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168001

PROSPECT 605

CSR LIMITED

MINERALS EXPLORATION AND DEVELOPMENT GROUP

RENEWAL REPORT - 1985

EXPLORATION LICENCE NO. 31/82

MT LINDSAY, TASMANIA

EMR 56/85

OPEN FILE

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APRIL 1985

P.D. ELLIS

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KEYWORDS

TASMANIA
EL 31/82
MT LINDSAY
SK 55-03
PRECAMBRIAN OONAH FORMATION
SUCCESS CREEK GROUP
MEREDITH GRANITE
LODE TIN
ALLUVIAL CASSITERITE
GOSSANS
DIAMOND DRILLING
FOLLOW-UP DRAINAGE SAMPLING
GROUND MAGNETICS

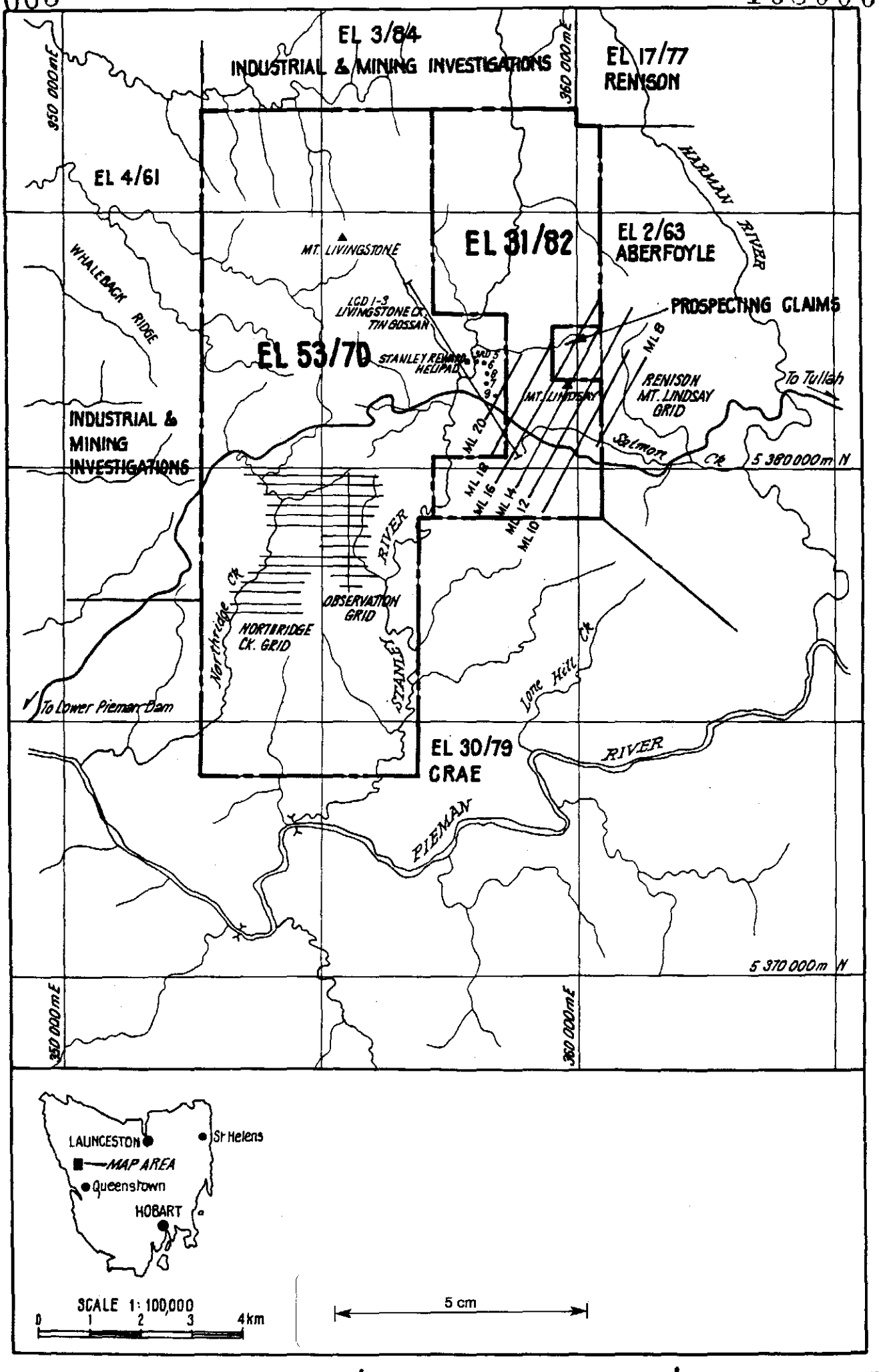

FIG. 1. LOCATION MAP EL 53/70 STANLEY RIVER & EL 31/82 MT. LINDSAY TAS.

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1. INTRODUCTION

Exploration Licence 31/82 (EL 31/82) was granted to CSR Limited on 15th June, 1983. The Licence covers an area of 20 km^2 situated immediately east of CSR's EL 53/70 (Stanley River) on the west coast of Tasmania (Figure 1).

The area has potential for Renison-style carbonate replacement and/or skarn tin mineralisation in a continuation of the dolomitic Success Creek Group sediments known within CSR's adjacent EL 53/70. These sediments have been intruded by the tin-bearing Devonian Meredith Granite.

Between 1895 (when tin was discovered at the nearby Stanley Reward) and September, 1982 (when CSR applied for EL 31/82), the area was intermittently and intensely prospected by several companies and individuals as well as investigated by government researchers.

This report summarises the investigations completed in the second 12 month term of the Licence until June 1985.

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2. SUMMARY

Follow-up regional geochemical sampling during the second term of the Licence showed that repeatable geochemical anomalies occurred only over the Success Creek Formation sediments.

Renison had previously covered these sediments with grid-controlled geophysics, geology and geochemistry and their data was found to be accurate and repeatable. Several drill targets for a Renison-style replacement tin deposit were indicated.

One diamond drill hole was completed at 449.8m. The hole intersected mainly hornfels and chert, but it also intersected a 10m thick limestone unit partially replaced by pyrrhotite and minor chalcopyrite. This style of sulphide mineralization has similarities to that at Renison.

3. LOCATION, ACCESS, VEGETATION AND TOPOGRAPHY

EL 31/82 is centred 18 km north of Zeehan and 25 km west of Tullah on the west coast of Tasmania. It is adjacent to the eastern boundary of CSR's Stanley River area, EL 53/70.

Until recently the only ground access to the area was from Renison Bell by vehicle track to the Pieman River cable car crossing (downstream of the Wilson River) and then by foot track to Mt Lindsay.

In 1975 the access from the Pieman River to Mt Lindsay was upgraded to 4WD standard by Renison. This route was replaced by the HEC Lower Pieman dam-site sealed access road from Tullah in 1978-80. The Licence is 32 km by this road from the Murchison Highway. This HEC road runs east-west through the Licence about 2 km from the southern boundary.

The southern third of the Licence is underlain by mudstones, siltstones and lithic sandstones of the Precambrian Oonah Formation. These rocks support easily traversed low button grass scrub with minor ti-tree/sword grass/bauera scrub in the deep gullies. The central portion is underlain by the Eo-Cambrian Success Creek Group siltstones, shales and dolomites and the Crimson Creek Formation volcaniclastic sediments. The northern half of the Licence is underlain by the Devonian Meredith Granite. These latter areas are covered by thick, almost impenetrable, horizontal scrub and rain forest.

EL 31/82 covers portions of two drainage basins, both of which belong to the large Pieman River drainage area. The eastern edge and central east-west portion is drained by tributaries of the Wilson River. The remainder is drained by the Stanley River. The rivers and streams are deeply incised resulting in a steep hilly topography ranging in elevation from 150 to 900 m.

4. PREVIOUS EXPLORATION

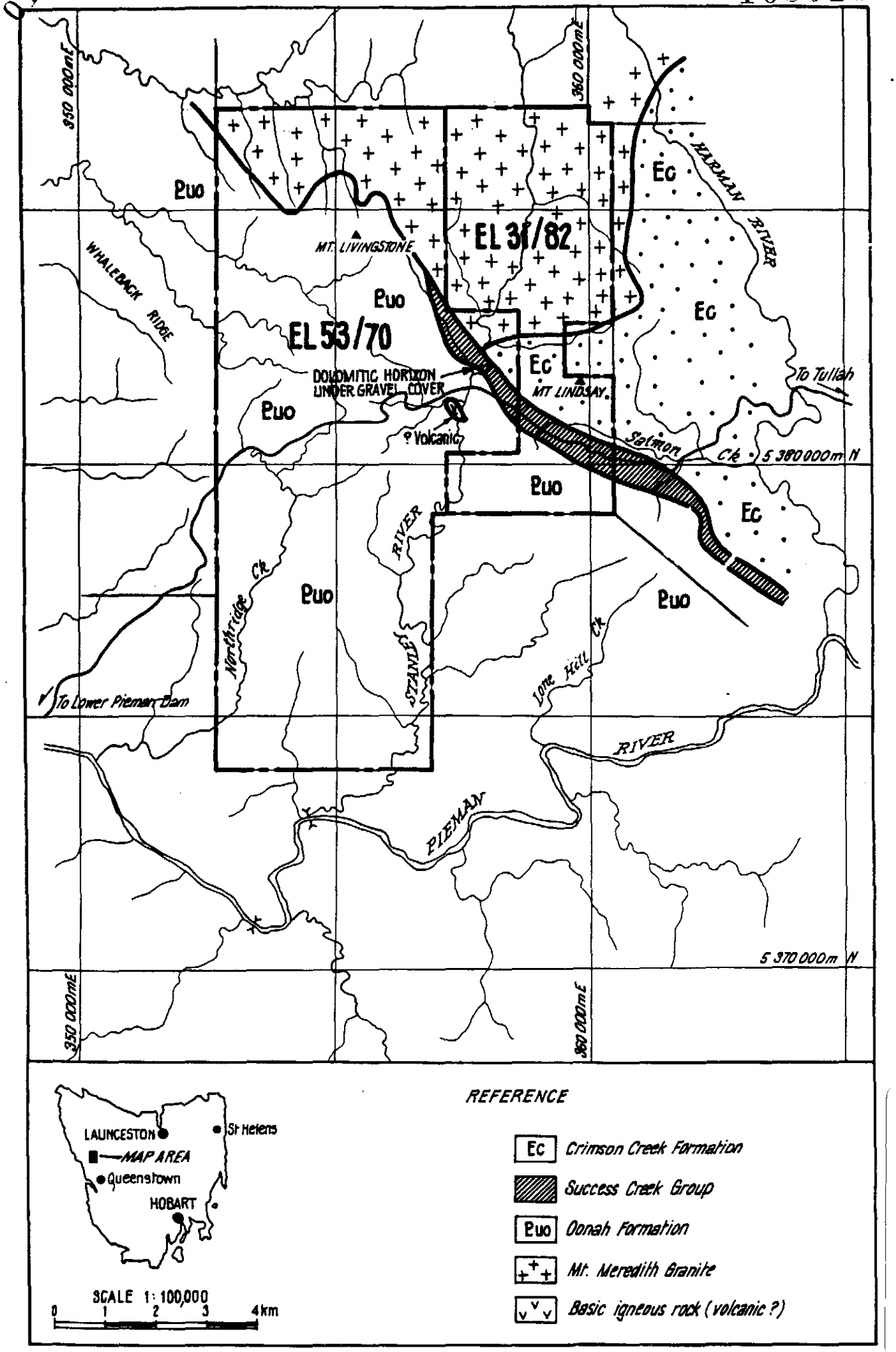
After tin was discovered at the Stanley Reward in 1895 many prospectors explored the Stanley River area. Tin was discovered at Mt. Lindsay in 1901. T. MacDonald started working the Mt. Lindsay deposit in 1909 and during the 1916-21 period won 2156 "bags" of tin concentrate containing 68-71% Sn from alluvial/eluvial deposits. The leases expired in the mid-1920's.

In the 1956-61 period Rio Tinto explored the northwest Tasmania area (SPL302) completing airborne E.M. and magnetic surveys over most of the prospective zone. No other Rio Tinto work is recorded.

Aberfoyle obtained two leases over the Mt Lindsay workings in 1961-62. These were later included in Aberfoyle's EL 2/63 which covered the area from Stanley Reward to the Huskisson River. Between 1962 and 1967 most work within EL 2/63 was confined to the Mt Lindsay workings. This included limited mapping and 23 drill holes. In the 1867-69 period two prospects (Mt Lindsay and Camp 30) were investigated by aeromagnetics and drilling. Semi-regional mapping of the Mt Lindsay-Stanley River area was undertaken in the 1970-71 period followed by SP surveys along existing grids in 1972. Most of this Aberfoyle exploration was in areas outside CSR's EL 31/82.

EL 2/63 was joint ventured to Renison-Consolidated Goldfields in 1973. However, the joint venture excluded the EL 31/82 area as this had been relinquished by Aberfoyle in 1972 and included as part of EL 18/70 (Valley Exploration). Renison obtained the EL 31/82 area as EL 18/73 in 1973. After an initial airborne E.M. (Turain) and magnetic survey and a photogeological interpretation, all of the Renison exploration was confined to the Mt Lindsay anomalies and the Misty Valley grid (along the Success Creek sediments). These

areas were covered with ground mapping, I.P., magnetic and soil geochemistry (Sn, W, Cu, Pb, Zn, As) surveys. Six holes were drilled, generally with poor results. Renison relinquished the area in early September 1982 although the adjacent ground (EL 2/63) was retained in joint venture. This adjacent area was relinquished in early 1985.



5 cm

FIG.2. GEOLOGICAL SUMMARY, STANLEY RIVER & MT. LINDSAY, TASMANIA

5. GEOLOGY

5.1 Regional

The oldest rocks in the area (Figure 2) are those of the relatively unmetamorphosed Precambrian Oonah Formation. These interbedded, fine-grained, lithic and siliceous sandstones with laminated phyllitic mudstones, siltstones and coarse lithic sandstones underlie the southern and southwestern third of the licence area.

Unconformably overlying the Oonah sediments and possibly with a faulted contact, are the Success Group sediments which underlie the swampy Salmon Creek area. These consist of thinly-bedded siliceous siltstones and dolomitic siltstones (Renison Bell Shale equivalents) from the upper part of the Success Creek Group (Brown, 1980).

Volcaniclastic lithic wackes with interbedded siltstones, tuffs, mudstones, minor cherts and carbonates of the Crimson Creek Formation disconformably overlie the Success Creek sediments in the central portion of the Licence. Some of the cherts and carbonates occur about 2000 m stratigraphically above the base of the Crimson Creek Formation and are correlated with the Cleveland Mine sequence. At Mt. Lindsay these carbonates host some tin/tungsten mineralisation.

These sediments have been intruded by the Devonian-Lower Carboniferous Meredith Granite which outcrops in the northern half of the licence area. Fluids associated with this multiphase adamellite intrusion are believed to be responsible for mineralisation at Mt. Bischoff, Cleveland, Mt. Lindsay, Mt. Razorback, Stanley River, Livingstone Creek, Renison Bell and Queen Hill.

Minor recent glacial and fluvio-glacial sediments cap older rocks. These occur as ridge caps or valley floor alluvial-type deposits and contain anomalous tin and gold concentrations.

5.2 Structural Geology

The Oonah Formation sediments form a series of anticlinoria to the west of EL 31/82 with the Success Creek Group sediments being deposited and preserved in the intervening synclinoria (pers. comm. A.V. Brown).

Locally the Oonah Formation shows strong soft sediment (slump) deformation, particularly in the finer grained units. Sections along the EL 53/70 drill access roads show good exposure of this soft sediment deformation.

This type of deformation is contrary to that proposed by Brown (1980) who suggests the Oonah sediments have highly refolded isoclinal folds which have then been refolded by the large scale regional deformation producing the anticlinorial structures. A further deformation phase during the Devonian produced open folds in the Success Creek Group sediments. This was followed by regional block faulting and granite emplacement.

The dominant regional structure within EL 31/82 is the Huskisson Syncline which is reflected by the steeply-dipping Oonah and Success Creek successions. It has been suggested that the Success Creek sediments are east facing within the licence area (Brown, 1980).

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6. EXPLORATION CONCEPTS

6.1 Alluvial Cassiterite

Alluvial workings occur in Tertiary gravel deposits along the Stanley River. The main deposits were at the confluence of the Stanley River and Livingstone Creek.

The gravels by themselves are not considered commercially viable. However, they may be significant if economic lode tin/copper deposits were located in the region.

6.2 Lode Tin

Three primary cassiterite deposits are known in the Mt Lindsay-Stanley River area, viz. the Mt. Lindsay skarn and the Stanley Reward and Livingstone Creek gossanous deposits. These were worked by adits and/or shafts, reputedly to depths of up to 150m.

Tin grades within the lode outcrops (up to 10 m wide) tended to be sporadic with values up to 3.15% Sn. Geophysics and drilling indicate that the lodes extend to depths below the surface outcrops.

The Stanley Reward and Livingstone Creek gossans are probably related to skarn-type mineralisation associated with the contact of the Meredith Granite with the dolomitic units of the Success Creek sediments. The Mt Lindsay lode is similarly skarn-type mineralisation associated with the alteration of the Crimson Creek dolomitic units. These deposits are all close to the granite margins.

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More distal replacement-type tin deposits (similar to the Renison lode), if present, are more likely to occur in the dolomitic horizons of the Success Creek Group and basal Crimson Creek rocks within EL 31/82. These rocks (Renison Mine Sequence) extend for 2-3 km across the licence area and are between 1 and 4 km from known granite. Faults (potential channel ways) for mineralising fluid movement are common in the area.

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7. CURRENT EXPLORATION

7.1 Techniques

EL 31/82 was acquired to cover the continuation of the Success Creek dolomite sequence extending southeast from the Stanley Reward area (EL 53/70). A review of all previous exploration data showed only Renison had examined the extension of the Success Creek sediments. Renison's mapping and drainage anomalies were checked during CSR's initial regional drainage and mapping programme (Ellis, 1984).

During 1984-85 repeatable drainage anomalies (DRG. No. 7605-5) located in 1983-84 (Ellis, 1984) were closely sampled (50 m interval stream sediment samples and 250 m spaced panned concentrates) and the local geology was noted.

The only geologically significant anomaly was that area of Success Creek sediments investigated previously by Renison. The Renison data were checked by re-opening old Renison lines ML12 and ML17 and traversing with magnetics VLF-EM and soil geochemistry (Sn, W, As, Sb, Br, Cu, Pb, Zn, Ni, Bi, Li, F).

On confirmation of the Renison data on these lines, the whole of the Renison data for this anomalous zone was re-examined. A drill target was defined on Line ML 17 and tested by one inclined diamond drill hole to 449.8m.

7.2 Results

Follow-up drainage sampling (Appendix I) was concentrated in four areas (DRG. No. 7605-5). In the southwest of the Licence an anomalous Sn area was found to be related to high-level gravel deposits (fluvio-glacials) capping the Oonah Formation sediments. No further work is required in this area.

A weak Sn anomaly in the north of the Licence (original sample A161408) was found to be related to small tin-bearing quartz-tourmaline veins within the Meredith Granite. This type of tin deposit is generally low-grade and uneconomical. No further work is warranted.

The strong (up to 3950 ppm Sn) tin anomaly in the drainage to the north of News Creek was confirmed, but could not be followed further up the creek. A sample 120 metres from the mouth of the drainage (from the Stanley River) and all those samples higher up the drainage showed no anomalous values. No geological evidence was found to explain the anomaly. A possible geomorphological explanation for the anomaly could be the position of mouth of the drainage on a sharp corner in the Stanley River (known Sn-rich drainage) where, in times of flooding, water and sediment from the Stanley River probably backed up the drainage resulting in the deposition of tin. No further work is required in this area.

The only major area of anomalous drainage geochemistry is the headwaters of Salmon Creek where it drains the Success Creek Group sediments (upstream of the access road to the HEC roadmetal quarry). Anomalous values (up to 660 ppm Sn) were observed in two of these streams. This area has also been investigated by Renison (Mt. Lindsay Grid).

The Renison data were checked by ground magnetics, VLF-EM (Appendix II, DRG. Nos. 7605-7 and 7605-8) and soil geochemistry (Appendix III) on lines ML12 and ML17 (DRG. No. 7605-1). The CSR magnetics were identical with the Renison data while the soil geochemistry showed similar shaped profiles, but with the magnitude showing variability (as expected within geochemical ranges). VLF-EM confirmed the Renison magnetic/I.P. anomaly on line ML17.

A brief review of the Renison data (after confirmation by CSR) showed a strong I.P. and magnetic anomaly centred at 200mN on line ML17 (DRG. No. 7605-8). The magnetics showed a dual superimposed "high" with sources at 15 to 20 m and 90-100 m depths, while the I.P. survey showed a strong resistivity low/chargeability high. This portion of the line also had a high Cu, Ba, Sn, As and Zn level in the soil and a VLF-EM inclination (in phase) high and quadrative low. More interestingly, the superimposed magnetic and I.P. anomaly extends from line ML17 in the northwest to line ML12 in the southeast (DRG. No. 7605-9). Southeast of line ML12 the magnetics are displaced, possibly reflecting a fault. The anomaly tends to decrease in sharpness to the southeast.

A diamond drill hole DDH-ML1 was sited to test the strongest part of the magnetic/IP anomaly defined by Renison on line ML17. Collar co-ordinates were 425mN on ML17 with the hole being drilled at -50^{o} to grid south, to a total depth of 449.8m. The hole was targetted to intersect the magnetic anomaly at a hole depth of 350 m, about 100 m below the surface. Mainly hornfelsed greywackes with minor chert

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Standard No.	Samples	Sn	W	As	Sb	Ba	Cu	Pb	Zn	Ni	Bi	Li	F	Au	Ag	Hg	Fe	Mn
1	Quoted	<10	53	11	10	440	72	14	35	58	12							
	A184377A	12	35	14	10	270	85	18	34	60	10							
	A119764A	10	25	14	10	250	80	20	36	60	8							
5	Quoted			14			197	12	112		28							
	A184275A	4	x	10	x	50	60	6	70	14	16							
	A184380A	26	50	22	4	340	105	18	120	44	10			x	1	x	2.8%	550
6	Quoted			7	9		185	15	140		29							
	A184391A	12	85	12	6	340	180	22	120	50	26							
	A119709B	12	90	12	8	350	175	22	140	60	22							
7	Quoted			14	4		60	31	29		4							
	A184285A	10	15	20	4	250	65	22	28	20	14	30	0.05					
	A119729A	4	10	16	x	200	60	42	32	16	x							
8	Quoted			76.5	7.67													
	A184291A	6	x	80	x	270	12	6	40	12	24	20	0.03		2	x	24.1%	340
	A184431A	16	x	80	x	310	14	10	46	6	x			x				
9	Quoted	21.4																
	A184311A	24	x	4	10	x	3	4	2	6	4	x	x					
	A184397A	18	10	6	x	15	4	x	6	10	2							
	A119692A	20	x	3	x	20	6	6	x	x	x							
10	Quoted	36.8																
	A184322A	32	10	4	x	15	2	8	4	x	8	x	x					
11	Quoted	138																
	A184260A	130	x	6	2	20	48	50	60	34	18	10	0.02					
	A184422A	130	x	7	x	15	5	10	4	10	x							
12	Quoted	68																
	A184271A	70	x	4	x	20	80	36	55	66	26	20	0.02					
12A	Quoted	294																
	A119749A	310	15	9	10	x	14	36	20	10	x							
	A184359A	290	25	10	x	x	12	16	18	4	14	20	0.02					
	A119701A	300	20	10	4	x	8	28	12	12	x							
13	Quoted	505																
	A184333A	520	10	x	x	x	3	6	2	4	4	x	0.01					
	A119720A	490	x	x	x	x	4	4	x	x	x							
14	Quoted	995																
	A184343A	960	10	x	4	x	2	x	x	x	6	x	x					
	A119709A	960	x	x	x	20	6	x	x	x	x							
	A119769A	1000	x	x	x	10	4	x	x	6	x							
15	Quoted	2950																
	A184363A	2650	x	x	x	x	2	6	2	x	6	x	0.01					
16	Quoted	1.47%																
	A184376A	1.53%	30	6	x	10	5	4	2	10	6	x	0.01					
	A119720B	1.43%	30	6	x	15	4	x	x	x	x							
	A119750A	1.48%	25	10	x	10	6	4	2	x	x							

Analyses were by Comlabs by the following methods:

Sn, W, As, Sb, Bu	by XRF-1	Cu, Pb, Zn, Ni, Bi	by AAS-1	Li	by AAS-6
Ag	by AAS-3	F	by SIE3	Hg	by AA76
Fe, Mn	by AAS2	Au	by FAS2		

Values in ppm unless otherwise stated

x = below detection level

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horizons were intersected, but a 10 m thick carbonate horizon was intersected from 146 to 156 m. Part of this carbonate has been replaced by pyrrotite and minor chalcoyprite. Pyrrhotite, chalcoypite, pyrite and minor arsenopyrite have been observed as blebs and fine veins in other portions of the hole. Mineralised intervals will be sampled for analysis and petrology when the hole is logged in detail. The detailed drill logs, assays and evaluation of results will be included in a further report when this phase of work has been completed.

7.3 Quality Control

As a check on the precision of analytical work done by the custom laboratory, Comlabs, sixteen standard samples were submitted for analyses for a range of elements. In most cases replicate samples were submitted. Generally, the analyses were in close agreement with the quoted values (Table 1). The only discrepancy was with Standard 8 where the quoted Sb value is 7.67 ppm, but the value obtained was below detection. This discrepancy has not been explained.

8. FUTURE EXPLORATION

Currently, samples from the drill core are being prepared for analysis and petrological description. On receipt of the results of these analyses, the Renison data for line ML17 will be re-evaluated in the light of the drill hole information obtained (geochemical, petrological, stratigraphical, magnetic susceptibility and geology).

Future exploration strategies will then be determined after a further review of all the Renison data, and of the drilling results.

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9. REFERENCES

BROWN, A.V., 1980
Some aspects of the Geology of the Mt Lindsay-Dundas areas, Western Tasmania. Tas. Dept. of Mines Report No 1980/42 (unpub.)

ELLIS, P.D., 1984
Renewal Report - 1984, Exploration Licence No 31/82, Mt Lindsay, Tasmania. CSR Limited Report No EMR 45/84 (unpub.)

PDE/JL
MAY 1985

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APPENDIX I

REGIONAL DRAINAGE FOLLOW-UP SAMPLING EL 31/82

CSR Limited
Minerals Division

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Correspondence to: THE CHIEF GEOLOGIST BOX 483 GPO
SYDNEY NSW 2001. TELEPHONE (02) 237 5111

FIELD SAMPLE DESPATCH SHEET

13056

State TASMANIA Project MT. READSAY Prospect No. 605 Locality [illegible]

CSR Order No. 41554 Date Sampled [illegible] SEPTEMBER 84 Sampler PDE/MA/RW/[illegible]

Date Despatched 4TH NOVEMBER 84 Despatcher PDE Despatched per SKYROADS

Type of Sample STREAM SEDIMENT [illegible]

Lab. Name [illegible]

Sample Number Co-ordinates	From / To		Chemical Analyses (ppm or %)								Remarks
	E/W	N/S	Sn	W	As	Sb	Ba	Cu	Pb	Zn	Ni	Bi	
A186377	360000	5380190	6	5X	7	6	100	8	20	8	4	X	
A186377A	STANDARD	[illegible]	12	35	14	10	270	85	18	34	60	10	
A186378	360850	[illegible]	6	8X	6	2X	55	6	16	14	12	X	
A186379	360600	[illegible]	[illegible]		7	02	85	16	32	34	24	X	
A186381	360230	5380325	[illegible]		14	6	210	18	10	34	36	4	
A186382	360240	5380375	6	7X	10	8	90	12	18	16	16	X	
A186384	360250	5380230	6	7X	12	4	95	14	28	20	8	X	
A186386	360300	5380490	6	7X	6	10	85	10	14	18	14	X	
A186388	360190	5380655	[illegible]		24	4	165	20	18	28	26	X	
A186389	360395	[illegible]	[illegible]		14	X	135	14	16	26	16	X	
A186391	360440	[illegible]	[illegible]		10	X	85	12	14	22	12	X	
A186394H	STANDARD	[illegible]	[illegible]		12	6	340	180	22	120	50	26	
A186392	360235	5380570	6	7X	16	6	105	16	16	28	24	4	
A186393	360130	5380590	6	X	16	2	145	24	16	68	38	X	
A186396	360075	5380665	4	X	16	8	130	16	16	28	18	X	
A186395	359965	5380695	30	X	16	X	125	12	12	22	14	X	
A186396	359875	5380750	10	X	16	X	105	14	8	22	18	X	
A186397	359775	5380795	12	X	22	X	120	14	12	26	16	X	
A186397A	STANDARD	9	18	10	6	X	15	4	X	6	10	X	
A186399	354650	5380790	10	X	6	4	70	3	X	10	10	X	
A186401	354645	5380795	16	X	22	6	150	65	38	155	65	6	
A186402	359360	5380810	34	X	24	4	160	36	22	90	40	X	
A186403	359465	5380795	36	0X	28	6	230	40	22	75	50	4	
A186404	359575	5380825	X	7X	18	X	200	85	24	60	75	8	
A186405	359270	5380810	4	0X	12	X	250	85	32	100	60	14	
A186406	359195	5380780	6	X	30	X	520	100	42	100	100	18	
A186408	359115	5380760	14	X	12	4	240	14	40	100	55	12	
A186409	359045	5380800	65	X	10	4	130	32	16	80	55	11	
A186410	358970	5380865	6	0X	14	6	140	55	22	90	65	6	
A186412	359115	5380740	42	0X	14	X	190	60	22	85	48	4	
A186413	359100	5380680	14	0X	14	6	65	5	8	5	12	X	
A186414	359615	5380700	4	0X	4	X	60	13	15	15	15	13	
A186415	359555	5380605	10	X	7	X	70	2	10	65	4	X	
A186417	359480	5380545	8	X	6	4	50	X	6	5	X	X	
A186419	359440	5380545	X	0X	5	4	85	14	22	50	34	4	
A186420	359530	5380455	4	0X	14	4	25	12	24	16	20	6	
A186421	359585	5380330	16	0X	8	6	45	8	32	7	X	X	
A186422	359420	5380440	8	0X	6	4	105	4	10	8	8	X	
A186422A	STANDARD	20 * 11	130	0X	7	X	15	5	10	4	10	X	
A186402	359270	5380670	4	0X	7	X	60	4	8	4	6	4	

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Instructions to Analyst: SIEVE ALL SAMPLES (except standards) TO OBTAIN -20+80# & -80# fractions
ANALYSE ALL POWDERS & -20+80# fractions for Sn, W, As, Sb, Ba by XRF. ANALYSE ALL POWDERS & -80# fractions for Cu, Pb, Zn, Ni, Bi by AAS.

Results to: SEE FIELD SAMPLE DESPATCH SHEET 13052

IS[illegible]URSEMENT Pink — To Chief Geologist Sydney White — To Assay Lab with Order Green — Despatch with Samples

CSR Limited
Minerals Division 025

Correspondence to: THE CHIEF GEOLOGIST BOX 483 GPO
SYDNEY NSW 2001. TELEPHONE (02) 237 5111

FIELD SAMPLE DESPATCH SHEET

13058

State TASMANIA Project [redacted] Prospect No. 605 Locality [redacted]

CSR Order No. 415514 Date Sampled OCTOBER 1984 Sampler PDL/MR/RW/PS

Date Despatched 6TH NOVEMBER 1984 Despatcher PDL Despatched per SKYROADS

Type of Sample STREAM SEDIMENTS

Lab. Name COMLABS

Sample Number Co-ordinates	From E/W	To N/S	Chemical Analyses (ppm or %) Sn W	As	Sb	Ba	Cu	Pb	Zn	Ni	Bi	Remarks
A119692A	[redacted]	[redacted]	20 X	3	X	20	6	6	X	X	X	
A119693	358490	5380525	10 X	5	4	95	4	22	16	16	X	
A119694	358980	5380530	8 X	4	X	80	14	10	9	24	X	
A119695	359130	5380750	32 X	14	X	180	38	26	75	55	4	
A119696	359100	5380755	220 X	26	X	440	55	48	140	65	8	
X A119697	358510	5382570	1200 X	12	X	2	32	50	55	50	X	
X A119698	360670	5380480	9 X	10	X	85	60	28	130	40	8	
A119699	358680	5386675	9 X	5	X	40	15	15	15	15	15	
A119700	358880	5386720	12 X	[redacted]	X	110	X	10	6	X	X	
A119701	358915	[redacted]	[redacted] X	2	X	105	10	18	19	20	X	
A119701A	STHNS [redacted]	[redacted]	30 20	24	4	X	9	28	12	12	X	
A119702	358815	5386165	22 X	[redacted]	X	55	4	10	12	6	X	
A119703	358925	5385885	30 X	5	X	195	X	X	3	X	X	
A119704	358860	5385885	6 X	4	6	95	4	4	2	4	X	
A119705	358805	5385840	240 X	3	6	155	X	20	6	4	X	
A119706	358720	5385915	12 X	5	X	70	15	15	15	15	15	
AH9707	358655	5385500	145 X	6	X	45	2	18	10	10	X	
AH9708	358900	5385175	46 X	5	6	125	15	15	15	15	15	
A119709	358865	5385000	200 65	10	X	105	3	35	9	10	X	
A119709A	STHN [redacted]	ROAD 145	960 X	2	X	20	6	X	X	X	X	
A119709B	STHN [redacted]	ROAD 145	12 90	12	8	350	175	22	140	60	22	
A119710	358740	5384950	9 X	5	4	65	20	10	16	26	X	
A119711	358690	5384900	70 X	9	4	35	3	6	2	X	X	
A119712	357955	5379830	9 X	6	X	20	2	2	X	X	X	
A119713	357705	5379805	4 X	5	4	25	X	4	3	12	X	
A119714	357680	5379770	4 X	6	X	25	3	X	3	8	X	
A119715	357650	5379740	X X	5	4	25	X	X	2	8	X	
A119716	357615	5379720	12 X	6	4	35	3	X	2	X	X	
A119717	357570	5379700	100 X	4	X	30	X	X	X	X	X	
A119718	357505	5379650	22 X	7	4	75	7	4	5	18	X	
A119719	357615	5379810	9 X	5	X	25	X	X	2	X	X	
A119720	357680	5379840	10 X	5	X	35	3	4	X	12	X	
A119720A	[redacted]	[redacted]	490 X	X	X	X	4	4	X	X	X	
A119720B	[redacted]	[redacted]	[redacted] 30	6	X	15	4	X	X	X	X	
X A119721	357540	5379770	6 X	6	6	30	X	X	3	6	X	
A119722	357575	5379785	10 X	5	6	25	5	X	X	18	X	
X A119723	357580	5379825	4 X	5	4	40	7	X	X	X	X	
A119724	357720	5380010	4 X	3	X	20	2	X	2	17	X	
A119725	357760	5379980	10 X	4	X	25	2	6	4	X	X	
A119726	357780	5380045	4 X	4	4	25	2	4	X	4	X	

168026

Instructions to Analyst: SEE FIELD SAMPLE DESPATCH SHEET 13056

Results to: SEE FIELD SAMPLE DESPATCH SHEET 13052

DISTRIBUTION Pink — To Chief Geologist Sydney White — To Assay Lab with Order Green — Despatch with Samples
Yellow — Field Copy

CSR Limited
Minerals Division

026

Correspondence to: THE CHIEF GEOLOGIST BOX
SYDNEY NSW 2001. TELEPHONE (02) 237 5111

FIELD SAMPLE DESPATCH SHEET

13059

State TASMANIA Project [redacted] Prospect No. [redacted] Locality [redacted]

CSR Order No. 41554 Date Sampled [redacted] 1986 Sampler PDK / MR / RW / [redacted]

Date Despatched 4/11/86 Despatcher PDK Despatched per SKYROADS

Type of Sample STREAM SEDIMENT

Lab. Name COMLABS

Sample Number Co-ordinates	From E/W	To N/S	Chemical Analyses (ppm or %) Sn W	As Sb	Ba	Cu Pb	Zn Ni	Bi	Remarks
A11q727	357720	5380035	20 x	4 4	35	x 4	x x	x	
A11q728	357675	5380090	12 20	5 x	30	7 4	2 18	x	
A11q729	357620	5380145	6 x	5 4	20	2 4	x 10	x	
A11q729A	STANDARD	[redacted]	4 10	16 2	200	60 42	32 16	x	
A11q730	357560	5380130	[redacted]	2 4	20	5 4	3 x	x	
A11q731	359595	5380390	[redacted]	4 4	30	3 8	6 4	x	
A11q732	359605	5380385	[redacted]	7 6	20	6 8	12 14	x	
A11q733	359560	5380415	[redacted]	4 x	45	x 20	4 x	x	
A11q734	359525	5380470	[redacted]	4 x	30	70 48	70 90	12	
A11q735	359490	5380535	[redacted]	8 4	25	14 26	32 20	x	
A11q736	359465	5380630	[redacted]	22 4	25	36 10	50 36	18	
A11q737	359460	5380685	[redacted]	28 4	20	32 10	65 8	16	
A11q738	359425	5380650	[redacted]	24 8	15	65 12	120 30	20	
A11q739	359495	5380645	[redacted]	12 x	15	16 4	30 16	12	
A11q740	359575	5380620	[redacted]	22 x	25	70 18	140 32	30	
A11q741	359630	5380710	[redacted]	12 x	20	16 x	24 12	10	
A11q742	359400	5380815	195 x	9 x	20	20 4	32 16	12	
A11q743	359330	5380935	28 x	20 6	480	55 34	115 60	18	
A11q744	359240	5380865	105 x	22 8	620	60 30	115 70	16	
A11q745	359160	5380895	6 x	30 10	520	70 38	130 70	26	
A11q746	359050	5380980	28 x	50 8	790	65 34	125 70	24	
A11q747	359130	5380970	26 x	18 x	510	60 28	100 75	19	
A11q747A	[redacted]	12A	30 15	9 10	x	14 36	20 10	20	
A11q748	359955	5380995	175 x	14 x	135	36 20	90 50	14	
A11q749	359035	5380965	4 x	18 4	500	65 20	85 70	26	
A11q750	359035	5381125	80 x	12 x	110	34 16	135 100	16	
A11q750A	[redacted]	16	1.4% 15	10 x	10	6 4	2 x	x	
A11q751	359330	5380815	16 x	7 x	60	12 x	36 8	10	
A11q752	359205	5380785	135 x	5 x	30	7 4	22 8	6	
A11q753	359100	5380695	22 x	12 6	80	7 12	12 10	8	
A11q754	359040	5380790	60 15	4 x	15	16 10	34 20	8	
A11q755	359005	5380825	55 x	7 6	20	10 10	30 6	6	
A11q756	358955	5380860	180 x	5 6	20	9 6	12 14	8	
A11q757	358905	5380890	90 x	2 8	15	4 x	3 x	x	
A11q758	358855	5380925	48 x	5 6	15	14 6	7 16	8	
A11q759	358715	5380735	48 x	22 6	65	20 70	28 20	6	
A11q760	359110	5380755	100 x	x x	25	10 8	26 12	8	
A11q761	358775	5380865	18 x	4 6	20	x x	2 x	x	
A11q762	358585	5380105	70 10	5 x	85	5 x	7 12	6	
A11q763	358685	5380080	200 x	x 4	45	5 26	14 12	6	

168027

Instructions to Analyst: SEE FIELD SAMPLE DESPATCH SHEET 13056

Results to: SEE FIELD SAMPLE DESPATCH SHEET 13052

DISBURSEMENT Pink — To Chief Geologist Sydney White — To Assay Lab with Order Green — Despatch with Samples
Yellow Field Copy

CSR Limited
Minerals Division 027

Correspondence to THE CHIEF GEOLOGIST 60 SYDNEY NSW 2001. TELEPHONE (02) 237 5111

FIELD SAMPLE DESPATCH SHEET 13060

State TASMANIA Project [illegible] LINDSAY Prospect No. 605 Locality [illegible]

CSR Order No. 41554 Date Sampled OCTOBER 1984 Sampler PDE/MR/RW/[illegible]

Date Despatched 4/11/84 Despatcher PDE Despatched per SKYROADS

Type of Sample STREAM - SEDIMENT

Lab. Name COMLABS

Sample Number Co-ordinates	From E/W	To N/S	Sn	W	As	Sb	Ba	Cu	Pb	Zn	Ni	Bi	Remarks
A119764	358375	[illegible]	250	x	3	x	100	5	22	12	9	8	
A119764A	STANDARD	[illegible]	10	25	14	10	250	80	20	36	60	8	
A119765	358495	[illegible]	16	x	6	4	70	x	8	3	x	8	
A119767	358645	5385950	34	x	2	6	65	5	8	7	x	12	
A119768	358725	[illegible]	16	x	4	x	55	18	10	10	36	10	
A119766	358640	[illegible]	[illegible]	x	[illegible]	x	105	30	10	14	48	10	
A119769	358790	[illegible]	[illegible]	[illegible]	[illegible]	x	95	4	6	4	4	[illegible]	
A119769A	STANDARD	[illegible]	100	x	x	x	10	4	x	x	6	x	
A119770	358735	5385625	115	x	6	9	55	9	19	7	6	10	
A119771	358750	[illegible]	[illegible]	[illegible]	[illegible]	x	20	5	12	5	4	10	~~A184424~~
A184424	358510	5383570	[illegible]	[illegible]	9	x	75	3	50	9	9	14	A184424
A184425	358575	[illegible]	[illegible]	10	18	x	65	6	90	12	8	10	425
A184426	358675	[illegible]	26	15	[illegible]	x	45	6	60	9	12	8	426
A184427	358795	5383380	[illegible]	30	17	x	50	2	50	7	4	6	427
A184428	358830	5383330	4	10	12	4	60	36	22	28	60	8	428
A184430	358905	5383220	9	20	6	x	~~25~~	9	85	28	22	12	430

168028

Instructions to Analyst: SEE FIELD SAMPLE DESPATCH SHEET 13056 FOR SAMPLE PREPARATION AND ANALYSES AFTER DRYING THE SAMPLES (except powders)

Results to: SEE FIELD SAMPLE DESPATCH SHEET 13052

DISBURSEMENT Pink — To Chief Geologist Sydney White — To Assay Lab with Order Green — Despatch with Samples Yellow — Field Copy

CSR Limited
Minerals Division

U28

Correspondence to: THE CHIEF GEOLOGIST BOX 483 G P O
SYDNEY NSW 2001. TELEPHONE (02) 237 5111

FIELD SAMPLE DESPATCH SHEET

13063

State TASMANIA Project MT LINDSAY Prospect No. 605 Locality PIT AREA

CSR Order No. 41554 Date Sampled OCTOBER 84 Sampler PDF/MR/RW/PL

Date Despatched 4/11/84 Despatcher PDF Despatched per SKYROAD

Type of Sample PANNED CONCENTRATE

Lab. Name COMLABS

Sample Number Co-ordinates	From E/W	To N/S	Chemical Analyses (ppm or %) wt	Sn	W	As	Sb	Ba	Au	Cu	Pb	Zn	Ni	Bi	Ag	Hg	Fe	Mn
A184380	360230	5380325	479.2	1600	X	16	4	210	X	20	12	50	6	X	X	X	6.05	115
A184380A	<STANDARD 5		30.2	26	50	22	4	340	X	105	18	120	44	10	1	X	2.80	550
A184382	360245	5380325	712.0	30	X	9	X	45	X	14	14	22	4	X	X	X	4.00	120
A184385	360300	5380490	512.0	16	10	5	8	40	X	12	8	20	6	X	X	X	1.40	65
A184387	360290	5380505	457.6	65	X	14	6	60	X	16	14	38	8	X	X	X	1.94	240
A184390	360490	5380440	549.5	55	X	10	4	60	X	12	10	24	8	X	X	X	1.34	155
A184398	359650	5380790	241.1	75	X	5	4	30	X	6	12	24	X	X	X	X	1.29	420
A184400	359645	5380795	93.9	1950	X	22	8	210	X	55	20	80	36	X	X	X	5.60	1200
A184407	359115	5380760	255.1	360	X	26	8	550	X	60	20	95	65	X	1	X	7.85	1150
A184411	359125	5380740	93.2	3550	X	X	6	65	X	22	8	70	18	X	X	X	4.75	280
A184416	359480	5380605	376.8	26	X	9	8	35	X	5	14	20	4	X	X	X	1.23	310
A184419	359490	5380545	315.0	12	X	4	X	35	X	4	6	12	X	X	X	X	0.38	48
A184403	359510	5383570	193.9	7700	250	X	6	10	X	3	18	24	X	X	X	X	0.25	60
A184431	358905	5383220	101.2	220	220	12	8	X	X	4	22	14	X	X	X	X	0.28	55
A184431A	STANDARD 8		41.1	16	X	80	X	310	X	16	10	46	6	X	2	X	24.1	340

Remarks

168029

Instructions to Analyst: DRY SAMPLES (except 2 powders) PULVERISE ALL SAMPLES (after weighing)
ANALYSE ALL SAMPLES for Cu, Pb, Zn, Ni, Bi by AAS 1; Sn, W, As, Sb, Ba by XRF 1, Hg by AAS 7
Fe, Mn by AAS 2, Ag by AAS 3, Au by AAS 5 with carbon rod to 5ppb

Results to: SEE FIELD SAMPLE DESPATCH SHEET 12052

DISBURSEMENT Pink — To Chief Geologist Sydney White — To Assay Lab with Order Green — Despatch with Samples
Yellow Field Copy

029

168030

APPENDIX II

MAGNETIC AND VLF-EM DATA FROM LINES ML12 AND ML17,

EL 31/82

030

168031

ML12

STATION	MAGNETIC READINGS	IN PHASE VLF-EM	QUADDRATIVE VLF-EM
BASE	62633		
200S	62105		
175S	62156		
150S	62119		
125S	62092		
100S	62092		
75S	62908		
50S	62116		
25S	62136		
0	62138		
25N	62060		
50N	61939		
75N	61688		
100N	61641		
125N	63429		
150N	62576		
175N	63681		
200N	63155		
225N	62208		
250N	61868		
275N	62018		
300N	61324		
325N	60896		
350N	60511		
375B	62400		
400N	64342		
425N	63269		
450N	61462		
475N	62937		
500N	62287		
525N	63782		
550N	63810		
575N	64660		
600N	63980		
625N	62852		
650N	62802		

STATION	MAGNETIC READINGS	IN PHASE VLF-EM	QUADDRATIVE VLF-EM
675N	61983		
700N	58339		
725N	59123		
750N	62232		
775N	63405		
800N	64137		
825N	64294		
850N	64800		
875N	66364		
900N	64878		
925N	63639		
950N	62956		
975N	62903		
1000N	62137		
1025N	62073		
1050N	63495		
1075N	63862		
1100N	63696		
1125N	59955		
BASE	62633		
225S	62196	-30	-2
250S	62250	-45	-10
275S	62271	-35	-1
300S	63327	-60	3
325S	62774	-50	15
350S	62468	-48	-8
375S	62341	-25	11
400S	62200	-5	6
425S	62042	-25	7
450S	62044	-5	17
475S	62058	-65	1
500S	62072	-120	3
525S	62080	-55	-31
550S	62096	-75	-26
575S	62106	-80	-27
600S	62100	-115	-16
BASE	62633		

ML17

STATION	MAGNETIC READING	IN PHASE VLF-EM	QUADRATURE VLF-EM
BASE			
500S	62200	+15	-20
475S	62173	-65	+43
450S	62175	-75	32
425S	62169	-75	23
400S	61989	-35	33
375S	61930	-5	15
350S	61826	5	-16
325S	61657	10	-16
300S	61440	25	-20
275S	61256	45	-26
250S	62395	-80	-24
225S	61642	45	-13
200S	64796	-20	8
175S	63506	5	33
150S	62725	30	39
125S	62482	35	37
100S	62868	30	17
75S	62713	70	24
50S	62584	45	-29
25S	62394	15	-31
0	62871	25	-24
25N	62583	15	-38
50N	62316	75	-16
75N	62466	90	-26
100N	62622	140	-16
125N	62763	150	-31
150N	62927	130	-26
175N	63073	400	-36
200N	64490	400	-16
225N	63939	400	-17
BASE	62634	-	-
250N	62939	150	-16

ML17 Cont.

STATION	MAGNETIC READINGS	IN PHASE VLF-EM	QUADDRATIVE VLF-EM
275N	62667	150	-19
300N	62442	500	-19
325N	62226	90	-15
BASE	62634	-	-
350N	62017	80	-17
375N	67895	75	20
400N	61907	65	15
425N	63432	110	10
450N	63017	110	3
475N	62607	120	0
500N	62001	90	-3
525N	61939	120	2
550N	62687	110	5
575N	63917	120	-6
600N	63333	120	-1
625N	63358	100	-17
650N	63071	90	-29
675N	62555	-300	-41
700N	62646	40	-20
725N	62549	55	-21
750N	62339	075	-32
BASE	62634	-	-
525S	62196	-65	-3
550S	62236	-128	+3
575S	62228	-90	-4
600S	62246	-75	0
BASE	62634	-	-

034

168035

APPENDIX III

SOIL GEOCHEMISTRY FOR LINES ML12 AND ML17

EL 31/82

CSR Limited
Minerals Division

Correspondence to: THE CHIEF GEOLOGIST BOX 483 GPO
SYDNEY NSW 2001. TELEPHONE (02) 237 5111

FIELD SAMPLE DESPATCH SHEET

13052

State TASMANIA Project MT LINDSAY Prospect No. 605 Locality

CSR Order No. 41954 Date Sampled JULY 1984 Sampler PDE / M.R / R.W

Date Despatched 4/11/84 Despatcher PDE Despatched per SKYROADS

Type of Sample SOIL -80# fractions

Lab. Name COMLABS

Sample Number Co-ordinates	From E/W	To N/S	Chemical Analyses (ppm or %) Sn	W	As	Sb	Be	Cu	Pb	Zn	Ni	Bi	Li	F	Remarks
A184250A	359[illegible]	5380[illegible]	6	x	30	6	350	175	24	120	48	36	30	0.15	~~ML 12~~
A184 251	359861	5380[illegible]	4	x	4	4	60	x	14	x	6	8	x	0.03	ML 12 / 25N
A184 252	359871	5380896	14	x	8	4	40	2	8	x	4	6	x	0.02	50N
A184 253	359882	5380618	10	x	12	x	65	60	36	42	38	24	30	0.02	75N
A184 254	359897	5380640	60	x	6	4	40	2	8	x	x	8	10	0.02	100N
A184255	359902	5380662	6	20	9	4	100	8	20	10	8	8	10	0.03	125N
A184256	359913	5380684	14	x	12	x	105	22	38	14	16	12	20	0.05	150N
A184257	359923	5380706	6	x	2	4	30	14	26	20	6	12	x	0.05	175N
A184258	359934	5380729	60	x	10	4	35	4	42	6	6	6	x	0.03	200N
A184259	359944	5380751	10	x	34	x	145	55	50	50	36	16	x	0.02	225N
A184260	359955	5380773	[illegible]	x	12	x	65	45	50	55	46	22	20	0.04	250N
A184260A	[illegible]	[illegible]	180	x	6	x	20	45	50	60	34	18	10	0.02	
A184261	359965	5380795	4	x	32	x	85	65	48	65	65	20	10	0.02	275N
A184262	359976	5380817	4	x	30	6	65	60	44	36	28	26	40	0.03	300N
A184263	359986	5380839	x	x	24	4	35	60	38	34	34	22	20	0.02	325N
A184264	359997	5380861	6	x	24	x	60	70	42	60	48	24	20	0.02	350N
A184265	360007	5380884	4	x	18	x	25	100	48	70	65	22	40	0.02	375N
A184266	360017	5380906	x	x	20	4	50	75	38	60	55	22	20	0.02	~~400N~~
A184267	360028	5380928	4	x	16	8	45	85	38	55	44	28	30	0.03	425N
A184265	360038	5380950	10	x	9	x	40	95	40	85	60	26	20	0.03	450N
A184269	360049	5380972	x	x	14	6	40	85	40	75	55	24	30	0.03	475N
A184270	360059	5380994	4	x	14	x	30	85	38	60	46	28	30	0.02	500N
A184271	360069	5381016	4	x	14	8	35	85	38	55	40	28	20	0.02	525N
A184271A	[illegible]	[illegible]	70	x	4	x	20	80	36	55	46	26	20	0.02	
A184272	360080	5381039	8	x	20	x	60	110	44	75	48	24	30	0.02	550N
A184273	360090	5381061	6	x	16	8	45	100	50	75	30	24	20	0.02	575N
A184274	360101	5381083	6	x	16	x	65	115	55	90	30	22	20	0.06	600N
A184275	360111	5381105	10	40	18	x	460	65	60	70	12	18	20	0.05	625N
A184275A	[illegible]	[illegible]	4	x	10	x	50	60	60	70	14	16	10	0.03	~~650N~~
A184276	360121	5381127	x	x	14	4	40	80	50	75	8	22	10	0.02	650N ~~675N~~
A184277	360132	5381149	8	x	18	x	30	50	16	38	6	22	10	0.02	675N ~~700N~~
A184278	360142	5381171	x	x	16	x	40	95	14	55	40	22	10	0.03	700N ~~725N~~
A184279	360153	5381194	6	x	18	4	30	75	12	28	36	26	10	0.02	725N ~~750N~~
A184280	360163	5381216	12	x	14	x	10	65	14	32	30	24	x	0.03	750N ~~775N~~
A184281	360174	5381238	8	x	12	6	35	60	6	36	26	24	x	0.02	775N ~~800N~~
A184282	360184	5381260	8	x	16	6	50	90	12	60	44	18	20	0.03	800N ~~825N~~
A184283	360194	5381282	8	10	16	x	30	65	8	38	26	20	20	0.02	825N
A184284	360205	5381304	16	x	22	x	35	15	15	15	15	15	20	0.02	850N
A184285	360215	5381326	18	15	34	x	30	110	12	42	40	28	10	0.02	875N
A184285A	[illegible]	[illegible]	70	15	20	4	250	65	22	28	20	14	30	0.05	

Instructions to Analyst: PULVERISE & ALEA SAMPLES (and fractions)

ANALYSE ALL POWDERS @ -20+80# fractions for Sn, W, As, Sb, Be by XRF 1. ANALYSE ALL POWDERS @ -80# fraction for Cu, Pb, Zn, Ni, Bi by AAS1. ANALYSE ALL POWDERS @ COMBINED -20+80# & -80# fractions for [illegible]. Li by AAS 6. F by ISE 3

Send Results to: CSR Ltd MMC Division, GPO Box 483, SYDNEY, NSW 2001. RESULTS & PLANS TO CSR 35 Coal Research Highway Lindfield

DISBURSEMENT Pink — To Chief Geologist Sydney White — To Assay Lab with Order Green — Despatch with Samples

CSR Limited
Minerals Division

036

Correspondence to: THE CHIEF GEOLOGIST BOX 483 GPO
SYDNEY NSW 2001. TELEPHONE (02) 237 5111

FIELD SAMPLE DESPATCH SHEET

13053

State TASMANIA Project MT LYELL Prospect No. 605 Locality [illegible]

CSR Order No. 41554 Date Sampled July 1984 Sampler PDE/MR/RW

Date Despatched 5/11/84 Despatcher PDE Despatched per SKYROADS

Type of Sample SOIL -20+80# & -80# fractions

Lab. Name COMLABS

Sample Number Co-ordinates	From E/W	To N/S	Chemical Analyses (ppm or %) Sn W	As	Sb	Ba	Cu	Pb	Zn	Ni	Bi	Li	F	Remarks
A184286	360226	5381349	8 20	36	4	40	140	20	46	60	24	20	0.02	ML12/900N
A184287	360236	5381378	16 15	24	x	35	110	16	55	38	20	20	0.02	925N
A184288	360247	5381393	16 20	18	6	20	90	14	36	36	26	20	0.02	950N
A184289	360257	5381415	18 10	24	x	35	110	12	48	36	24	20	0.02	975N
A184290	360267	5381437	20 60	42	4	40	120	10	48	60	26	20	0.02	1000N
A184291	360278	5381459	16 x	18	6	30	55	14	55	42	14	20	0.02	1025N
A184291A	[illegible]	[illegible]	6 x	80	x	270	12	6	40	12	28	20	0.03	
A184292	360288	5381481	10 x	22	4	30	46	4	42	30	14	20	0.03	1050N
A184293	360299	5381504	10 x	30	x	30	50	6	40	22	16	20	0.02	1075N
A184294	360309	5381526	10 x	28	x	25	46	12	38	14	18	20	0.02	1100N
A184295	360320	5381548	15 15	15	15	15	15	15	15	15	15	10	15	
A184296	360330	5381570	40 x	100	4	10	26	12	32	x	14	20	0.02	1125N
A180297	359850	5380551	6 x	12	x	170	9	14	4	6	8	20	0.02	ML12/0
A184295	359880	5380539	6 x	5	x	70	x	4	x	4	8	10	0.02	25S
A184299	359879	5380507	4 x	7	x	60	2	4	x	x	12	x	0.04	50S
A184300	359819	5380485	4 10	8	4	90	4	8	2	6	12	x	0.04	75S
A184301	359809	5380463	8 x	8	6	85	2	14	5	x	10	10	0.03	100S
A184302	359798	5380441	6 10	8	x	100	5	10	6	6	6	x	0.02	125S
A184303	359785	5380419	6 x	10	4	75	7	14	4	4	12	20	0.02	150S
A184304	359777	5380396	6 x	8	4	45	12	10	24	8	16	40	0.04	175S
A184305	359767	5380374	x x	8	12	120	10	14	5	x	8	20	0.04	200S
A184306	359756	5380352	16 x	14	18	105	12	14	8	6	12	20	0.03	225S
A184307	359746	5380330	6 x	6	16	90	2	8	4	10	8	10	0.04	250S
A184308	359736	5380308	16 x	18	8	260	5	6	5	x	14	10	0.06	275S
A184309	359725	5380286	200 x	6	14	105	6	18	x	x	4	10	0.04	300S
A184310	359715	5380264	x x	38	16	110	70	26	14	26	10	20	0.05	325S
A184311	359704	5380241	6 x	6	6	35	6	12	8	8	6	10	0.02	350S
A184311A	[illegible]	[illegible]	24 x	4	10	x	3	4	2	6	4	x	x	
A184312	359694	5380219	10 x	5	4	30	4	6	3	x	6	10	0.01	375S
A184313	359683	5380197	4 x	6	x	35	4	32	4	x	6	10	0.01	400S
A184314	359673	5380175	4 x	6	x	20	5	10	5	8	6	10	0.02	425S
A184315	359663	5380153	4 x	6	6	50	2	8	5	4	4	10	0.04	450S
A184316	359652	5380131	8 x	8	4	100	14	14	14	8	8	20	0.05	475S
A184317	359642	5380109	12 x	6	6	80	x	10	x	x	10	10	0.04	500S
A184318	359631	5380086	8 x	7	4	90	2	12	x	6	6	10	0.04	525S
A184319	359621	5380064	10 x	7	4	100	5	14	6	x	10	30	0.04	550S
A184320	359610	5380042	4 x	5	4	30	3	4	x	6	6	x	0.01	575S
A184321	359600	5380020	6 x	6	x	10	3	6	3	x	4	x	0.01	600S
A184322	359026	5381183	10 x	20	x	100	60	20	36	34	20	20	0.01	ML17/25S
A184322A	[illegible]	[illegible]	32 10	4	x	15	2	8	4	x	8	x	x	

Instructions to Analyst: SEE FIELD SAMPLE DESPATCH SHEET 13052

Results to:

REQUISITION Pink — To Chief Geologist Sydney White — To Assay Lab with Order Green — Despatch with Samples
Yellow — Field Copy

CSR Limited
Minerals Division

Correspondence to: THE CHIEF GEOLOGIST BOX 483 GPO SYDNEY NSW 2001. TELEPHONE (02) 237 5111

FIELD SAMPLE DESPATCH SHEET

13054

State TASMANIA Project MT LINDSAY Prospect No. 605 Locality

CSR Order No. 41554 Date Sampled JULY 1984 Sampler PDF/MR/RW

Date Despatched 4/8/84 Despatcher PDF Despatched per SKYROADS

Type of Sample SOIL -80 mesh - 20+80 mesh fractions

Lab. Name COMLABS

Sample Number Co-ordinates	From E/W	To N/S	Chemical Analyses (ppm or %) Sn	W	As	Sb	Ba	Cu	Pb	Zn	Ni	Bi	Li	F	Remarks
A184323	359014	5381161	[illegible]		14	x	210	42	16	26	24	16	10	0.01	ML17/ 505
A184324	359003	5381139	10		16	4	210	60	20	44	46	24	30	0.03	755
A184325	358992	5381116	6		24	x	90	120	34	38	30	18	10	0.02	1005
A184326	358981	5381094	[illegible]		16	6	670	50	18	38	36	22	30	0.02	1255
A184327	358970	5381072	[illegible]		26	8	300	60	22	62	40	20	20	0.03	1505
A184328	358959	5381049	8	x	115	8	150	36	30	22	22	14	30	0.02	1755
A184329	358948	5381027	4	x	14	x	30	68	20	38	26	20	20	0.02	2005
A184330	358937	5381005	8	x	16	x	40	60	22	50	36	16	20	0.03	2255
A184331	358926	5380982	4	x	7	x	10	4	x	16	6	8	10	0.01	2505
A184332	358914	5380960	[illegible]		[illegible]	x	70	38	20	26	32	20	10	0.03	2755
A184333	358903	5380938	[illegible]		8	x	40	16	8	22	14	14	10	0.03	3005
A184333A	STANDARD 13		520	30	x	6	x	3	6	2	4	4	x	0.01	
A184334	358892	[illegible]	260	x	5	x	55	26	16	30	14	12	10	0.03	3255
A184335	358881	[illegible]	12	x	4	4	35	2	4	4	x	6	15	0.04	3505
A184336	358870	[illegible]	x	10	7	4	50	4	x	4	6	6	10	0.02	3755
A184337	358859	[illegible]	4	x	7	x	95	x	4	5	4	8	10	0.02	4005
A184338	358848	[illegible]	6	x	12	6	65	2	4	3	6	6	15	0.02	4255
A184339	358837	[illegible]	16	x	16	6	250	28	26	60	14	16	35	0.05	4505
A184340	358826	[illegible]	[illegible]		6	6	70	6	10	12	8	10	10	0.02	4755
A184341	358814	[illegible]	8	x	5	8	35	5	16	5	x	8	10	0.02	5005
A184342	358803	[illegible]	8	x	5	4	60	40	6	3	10	8	x	0.02	5255
A184343	358792	[illegible]	8	x	6	x	95	x	4	x	x	12	x	0.04	5505
A184343A	STANDARD 3/84		960	10	x	4	x	2	x	x	x	6	x	x	
A184344	358781	[illegible]	4	x	4	x	50	4	6	x	6	4	x	0.02	5755
A184345	358770	[illegible]	x	x	4	x	50	x	x	2	x	4	10	0.01	6005
A184346	359037	[illegible]	12	x	22	x	45	55	20	32	28	18	10	0.02	ML17/ 0
A184347	359048	[illegible]	12	x	24	x	65	60	20	44	36	26	15	0.02	25N
A184348	359059	[illegible]	8	x	16	8	35	65	24	62	34	24	10	0.02	50N
A184349	359070	[illegible]	8	x	6	4	30	3	6	5	8	4	10	0.02	75N
A184350	359081	[illegible]	4	x	16	x	50	80	22	46	50	26	15	0.02	100N
A184351	359092	[illegible]	x	x	16	x	35	75	20	48	38	24	10	0.01	125N
A184352	359103	[illegible]	4	x	16	x	40	55	18	40	24	20	20	0.02	150N
A184353	359114	[illegible]	10	x	12	x	70	50	14	44	30	22	20	0.02	175N
A184354	359125	[illegible]	12	x	130	8	145	55	38	28	36	24	25	0.03	200N
A184355	359137	[illegible]	36	x	8	x	70	5	18	2	10	12	10	0.04	225N
A184356	359148	[illegible]	10	x	14	x	65	50	18	32	20	20	20	0.02	250N
A184357	359159	[illegible]	x	x	14	x	60	75	22	110	55	24	35	0.03	275N
A184358	359170	[illegible]	6	x	14	10	20	90	22	50	50	24	25	0.02	300N
A184359	359181	[illegible]	x	x	14	8	30	90	16	60	48	24	20	0.02	325N
A184359A	STANDARD 12A		290	25	10	x	x	12	16	18	6	14	20	0.02	

Instructions to Analyst: SEE FIELD SAMPLE DESPATCH SHEET 13052

Results to:

DISTRIBUTION Pink — To Chief Geologist Sydney White — To Assay Lab with Order Green — Despatch with Samples
Yellow — Field Copy

CSR Limited
Minerals Division

Correspondence to: THE CHIEF GEOLOGIST BOX 483 GPO SYDNEY NSW 2001. TELEPHONE (02) 237 5111

FIELD SAMPLE DESPATCH SHEET 13055

State: TASMANIA Project: MT LINDSAY Prospect No.: 605 Locality: [illegible]

CSR Order No.: 41554 Date Sampled: JUNE 1984 Sampler: PDE / MR JAW

Date Despatched: 11/4/80 Despatcher: PDE Despatched per: SKYROADS

Type of Sample: SOIL – [illegible] -20 +80# fraction

Lab. Name: COMLABS

Sample Number Co-ordinates	From E/W	To N/S	Sn	W	As	Sb	Ba	Cu	Pb	Zn	Ni	Bi	Li	F	Remarks
A184360	359192	5381518	8	x	14	x	45	80	26	40	46	22	25	0.03	ML17/ 350N
A184361	359203	5381540	20	x	12	x	45	75	22	48	50	30	30	0.03	375N
A184362	359214	5381563	86	x	12	4	45	75	24	50	36	22	30	0.03	400N
A184363	359226	5381585	10	x	16	x	75	85	24	60	40	22	30	0.03	425N
A184363A	STAN[illegible]	[illegible] 15	260	x	x	x	x	2	6	2	x	6	x	0.01	
A184364	359237	5381607	6	x	14	6	50	95	20	50	42	22	20	0.02	450N
A184365	359248	5381630	4	x	10	x	30	65	24	55	32	22	25	0.02	475N
A184366	359259	5381652	6	x	12	4	50	75	26	75	46	18	25	0.02	500N
A184367	359270	5381674	6	x	10	x	35	85	28	75	46	22	25	0.02	525N
A184368	359281	5381696	x	x	16	4	65	110	28	65	60	22	30	0.03	550N
A184369	359292	5381719	[illegible]	x	16	x	30	100	20	60	40	24	25	0.02	575N
A184370	359303	5381741	[illegible]	x	16	6	65	95	19	60	28	22	25	0.02	600N
A184371	359314	5381763	16	x	16	x	55	105	22	60	40	24	25	0.03	625N
A184372	359326	5381786	10	x	14	x	45	95	20	55	26	26	25	0.02	650N
A184373	359337	5381808	8	10	12	x	45	90	22	60	32	20	25	0.02	675N
A184374	359348	5381830	12	x	12	x	50	110	18	70	50	22	30	0.03	700N
A184375	359359	5381853	10	x	14	4	85	85	19	55	27	26	30	0.02	725N
A184376	359370	5381875	22	x	16	10	40	80	20	55	46	18	30	0.03	750N
A184376A	STANDARD	[illegible]	153	70	6	x	10	5	4	2	10	6	x	0.01	

Instructions to Analyst: SEE FIELD SAMPLE DESPATCH SHEET 13052

Results to: DESPATCHER

DISBURSEMENT Pink — To Chief Geologist Sydney White — To Assay Lab with Order Green — Despatch with Samples
Yellow Field Copy

E.L. 3/82 INDUSTRIAL MINING & INVESTIGATIONS

E.L. 17/77 RENISON

359 000 m E

360 000 m E

382 000 m E

5 386 000 m N

5 384 000 m N

5 382 000 m N

5 380 000 m N

Dg1

Dg2

Dgm

Qra

Qg

Qs

STANLEY RIVER

Dgm dyke

Dgm dyke

Creek

News

Salmon

Creek

To Lower Pieman Dam

To Tullah

RENISON-STANLEY R. WALKING TRACK

RENISON-STANLEY R. TRACK

RENISON-STANLEY RIVER WALKING TRACK

H.E.C. QUARRY

DDH ML1

ML 20

ML 19

ML 18

ML 17

ML 16

ML 15

ML 14

ML 13

ML 12

ML 11

ML 10

ML 9

ML 8

ML 7

ML 14·5

ML 13·5

ML 12·5

ML 11·5

ML 10·5

ML 9·5

ML 8·5

ML 57

P.L. R. RUDDLE

P.L. J.A. SMYTHE

P.L. G. BRAMPTON

P.L. T. BRAMPTON

MT. LINDSAY

E.L. 53/70 CSR

E.L. 31/82 CSR

E.L. 30/79 CRAE

E.L. 2/63 ABERFOYLE

F

?F

REFERENCE

- Watercourse
- Road, track
- E.L. boundary
- Dyke
- Geological boundary
- Trend of bedding
- F — Fault
- Gossan

QUATERNARY	Qs	Swamp
	Qra	Alluvials
	Qg	Gravel
CAMBRIAN		SUCCESS CREEK GROUP
	€cl	Lower chert
	€s	Siltstones
	€cu	Upper chert
	€m	Fine clastic sediments, some tuffs
		CRIMSON CREEK FORMATION
	€g	Mainly tuffs, some Fine clastic sediments
	€	Undifferentiated
	€h	Hornfels
PROTEROZOIC		OONAH FORMATION
	Pq	Massive quartzite
	Ps	Siltstones
	Psh	Shales, often graphitic and slumped
	Pm	Mudstones, siltstones
		IGNEOUS ROCKS
DEVONIAN	Dg1	Coarse - very coarse adamellite
	Dg2	Quartz porphyry and fine grained porphyritic granite (Qtz - fm alteration)
	Dgm	Micro granite
CAMBRIAN	€u	Ultramafic

Drill hole

Renison grid lines

5 cm

0 500 1000 m

CSR LIMITED - AMCD

E.L.31/82 MT. LINDSAY, TASMANIA

RENISON PHOTOGEOLOGY

168040 001

SCALE : 1:10,000	DRG. No. 7605-1
DRAWN : P.D.E. / P.R.	
DATE : May '84	
REVISED : May '85	

85-2398

E.L. 3/84 INDUSTRIAL MINING & INVESTIGATIONS

E.L. 17/77 RENISON

E.L. 2/63 ABERFOYLE

E.L. 53/70 CSR

E.L. 31/82 CSR

E.L. 30/79 CRAE

P.L. R. RUDDLE

P.L. J.A. SMYTHE

P.L. G. BRAMPTON

P.L. T. BRAMPTON

MT. LINDSAY

STANLEY RIVER

News Creek

Salmon Creek

To Lower Pieman Dam

To Tullah

382 000 m E

384 000 m E

386 000 m E

5 386 000 m N

5 384 000 m N

5 382 000 m N

5 380 000 m N

5 378 000 m N

0 500 1000 m

5 cm

REFERENCE

Watercourse

Road / track

E.L. boundary

161401 Geochemical sample location and number (note all numbers prefixed with an A)

(161552) Bracket indicates resample of anomaly

CSR LIMITED-AMCD

E.L.31/82 MT. LINDSAY, TASMANIA

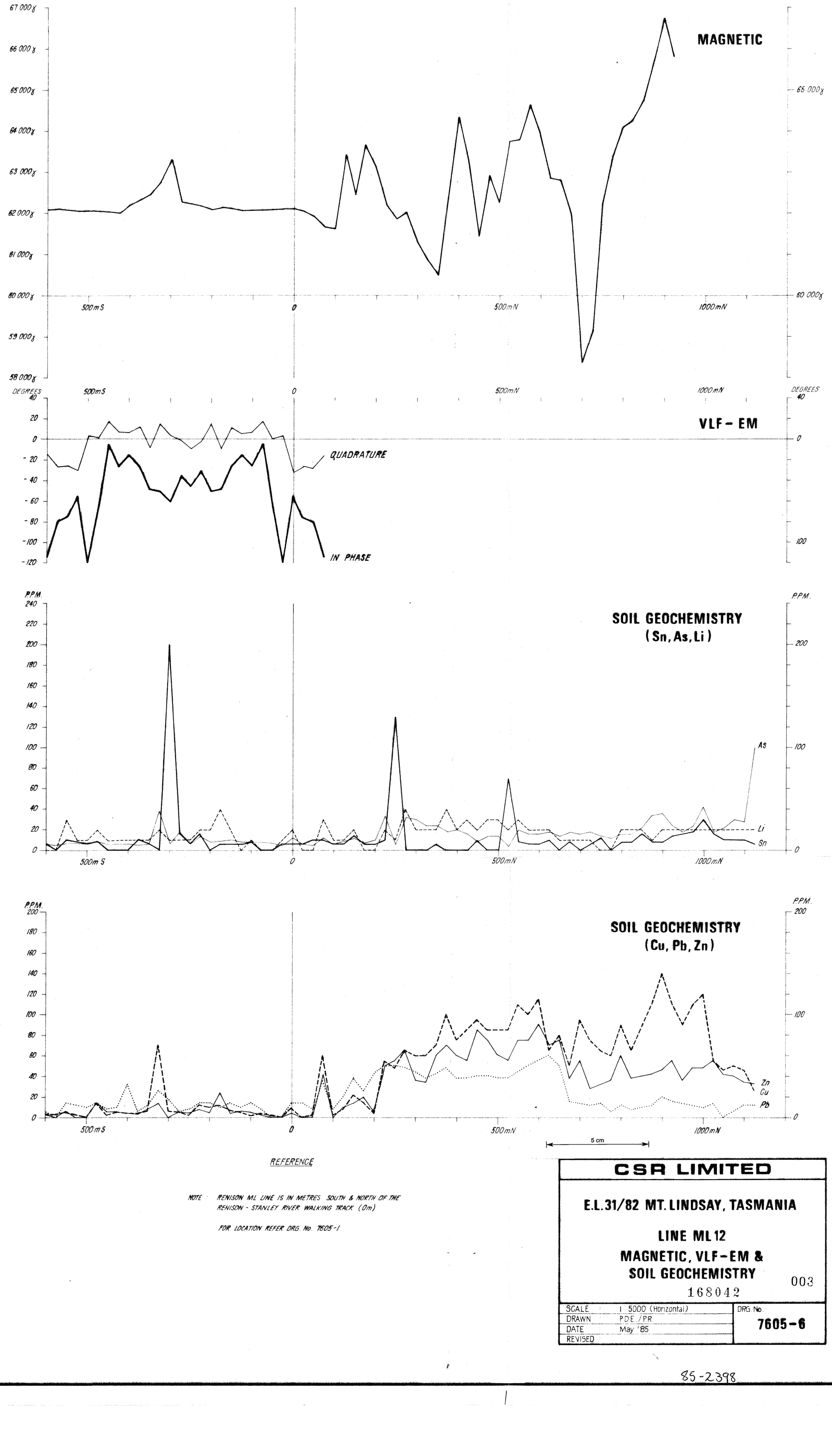
GEOCHEMISTRY

SAMPLE LOCATION PLAN

168041 002

SCALE	1:10,000	DRG. No.	7605-5
DRAWN	P.D.E. / P.R.		
DATE	May '84		
REVISED	May '85		

85-2398



REFERENCE

NOTE : RENISON ML LINE IS IN METRES SOUTH & NORTH OF THE RENISON - STANLEY RIVER WALKING TRACK (0m)

FOR LOCATION REFER DRG. No. 7605-1

CSR LIMITED

E.L.31/82 MT. LINDSAY, TASMANIA

LINE ML 12

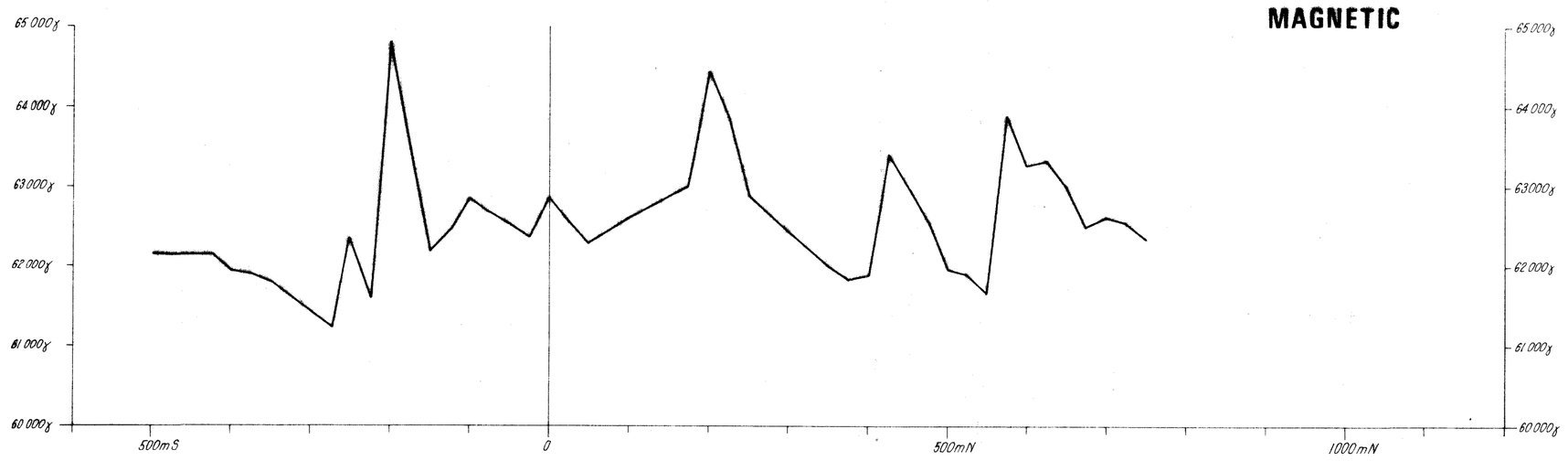
MAGNETIC, VLF-EM & SOIL GEOCHEMISTRY

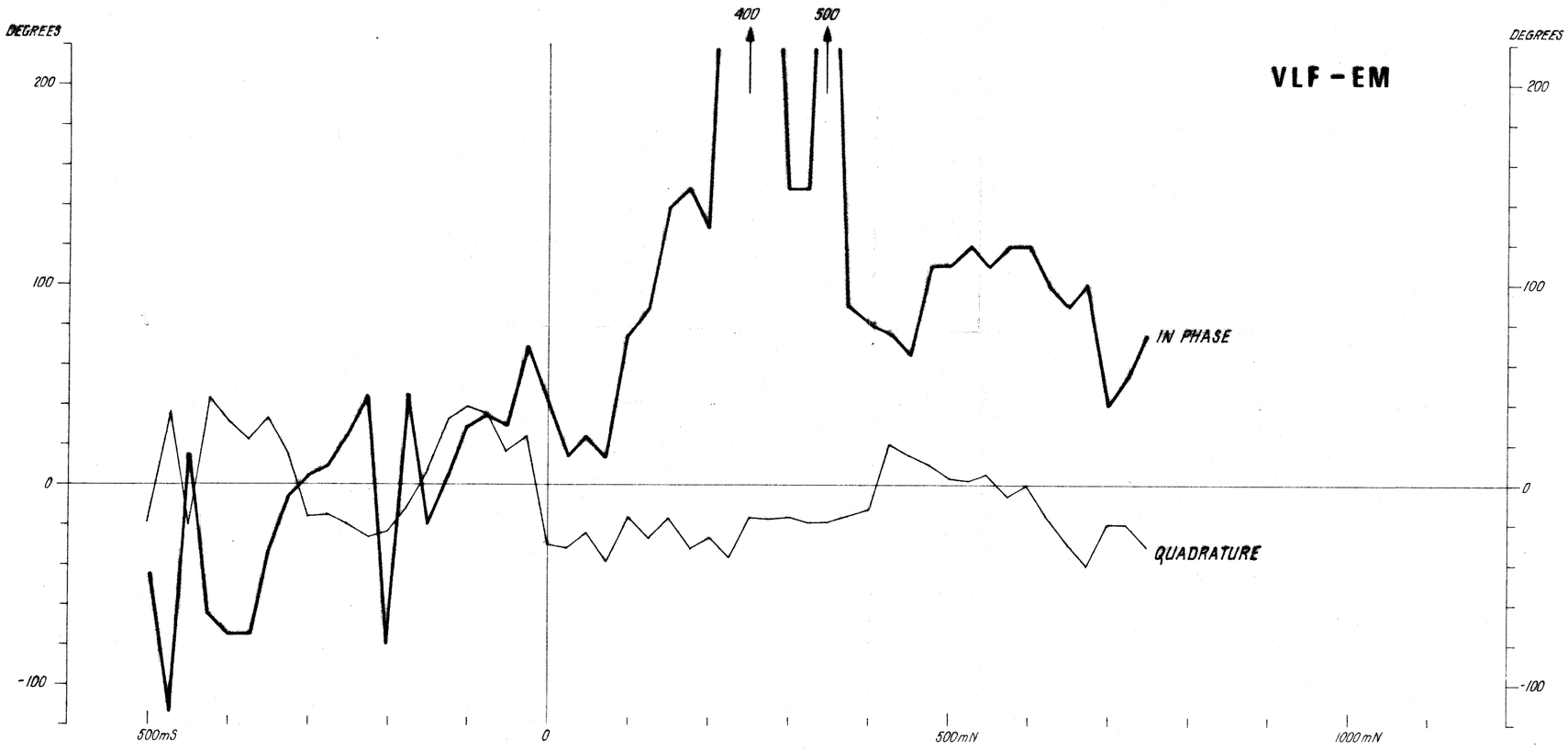
168042

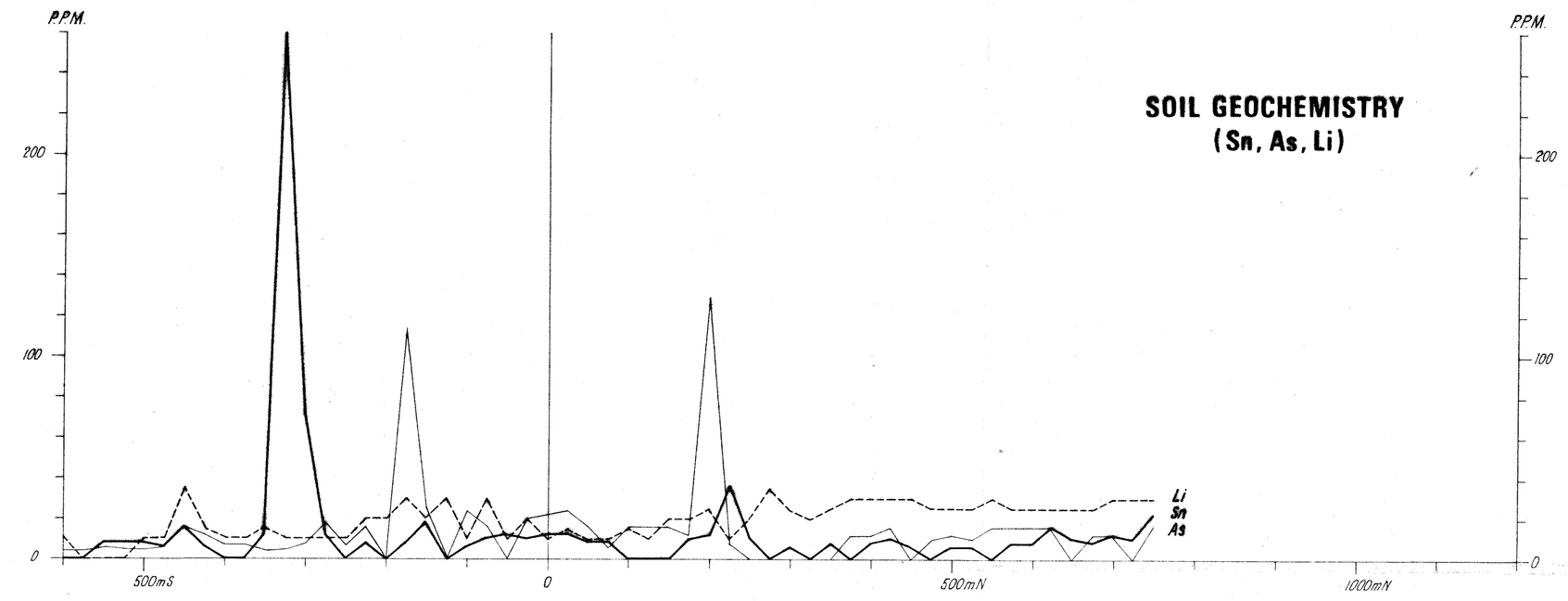
003

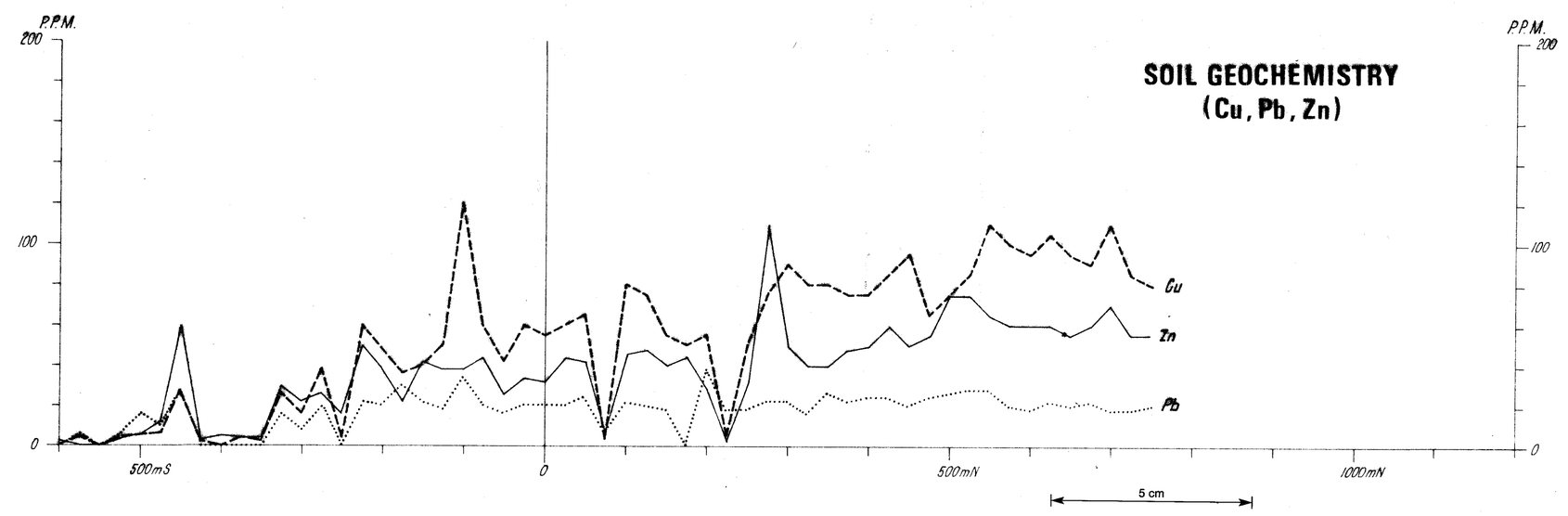
SCALE	1 5000 (Horizontal)	DRG. No. 7605-6
DRAWN	P.D.E./P.R.	
DATE	May '85	
REVISED		

85-2398









REFERENCE

NOTE : RENISON ML LINE IS IN METRES SOUTH & NORTH OF THE RENISON - STANLEY RIVER WALKING TRACK (0m)

FOR LOCATION REFER DRG. No. 7605-1

CSR LIMITED

E.L. 31/82 MT. LINDSAY, TASMANIA

LINE ML17

MAGNETIC, VLF-EM & SOIL GEOCHEMISTRY

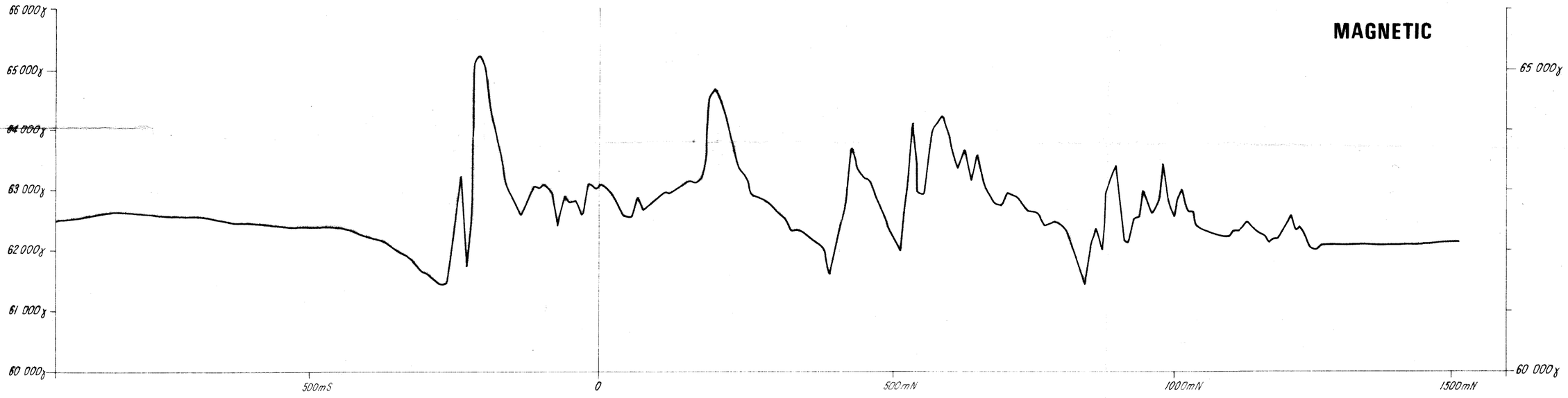
004

168043

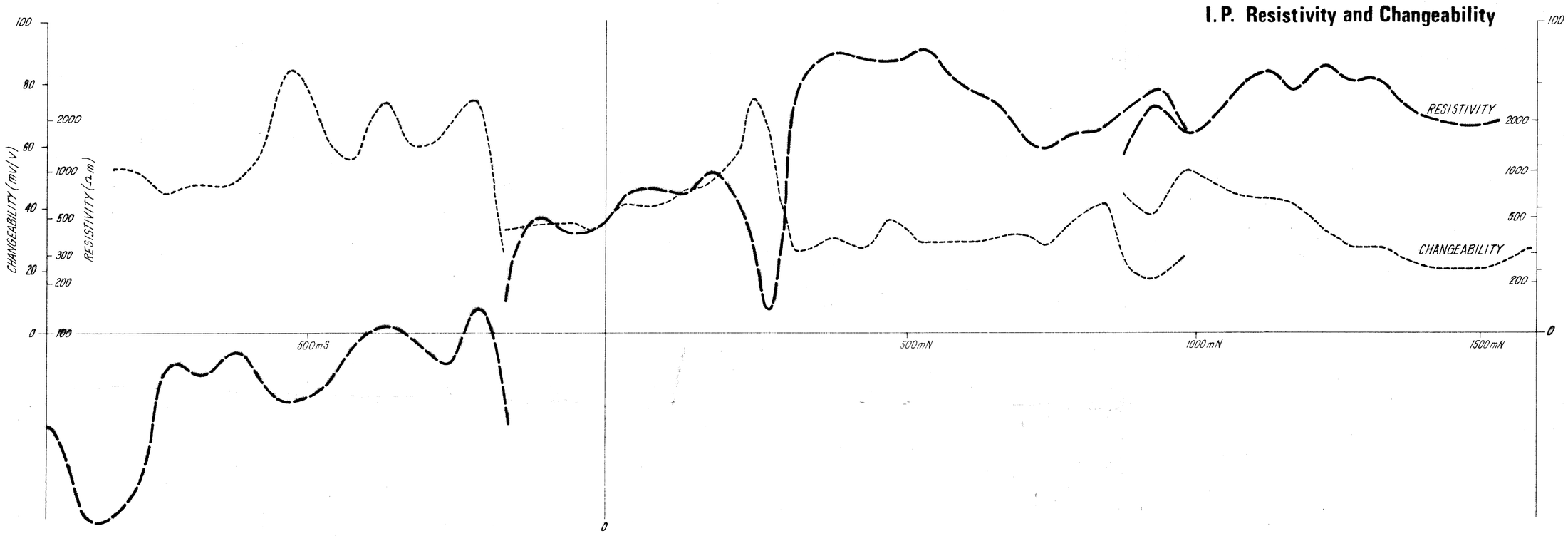
SCALE	1 5000 (Horizontal)	DRG. No. 7605-7
DRAWN	P.D.E / P.R.	
DATE	May '85	
REVISED		

85-2398

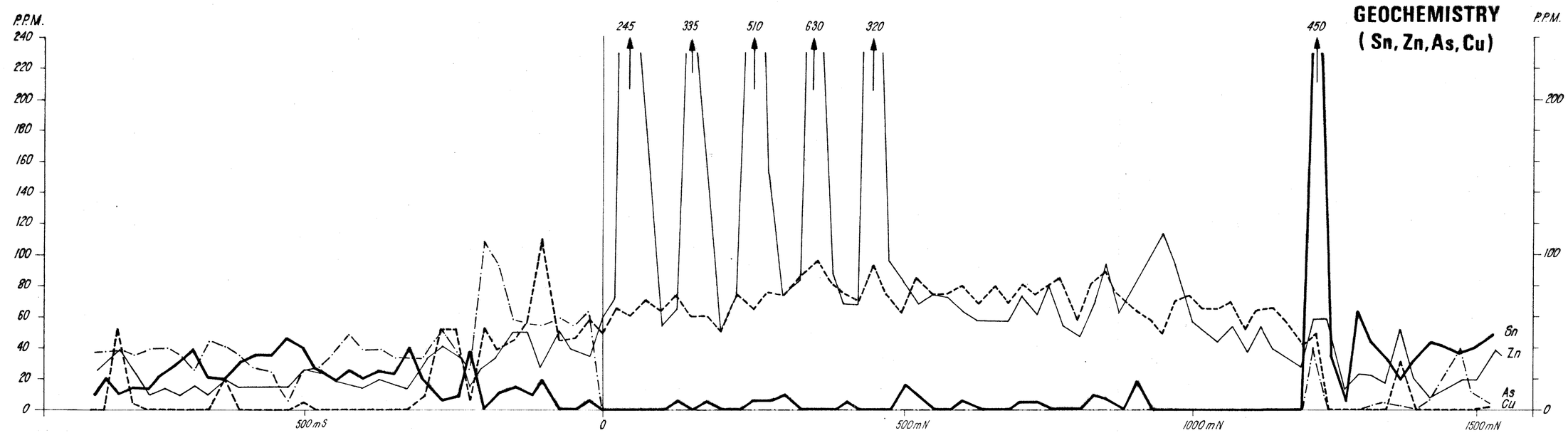
MAGNETIC



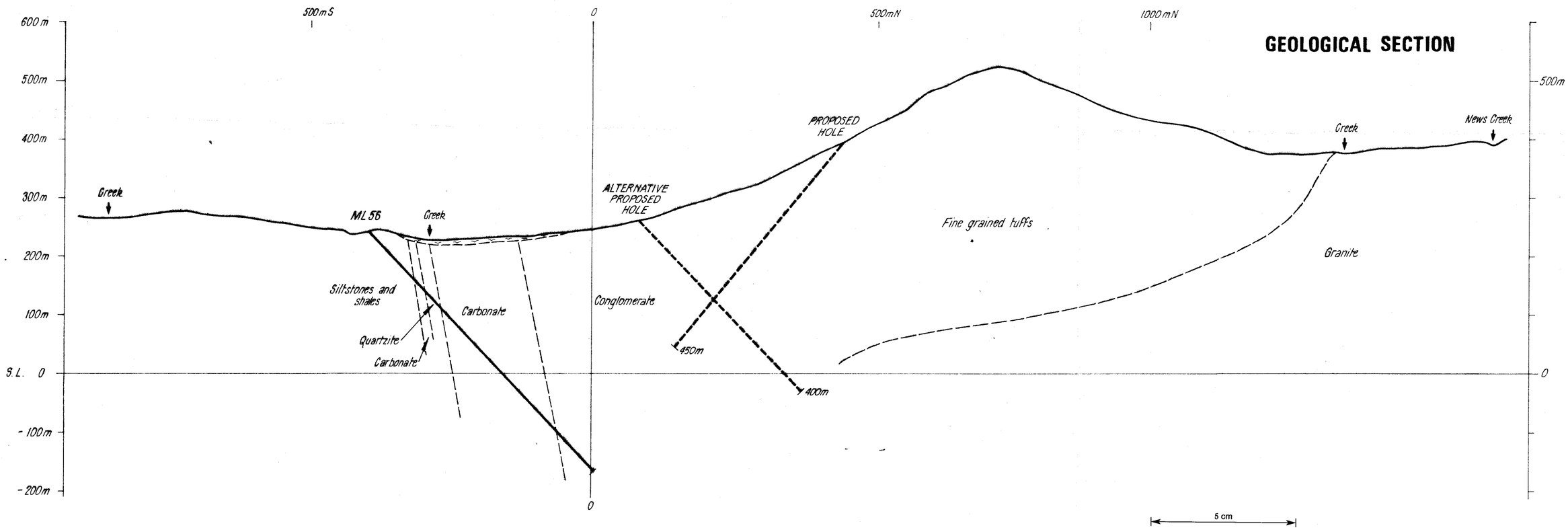
I.P. Resistivity and Changeability



GEOCHEMISTRY (Sn, Zn, As, Cu)



GEOLOGICAL SECTION



5 cm

REFERENCE

NOTE : RENISON ML LINE IS IN METRES SOUTH & NORTH OF THE RENISON – STANLEY RIVER WALKING TRACK (0m)

HORIZONTAL SCALE MEASURED IN SLOPE DISTANCES AND PROJECTED

FOR LOCATION REFER DRG. No. 7605-1

CSR LIMITED

E.L.31 82 MT. LINDSAY, TASMANIA

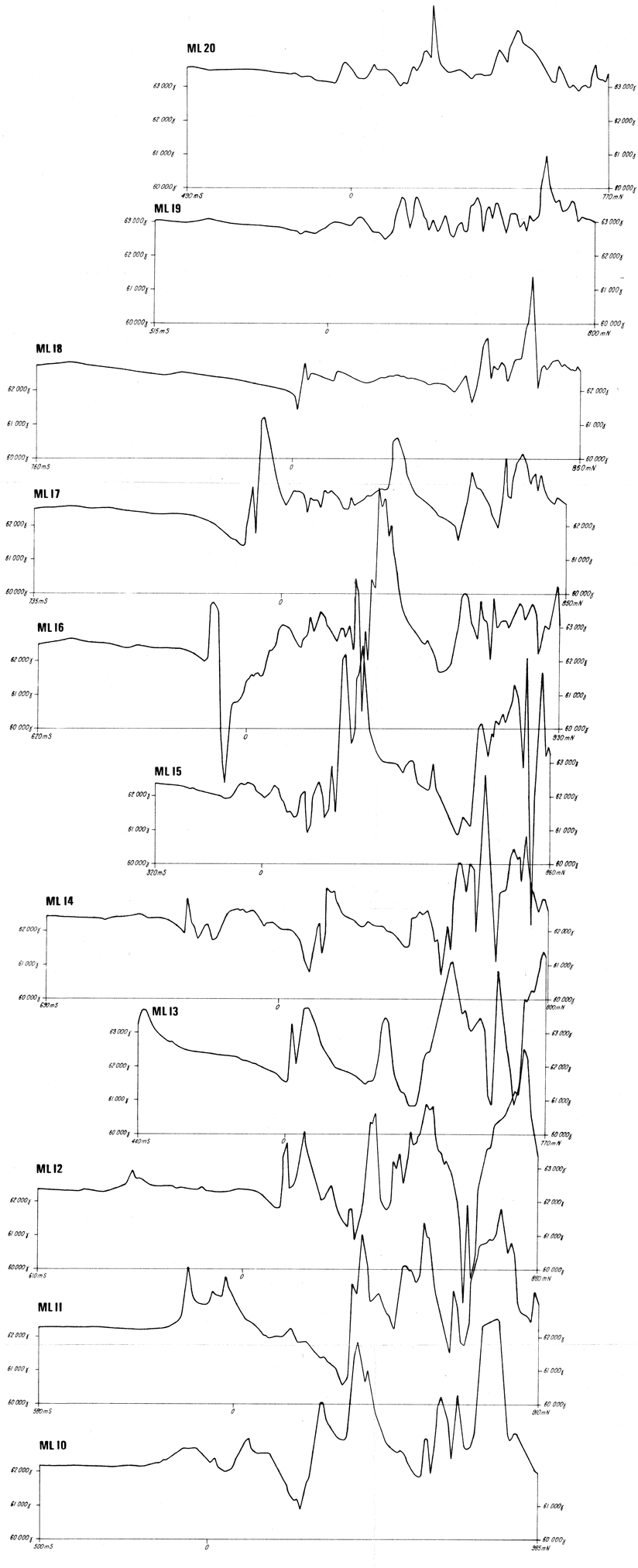
LINE ML17

RENISON GEOPHYSICAL, GEOCHEMICAL AND GEOLOGICAL DATA

168044 005

SCALE	:	1 : 5000 (Horizontal)	DRG. No. 7605 – 8
DRAWN	:	P.D.E. / P.R.	
DATE	:	May '85	
REVISED	:		

85 - 2398



REFERENCE

NOTE: RENISON ML LINES IN METRES SOUTH & NORTH OF THE RENISON – STANLEY RIVER WALKING TRACK (Dm)

FOR LOCATION REFER DRG No 7605-1

HORIZONTAL SCALE IS APPROX. DUE TO SLOPE DISTANCES BEING MEASURED AT 25 m INTERVALS

CSR LIMITED

E.L. 31/82 MT. LINDSAY, TASMANIA

STACKED MAGNETIC PROFILES

168045 006

HORIZONTAL SCALE	1 : 5000 (Approx.)	DRG No
VERTICAL SCALE	1cm = 500γ	7605-9
DATE	May '85	
DRAWN	P.E.D./PR	

5 cm

85-2398