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PROJECT 7611

CSR LIMITED

MINERALS EXPLORATION AND DEVELOPMENT GROUP

RENEWAL REPORT, 1986

EXPLORATION LICENCE NO. 25/85

PARSONS HOOD, TASMANIA

EMR 124/86

DEPT.

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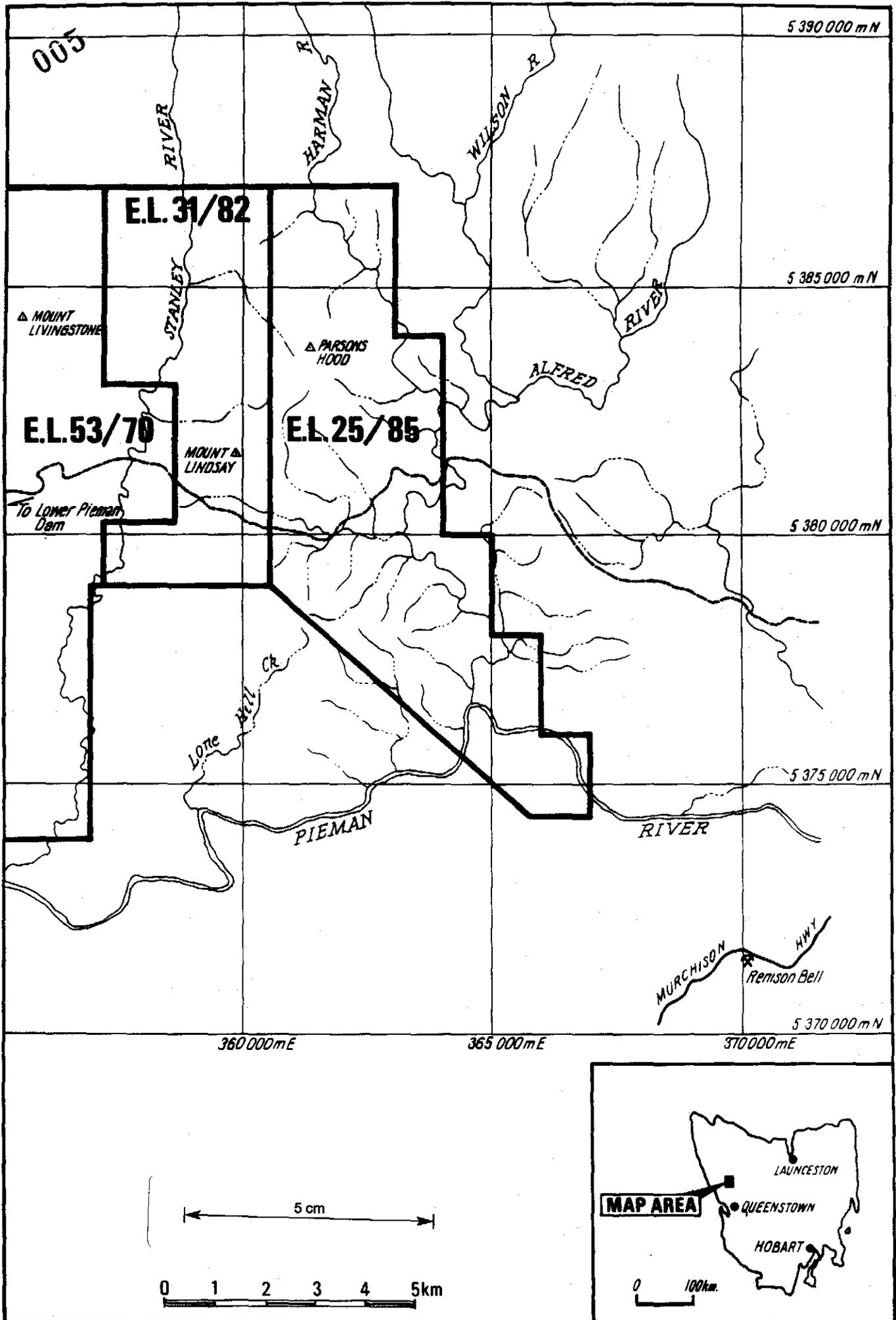


FIG.1 LOCATION MAP E.L. 25/85 PARSONS HOOD, TASMANIA

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KEYWORDS

TASMANIA

EXPLORATION

TIN

MINERALISATION

EL 25/85

COPPER

LEAD

ZINC

MAGNETICS

PARSONS HOOD

DRAINAGE GEOCHEMISTRY

BEDROCK GEOCHEMISTRY

SK 55-03

CRIMSON CREEK FORMATION

SUCCESS CREEK GROUP

1. INTRODUCTION

The Parsons Hood area was exempted from the Mining Act when relinquished by Renison/Goldfields/Aberfoyle in March, 1985. It was then offered for tender as Tenement Application No. 8451. On May 7, 1985, CSR Limited submitted a tender for the total exempt area of 60 km². On June 7, CSR was informed that the tender had been partially successful and was offered 41 km², which area was of more particular interest to CSR. The area reduction resulted in an expenditure commitment reduction from \$110,000 to \$70,000 over the first two years of tenure.

The reduced area of Exploration Licence 25/85 (EL 25/85) was pegged on July 26, 1985 and an application for the granting of this Licence was made to the Tasmanian Department of Mines on July 30, 1985. The Licence was granted to CSR on November 8, 1985.

This 41 km² Licence is situated immediately east-southeast of CSR's former EL 31/82 (Mt. Lindsay), and approximately 4 km northwest of Renison on the West Coast of Tasmania (Figure 1). The area extends south from the headwaters of the Harman River to Success Creek and east from the flanks of Mt. Lindsay to the flanks of Serpentine Ridge and includes the notable landmark of Parsons Hood.

The area was pegged because it has potential for Renison-style carbonate emplacement and/or skarn tin mineralisation in a continuation of the dolomitic Success Creek Group sediments known within CSR's adjacent EL 31/82 and at the nearby Renison Mine. This sequence has been intruded by the tin-bearing Devonian Meredith Granite. Renison/Aberfoyle (when they held the area as EL 2/63) located significant geophysical and geochemical responses in parts of the area. Tin and tungsten were mined from the Mt. Lindsay workings while tin was worked from the nearby Stanley Reward and Livingstone Creek areas.

Since the discovery of tin at Renison in 1890 by R. Nicholson, at Stanley Reward in 1895 by A. Montgomery and at Mt. Lindsay in 1901 by D. Jones, the area has been prospected and explored. This activity has been more intense since the mid-1950's.

This report summarises the investigations completed by CSR in the first 12 month term of the Licence ending on November 8, 1986.

2. SUMMARY

Exploration commenced in November, 1985, and a brief review of past exploration data was undertaken.

Anomalous magnetic areas were drainage sampled with five anomalous geochemical zones being defined, four of which required further work. Initial grid-based magnetic and bedrock geochemical work on the South Pieman grid defined one magnetic anomaly and one Cu/Pb/Zn anomaly. Further ground work is required to determine the source of these anomalies.

Further gridding with magnetics and bedrock geochemistry will be undertaken on the remaining three anomalous zones.

3. LOCATION AND GENERAL

EL 25/85 is centred 18 km north of Zeehan and 10 km northwest of Renison on the West Coast of Tasmania. It is adjacent to the eastern boundary of CSR's former Mt. Lindsay Licence (EL 31/82), and is about 4 km from east to west and 12 km from north to south (Figure 1).

Until recently the only ground access was from Renison Bell by vehicle track to the Pieman River cable car crossing downstream of the Wilson River mouth and then by foot track through the Licence to the Mt. Lindsay area. In 1975, Renison upgraded to 4 W-D standard the track from the Pieman River to the Mt. Lindsay area. This route was replaced by the HEC Lower Pieman dam-site sealed access road from Tullah in the 1978-80 period. The Licence is 28 km by this road from the Murchison Highway, and the road runs east-west through the centre of the Licence. Portions of the track from Renison Bell to the Lower Pieman Road have been upgraded for Forestry operations.

The southwestern boundary of the Licence is underlain by the mudstones, siltstones and lithic sandstones of the Precambrian Oonah Formation. Oonah rocks generally support easily traversed low button grass scrub with ti-tree/sword grass/bauera scrub in the deep gullies. Most of the rest of the Licence is underlain by Eo-Cambrian Success Creek Group sediments and Crimson Creek Formation. These rocks and the Devonian granite (in the northwest corner of the Licence) are covered by thick, almost impenetrable, horizontal scrub and rainforest. The Cambrian serpentinites in the northeast corner of the Licence are covered by low button grass scrub and burnt-out young eucalypt re-growth.

EL 25/85 is drained by the Harman/Wilson River system which flows into the Pieman River. The rivers and streams are deeply incised resulting in a steep, hilly topography ranging in elevation from 150 to 900 m above sea level.

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 1921 when the mining company disbanded. Tribute mining continued until 1932.

In the 1956-63 period, Rio Tinto explored northwest Tasmania (SPL 302 and EL 4/59), completing airborne EM and magnetic surveys on most of the prospective zone. Minor mapping around the Mt. Lindsay/Stanley Reward mineralisation gave generally discouraging results and EL 4/59 was allowed to expire.

The Aberfoyle Group acquired two Mining 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 of Aberfoyle's work in EL 2/63 was confined to the Mt. Lindsay workings. This included limited mapping and 23 drill holes. In the 1967-69 period, two prospects (Mt. Lindsay Anomaly 2 and Camp 30) were investigated by aeromagnetism and drilling. General investigations were undertaken in 1970 (Mt. Lindsay-Stanley River area) and 1971-72 (ground geology, geochemistry, magnetism and SP of the Oonah/Crimson Creek contact by Paringa), resulting in the western area being relinquished (latter re-pegged as EL 18/73 by Renison) and the rest being joint ventured (to Renison/CGFA).

The Paringa study of the Oonah/Crimson Creek contact located 5 geochemically anomalous zones trending northwesterly and parallel to the stratigraphy. These anomalies (DRG No. 7611-6) were near the Oonah/Success Creek

contact (3 anomalies) or near the base of the Crimson creek (2 anomalies).

Initial work by Renison included an airborne magnetic and Turair EM survey (DRG No. 7611-5), and establishment of vehicular access via the Pieman Road. EM anomalies at Misty Valley and at Mt. Lindsay were gridded and traversed with ground magnetics, IP and soil geochemistry from 1973 to 1975. In 1975-82, most work was concentrated on the Mt. Lindsay workings, and from this work Renison concluded that this area was too close to the Meredith Granite to contain economic cassiterite mineralisation. In the 1979-85 period, Renison gridded the Harman River and Merton Hill areas in the search for greisen tin, and for tin mineralisation along the faulted contact of Ordovician/Devonian sediments with the ultramafics.

Renison relinquished all but the Merton Hill area of EL 2/63 in March, 1985 when EL 25/85 was obtained by CSR. The remainder of EL 2/63 was relinquished in September, 1985.

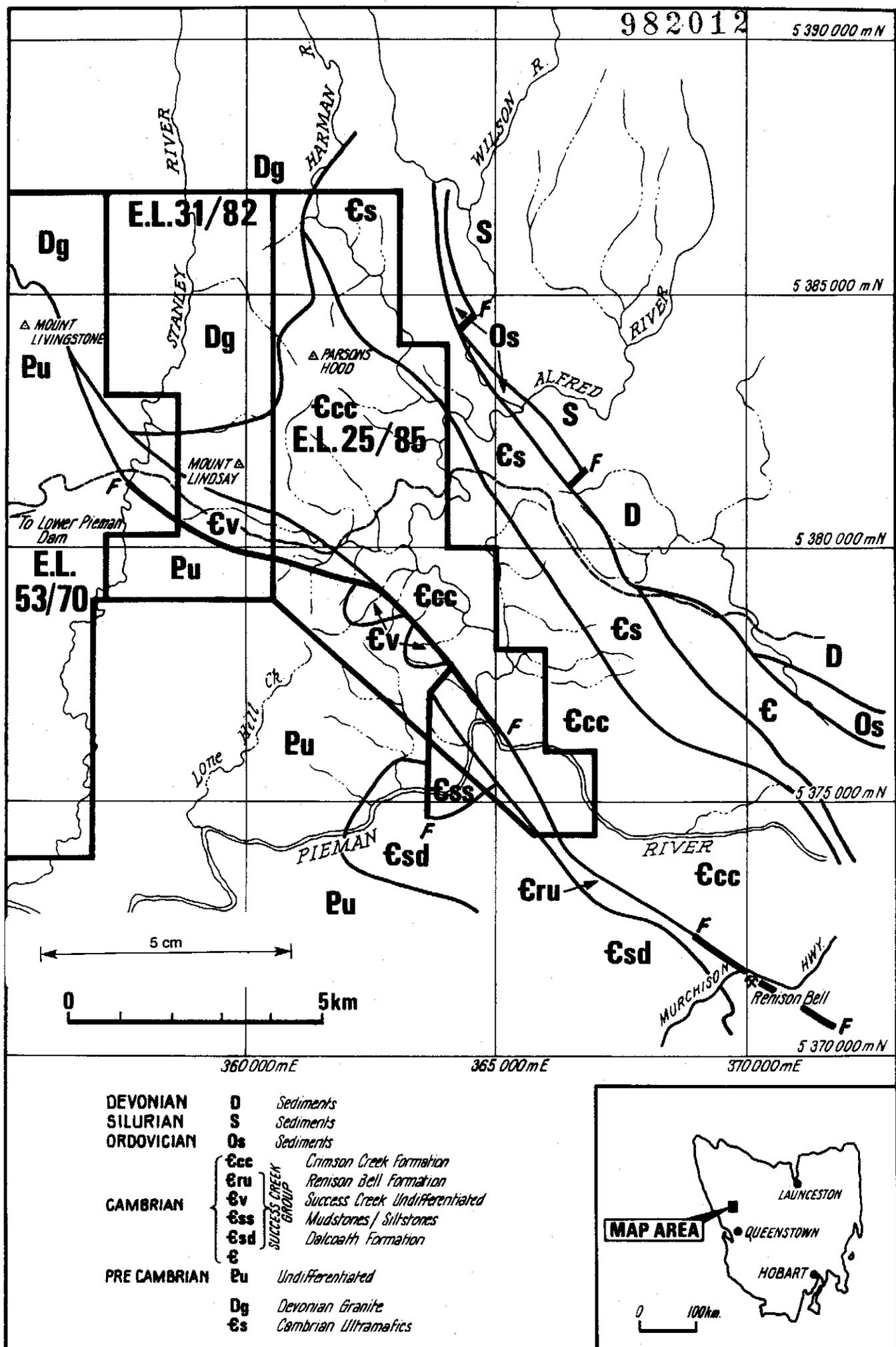


FIG.2 GEOLOGICAL MAP, E.L.25/85 PARSONS HOOD, TASMANIA

5. GEOLOGY

5.1 Regional

The oldest rocks in the Licence area (Figure 2) are the relatively unmetamorphosed Precambrian sequence known as the Oonah Formation. These interbedded, fine-grained, lithic and siliceous sandstones with laminated phyllitic mudstones, siltstones and coarse lithic sandstones underlie part of the southwestern boundary of the Licence.

Overlying the Oonah sediments with an unconformable and/or faulted contact are the Success Creek Group sediments. These vary from quartz sandstone with minor siltstone, pebbly sandstone and conglomerate (Dalcoath Formation) in the southwestern corner of the Licence, to the red chert/mudstone and laminated siliceous siltstone with minor quartz sandstone, conglomerate and carbonate horizons (Renison Bell Formation).

Volcaniclastic lithic wacke with interbedded siltstone, mudstone, tuff, and minor cherts and carbonates of the Crimson Creek Formation disconformably overlie the Renison Bell Formation. The cherts and carbonates occur to about 2000 m stratigraphically above the base of the Crimson Creek Formation at which point they have been correlated with the Cleveland Mine sequence. At Mt. Lindsay, these upper carbonates host tin/tungsten mineralisation.

The Crimson Creek sequence has been fault truncated to the northeast by the emplacement of pre-Middle Cambrian serpentinitised ultramafics. Within EL 25/85, these rocks only occur in the northeast corner. To the northwest, the Crimson Creek and Success Creek sequences have been intruded by the Devonian-Lower Carboniferous Meredith Granite. Fluids associated with this multiphase adamellite intrusion are believed to be responsible for mineralisation at Mt. Bischoff, Cleveland, Mt. Lindsay, Mt. Razorback, Stanley Reward, Livingstone Creek, Renison Bell and Queen Hill.

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

Detailed geology is shown on DRG Nos. 7611-1, 7611-2 and 7611-4.

5.2 Structural

The Oonah Formation sediments form a series of anticlinoria to the west of EL 25/85 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 showed 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 re-folded isoclinal folds which have then been re-folded 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 25/85 is the Huskisson Syncline which is reflected by the steeply dipping Oonah, Success Creek and Crimson Creek successions. It has been suggested that the Success Creek sediments are east-facing within the Licence area (Brown, 1980).

6. CURRENT EXPLORATION

6.1 Techniques

EL 25/85 was acquired to cover the continuation of the Success Creek/Crimson Creek dolomitic sequence extending southeast from the Stanley Reward area (CSR's former EL 53/70) through the Mt. Lindsay area (CSR's former EL 31/82). A review of previous exploration data showed that although the Mt. Lindsay and Misty Valley grids (Renison) covered part of this sequence, there was a significant area of the sequence basically unexplored (the area between the grids and to the south of the Misty Valley grid).

As no previous drainage geochemistry had been attempted, the area of Success Creek/basal Crimson Creek sediments was drainage sampled at most stream intersections (DRG No. 7611-8). During this survey, geological mapping was undertaken.

Gridding was completed on one of the areas of coincident anomalous drainage geochemistry and airborne magnetics (South Pieman grid). Eight lines at 200 m spacings were cut and traversed with 25 m-spaced ground magnetics, Wacker bedrock sampling and partial geological mapping (further mapping to be completed). Grids will be cut on other anomalous areas when the final high water level of the Lower Pieman Dam and its relationship to prior access tracks is known.

6.2 Results

The review of previous exploration data showed that the Success Creek/Crimson Creek sequence, containing several airborne magnetic anomalies with some coincident soil geochemical anomalies, had only been investigated in two small areas (the Mt. Lindsay and Misty Valley grids). The 2 km zone between the grids and the 4 km zone to the south of

the Misty Valley grid had only unreliable, unsupervised, widely-spaced, preliminary investigation coverage. No detailed follow-up of the magnetic anomalies in the dolomitic Cambrian/Eo-Cambrian sequence had been undertaken. The remainder of the Licence showed little of economic interest to CSR Limited.

The drainage sampling programme in the area of basal Cambrian rocks (Appendix I) indicated the following anomalous zones:

- an area to the south of the Pieman River and east of Success Creek, mapped as being covered with Tertiary gravels, showed anomalous Cu, Pb, Zn and Sn coincident with an aeromagnetic anomaly.
- a zone to the north of the Pieman River, and to the south and east of the Wilson River, showed anomalous Zn with some anomalous Pb and Sn, and was coincident with two magnetic anomalies.
- a third Cu, Zn, Sn with some Pb zone is coincident with a magnetic anomaly to the west of the Wilson River, 1-2 km further north.
- a Zn, Sn anomalous zone is coincident with a magnetic anomaly to the west of the Wilson River and south of Salmon Creek.
- an anomalous zone of Cu, Zn and Sn, in the vicinity of where Salmon Creek crosses the HEC Road, is of little interest as it is probably a result of the Mt. Lindsay workings further upstream.

Geological mapping was undertaken during the drainage sampling programme. Almost all outcrops seen had been noted on previous maps, the only exception was the presence of a

TABLE 1 : SAMPLE ANALYSIS QUALITY CONTROL

Standard	Sample	Cu	Pb	Zn	Ni	Bi	Sn	W	As	Sb	Ba	Ag	Au
1H	A161950	85	10	38	55	4	12	40	16	12	250	x	0.02
	Quoted	72	14	35	58	12	10	53	11	10	440	x	0.057
5	A162181	115	12	110	55	18	4	35	18	8	450	x	-
	Quoted	107	13	112		28			14				
6	A162180	180	14	130	50	22	10	90	8	10	400	x	-
	A147132	170	20	130	46	26	10	105	10	-	440	x	-
	A162188	185	10	125	50	16	6	80	9	x	380	x	-
	A161037	160	16	120	50	8	12	105	7	-	420	1	-
	Quoted	185	15	140		29			7	9			
7	A162190	65	24	26	18	x	8	20	18	x	290	x	-
	Quoted	60	25	29		4			7	x			
9	A162184	3	x	3	x	x	10	x	3	x	20	x	-
	A147140	5	6	5	6	x	24	25	8	-	15	x	-
	Quoted						21.4						
10	A162187	3	x	3	x	x	50	x	x	6	15	x	-
	Quoted						36.8						
11	A183850	14	6	5	6	x	135	x	x	-	25	x	-
	A162183	7	4	5	x	x	145	x	x	x	30	x	-
	A184040	7	6	4	6	x	145	25	3	-	30	x	-
	Quoted						138						
12	A162182	6	4	3	x	x	65	x	7	x	20	x	-
	A184050	5	8	24	8	x	65	15	2	-	25	x	-
	A162184	5	4	3	x	x	60	x	x	x	10	x	-
	Quoted						68						
12A	A147122	10	26	12	6	x	300	35	x		x	x	-
	A147150	10	24	12	10	6	290	35	x		x	x	-
	Quoted						294						
13	A162185	4	x	2	x	x	570	10	x	x	x	x	-
	A161036	5	10	5	6	x	500	15	x	-	15	x	-
	Quoted						505						
14	A162192	3	x	2	x	x	1000	x	x	8	15	x	-
	A184640	10	300	1950	90	32	1000	x	4	-	10	2	-
	A184085	6	4	x	x	x	970	55	8	-	15	x	-
	Quoted						995						
15	A184150	7	4	5	x	x	3000	20	4	-	15	x	-
	Quoted						2950						
16	A162185	2	x	2	x	x	1.44%	25	x	x	10	x	-
	A184630	4	4	5	x	4	1.48%	60	6	-	15	x	-
	A183842	5	x	x	8	x	1.49%	60	4	-	15	x	-
	Quoted						1.47%						
17	A184073	7	4	5	6	x	7200	45	5	-	25	x	-
	A162191	2	x	3	x	x	7150	10	x	6	10	x	-
	A184140	5	4	8	4	x	7050	75	7	-	25	x	-
	Quoted						7135						
Blanks	A184650	3	4	x	x	x	x	15	2	-	75	x	-
	A184121	4	6	22	6	x	x	45	5	-	45	x	-
	A184030	6	6	26	4	x	6	15	2	-	45	x	-
	A184099	9	6	20	6	x	8	15	2	-	45	x	-
	A183998	3	6	20	x	x	x	10	2	-	45	x	-

small outcrop of gabbro on the new forestry track to the intersection of the Salmon Creek with the Wilson River (DRG No. 7611-4). The only outcrop in most of the Licence area tends to be in streams and rivers and along bulldozed tracks.

The "Wacker" bedrock sampling programme on the South Pieman grid (one of the drainage geochemical anomalies with coincident magnetics) gave minor information on the geology and the gravels south of the Pieman River. The rocks are a sequence of sandstones and shales underlying 0.1 to 25.2 m of gravels (averaging about 7 m). The shales vary from cream to grey to chocolate brown to black and pyritic, whereas the sandstones are generally tan to off-white and weathered.

Geochemical analyses of the "Wacker" samples (Appendix II) showed significant Cu, Pb, Zn anomalies (up to 670, 8250 and 1800 ppm, respectively) to the east of the forestry road, with the strongest anomalies being on Lines 600N and 800N. These latter anomalies are the cause of the main Cu, Pb, Zn drainage anomalies from this area (Samples A162058 and A162052) and may be related to the underlying black, pyritic shales. Anomalous Sn values (to only 85 ppm) occurred in isolated samples and are thus insignificant. Arsenic (to 100 ppm) appeared to occur as isolated anomalous values with a distribution generally unrelated to other anomalous elements.

Ground magnetic traverses (Appendix III) over the South Pieman lines showed strongly magnetic features in the north (Lines 1600N and 1400N) associated with persistent Zn anomalies. Smaller magnetic features are visible on the other six lines (DRG No. 7611-9), with some being traceable over more than one line.

6.3 Quality Control

The analyses of the drainage samples contained 14 standards while the analyses of the "Wacker" samples contained 16 standards and 5 blanks (Table 1).

Generally, there was very good agreement between the analysed value and the standard value. The only major problems were with Sample A184640 (Standard 14) where the Pb (300), Zn (1950) and Ni (90) were not in agreement with other analyses (detection limit). This was a tin standard and gave accurate Sn values (1000 as against 995).

6.4 Proposed Exploration

Further investigations of the Cu, Pb, Zn anomaly on Lines 600N and 800N and the magnetic features on Lines 1600N and 1400N will be undertaken with ground geophysics (VLF-EM) and possibly costeaning. This will determine if these anomalies are related to black shales.

Grids will be cut over the remaining three drainage geochemical and airborne magnetic anomalies. These will then be traversed with magnetics and bedrock geochemistry.

7. REFERENCE

BROWN, A.V., 1980 : Some Aspects of the Geology of
the Mt. Lindsay-Dundas Areas, Western Tasmania
Tas. Department of Mines Rpt. No. 1980/42
(unpubl.)

PDE/SGL

September 1986

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APPENDIX I

REGIONAL DRAINAGE SAMPLING ANALYSES.

EL 25/85



FIELD SAMPLE DESPATCH SHEET

10156

State TAS 021 Project PARSONS/POUNDS Prospect No. 7611/7602 Locality REGIONAL/KARLWE
 CSR Order No. 44471 Date Sampled FEB 86 Sampler PDE/RENJA R/B/D
 Date Despatched 17/2/86 Despatcher PDE Despatched per SKYROADS
 Type of Sample 20W/SS/PC
 Lab. Name COMLABS SS unless otherwise stated.

Sample Number Co-ordinates	From To		Chemical Analyses (ppm or %)						Sn	W	As	Sb	Ba	Ag	Au
	E/W	N/S	Cu	Pb	Zn	Ni	Bi								
A162051 SS	366810	5374220	12	20	34	16	X	10	X	12	10	105	X		
052 SS	366760	5374105	105	390	1150	60	X	4	X	20	X	55	X		
053 SS	365660	5374490	4	20	26	12	X	12	10	8	X	130	X		
054	365670	5374270	22	18	30	20	X	19	15	8	12	80	X		
055	365655	5374330	7	30	18	8	X	42	X	2	8	30	X		
056	365640	5374200	4	16	12	4	X	10	10	10	X	70	X		
057	365645	5374230	4	30	12	6	X	32	X	X	6	30	X		
058	365760	5374080	24	55	100	34	X	30	10	12	16	60	X		
059	365730	5374080	5	65	18	8	X	4	X	4	8	40	X		
060	365870	5373620	2	X	5	X	X	12	10	2	6	40	X		
061	365910	5373610	3	180	26	10	X	6	X	7	4	30	X		
062	365770	5374080	3	80	18	8	X	22	10	6	X	30	X		
063	365660	5374180	6	80	30	10	X	X	X	6	X	35	X		
064 SS	365490	5374630	10	20	20	14	X	10	10	6	6	80	X		
065 PC	365490	5374630	7	14	42	20	X	250	15	X	6	45	X	X	
066	366215	5373210	5	48	22	10	X	X	X	9	X	40	X		
067	366230	5373240	170	2.57	4700	760	X	6	X	20	18	165	8		
068	366080	5373360	8	70	34	6	X	X	X	7	X	40	X		
069	366080	5373350	3	16	10	X	X	X	X	2	6	35	X		
070	366000	5373400	5	26	20	9	X	6	X	7	4	40	X		
071	366000	5373410	4	10	14	4	X	4	X	6	6	60	X		
072	366910	5373430	X	6	5	X	X	8	10	5	8	65	X		
073	366910	5373445	5	16	34	8	X	8	X	9	4	40	X		
074	366390	5373580	8	40	200	46	X	X	10	14	8	45	X		
075	366390	5373570	30	38	130	55	X	6	X	24	16	40	X		
076	363570	5373700	26	22	75	34	X	X	X	14	X	85	X		
077	363580	5373690	36	42	270	90	X	X	X	22	6	125	X		
078	363560	5373630	75	44	200	125	X	10	X	16	X	140	X		
079	363540	5373640	28	38	220	75	X	6	X	18	16	90	X		
080	363730	5373865	45	20	340	250	X	14	X	12	X	145	X		
081	363740	5373850	40	26	190	45	X	X	X	14	X	110	X		
082	364200	5373830	70	18	230	155	X	10	X	12	10	140	X		
083	364210	5373840	36	18	165	70	X	X	X	8	X	100	X		
084	364340	5373740	80	8	160	135	X	X	X	10	4	230	X		
085	364240	5373755	55	22	220	115	X	4	X	16	X	120	X		
086 SS	364380	5373680	50	20	175	115	X	70	X	7	8	145	X		
087 PC	364380	5373680	26	50	730	180	X	2250	20	X	8	75	X	X	
088 PC	364400	5373680	9	22	800	195	X	1350	35	X	8	10	X	X	
089 SS	364400	5373680	20	12	75	85	X	26	X	2	X	155	X		
090	364420	5373490	20	14	60	80	X	135	X	4	X	165	X		

Instructions to Analyst: CRUSH & PULVERISE ROCK SAMPLES: PULVERISE REST OF SAMPLES ANALYSE ROCK, POWDER.
 - REMAINING SAMPLES AND ASSAY CONCENTRATES FOR Cu, Pb, Zn, Ni, Bi by AAS 1, ROCKS, POWDERS -20+20+
 AND PC FOR Sn, W, AS, Sb, Ba BY XRF. COMBINE -20+20+ -20+20 FRACTIONS ANALYSE ALL COMBINED,
 ROCK, POWDERS, PC FOR Au BY AAS 1 AND Ag BY AAS-3
 Results to Invoice to CSR ME 026000 in Sydney. Results to CSR LINDISFARNE TAS.



FIELD SAMPLE DESPATCH SHEET

10157

State TAS Project PARSONS HOOD / DUNDAS Prospect No. 7611/7602 Locality REGIONAL/CARBONE
 CSR Order No. 44471 Date Sampled FEB 86 Sampler PDE/REW/MR/RD
 Date Despatched 17/2/86 Despatcher PDE Despatched per SKYROADS
 Type of Sample DDH/PC/SS
 Lab. Name COMLABS

Sample Number Co-ordinates	From To		Chemical Analyses (ppm or %)					S ₂	W	As	Remarks	Ba	Ag	H
	E/W	N/S	Cu	Pb	Zn	Ni	Bi							
A162091 SS	364430	5379440	70	26	230	135	X	X	X	16	10	175	X	
092 PC	364430	5379440	895	14	220	110	X	28	X	60	16	70	X	
093	364335	5379225	80	16	220	160	X	6	10	14	X	175	X	
094	364320	5379230	70	34	250	120	X	4	X	24	4	220	X	
095	364175	5379145	470	34	220	130	X	6	X	22	4	200	X	
096	364175	5379145	34	36	130	60	X	X	X	22	8	185	X	
097	364095	5379160	105	26	250	155	X	14	X	18	4	165	X	
098	364095	5379140	332	338	155	85	X	X	X	22	8	165	X	
099 SS	366060	5375080	48	24	240	2250	X	6	X	20	X	105	X	
A162100 PC	366060	5375080	800	12	400	1250	X	90	X	12	10	20	X	
101	366130	5375140	28	16	270	1950	X	26	10	14	X	85	X	
102	366195	5375225	44	16	240	2050	X	10	X	12	6	100	X	
103	366200	5375320	42	20	250	2000	X	4	X	14	X	95	X	
104	366300	5375335	36	18	240	2300	X	4	X	8	8	110	X	
105	366410	5375275	34	18	230	2500	X	X	15	12	8	110	X	
106	366210	5375445	55	16	100	75	X	4	15	10	4	105	X	
107	366190	5375445	80	26	155	120	X	12	X	9	8	90	X	
108	365895	5375550	12	12	28	16	X	4	15	8	14	170	X	
109	365865	5375440	12	14	50	28	X	22	25	5	4	110	X	
110	365860	5375350	12	12	60	30	X	34	20	8	4	140	X	
111	365870	5375250	10	8	50	26	X	30	30	5	6	105	X	
112	365850	5375245	4	4	20	20	X	X	35	5	4	130	X	
113	365885	5375180	3	8	26	12	X	22	35	3	6	85	X	
114 SS	365915	5375130	26	22	130	65	X	16	25	7	8	110	X	
115 PC	365915	5375130	5	6	65	36	X	28	10	9	4	105	X	X
116	365995	5375100	26	100	180	38	X	220	20	85	16	260	X	
117	365795	5375220	18	14	90	40	X	26	25	X	8	115	X	
118	365720	5375285	18	18	220	165	X	42	35	7	4	145	X	
119	365650	5375250	10	18	34	14	X	55	30	6	4	105	X	
120 SS	364575	5375950	2	32	40	12	X	8	20	7	X	20	X	
121 PC	364575	5375950	2	10	28	6	X	14	X	7	6	35	X	X
122 PC	364595	5375970	X	6	130	60	X	430	40	X	6	80	X	X
123 SS	364595	5375970	16	12	70	95	X	18	15	3	4	185	X	
124	364530	5376260	65	46	160	120	X	6	10	22	8	210	X	
125	364440	5376550	34	22	70	34	X	12	X	14	6	130	X	
126	364460	5376550	50	36	270	110	X	4	10	26	10	250	X	
127 PC	364610	5376380	38	22	470	110	X	14	X	55	4	90	X	X
128 SS	364610	5376380	48	30	220	90	X	X	X	24	8	220	X	
129	365070	5376025	12	10	28	20	X	12	45	4	12	80	X	
130	365000	5376100	10	9	34	14	X	38	10	7	8	95	X	

Instructions to Analyst: See F.S.D.S 10156



FIELD SAMPLE DESPATCH SHEET

10158

State TAS ⁰²⁰ Project PANORAMA HOOD / PANORAMA Prospect No. 7611 / 7602 Locality REGIONAL / KARADINE
 CSR Order No. 444471 Date Sampled FEB 86 Sampler PDE / REV / AR / RD
 Date Despatched 17/2/86 Despatcher PDE Despatched per SKYRADS
 Type of Sample PDH / PC / SS
 Lab. Name COMLABS

Sample Number Co-ordinates	From To		Chemical Analyses (ppm or %)						S _n	W	As	S ₆	Remarks	Ag	Au
	E/W	N/S	Cu	Pb	Zn	Ni	Bi								
A162131	364935	5376165	X	6	9	6	X	20	50	4	9	115	X		
132	364895	5376250	6	9	32	16	X	22	15	3	4	110	X		
133	364840	5376300	7	10	36	19	X	100	45	X	10	125	X		
134 SS	364780	5376440	5	10	36	22	X	19	10	X	9	125	X		
135 PC	364780	5376440	3	9	120	46	X	360	20	X	X	95	X	0.47	
136 PC	364770	5376460	4	6	430	160	X	800	X	X	X	60	X	X	
137 SS	364770	5376460	19	14	85	145	X	16	40	7	6	105	X		
138	362980	5376625	X	4	4	4	X	6	20	3	4	50	X		
139	362970	5376625	X	X	4	X	X	X	50	3	6	90	X		
140	363010	5376475	X	6	5	4	X	X	15	2	X	110	X		
141	363040	5376490	X	4	3	X	X	X	45	4	6	65	X		
142	362045	5376465	X	X	2	X	X	X	10	3	6	100	X		
143	363045	5376475	X	12	7	X	X	X	X	6	X	80	X		
144	363060	5376460	X	20	10	4	X	X	X	7	6	70	X		
145	362400	5377560	3	16	7	X	X	X	X	7	6	100	X		
146	362390	5377570	3	14	16	6	X	10	10	7	4	130	X		
147	362370	5377580	X	10	6	X	X	X	X	7	10	60	X		
148	362370	5377550	6	16	16	8	X	4	X	10	12	165	X		
149	362170	5378230	5	12	5	X	X	6	X	7	6	65	X		
150	361975	5378415	7	6	12	6	X	X	X	7	X	75	X		
151	362615	5378790	65	22	170	120	X	6	X	12	4	135	X		
152	362300	5378990	42	34	110	60	X	X	X	10	X	120	X		
153	362090	5379120	30	16	65	38	X	12	X	10	X	105	X		
154	362130	5379115	165	46	125	95	X	32	10	18	4	130	X		
155	362160	5379075	120	22	120	95	X	210	X	9	6	130	X		
156	362155	5379190	220	16	145	100	X	200	X	9	4	150	X		
157	362625	5377980	24	28	165	80	X	X	X	16	2	175	X		
158	362600	5377980	10	19	40	16	X	6	X	6	X	125	X		
159	362795	5378195	46	26	105	50	X	X	X	14	9	115	X		
160	362810	5378180	12	16	62	16	X	4	X	9	X	115	X		
161	362860	5378345	30	12	115	60	X	X	X	12	X	135	X		
162	362870	5378320	10	12	40	14	X	6	X	8	6	110	X		
163 SS	363370	5378560	7	10	36	12	X	X	X	8	9	100	X		
164 PC	363370	5378560	6	8	36	16	X	55	X	7	4	65	X	X	
165	363495	5378480	X	X	14	8	X	65	X	2	X	75	X		
166 PC	363410	5378460	16	14	240	55	X	880	X	X	10	30	X	X	
167 SS	363410	5378460	19	18	135	46	X	60	X	7	9	85	X		
168	363230	5378340	44	10	95	80	X	10	X	5	X	70	X		
169	363220	5378360	39	26	220	75	X	8	X	12	X	115	X		
170	363100	5377990	36	36	85	46	X	4	X	19	4	105	X		

Instructions to Analyst: See FSDS 10156

Results to:



FIELD SAMPLE DESPATCH SHEET

10159

State TAS Project PARSONS HOOD Prospect No. 7611/7602 Locality REGIONAL/CAROLINE
 CSR Order No. 44471 Date Sampled FEB 86 Sampler PDE/KEW/B.D/A.R
 Date Despatched 17/2/86 Despatcher PDE Despatched per SLYROADS
 Type of Sample RAIL CORE / PANNED CONCENTRATE / STREAM SEDIMENT
 Lab. Name COMLABS

Sample Number Co-ordinates	From	To	Chemical Analyses (ppm or %)					Sn	W	As	Remarks	Ba	Ag	Au
	E/W	N/S	Cu	Pb	Zn	Ni	Pi							
A162171	363070	5377890	34	34	230	70	X	X	X	18	X	160	X	
172	362970	5377810	42	18	140	95	X	X	X	22	9	195	X	
173	362980	5377800	22	28	170	44	X	X	X	12	6	95	X	
174	362965	5377585	6	6	12	X	X	6	X	6	4	40	X	
175	362990	5377590	18	34	230	32	X	6	X	9	6	100	X	
176	363015	5377580	19	36	175	44	X	4	X	20	4	165	X	
177	362000	5377490	10	20	90	18	X	4	X	9	X	105	X	
178	363020	5377480	4	10	14	4	X	X	X	2	4	65	X	
179	362000	5377450	7	8	8	2	X	6	X	5	4	50	X	
180	STD	6'	190	14	130	50	22	10	90	9	10	400	X	
181	STD	5'	115	12	110	55	18	4	35	18	9	450	X	
182	STD	12	6	4	3	X	X	65	X	7	X	20	X	
183	STD	11	7	4	5	X	X	15	X	X	X	30	X	
184	STD	9	3	X	3	X	X	10	X	3	X	20	X	
A161924	DDM CW1	170'-171'	60	44	100	165	X	6	X	20	6	240	X	X
930	"	171'-181'	105	90	340	470	X	9	X	95	12	95	X	X
931	"	181'-187'	36	22	110	420	X	X	X	7	X	15	X	X
932	"	187'-195'6"	32	8	75	870	X	X	X	2	6	160	X	X
933	"	195'6"-202'6"	125	450	2350	240	X	18	X	32	20	175	1	X
934	"	202'6"-210'	60	420	2050	190	X	10	X	24	4	210	X	X
A161938	DDM-CW2	320'-321'	30	14	200	120	X	6	X	7	8	90	X	X
934	"	321'-323'	30	12	200	100	X	X	X	5	X	95	X	X
940	"	323'-345'	55	6	135	75	X	X	X	8	10	260	X	X
941	"	345'-354'	34	42	610	240	X	10	X	9	10	40	X	X
942	"	354'-378'	18	940	3450	180	X	24	10	X	10	95	1	X
943	"	404'-420'	12	270	620	210	X	10	X	6	8	50	X	X
944	"	420'-430'	55	10	145	90	X	X	X	6	4	90	X	X
A161950	STD	1H'	85	10	38	55	4	12	40	16	12	250	X	0.02
A162185	STD	1B	4	X	2	X	X	1.44	25	X	X	10	X	
186	STD	1B	2	X	4	X	X	510	10	X	X	X	X	
187	STD	10	3	X	3	X	X	50	X	X	6	15	X	
188	STD	6'	185	10	125	50	16	6	90	9	X	380	X	
189	STD	12	5	4	3	X	X	60	X	X	X	10	X	
190	STD	7'	65	24	26	18	X	8	20	18	X	240	X	
191	STD	17	2	X	3	X	X	7150	10	X	6	10	X	
192	STD	14	3	X	2	X	X	1000	X	X	8	15	X	

Instructions to Analyst: SEE FIELD SAMPLE DESPATCH SHEET 10156

Results to:

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

000000

025

APPENDIX II
WACKER BEDROCK SAMPLE ANALYSES,
SOUTH PIEMAN GRID



FIELD SAMPLE DESPATCH SHEET

17040

Project No. 7611 Project Name PARSONS HILL - SOUTH PLAIN Date Required 30/6/86

Date Despatched 12/6/86 Despatcher P.P. ELLIS Despatched per ANSETT

CSR Order No. 44487 Consignment No. E759234

Lab Name COMLABS

Preparation Method PULVERISE TOTAL SAMPLE (PREP)

Element(s)/Method SEE FIELD LAB SAMPLE DESPATCH SHEET ATTACHED

Cu, Pb, Zn, Ni, Bi: AAS 1, As, Ba, Si, Mn: XRF 1 Ag: AAS 3

CSR SAMPLE NUMBER	FIELD NUMBER	SAMPLE TYPE	CONTROL TYPE	SAMPLE DESCRIPTION	ORIGINAL NUMBER	SAMPLE WEIGHT SUBMITTED
A11846117		BR		1600N1025E		
6118		"		1050E		
6119		"		1075E		
6120		"		1100E		
6121		"		1125E		
6122		"		1150E		
6123		"		1175E		
6124		"		1200E		
6125		"		1225E		
6126		"		1250E		
6127		"		1275E		
6128		"		1300E		
6129		"		1325E		
6130		CLST	STD 9X16			
6131		BR		1600N1350E		
6132		"		1375E		
6133		"		1400E		
6134		"		1425E		
6135		"		1450E		
6136		"		1475E		
6137		"		1500E		
6138		"		1525E		
6139		"		1550E		
6140		CLST	STD 6X14			
6141		BR		1600N1575E		
6142		"		1600E		
6143		"		1625E		
6144		"		1650E		
6145		"		1675E		
6146		"		1700E		
6147		"		1725E		
6148		"		1750E		
6149		BR		1750E		
6150		CLBL	1200MIXTURE SAND			
A11471101		BR		1400N1800E		
7102		"		1825E		
7103		"		1850E		
7104		"		1875E		
7105		"		1900E		
7106		"		1925E		

027

982028



FIELD SAMPLE DESPATCH SHEET

17041

Project No. 7611 Project Name PARSONS HEAD - PIEMAN SOUTH Date Required / /

Date Despatched / / Despatcher _____ Despatched per _____

CSR Order No. 46487 Consignment No. _____

Lab Name _____

Preparation Method _____

Element(s)/Method SEE FIELD SAMPLE DESPATCH SHEET 17041

CSR SAMPLE NUMBER	FIELD NUMBER	SAMPLE TYPE	CONTROL TYPE	SAMPLE DESCRIPTION	ORIGINAL NUMBER	SAMPLE WEIGHT SUBMITTED
A11471107		BR		1400N1725E		
71108		"		1700E		
71109		"		1675E		
71110		"		1650E		
71111		"		1625E		
71112		"		1600E		
71113		"		1575E		
71114		"		1550E		
71115		"		1525E		
71116		"		1500E		
71117		"		1475E		
71118		"		1450E		
71119		"		1425E		
7120		"		1400E		
7121		"		1375E		
7122		CL	ST STD	GX12A		
7123		BR		1400E1350E		
7124		"		1325E		
7125		"		1300E		
7126		"		1275E		
7127		"		1250E		
7128		"		1225E		
7129		"		1200E		
7130		"		1175E		
7131		"		1150E		
7132		CL	ST STD	GX6		
7133		BR		1400N1125E		
7134		"		1100E		
7135		"		1075E		
7136		"		1050E		
7137		"		1200N1375E		
7138		"		1350E		
7139		"		1325E		
7140		CL	ST STD	GX9		
7141		BR		1200E1300E		
7142		"		1275E		
7143		"		1250E		
7144		"		1225E		
7145		"		1200E		
7146		"		1175E		

028



982029

FIELD SAMPLE DESPATCH SHEET

17042

Project No. 7611 Project Name PARSONS MOUND - SOUTH PIEMAN Date Required / /
 Date Despatched / / Despatcher Despatched per
 CSR Order No. 44487 Consignment No.
 Lab Name

Preparation Method
 Element(s)/Method SEE FIELD SAMPLE DESPATCH SHEET 17042

CSR SAMPLE NUMBER	FIELD NUMBER	SAMPLE TYPE	CONTROL TYPE	SAMPLE DESCRIPTION	ORIGINAL NUMBER	SAMPLE WEIGHT SUBMITTED
A11171147		BR		1,200N, 1,150E		
71148		"		1,125E		
71149		"		1,100E		
71150		CLST	STD	6X12A		
A11841106		BR		1,200N, 1,075E		
41107		"		1,050E		
41108		"		1,025E		
41109		"		1,000E		
41110		"		0,975E		
41111		"		0,950E		
41112		"		1,425E		
41113		"		1,450E		
41114		"		1,475E		
41115		"		1,500E		
41116		"		1,525E		
41117		"		1,550E		
41118		"		1,575E		
41119		"		1,600E		
41120		"		1,625E		
41121		CLBL	SAND			
41122		BR		1,200N, 1,650E		
41123		"		1,675E		
41124		"		1,700E		
41125		"		1,725E		
41126		"		1,750E		
41127		"		1,775E		
41129		"		1,800E		
41129		"		1,825E		
41130		"		1,850E		
41131		"		1,875E		
41132		"		1,900E		
41133		"		1,925E		
41134		"		1,950E		
41135		"		1,000N, 1,900E		
41136		"		1,875E		
41137		"		1,850E		
41138		"		1,825E		
41139		"		1,800E		
41140		CLST	STD	6X17		
41141		BR		1,000N, 1,775E		



FIELD SAMPLE DESPATCH SHEET

17043

Project No. 7611 Project Name PARSONS HOOD - SOUTH TRENAN Date Required / /

Date Despatched / / Despatcher _____ Despatched per _____

CSR Order No. 46487 Consignment No. _____

Lab Name _____

Preparation Method _____

Element(s)/Method SEE FIELD SAMPLE DESPATCH SHEET 17043

CSR SAMPLE NUMBER	FIELD NUMBER	SAMPLE TYPE	CONTROL TYPE	SAMPLE DESCRIPTION	ORIGINAL NUMBER	SAMPLE WEIGHT SUBMITTED
A1841142		BR		1000N1750E		
4143		"		1725E		
4144		"		1700E		
4145		"		1675E		
4146		"		1650E		
4147		"		1625E		
4148		"		1600E		
4149		"		1575E		
4150		CLST	STD	GX15		
A184013		BR		1000N1550E		
014		"		1525E		
015		"		1500E		
016		"		1475E		
017		"		1450E		
018		"		1425E		
019		"		1400E		
020		"		1375E		
021		"		1350E		
022		"		1325E		
023		"		1300E		
024		"		1275E		
025		"		1250E		
026		"		1225E		
027		"		1200E		
028		"		1175E		
029		"		1150E		
030		CLBL	SAND	1125E		
031		BR		1000N1125E		
032		"		1100E		
033		"		1075E		
034		"		1050E		
035		"		1025E		
036		"		1000E		
037		"		0975E		
038		"		0800N1200E		
039		"		1225E		
040		CLST	STD	GX11		
041		BR		0800N1250E		
042		"		1275E		
043		"		1300E		



FIELD SAMPLE DESPATCH SHEET

17044

Project No. 7611 Project Name PARSONS HOOD - SOUTH PREMISE Date Required / /

Date Despatched / / Despatcher _____ Despatched per _____

CSR Order No. 44487 Consignment No. _____

Lab Name _____

Preparation Method _____

Element(s)/Method SIELE FIELD SAMPLE DESPATCH SHEET 17044

CSR SAMPLE NUMBER	FIELD NUMBER	SAMPLE TYPE	CONTROL TYPE	SAMPLE DESCRIPTION	ORIGINAL NUMBER	SAMPLE WEIGHT SUBMITTED
A184044		BR		080.0N1325E		
045		"		1350E		
046		"		1375E		
047		"		1400E		
048		"		1425E		
049		"		1425E		
050		CLST	SITD 6X12			
A184061		BR		080.0N1450E		
062		"		1475E		
063		"		1500E		
064		"		1525E		
065		"		1525E		
066		"		1550E		
067		"		1575E		
068		"		1600E		
069		"		1625E		
070		"		1650E		
071		"		1675E		
072		"		1700E		
073		CLST	SITD 6X17			
074		BR		080.0N1725E		
075		"		1750E		
076		"		1775E		
077		"		1800E		
078		"		1825E		
079		"		1850E		
080		"		1875E		
081		"		1900E		
082		"		1925E		
083		"		1950E		
084		"		1975E		
085		CLST	SITD 6X14			
086		BR		080.0N2000E		
087		"		060.0N1875E		
088		"		1850E		
089		"		1825E		
090		"		1800E		
091		"		1775E		
092		"		1750E		
093		"		1725E		



982032

FIELD SAMPLE DESPATCH SHEET

17045

Project No. 7611 Project Name PARSONS HOOD - SOUTH PIETMAN Date Required / /

Date Despatched / / Despatcher _____ Despatched per _____

CSR Order No. 44487 Consignment No. _____

Lab Name _____

Preparation Method _____

Element(s)/Method SIEE FIELD SAMPLE DESPATCH SHEET 17045

CSR SAMPLE NUMBER	FIELD NUMBER	SAMPLE TYPE	CONTROL TYPE	SAMPLE DESCRIPTION	ORIGINAL NUMBER	SAMPLE WEIGHT SUBMITTED
A1814094		BR		0600M1700E		
095		"		1675E		
096		"		1650E		
097		"		1625E		
098		"		1600E		
099		CLBL	STAND.			
100		BR		0600M1575E		
A183836		"		1550E		
837		"		1525E		
838		"		1500E		
839		"		1475E		
840		"		1450E		
841		"		1425E		
842		CLST	STD. GX16			
843		BR		0600N1400E		
844		"		1375E		
845		"		1350E		
846		"		1325E		
847		"		1300E		
848		"		0400N1475E		
849		"		1450E		
850		CLST	STD. GX11			
A183976		BR		0400N1425E		
977		"		1400E		
978		"		1375E		
979		"		1350E		
980		"		1325E		
981		"		1300E		
982		"		1275E		
983		"		1250E		
984		"		1225E		
985		"		1200E		
986		"		1155E		
987		"		0200M1175E		
988		"		1200E		
989		"		1225E		
990		"		1250E		
991		"		1275E		
992		"		1300E		
993		"		1325E		

032

982033



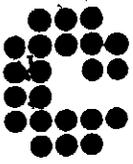
FIELD SAMPLE DESPATCH SHEET

17046

Project No. 7611 Project Name PARSONS HOOD - SOUTH PLIMAN Date Required / /
 Date Despatched / / Despatcher _____ Despatched per _____
 CSR Order No. 14487 Consignment No. _____
 Lab Name _____

Preparation Method _____
 Element(s)/Method SEE FIELD SAMPLE DESPATCH SHEET 17046

CSR SAMPLE NUMBER	FIELD NUMBER	SAMPLE TYPE	CONTROL TYPE	SAMPLE DESCRIPTION	ORIGINAL NUMBER	SAMPLE WEIGHT SUBMITTED
A1839941		BR		02.00M1350E		
995		"		1375E		
996		"		1400E		
997		"		1425E		
998		CL BL SAND				
999		BR		02.00M1450E		
4000		"		1475E		
A161011		"		1500E		
012		"		1525E		
013		"		1550E		
014		"		1575E		
015		"		1600E		
016		"		1625E		
017		"		1650E		
018		"		1675E		
019		"		1700E		
020		"		1725E		
021		"		1750E		
022		"		1775E		
023		"		04.00N1800E		
024		"		1775E		
025		"		1750E		
026		"		1725E		
027		"		1700E		
028		"		1675E		
029		"		1650E		
030		"		1625E		
031		"		1600E		
032		"		1575E		
033		"		1550E		
034		"		1525E		
035		"		1500E		
036		CL STD 6x13				
037		CL STD 6x6				



033

982034

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305 South Road, Mile End South, South Australia 5031 Telephone (08) 43 5722 Telex LABCOM AA89323

COM860895

44487

Mr. Peter Ellis
CSR Minerals Limited
35 East Derwent Highway
LIDISFARNE

TAS 7015

June 27, 1986

Dear Peter,

RE: JOB COM860895

Enclosed are the assays for the samples delivered to our
Laboratory on June 13, 1986

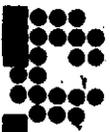
Yours Sincerely,
COMLABS PTY LTD

per :

c.c.: CSR - Sydney

No. of copies : 1

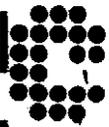
Report Length 28 pages



ANALYTICAL REPORT

JOB COM860895
O/N : 44487

SAMPLE	Cu	Pb	Zn	Ni	Bi	Ag	
A 184377	12	24	290	140	22	<1	225
A 184378	65	26	125	100	22	<1	200
A 184379	75	30	250	140	30	<1	175
A 184380	70	22	140	100	22	<1	150
A 162180	34	26	95	100	22	<1	5364400 N 850E
A 162181	46	24	125	80	16	<1	825E
A 162182	26	18	70	55	20	<1	800
A 162183	40	10	650	185	6	<1	
A 162184	38	360	1950	70	26	<1	
A 162185	12	220	910	42	12	<1	
A 162186	7	75	280	10	120	<1	
A 162187	7	44	90	12	110	<1	825E
A 162188	8	30	24	8	105	<1	
A 162189	10	145	520	20	80	<1	
A 162190	9	28	70	12	75	<1	
A 162191	7	44	130	10	85	<1	
A 162192	7	50	34	12	75	<1	
A 162193	7	24	14	6	120	<1	
A 162194	6	26	32	10	95	<1	
A 162195	30	85	150	65	12	<1	
A 162196	5	10	14	10	<4	<1	825E
A 162197	18	85	185	38	12	<1	
A 162198	24	140	600	26	14	<1	
A 162199	6	85	195	10	130	<1	
A 162200	145	20	125	42	32	<1	STD 6
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	
SCHEME	AAS1	AAS1	AAS1	AAS1	AAS1	AAS3	



ANALYTICAL REPORT

JOB COM860895
O/N : 44487

SAMPLE	Cu	Pb	Zn	Ni	Bi	Ag	
A 162251	9	26	5	10	75	<1	5364000N 550E
A 162252	4	24	4	8	110	<1	525E
A 162253	12	36	80	32	12	<1	
A 162254	8	36	60	20	55	<1	
A 162255	10	190	2050	30	50	<1	
A 162256	5	155	980	8	85	<1	
A 162257	20	100	610	40	<4	<1	
A 162258	5	38	55	16	85	<1	525E
A 162259	14	470	3150	190	8	2	
A 162260	18	210	950	34	22	1	
A 162261	28	540	5350	310	10	<1	
A 162262	75	22	330	100	10	<1	
A 162263	44	12	140	50	10	<1	
A 162264	46	36	150	50	<4	<1	
A 162265	2	4	6	<4	<4	<1	STD 14
A 162266	3	6	<2	<4	<4	<1	STD 16
A 162293	2	6	16	<4	<4	<1	BLANK
A 162294	2	6	22	<4	<4	<1	BLANK
A 162295	65	48	115	36	<4	<1	5364000N 875E
A 162296	48	20	175	85	8	<1	850
A 162297	40	16	150	75	4	<1	
A 162298	26	20	170	110	16	<1	
A 162299	65	14	75	42	8	<1	
A 162300	22	18	175	110	12	4	
A 184230	80	24	140	80	8	<1	
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	
SCHEME	AAS1	AAS1	AAS1	AAS1	AAS1	AAS3	



ANALYTICAL REPORT

JOB COM860895
O/N : 44487

SAMPLE	Cu	Pb	Zn	Ni	Bi	Ag
A 184231	38	22	135	75	<4	<1
A 184232	150	20	165	115	10	<1
A 184233	65	16	200	85	12	<1
A 184234	34	18	135	75	6	<1
A 184235	48	14	85	50	<4	<1
A 184236	170	14	105	90	10	<1
A 184237	26	18	200	130	10	<1
A 184238	65	20	145	50	14	<1
A 184239	24	135	430	46	18	<1
A 184240	8	260	1900	85	40	3
A 184241	14	150	820	160	32	2
A 184242	7	42	210	65	60	1
A 184243	7	44	200	14	85	<1
A 184244	5	36	160	10	100	<1
A 184245	16	370	1850	90	55	4
A 184246	7	48	260	16	65	<1
A 184247	90	390	810	190	10	<1
A 184248	7	50	160	10	60	<1
A 184249	20	140	530	60	30	<1
A 184250	3	4	14	<4	<4	<1
<hr/>						
A 184617	24	12	28	22	10	<1
A 184618	20	12	22	20	4	<1
A 184619	16	22	65	32	8	<1
A 184620	18	32	46	24	6	<1
A 184621	16	26	50	32	10	<1
UNITS	ppm	ppm	ppm	ppm	ppm	ppm
SCHEME	AAS1	AAS1	AAS1	AAS1	AAS1	AAS3

STD 16.
PARSONS HCOI
1600N 1025E
1050

037

982038

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ANALYTICAL REPORT

 JOB COM860895
 O/N : 44487

SAMPLE	Cu	Pb	Zn	Ni	Bi	Ag
A 184622	14	26	70	18	6	<1
A 184623	20	34	44	20	10	<1
A 184624	30	26	95	46	8	<1
A 184625	10	18	50	16	6	<1
A 184626	9	16	46	10	4	<1
A 184627	32	38	70	34	12	<1
A 184628	24	105	115	22	14	<1
A 184629	24	32	75	26	6	<1
A 184630	4	4	5	<4	4	<1 <i>STD 16</i>
A 184631	18	22	34	55	6	<1
A 184632	22	26	46	26	8	<1
A 184633	16	24	70	30	12	<1
A 184634	12	24	38	16	8	<1
A 184635	42	30	65	20	10	<1
A 184636	9	10	32	12	4	<1
A 184637	18	18	180	140	12	<1
A 184638	55	22	130	60	12	<1
A 184639	26	130	480	55	6	<1
A 184640	10	300	1950	90	32	2 <i>STD 14</i>
A 184641	16	160	880	170	22	1
A 184642	7	38	210	70	55	2
A 184643	8	48	180	20	90	1
A 184644	4	36	150	14	90	<1
A 184645	16	380	1800	100	46	3
A 184646	8	46	130	16	50	<1
UNITS	ppm	ppm	ppm	ppm	ppm	ppm
SCHEME	AAS1	AAS1	AAS1	AAS1	AAS1	AAS3

038

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ANALYTICAL REPORT

 JOB COM860895
 O/N : 44487

SAMPLE	Cu	Pb	Zn	Ni	Bi	Ag
A 184647	95	400	630	210	6	<1
A 184648	7	70	220	14	55	<1
A 184649	20	150	500	70	24	<1 1750E 1750E
A 184650	3	4	<2	<4	<4	<1 BLANK.
A 147101	110	28	80	38	16	<1 1400N 1775E
A 147102	14	18	36	44	8	<1 1750
A 147103	16	14	42	34	12	<1
A 147104	9	20	38	34	10	<1
A 147105	8	20	44	18	6	<1
A 147106	3	10	12	12	<4	<1
A 147107	90	18	70	70	22	<1
A 147108	120	26	55	90	24	<1
A 147109	135	26	70	115	30	<1
A 147110	26	18	28	46	20	<1
A 147111	115	20	26	90	22	<1
A 147112	90	22	32	70	20	<1
A 147113	140	20	32	90	26	2
A 147114	110	700	50	90	20	1
A 147115	38	250	32	26	8	<1
A 147116	38	180	<2	24	<4	<1
A 147117	30	36	50	36	6	<1
A 147118	22	40	38	30	<4	<1
A 147119	22	65	28	22	<4	<1
A 147120	36	32	18	26	6	<1
A 147121	36	24	24	24	4	<1
UNITS	ppm	ppm	ppm	ppm	ppm	ppm
SCHEME	AAS1	AAS1	AAS1	AAS1	AAS1	AAS3

033

982040



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ANALYTICAL REPORT

JOB COM860895
O/N : 44487

SAMPLE	Cu	Pb	Zn	Ni	Bi	Ag	
A 147122	10	26	12	6	<4	<1	STD 12A
A 147123	44	28	36	55	12	<1	
A 147124	85	38	120	85	16	<1	
A 147125	105	20	105	125	16	<1	
A 147126	75	65	60	60	18	<1	
A 147127	55	16	24	34	12	<1	
A 147128	85	20	26	36	12	<1	
A 147129	75	14	24	40	6	<1	
A 147130	38	30	32	22	6	<1	
A 147131	30	36	70	34	10	<1	
A 147132	170	20	130	46	26	<1	STD 6
A 147133	18	18	46	20	4	<1	
A 147134	12	38	20	18	<4	<1	
A 147135	14	12	22	30	<4	<1	
A 147136	16	14	30	26	<4	<1	1050
A 147137	14	135	16	12	<4	2	1200 1375C
A 147138	28	14	16	36	4	<1	1200 N 1375C
A 147139	28	26	14	28	<4	<1	1325
A 147140	5	6	5	6	<4	<1	STD 9
A 147141	60	18	65	55	12	<1	
A 147142	32	36	24	28	12	1	
A 147143	60	46	20	30	10	<1	
A 147144	60	16	18	24	4	<1	
A 147145	60	20	24	60	14	<1	
A 147146	60	44	30	32	6	<1	
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	
SCHEME	AAS1	AAS1	AAS1	AAS1	AAS1	AAS3	

040

982041



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ANALYTICAL REPORT

 JOB COM860895
 O/N : 44487

SAMPLE	Cu	Pb	Zn	Ni	Bi	Ag	
A 147147	115	26	36	18	6	<1	
A 147148	65	20	70	32	8	<1	
A 147149	9	14	10	8	<4	<1	
A 147150	10	24	12	10	6	<1	STD 12A
A 184106	10	14	14	14	<4	<1	
A 184107	26	10	8	22	<4	<1	
A 184108	85	75	12	12	4	<1	
A 184109	10	320	55	40	<4	<1	
A 184110	34	30	55	8	<4	<1	
A 184111	18	26	42	18	6	<1	1200N 950E
A 184112	26	18	36	34	<4	<1	1200N 1025E
A 184113	16	28	24	18	<4	<1	1450E
A 184114	14	18	14	18	<4	<1	
A 184115	38	28	18	24	6	<1	
A 184116	16	32	12	24	<4	<1	
A 184117	24	24	20	24	4	<1	
A 184118	22	22	18	20	6	<1	
A 184119	44	34	32	34	6	<1	
A 184120	30	20	32	22	4	<1	
A 184121	4	6	22	6	<4	<1	BLANK
A 184122	34	30	38	28	8	<1	
A 184123	42	16	34	44	10	<1	
A 184124	38	160	28	65	10	<1	
A 184125	100	24	70	50	16	<1	
A 184126	130	55	75	30	22	<1	
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	
SCHEME	AAS1	AAS1	AAS1	AAS1	AAS1	AAS3	

041

982042



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ANALYTICAL REPORT

JOB COM860895

O/N : 44487

SAMPLE	Cu	Pb	Zn	Ni	Bi	Ag
A 184127	90	24	115	60	22	<1
A 184128	240	18	210	105	26	2
A 184129	145	20	65	44	38	1
A 184130	175	120	115	70	28	2
A 184131	210	60	170	125	24	3
A 184132	20	22	70	70	4	<1
A 184133	10	16	55	38	4	<1
A 184134	8	18	28	16	<4	<1
A 184135	165	46	60	46	16	1
A 184136	165	26	75	145	22	2
A 184137	230	18	42	28	10	<1
A 184138	140	170	85	55	32	1
A 184139	85	60	50	28	22	<1
A 184140	5	4	8	4	<4	<1
A 184141	130	60	30	20	24	<1
A 184142	85	125	24	28	20	<1
A 184143	34	980	16	38	4	<1
A 184144	26	50	30	26	14	<1
A 184145	60	34	42	34	14	<1
A 184146	14	16	18	20	8	<1
A 184147	40	30	22	36	12	<1
A 184148	26	20	32	22	12	<1
A 184149	50	26	50	40	12	<1
A 184150	7	4	5	<4	<4	<1
A 184013	32	34	22	48	4	<1
UNITS	ppm	ppm	ppm	ppm	ppm	ppm
SCHEME	AAS1	AAS1	AAS1	AAS1	AAS1	AAS3

1955E

1000N 1900E

1875

STD 17

STD 15

042

982043

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ANALYTICAL REPORT

JOB COM860895

O/N : 44487

SAMPLE	Cu	Pb	Zn	Ni	Bi	Ag
A 184014	12	20	9	14	<4	<1
A 184015	28	48	8	16	<4	<1
A 184016	110	18	350	28	4	<1
A 184017	130	18	290	780	12	1
A 184018	85	18	210	980	18	<1
A 184019	16	18	44	20	4	<1
A 184020	44	20	8	12	<4	<1
A 184021	90	20	95	55	12	1
A 184022	18	110	14	6	<4	<1
A 184023	20	16	12	8	4	<1
A 184024	100	32	75	22	10	<1
A 184025	80	34	36	30	16	<1
A 184026	65	24	44	20	10	<1
A 184027	590	26	170	95	24	<1
A 184028	135	20	50	44	12	<1
A 184029	75	16	60	42	10	<1
A 184030	6	6	26	4	<4	<1
A 184031	165	20	85	70	10	<1
A 184032	60	32	46	22	4	<1
A 184033	60	26	30	44	20	<1
A 184034	16	24	14	14	4	<1
A 184035	22	18	5	10	<4	<1
A 184036	6	14	8	12	4	<1
A 184037	12	14	12	16	<4	<1
A 184038	55	22	24	32	12	<1
UNITS	ppm	ppm	ppm	ppm	ppm	ppm
SCHEME	AAS1	AAS1	AAS1	AAS1	AAS1	AAS3

BLANK

1000N 0975C

0800N 1200C

043

982044

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ANALYTICAL REPORT

JOB COM860895
O/N : 44487

SAMPLE	Cu	Pb	Zn	Ni	Bi	Ag
A 184039	40	16	24	40	6	<1 <i>800N 12256</i>
A 184040	7	6	4	6	<4	<1 <i>6x11</i>
A 184041	24	14	22	26	6	<1
A 184042	115	22	80	70	12	<1
A 184043	70	28	95	90	10	1
A 184044	16	14	42	16	<4	<1
A 184045	18	12	24	4	<4	1
A 184046	44	80	24	34	6	<1
A 184047	22	18	10	40	<4	<1
A 184048	26	16	5	26	8	<1
A 184049	155	22	200	130	4	<1
A 184050	5	8	24	8	<4	<1 <i>STD 12</i>
A 184061	14	14	6	16	<4	<1
A 184062	195	34	75	48	20	<1
A 184063	28	10	10	26	<4	<1
A 184064	6	8	<2	14	<4	<1
A 184065	210	24	50	26	4	1
A 184066	50	32	12	16	8	1
A 184067	105	28	480	125	12	1
A 184068	220	115	310	90	12	2
A 184069	195	34	125	135	8	1
A 184070	670	75	14	85	10	1
A 184071	270	28	155	42	30	2
A 184072	175	24	60	30	24	1
A 184073	7	4	5	6	<4	<1 <i>STD 17</i>
UNITS	ppm	ppm	ppm	ppm	ppm	ppm
SCHEME	AAS1	AAS1	AAS1	AAS1	AAS1	AAS3

044

982045

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ANALYTICAL REPORT

JOB COM860895
O/N : 44487

SAMPLE	Cu	Pb	Zn	Ni	Bi	Ag	
A 184074	26	22	20	34	<4	1	
A 184075	140	18	55	85	16	1	
A 184076	145	20	105	90	10	2	
A 184077	140	28	105	105	12	2	
A 184078	24	34	55	34	12	1	
A 184079	210	26	220	130	20	2	
A 184080	26	26	42	22	4	1	
A 184081	16	18	26	20	8	<1	
A 184082	135	30	85	60	16	2	
A 184083	650	38	130	170	20	2	
A 184084	20	22	65	36	10	1	
A 184085	6	4	<2	<4	<4	<1	STD 14
A 184086	9	22	38	18	<4	1	0800N 2000E
A 184087	110	140	140	60	14	1	0600N 1875E
A 184088	390	8250	510	95	10	9	1850E
A 184089	115	890	175	90	14	1	
A 184090	20	42	105	90	10	1	
A 184091	135	30	110	125	10	1	
A 184092	85	18	85	100	10	1	
A 184093	65	16	115	90	16	1	
A 184094	80	22	105	75	16	2	
A 184095	110	18	90	120	10	2	
A 184096	115	12	75	70	6	1	
A 184097	115	30	105	60	12	1	
A 184098	150	18	200	195	12	1	
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	
SCHEME	AAS1	AAS1	AAS1	AAS1	AAS1	AAS3	



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ANALYTICAL REPORT

JOB COM860895
O/N : 44487

SAMPLE	Cu	Pb	Zn	Ni	Bi	Ag
A 184099	9	6	20	6	<4	<1 <i>BLANK</i>
A 184100	75	125	12	18	<4	1
A 183836	20	14	2	24	<4	<1
A 183837	7	4	2	10	<4	<1
A 183838	32	26	24	34	<4	1
A 183839	60	40	26	55	<4	1
A 183840	42	16	6	20	<4	1
A 183841	195	16	14	46	8	1
A 183842	5	<4	<2	8	<4	<1 <i>STD 16</i>
A 183843	100	38	135	80	16	1
A 183844	100	26	180	100	12	1
A 183845	100	22	165	105	6	1
A 183846	32	16	20	8	<4	<1
A 183847	28	20	8	16	<4	<1 <i>0.600N 1300E</i>
A 183848	100	18	60	38	10	1 <i>0.400E 1475E</i>
A 183849	80	24	50	46	4	1 <i>1450</i>
A 183850	14	6	5	6	<4	<1 <i>STD 11</i>
A 183976	135	24	34	28	12	1
A 183977	190	135	165	90	20	2
A 183978	125	34	110	65	20	1
A 183979	65	14	100	65	10	1
A 183980	105	14	360	115	14	1
A 183981	145	42	10	28	4	1
A 183982	175	30	12	42	4	<1
A 183983	32	80	18	12	<4	1
UNITS	ppm	ppm	ppm	ppm	ppm	ppm
SCHEME	AAS1	AAS1	AAS1	AAS1	AAS1	AAS3

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ANALYTICAL REPORT

 JOB COM860895
 O/N : 44487

SAMPLE	Cu	Pb	Zn	Ni	Bi	Ag	
A 183984	38	18	5	12	4	<1	
A 183985	38	14	16	14	4	1	
A 183986	12	30	8	8	<4	1	0.400N .153C
A 183987	12	36	18	20	6	1	0.200N .173E
A 183988	16	44	14	38	6	1	1200G
A 183989	38	22	36	50	<4	1	
A 183990	105	360	140	105	12	1	
A 183991	150	38	100	95	10	1	
A 183992	80	22	145	75	8	1	
A 183993	135	260	310	70	10	1	
A 183994	150	42	240	165	10	2	
A 183995	155	22	75	55	12	2	
A 183996	85	22	8	20	4	1	
A 183997	220	30	115	34	24	2	
A 183998	3	6	20	<4	<4	<1	BLANK
A 183999	175	16	110	55	10	1	
A 184000	150	18	500	85	10	1	
A 161011	105	20	115	38	20	2	
A 161012	95	40	44	18	10	1	
A 161013	110	155	250	115	26	2	
A 161014	120	36	42	48	18	2	
A 161015	125	18	48	65	16	2	
A 161016	130	34	30	95	12	2	
A 161017	150	26	55	95	16	2	
A 161018	180	20	120	170	14	2	
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	
SCHEME	AAS1	AAS1	AAS1	AAS1	AAS1	AAS3	

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ANALYTICAL REPORT

JOB COM860895

O/N : 44487

SAMPLE	Cu	Pb	Zn	Ni	Bi	Ag
A 161019	145	18	24	48	8	1
A 161020	200	20	65	85	12	1
A 161021	14	16	75	70	8	1
A 161022	38	20	90	100	10	1
A 161023	115	18	55	40	8	1
A 161024	175	18	85	75	6	2
A 161025	55	22	20	60	10	1
A 161026	10	20	175	130	14	1
A 161027	125	18	90	95	14	2
A 161028	200	70	110	135	16	2
A 161029	175	22	75	50	8	1
A 161030	165	22	80	65	14	2
A 161031	85	16	320	70	6	1
A 161032	240	22	135	26	10	1
A 161033	135	18	50	24	8	2
A 161034	90	18	330	42	<4	1
A 161035	55	65	85	65	4	1
A 161036	5	10	5	6	<4	<1
A 161037	160	16	120	50	8	1
UNITS	ppm	ppm	ppm	ppm	ppm	ppm
SCHEME	AAS1	AAS1	AAS1	AAS1	AAS1	AAS3

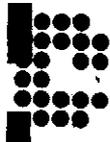
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1775E

STD 13

STD 6



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ANALYTICAL REPORT

JOB. COM860895
O/N : 44487

SAMPLE	As	Ba	Sn	W
A 184377	22	270	6	15
A 184378	6	230	4	25
A 184379	3	155	<4	<10
A 184380	7	220	<4	15
A 162180	7	220	<4	15
A 162181	5	155	8	30
A 162182	2	80	6	25
A 162183	28	35	4	20
A 162184	3	230	4	25
A 162185	42	105	<4	10
A 162186	5	30	4	15
A 162187	8	65	10	25
A 162188	5	70	<4	15
A 162189	18	80	<4	15
A 162190	4	100	6	10
A 162191	4	80	<4	10
A 162192	8	70	<4	15
A 162193	2	35	<4	<10
A 162194	6	65	12	15
A 162195	30	580	6	30
A 162196	6	55	6	10
A 162197	20	260	6	25
A 162198	10	300	8	25
A 162199	8	45	8	10
A 162200	10	450	12	115
UNITS	ppm	ppm	ppm	ppm
SCHEME	XRF1	XRF1	XRF1	XRF1

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ANALYTICAL REPORT

JOB COM860895
O/N : 44487

SAMPLE	As	Ba	Sn	W
A 162251	8	85	4	<10
A 162252	<2	40	<4	<10
A 162253	18	380	10	20
A 162254	16	170	<4	10
A 162255	20	115	<4	20
A 162256	<2	40	<4	<10
A 162257	32	230	<4	30
A 162258	12	25	<4	20
A 162259	<2	160	6	25
A 162260	26	195	<4	20
A 162261	40	240	<4	35
A 162262	16	250	4	25
A 162263	12	260	<4	15
A 162264	9	260	<4	15
A 162265	2	20	990	20
A 162266	6	15	1.49%	65
A 162293	4	45	<4	25
A 162294	4	40	4	25
A 162295	4	80	4	20
A 162296	7	175	6	25
A 162297	7	170	6	10
A 162298	8	130	4	20
A 162299	10	120	<4	25
A 162300	10	180	<4	10
A 184230	7	180	<4	15
UNITS	ppm	ppm	ppm	ppm
SCHEME	XRF1	XRF1	XRF1 XRF2	XRF1

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ANALYTICAL REPORT

JOB COM860895

O/N : 44487

SAMPLE	As	Ba	Sn	W
A 184231	4	190	<4	10
A 184232	7	175	10	25
A 184233	4	115	6	35
A 184234	8	130	4	10
A 184235	6	170	<4	15
A 184236	3	95	<4	15
A 184237	2	145	6	25
A 184238	4	175	<4	15
A 184239	10	290	8	20
A 184240	18	180	<4	30
A 184241	16	145	8	45
A 184242	4	75	8	15
A 184243	3	65	4	20
A 184244	2	80	4	15
A 184245	48	165	6	15
A 184246	<2	135	<4	25
A 184247	20	330	12	10
A 184248	9	155	14	10
A 184249	10	260	6	15
A 184250	5	15	1.45%	70



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ANALYTICAL REPORT

JOB COM860895
O/N : 44487

SAMPLE	As	Ba	Sn	W
A 184622	14	520	8	15
A 184623	18	480	<4	15
A 184624	7	310	<4	20
A 184625	8	470	4	15
A 184626	5	640	8	10
A 184627	12	600	6	30
A 184628	8	470	<4	25
A 184629	10	350	8	10
A 184630	6	15	1.48%	60
A 184631	12	290	4	20
A 184632	9	480	6	10
A 184633	18	560	4	<10
A 184634	7	660	10	20
A 184635	12	460	<4	20
A 184636	9	720	4	10
A 184637	7	640	<4	20
A 184638	7	810	4	20
A 184639	3	720	4	20
A 184640	4	10	1000	<10
A 184641	7	650	<4	10
A 184642	12	380	<4	15
A 184643	2	35	14	20
A 184644	10	90	4	<10
A 184645	18	120	<4	15
A 184646	6	690	<4	25
UNITS	ppm	ppm	ppm	ppm
SCHEME	XRF1	XRF1	XRF1 XRF2	XRF1

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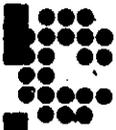
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ANALYTICAL REPORT

JOB COM860895

O/N : 44487

SAMPLE	As	Ba	Sn	W
A 184647	5	390	<4	10
A 184648	12	90	<4	15
A 184649	4	45	<4	10
A 184650	2	75	<4	15
A 147101	3	45	14	25
A 147102	5	580	<4	20
A 147103	18	400	<4	15
A 147104	10	540	<4	10
A 147105	7	550	<4	15
A 147106	3	700	8	10
A 147107	5	195	<4	<10
A 147108	6	125	<4	25
A 147109	16	100	<4	10
A 147110	3	145	6	20
A 147111	5	70	<4	10
A 147112	10	35	10	30
A 147113	4	45	<4	15
A 147114	<2	200	<4	10
A 147115	22	380	<4	10
A 147116	36	310	40	10
A 147117	6	200	8	20
A 147118	7	550	8	15
A 147119	9	210	16	15
A 147120	12	320	<4	20
A 147121	8	210	10	20
UNITS	ppm	ppm	ppm	ppm
SCHEME	XRF1	XRF1	XRF1	XRF1



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ANALYTICAL REPORT

JOB COM860895

O/N : 44487

SAMPLE	As	Ba	Sn	W
A 147122	<2	<10	300	35
A 147123	24	210	6	10
A 147124	30	370	<4	10
A 147125	8	310	6	10
A 147126	100	170	<4	15
A 147127	12	270	<4	20
A 147128	14	480	<4	15
A 147129	12	460	<4	25
A 147130	12	330	8	10
A 147131	16	410	4	15
A 147132	10	440	10	105
A 147133	8	360	<4	15
A 147134	8	260	<4	15
A 147135	4	280	6	10
A 147136	24	230	<4	10
A 147137	4	790	<4	15
A 147138	2	195	6	15
A 147139	6	165	18	30
A 147140	8	15	24	25
A 147141	8	100	8	15
A 147142	3	195	<4	10
A 147143	12	195	6	<10
A 147144	5	260	<4	10
A 147145	12	290	<4	15
A 147146	26	190	<4	20
UNITS	ppm	ppm	ppm	ppm
SCHEME	XRF1	XRF1	XRF1	XRF1

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ANALYTICAL REPORT

JOB COM860895

O/N : 44487

SAMPLE	As	Ba	Sn	W
A 147147	14	220	4	20
A 147148	18	220	<4	15
A 147149	9	340	6	10
A 147150	<2	<10	290	35
A 184106	8	140	20	25
A 184107	5	240	<4	15
A 184108	24	175	6	20
A 184109	<2	330	<4	20
A 184110	3	280	4	10
A 184111	7	290	10	15
A 184112	9	270	8	10
A 184113	8	200	<4	20
A 184114	7	230	4	20
A 184115	14	260	4	10
A 184116	10	250	4	10
A 184117	26	190	<4	10
A 184118	12	290	<4	15
A 184119	18	500	<4	10
A 184120	14	135	4	15
A 184121	5	45	<4	45
A 184122	18	210	<4	15
A 184123	16	190	50	10
A 184124	20	195	4	20
A 184125	7	190	<4	10
A 184126	22	110	<4	15
UNITS	ppm	ppm	ppm	ppm
SCHEME	XRF1	XRF1	XRF1	XRF1

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ANALYTICAL REPORT

JOB COM860895
O/N : 44487

SAMPLE	As	Ba	Sn	W
A 184127	2	65	6	25
A 184128	20	220	<4	15
A 184129	24	25	<4	<10
A 184130	6	40	<4	20
A 184131	5	35	<4	10
A 184132	8	660	8	15
A 184133	9	700	4	<10
A 184134	7	490	<4	10
A 184135	38	50	<4	15
A 184136	5	115	<4	10
A 184137	12	30	<4	<10
A 184138	22	210	4	<10
A 184139	7	60	6	10
A 184140	7	25	7050	75
A 184141	36	25	4	<10
A 184142	22	40	8	25
A 184143	5	250	<4	15
A 184144	16	470	16	15
A 184145	26	220	4	<10
A 184146	16	260	<4	10
A 184147	32	125	4	20
A 184148	24	145	6	<10
A 184149	24	200	6	25
A 184150	4	15	3000	20
A 184013	7	270	6	30
UNITS	ppm	ppm	ppm	ppm
SCHEME	XRF1	XRF1	XRF1	XRF1

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ANALYTICAL REPORT

JOB COM860895
O/N : 44487

SAMPLE	As	Ba	Sn	W
A 184014	<2	290	6	15
A 184015	6	200	6	15
A 184016	8	200	4	15
A 184017	8	30	<4	20
A 184018	8	50	8	10
A 184019	26	300	4	10
A 184020	8	240	6	20
A 184021	2	115	<4	20
A 184022	3	320	4	20
A 184023	8	260	4	15
A 184024	4	210	<4	20
A 184025	7	220	<4	20
A 184026	7	260	<4	<10
A 184027	16	85	6	<10
A 184028	3	125	<4	25
A 184029	16	195	6	20
A 184030	2	45	6	15
A 184031	4	280	6	10
A 184032	24	240	<4	20
A 184033	12	240	<4	40
A 184034	2	175	6	20
A 184035	9	25	<4	25
A 184036	7	300	6	10
A 184037	4	270	12	10
A 184038	3	300	10	20
UNITS	ppm	ppm	ppm	ppm
SCHEME	XRF1	XRF1	XRF1	XRF1

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ANALYTICAL REPORT

JOB COM860895

O/N : 44487

SAMPLE	As	Ba	Sn	W
A 184039	7	130	<4	15
A 184040	3	30	145	25
A 184041	12	130	34	10
A 184042	8	330	10	<10
A 184043	12	290	4	10
A 184044	16	320	<4	30
A 184045	16	260	12	10
A 184046	4	145	8	15
A 184047	10	90	4	<10
A 184048	4	30	<4	15
A 184049	22	40	<4	15
A 184050	2	25	65	15
A 184061	5	110	14	10
A 184062	90	70	10	15
A 184063	3	90	<4	<10
A 184064	5	75	<4	10
A 184065	16	190	8	25
A 184066	4	260	8	25
A 184067	20	160	<4	25
A 184068	8	130	<4	15
A 184069	12	270	<4	15
A 184070	30	195	<4	<10
A 184071	30	40	<4	<10
A 184072	7	45	20	15
A 184073	5	25	7200	45
UNITS	ppm	ppm	ppm	ppm
SCHEME	XRF1	XRF1	XRF1	XRF1

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ANALYTICAL REPORT

JOB COM860895
O/N : 44487

SAMPLE	As	Ba	Sn	W
A 184074	10	220	8	<10
A 184075	5	80	<4	15
A 184076	7	175	4	45
A 184077	5	270	8	<10
A 184078	3	370	12	25
A 184079	12	400	<4	25
A 184080	14	470	<4	15
A 184081	8	400	<4	25
A 184082	22	110	<4	20
A 184083	18	30	4	10
A 184084	14	610	8	15
A 184085	8	15	970	55
A 184086	7	600	12	15
A 184087	<2	240	<4	15
A 184088	<2	40	<4	40
A 184089	7	50	<4	10
A 184090	7	200	<4	15
A 184091	14	250	12	20
A 184092	5	300	<4	15
A 184093	9	200	<4	<10
A 184094	<2	195	4	10
A 184095	4	140	<4	<10
A 184096	<2	470	<4	10
A 184097	7	330	6	20
A 184098	6	300	10	20
UNITS	ppm	ppm	ppm	ppm
SCHEME	XRF1	XRF1	XRF1	XRF1



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ANALYTICAL REPORT

JOB COM860895
O/N : 44487

SAMPLE	As	Ba	Sn	W
A 184099	2	45	8	15
A 184100	20	85	18	20
A 183836	4	85	6	15
A 183837	6	75	6	<10
A 183838	6	195	<4	15
A 183839	7	240	8	15
A 183840	5	115	16	15
A 183841	12	165	6	15
A 183842	4	15	1.49%	60
A 183843	<2	360	4	15
A 183844	<2	85	<4	<10
A 183845	12	20	<4	10
A 183846	16	260	4	20
A 183847	3	350	<4	20
A 183848	16	190	6	15
A 183849	12	210	12	15
A 183850	<2	25	135	<10
A 183976	12	90	<4	15
A 183977	8	165	<4	<10
A 183978	10	200	10	25
A 183979	6	210	<4	10
A 183980	4	80	12	15
A 183981	36	240	6	<10
A 183982	28	250	<4	15
A 183983	12	260	<4	20
UNITS	ppm	ppm	ppm	ppm
SCHEME	XRF1	XRF1	XRF1 XRF2	XRF1



ANALYTICAL REPORT

JOB COM860895
O/N : 44487

SAMPLE	As	Ba	Sn	W
A 183984	10	155	4	20
A 183985	7	240	8	20
A 183986	<2	330	<4	15
A 183987	10	290	<4	<10
A 183988	60	380	10	20
A 183989	12	310	<4	35
A 183990	16	15	4	10
A 183991	14	290	4	20
A 183992	6	370	8	25
A 183993	2	180	8	<10
A 183994	34	150	6	40
A 183995	2	135	6	15
A 183996	2	230	6	<10
A 183997	8	70	6	10
A 183998	2	45	<4	10
A 183999	6	310	8	50
A 184000	<2	135	8	20
A 161011	4	130	<4	<10
A 161012	20	200	4	15
A 161013	3	40	<4	15
A 161014	6	100	14	20
A 161015	7	130	<4	30
A 161016	2	40	<4	<10
A 161017	10	70	<4	<10
A 161018	<2	70	<4	15
UNITS	ppm	ppm	ppm	ppm
SCHEME	XRF1	XRF1	XRF1	XRF1

061

982062

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ANALYTICAL REPORT

JOB COM860895

O/N : 44487

SAMPLE	As	Ba	Sn	W
A 161019	3	350	4	25
A 161020	3	115	<4	15
A 161021	5	270	6	<10
A 161022	7	270	<4	<10
A 161023	9	380	<4	30
A 161024	8	140	10	25
A 161025	3	210	<4	15
A 161026	<2	180	4	20
A 161027	16	125	<4	15
A 161028	10	70	10	10
A 161029	7	50	8	10
A 161030	10	70	10	25
A 161031	5	160	14	15
A 161032	10	50	<4	<10
A 161033	9	45	<4	15
A 161034	3	185	10	<10
A 161035	18	110	<4	<10
A 161036	<2	15	500	15
A 161037	7	420	12	105
UNITS	ppm	ppm	ppm	ppm
SCHEME	XRF1	XRF1	XRF1	XRF1

982063

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APPENDIX III

GROUND MAGNETIC READINGS,

SOUTH PIEMAN GRID

063

982064

SOUTH PIEMAN GRID
GEOMETRICS 816 - SN 565 - 30/6/86
ALONG ROAD

LINE	STATION	READING
200N	1425	62016
400N	1475	62000
600N	1475	61982
800N	1450	61965
1000N	1475	61928
1200N	1425	61919
1400N	1450	61943
1600N	1000	61866
200N	1425	62016
	1450	62007
	1475	62000
	1500	62001
	1525	61994
	1550	61981
	1575	61974
	1600	61970
	1625	61976
	1650	61984
	1675	62168
	1700	62087
	1725	61947
	1750	61936
	1775	61988
	1400	62023
	1375	62041
	1350	62034
	1325	62045
	1300	62061
	1275	62066
	1250	62072
	1225	62076
	1200	62096
	1175	62069
400N	1475	62000
	1500	61995
	1525	61985
	1550	61981
	1575	61964
	1600	61951
	1625	61941
	1650	61959
	1675	61969
	1700	61975
	1725	62100
	1750	62189
	1775	62108

064

982065

- 2 -

LINE	STATION	READING
400N	1800	62009
	1450	62014
	1425	62017
	1400	62026
	1375	62014
	1350	62005
	1325	62010
	1300	62022
	1275	62021
	1250	62026
	1225	62031
	1200	62035
600N	1475	61982
	1500	61981
	1525	61977
	1550	61973
	1575	61967
	1600	61959
	1625	61940
	1650	61911
	1675	61946
	1700	61897
	1725	61896
	1750	61715
	1775	61477
	1800	61842
	1825	61881
	1850	61863
	1875	61889
	1450	62001
1425	62009	
1400	62012	
1375	62008	
1350	62011	
1325	62027	
1300	62051	
800N	1450	61965
	1475	61950
	1500	61945
	1525	61937
	1550	61925
	1575	61916
	1600	61909
	1625	61897
	1650	61880
	1675	61860
	1700	61849
	1725	61879
1750	62185	
1775	62234	
1800	61917	

065

982066

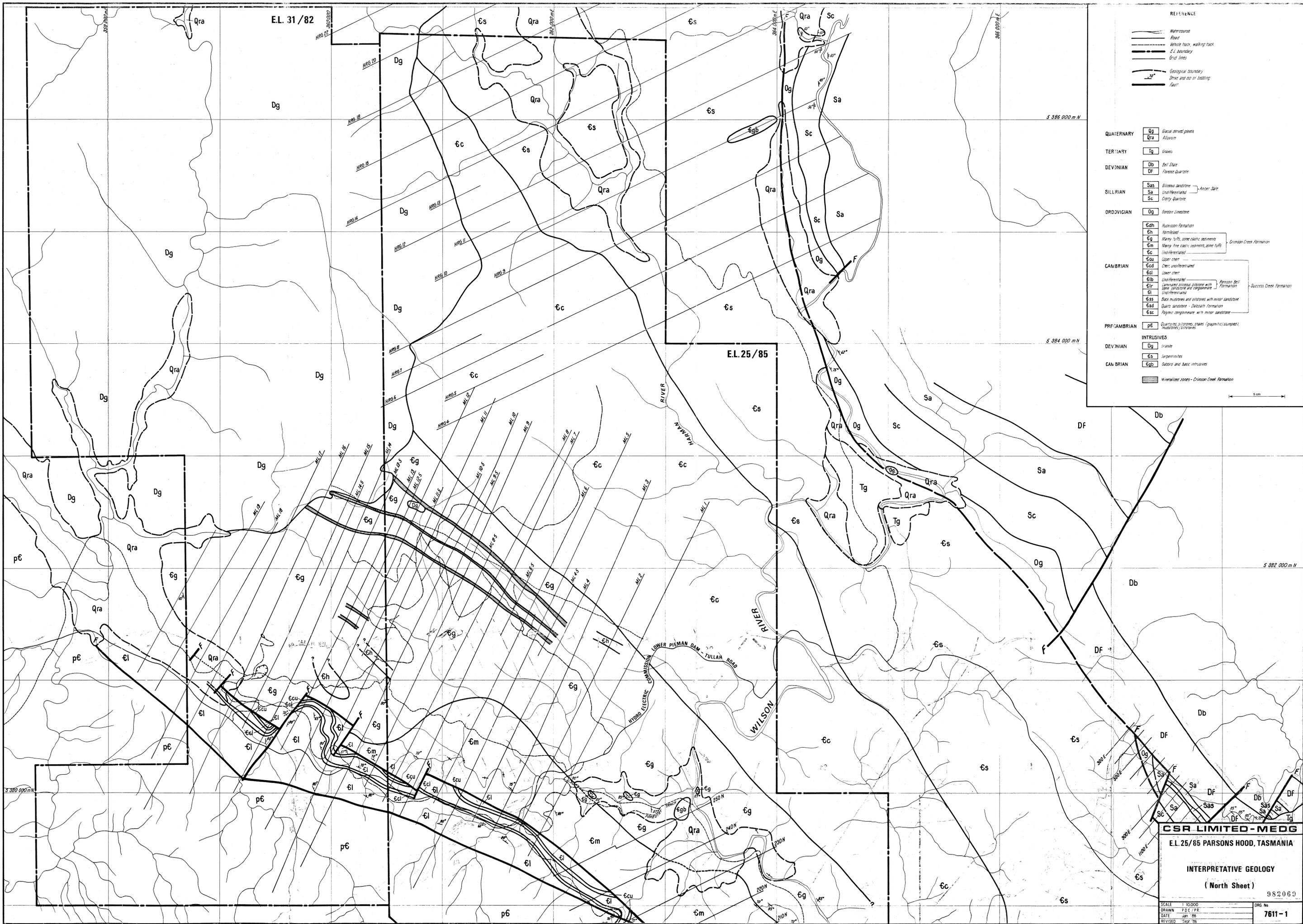
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800N	1825	61965
	1850	62153
	1875	61980
	1900	61998
	1925	61989
	1950	62025
	1975	62046
	2000	61987
	1425	61971
	1400	61978
	1375	61976
	1350	61973
	1325	61971
	1300	61941
	1275	61952
	1250	61949
1200	61962	
1000N	1475	61928
	1500	61921
	1525	61911
	1550	61906
	1575	61895
	1600	61889
	1625	61895
	1650	61897
	1675	61903
	1700	61906
	1725	61905
	1750	61901
	1775	61908
	1800	61934
	1825	62046
	1850	62016
	1875	61935
	1900	61902
	1450	61935
	1425	61939
	1400	61942
	1375	61956
	1350	61991
	1325	61977
1300	62031	
1275	62188	
1250	62019	
1225	62069	
1200	61969	
1175	61569	
1150	61899	
1125	61859	
1100	61909	
1075	61943	
1050	61943	

065

LINE	STATION	READING
1000N	1025	61961
	1000	61955
1200N	1425	61919
	1450	61918
	1475	61918
	1500	61911
	1525	61916
	1550	61901
	1575	61881
	1600	61887
	1625	61881
	1650	61889
	1675	61927
	1700	61925
	1725	61931
	1750	61899
	1755	61927
	1800	61927
	1825	61945
	1850	61926
	1875	61913
	1900	61909
	1925	61867
	1950	61880
	1975	61880
1400	61936	
1375	61953	
1350	61952	
1325	61954	
1300	61973	
1275	61950	
1250	62017	
1275	61897	
1200	61935	
1175	62004	
1150	61893	
1125	61901	
1100	61922	
1075	61937	
1050	61940	
1025	61959	
1000	61958	
1400N	1450	61943
	1475	61898
	1500	61863
	1525	61808
	1550	61771
	1575	61752
	1600	61720
1625	61936	
1650	61831	

067

LINE	STATION	READING
1400N	1675	61841
	1700	61826
	1725	61897
	1750	62000
	1775	61943
	1800	61897
	1825	61896
	1850	61928
	1875	62098
	1900	61942
	1925	61897
	1425	62007
	1400	62135
	1375	62366
	1350	62623
	1325	62933
	1300	62780
	1275	61464
	1250	61721
	1225	61820
1200	61857	
1175	61887	
1150	61915	
1125	61911	
1600N	1000	61866
	1150	61955
	1175	61934
	1200	61930
	1225	61920
	1250	61908
	1275	61924
	1300	61913
	1325	61919
	1350	61911
	1375	61924
	1400	61914
	1425	61896
	1450	61874
	1475	61856
	1500	61850
	1525	61851
	1550	61951
	1575	62102
	1600	62191
1625	62158	
1650	62045	
1675	61957	
1700	61901	
1725	61952	
1750	61931	



REFERENCE

- Watercourse
- Road
- Vehicle track, walking track
- E.L. boundary
- Grid lines
- Geological boundary
- Strike and dip of bedding
- Fault

QUATERNARY

- Qg: Glacial drift gravels
- Qra: Alluvium

TERTIARY

- Tg: Gravels

DEVONIAN

- Dg: Bell Shale
- Df: Florence Quartzite

SILURIAN

- Sas: Silicious sandstone
- Sa: Unfossiliferous sandstone
- Sc: Crery Quartzite

ORDOVICIAN

- Og: Gordon Limestone

CAMBRIAN

- 6dh: Ruskeon Formation
- 6h: Hornblende
- 6g: Many tufts, some clastic sediments
- 6m: Many fine clastic sediments, some tufts
- 6c: Unfossiliferous
- 6cu: Upper chert
- 6cl: Chert, unfossiliferous
- 6l: Lower chert
- 6ib: Unfossiliferous
- 6lr: Limestone, siliceous siltstone with some sandstone and conglomerate
- 6i: Unfossiliferous
- 6ss: Black mudstones and siltstones with minor sandstone
- 6sd: Quartz sandstone - Dalrooth Formation
- 6sc: Polymict conglomerate with minor sandstone

PRECAMBRIAN

- p6: Quartzite, siltstone, shales (granitic clumps), muscovite schist

INTRUSIVES

- Dg: Granite
- 6s: Syenites
- 6gb: Gabbro and basic intrusives

Mineralized zones - Crimon Creek Formation

Scale: 5 cm

CSR LIMITED - MEDG

E.L. 25/85 PARSONS HOOD, TASMANIA

INTERPRETATIVE GEOLOGY

(North Sheet)

982063

SCALE 1:10000

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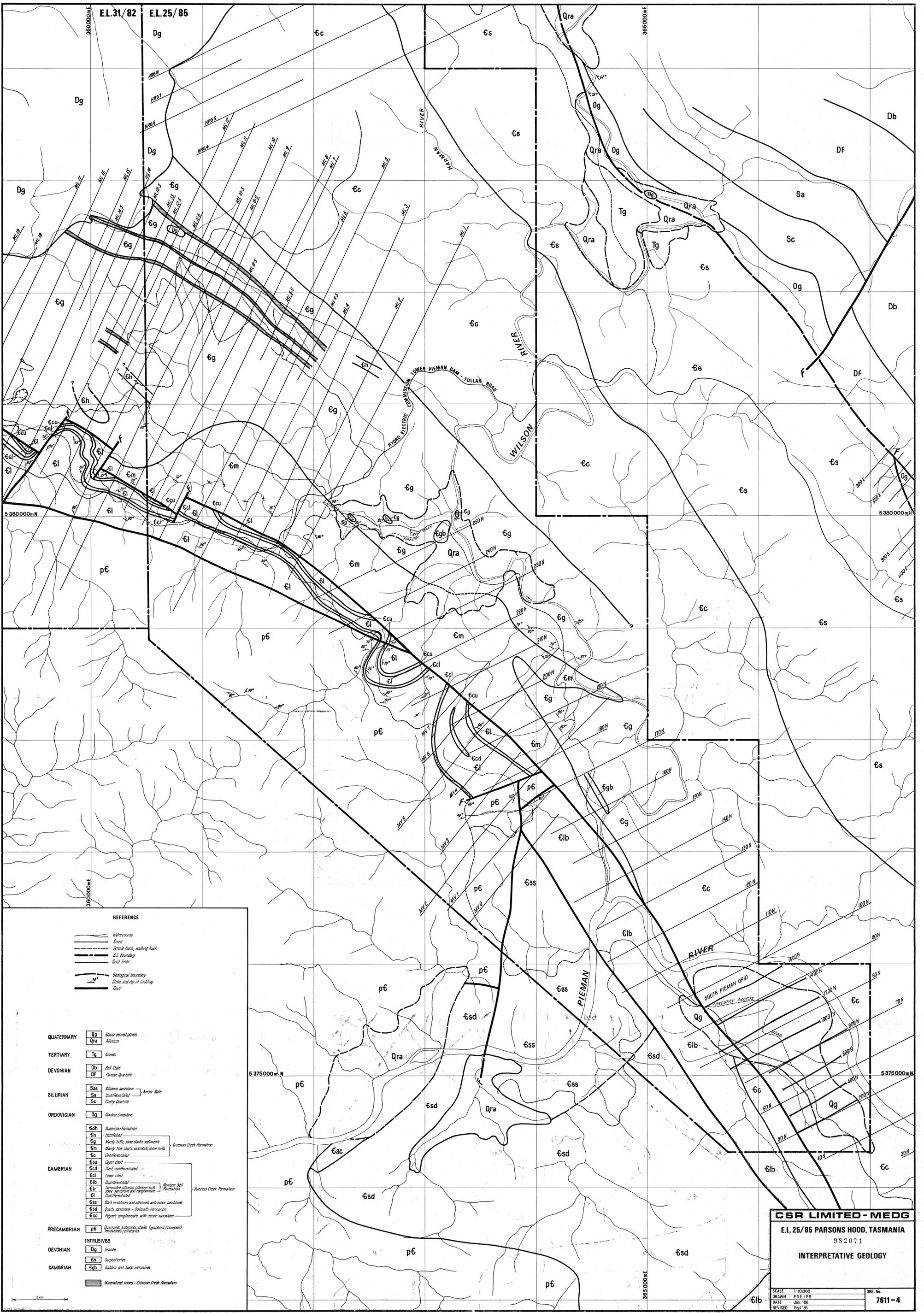
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REVISED Sep '86

DRG No **7611-1**

5893

EL.31/82 EL.25/85



REFERENCE

- Watercourse
- Road
- Vehicle track, walking track
- E.L. boundary
- Grid lines
- Geological boundary
- Strike and dip of bedding
- Fault

QUATERNARY	Qg	Glacial derived pebbles
	Qra	Alluvium
TERTIARY	Tg	Graves
DEVONIAN	Db	Bell Shale
	DF	Florence Quartzite
SILLURIAN	Sas	Siltstone sandstone - Amber Dale
	Sa	Undifferentiated
	Sc	Crinoid Quartzite
ORDOVICIAN	Dg	Gordon Limestone
CAMBRIAN	εdh	Huskisson Formation
	εh	Hornblende
	εg	Mainly tuffs, some clastic sediments
	εm	Mainly fine clastic sediments, some tuffs
	εc	Undifferentiated
	εcu	Upper chert
	εcd	Chert, undifferentiated
	εcl	Lower chert
	εlb	Undifferentiated
	εlr	Laminated siliceous siltstone with some ammonites and corals
PRECAMBRIAN	pε	Quartzite, siltstone, shales (granitic/skarned), mudstones/siltstones
	Dg	Granite
	εs	Serpentinized
	εgb	Gabbro and basic intrusives
		Mineralized zones - Crinson Creek Formation

CSR LIMITED - MEDG
 E.L. 25/85 PARSONS HOOD, TASMANIA
 982071
 INTERPRETATIVE GEOLOGY

SCALE 1:10000
 DRAWN P.D.E./P.R.
 DATE Jan '88
 REVISED Sep '88

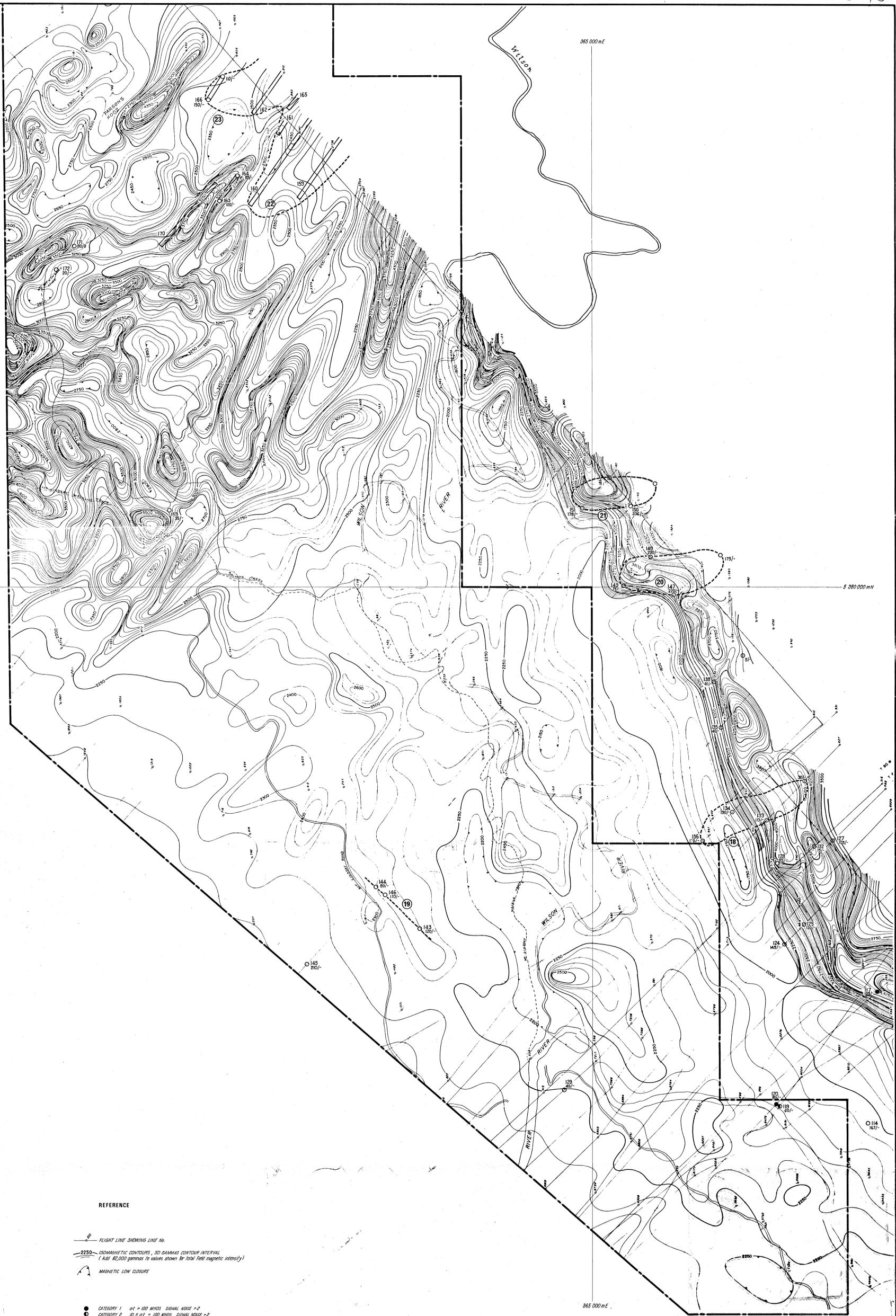
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5 380 000 m N

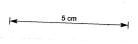
365 000 m E

5 380 000 m N

365 000 m E



- REFERENCE**
- FLIGHT LINE SHOWING LINE No.
 - ISOMAGNETIC CONTOURS, 30 GAMMAS CONTOUR INTERVAL
(ADD 82,000 GAMMAS TO VALUES SHOWN FOR TOTAL FIELD MAGNETIC INTENSITY)
 - MAGNETIC LOW CLOSURE
 - CATEGORY 1 $d_t = 100$ METERS SIGNAL NOISE > 2
 - CATEGORY 2 $d_t = 100$ METERS SIGNAL NOISE > 2
 - CATEGORY 3 $d_t = 10$ METERS SIGNAL NOISE > 2
 - ANOMALY CODE No. 166
DEPTH TO CURRENT AXIS IN m/dt IN METERS
 - BURIED CONDUCTOR
 - MULTIPLE SURFACE CONDUCTORS
 - CONDUCTOR AXIS AND CODE
 - FLAT LYING CONDUCTOR OR CONDUCTIVE REGION
 - E.L. BOUNDARY



CSR LIMITED - MEDG

E.L. 25/85 PARSONS HOOD, TASMANIA

TURAIR MAGNETICS & EM ANOMALIES

982072

7611-5

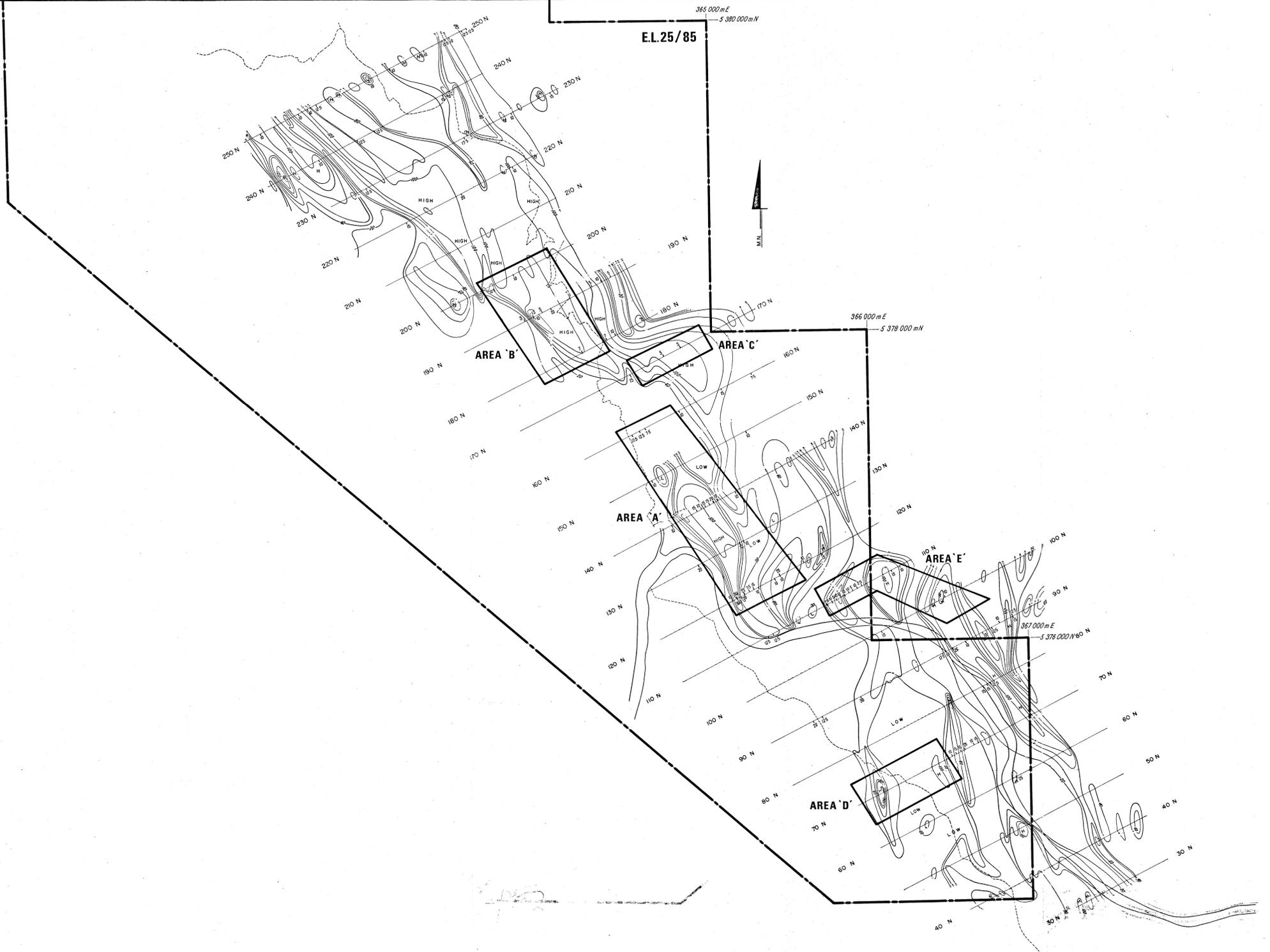
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DRAWN P.D.E./

DATE Jan 86

REVISED

DRG No 7611-5



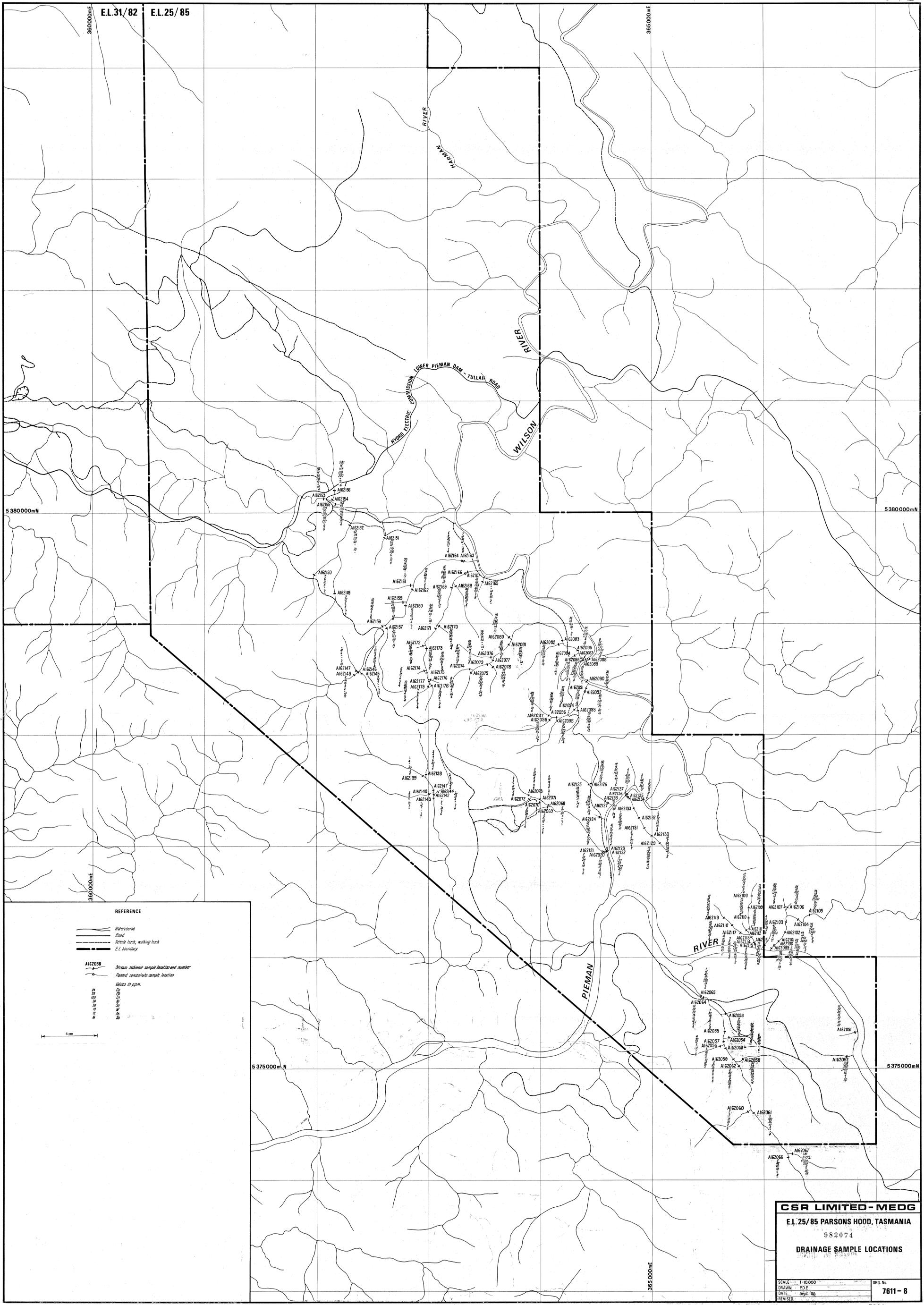
REFERENCE
 GEOCHEMISTRY (PPM)
 100 Cu
 10 Pb
 10 Zn
 10 Fe



CSR LIMITED - MEDG	
E.L. 25/85 PARSONS HOOD, TASMANIA	
SOIL GEOCHEMISTRY	
982073	
SCALE 1:10,000	DRG. No.
DATE Jan '86	7611-P
REVISED	

5897

E.L.31/82 E.L.25/85



REFERENCE

- Watercourse
 - Road
 - Vehicle track, walking track
 - E.L. boundary
 - Stream sediment sample location and number
 - Paired concentrate sample location
- Values in ppm.
- | | |
|----|---|
| N | 1 |
| Co | 2 |
| Ti | 3 |
| Al | 4 |
| Si | 5 |
| W | 6 |
| Fe | 7 |
| Mn | 8 |

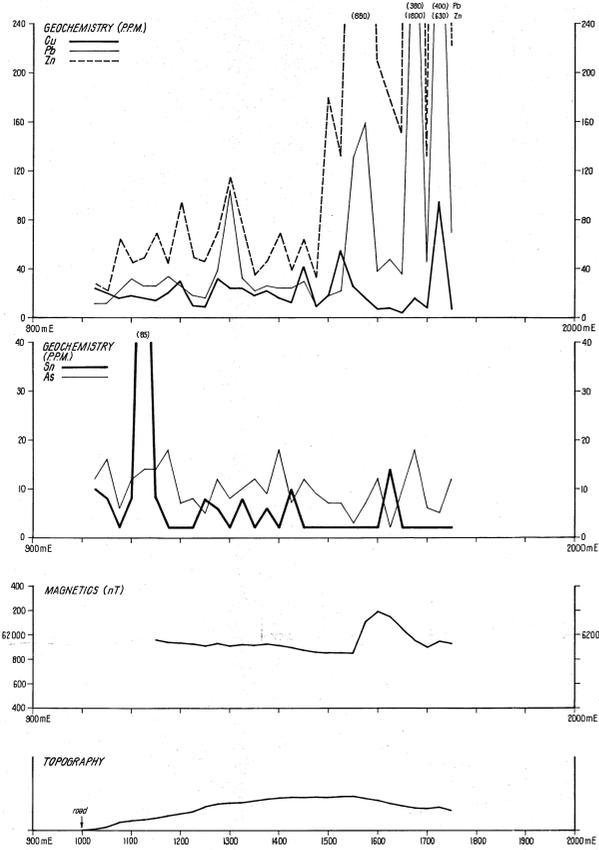
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CSR LIMITED - MEDG
 E.L. 25/85 PARSONS HOOD, TASMANIA
 982074
DRAINAGE SAMPLE LOCATIONS

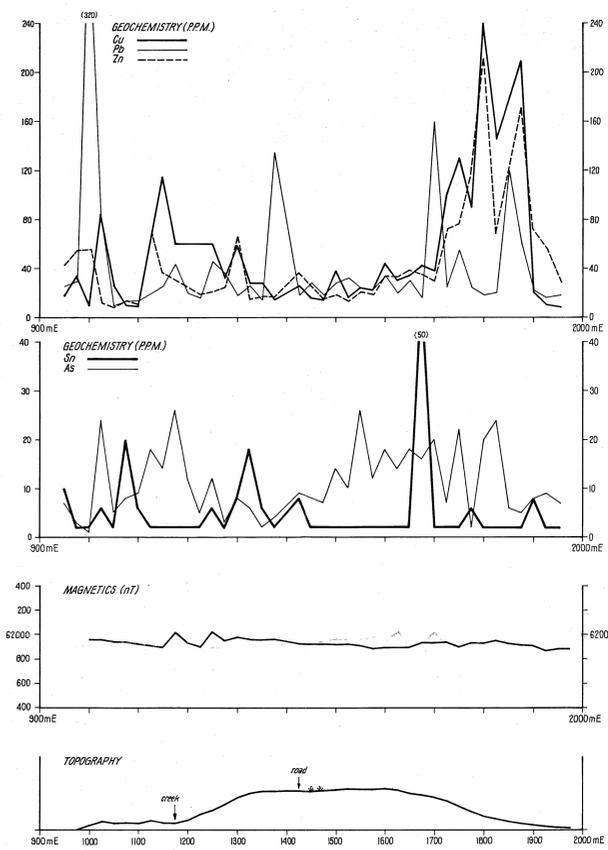
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DATE	Sept '86		
REVISED			

7611-8

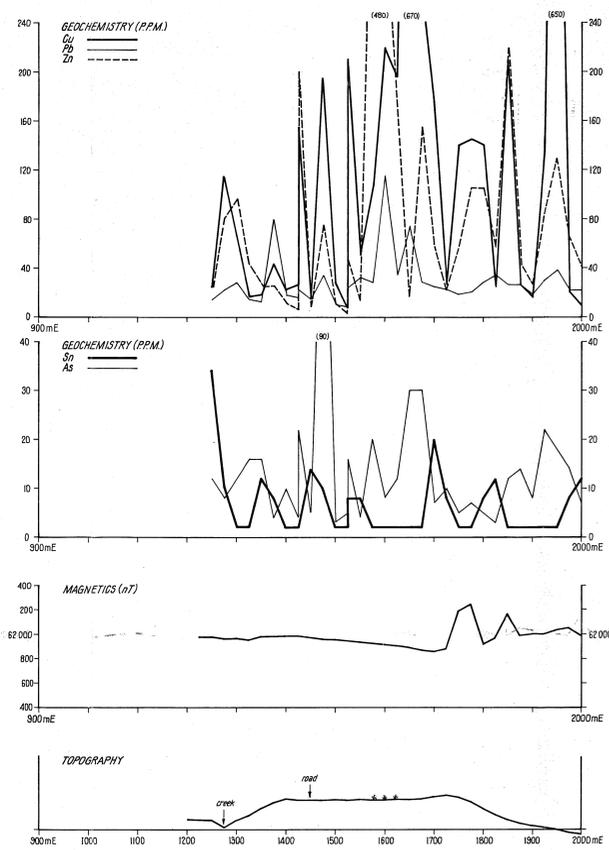
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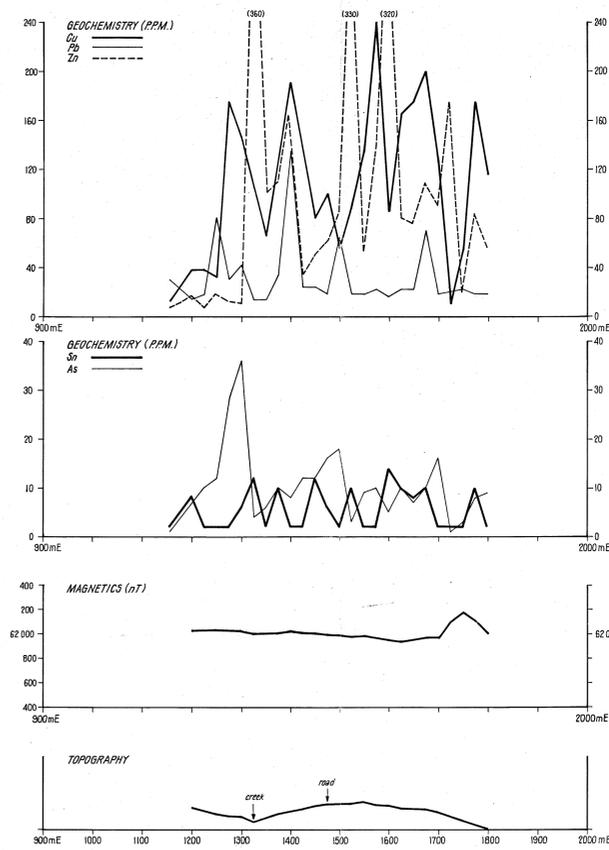
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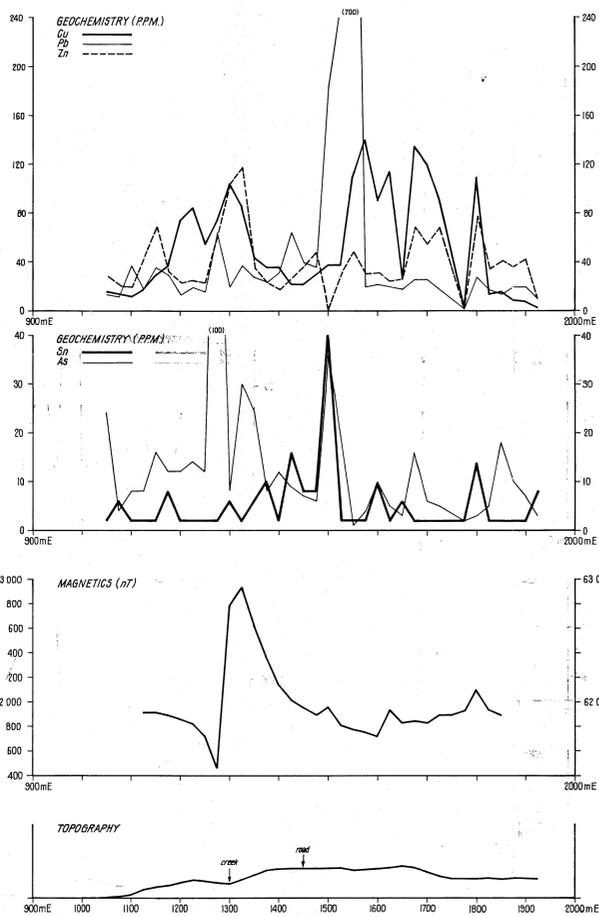
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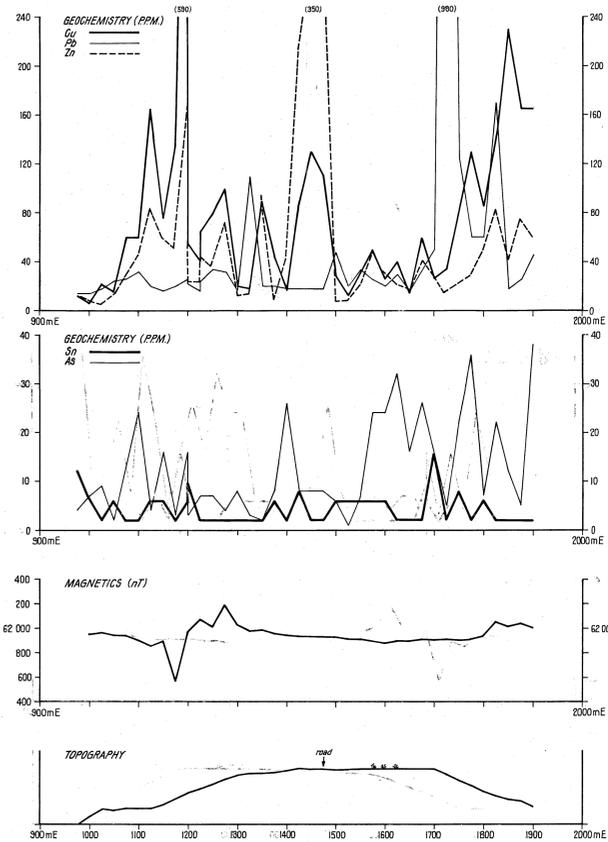
LINE 400N



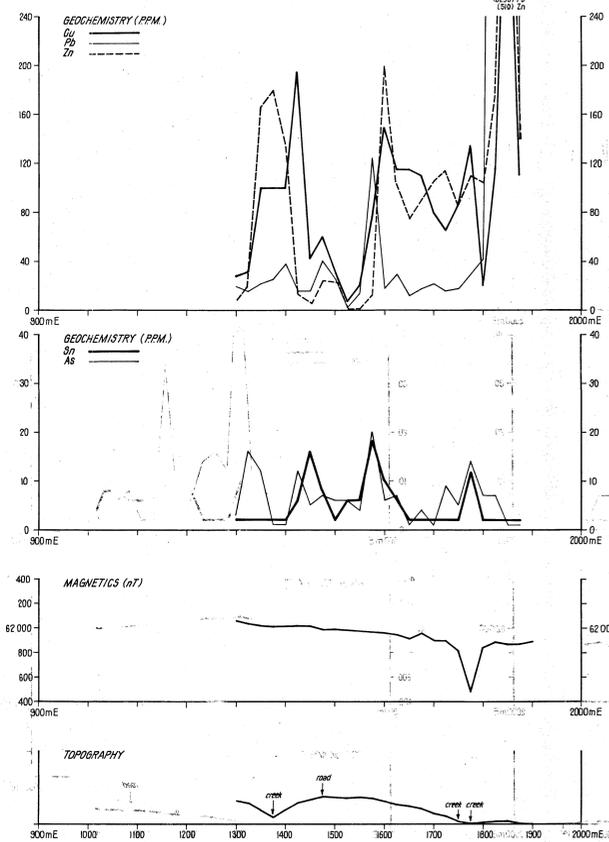
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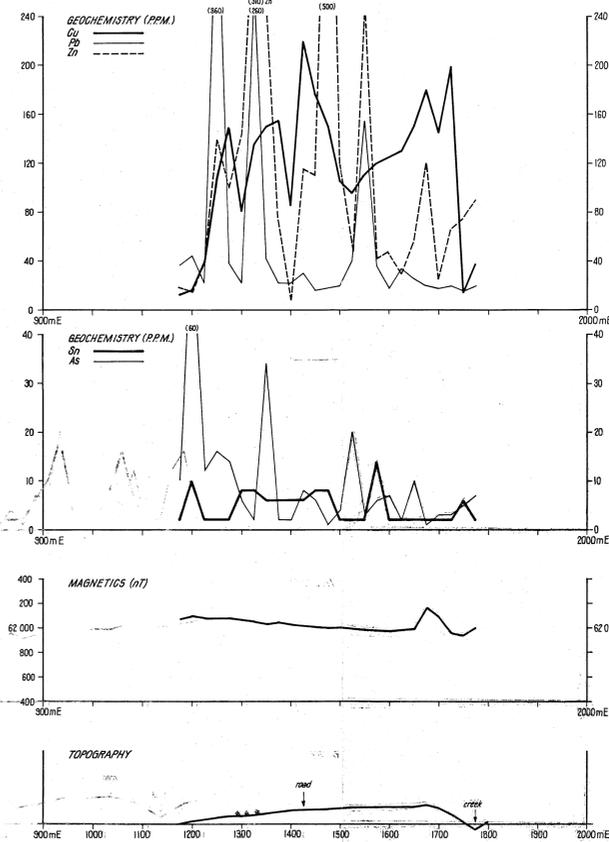
LINE 1000N



LINE 600N



LINE 200N



982075

CSR LIMITED-MEDG
E.L. 25/85 PARSONS HOOD, TASMANIA
SOUTH PIEMAN GRID
GEOCHEMICAL, MAGNETIC & TOPOGRAPHIC PROFILES

SCALE	1:5000	DRG. No.	7611-9
DRAWN	P.D.E.	DATE	SEPT. '86
DATE	SEPT. '86	REVISED	



5899

