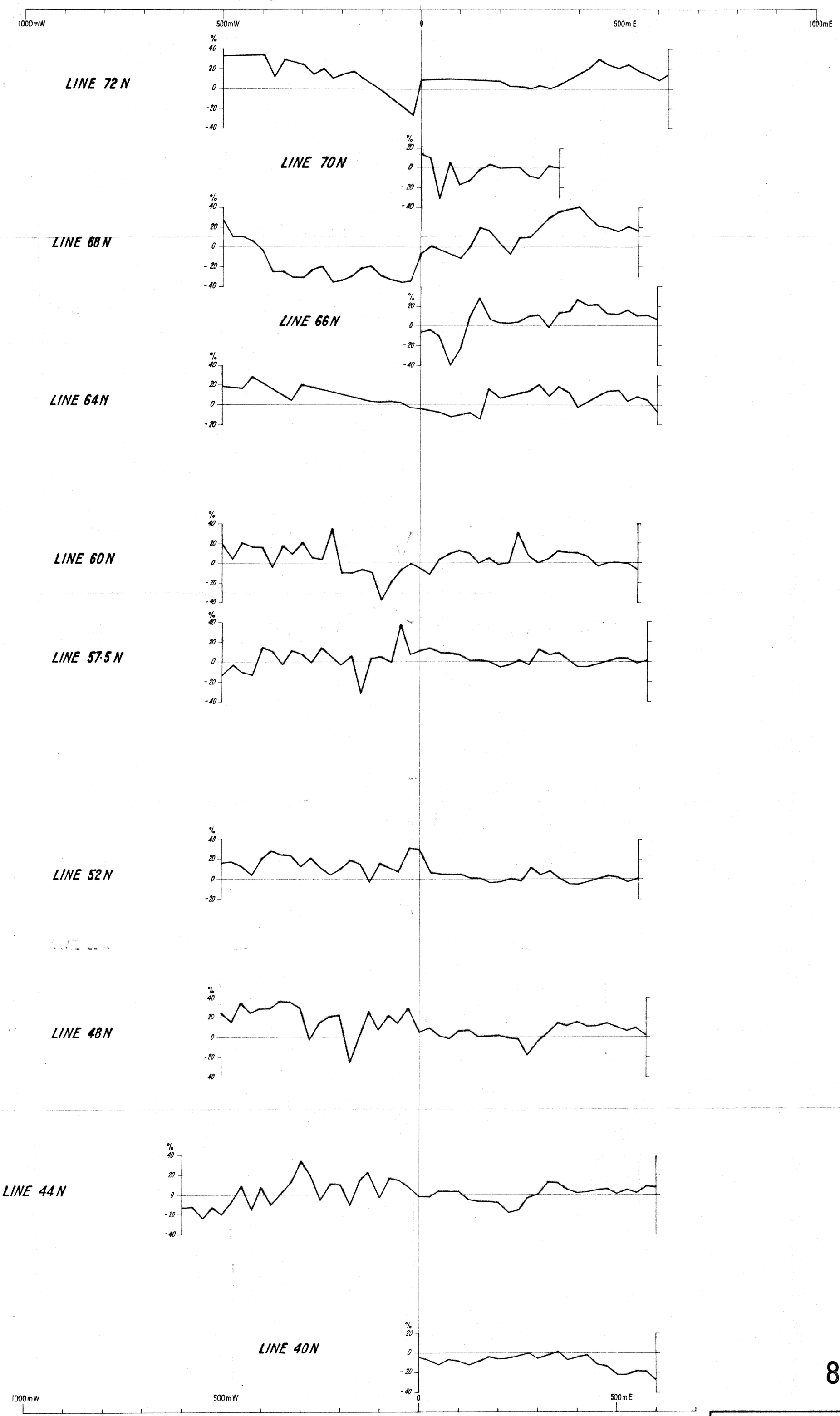
CSR LIMITED

E.L. 15/76 DUNDAS, TASMANIA
SOUTH NEVADA CREEK ANOMALY

VLF-RESISTIVITY PROFILES

015

SCALE	1:5000 Horizontal	DRG. No.
DRAWN	P.D.E. /P.R.	**7602-15**
DATE	July '85	
REVISED		



117098

5 cm

85 2455

CSR LIMITED

E.L.15/76 DUNDAS, TASMANIA

CARBINE AREA

VLF-EM PROFILES

016

SCALE	:	1:5000 Horizontal	DRG. No.
DRAWN	:	P.D.E./P.R	**7602-16**
DATE	:	July '85	
REVISED	:		