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RELINQUISHMENT REPORT 1988

EXPLORATION LICENCE NO 25/85

PARSONS HOOD, TASMANIA

Report prepared
by P.D. Ellis
for Placer Exploration Ltd.
on behalf of
CSR Limited

DISTRIBUTION:

Tasmanian Department of Mines	1✓	
Placer, Sydney	1	Report No. 16/88
P.D. Ellis	1	July 1988

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1. SUMMARY

Exploration continued from 1987 through into early 1988. This consisted of the traversing of the Wilson Grid with soil geochemistry and ground magnetics and preliminary traversing of part of the Salmon Grid with VLF-EM and geological mapping.

Results of this work and the previous CSR exploration showed only minor small anomalies. Recent Mines Department work suggested the lack of anomalies may be caused by the great depth of the granitic bodies beneath this area.

No further work is warranted in this area in the search for Renison style Sn replacement ore deposits.

2. 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 km^2. On June 7, CSR was informed that the tender had been partially successful and was offered 41 km^2, 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.

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The reduced area of Exploration Licence 25/85 (EL 25/85) was pegged on July 26, 1985 and an application for this Licence was made to the Tasmanian Department of Mines on July 30, 1985. The Licence was granted to CSR Limited on November 8, 1985 for a 12 month period.

In November 1986, the Licence was renewed for a further 12 month period.

In late September 1987, the Licence was enlarged to 46.5 km^2 when the Department of Mines changed the boundaries to align with the AMG kilometre grid lines.

In November 1987, the Licence was renewed for a third 12 month period.

This 46.5 km^2 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 head-waters 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

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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 third 12 month term of the Licence which ends on November 8, 1988. No further work is envisaged on this Licence by the CSR group.

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

...4/

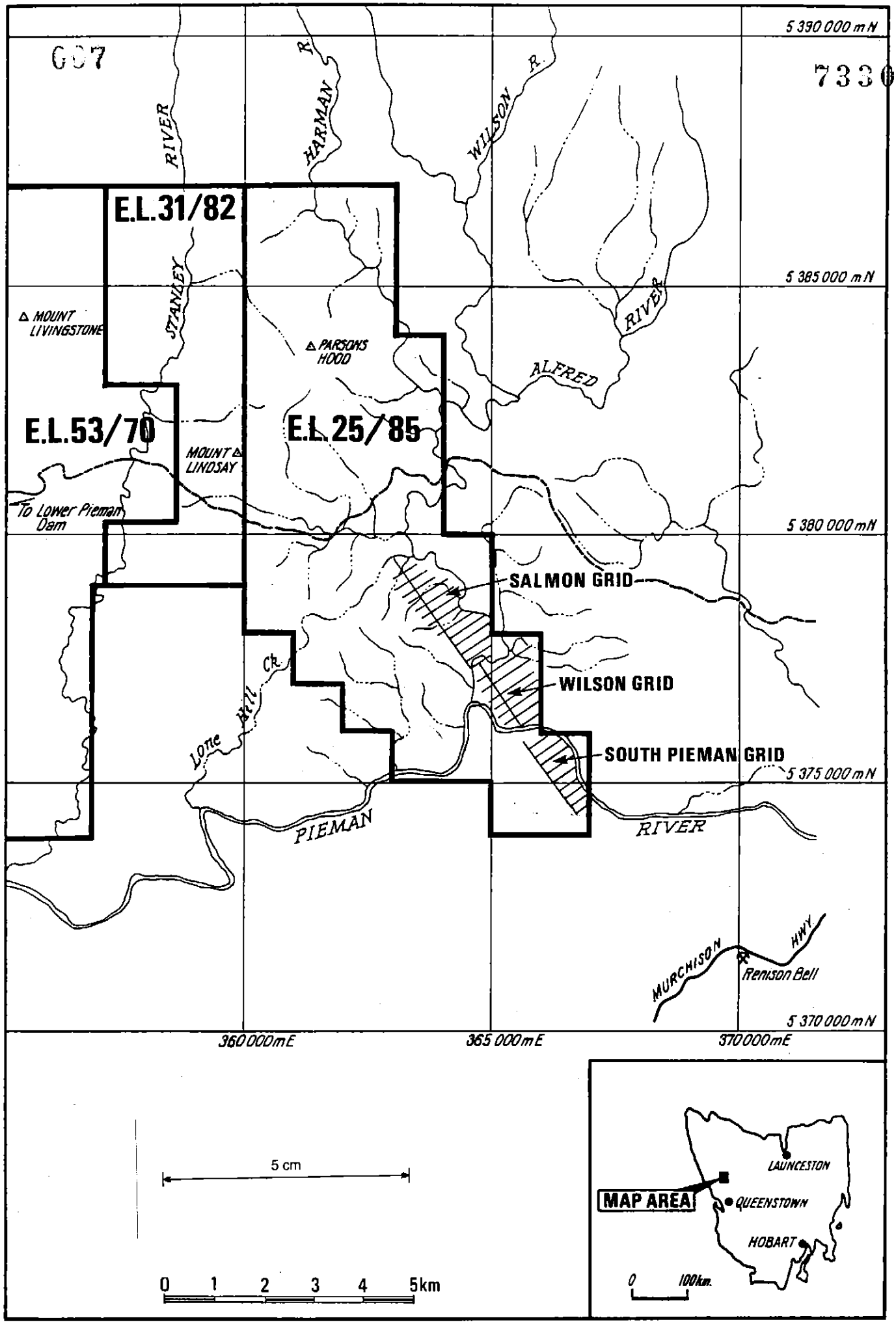

FIG.1 LOCATION MAP, E.L. 25/85 PARSONS HOOD, TASMANIA

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.

During the 1986/87 period, the HEC closed the flow of water down the Pieman River with the Lower Pieman Dam. The resultant back-up of water formed Lake Pieman and flooded the Pieman and Wilson Rivers in the EL 25/85 area.

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

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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 using aeromagnetics and drilling. General investigations were undertaken in 1970 (Mt. Lindsay-Stanley River area) and 1971-72 (ground geology, geochemistry, magnetics 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 led to the location of 5 geochemically anomalous zones trending northwesterly and parallel to the stratigraphy. These anomalies (DRG NO. 7611-6) are near the Oonah/Success Creek contact (3 anomalies) or near the base of the Crimson Creek Formation (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. In the period 1973-75, EM anomalies at Misty Valley and at Mt. Lindsay were gridded and traversed with ground magnetics, IP and soil geochemistry. In 1975-82, most work was concentrated on the Mt. Lindsay workings, and from this work

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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.

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 south-western corner of the Licence, to 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 truncated to the northeast by the

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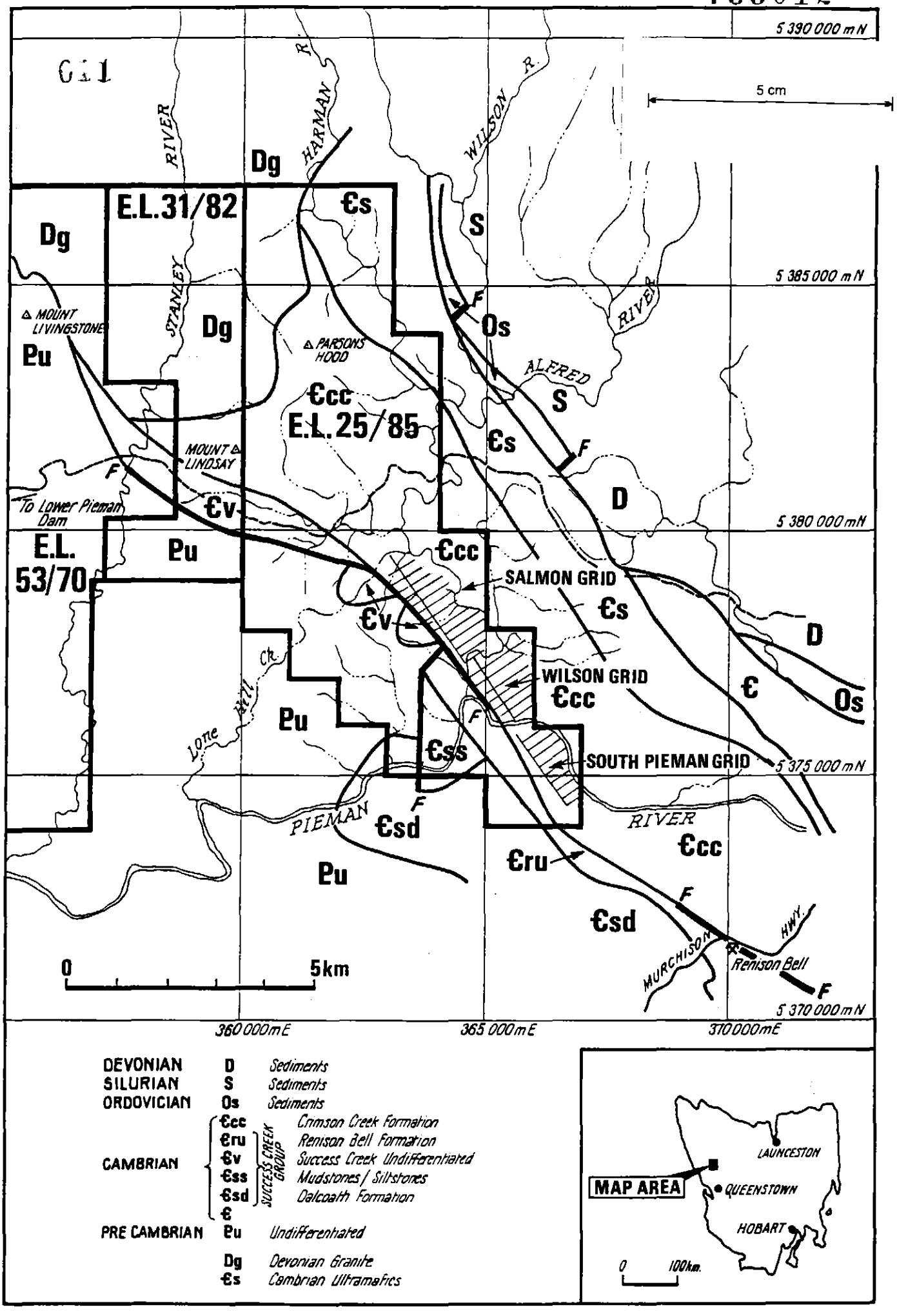

FIG. 2 GEOLOGICAL MAP, E.L.25/85 PARSONS HOOD, TASMANIA

emplacement of pre-Middle Cambrian serpentinised ultramafics. These rocks only occur in the northeast corner of EL 25/85. 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 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 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 exhibit 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-

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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 are (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).

During the 1985/86 period, areas underlain by Success Creek/basal Crimson Creek sediments were drainage sampled and geologically mapped, with one of the areas of anomalous drainage geochemistry (and a co-incident aeromagnetic high) being gridded (Ellis, 1986). This anomalous area (South Pieman grid) was traversed with magentics, Wacker bedrock sampling and geological mapping.

During the 1986/87 period, the remaining areas of anomalous drainage geochemistry and/or high aeromagentic values were gridded. The Salmon Grid (south of Salmon Creek and west of the Wilson River) over Zn/Sn and Cu/Zn/Sn anomalies (with minor Pb anomalies) and a coincident aeromagnetic anomaly was traversed with 25 m spaced soil geochemistry and ground magnetics (Ellis, 1987).

During the 1987/88 period, the pre-cut Wilson Grid to the north of the Pieman River and to the south and east of the Wilson River (over an area of anomalous Zn, Pb and Sn drainage geochemistry with coincident aeromagnetic highs) was traversed with 25 m spaced soil sampling and ground magnetics. Line 3600N of the Salmon Grid was also traversed with 25m spaced VLF-EM readings. Minor geological mapping was undertaken on several lines in the Salmon and Wilson Grids.

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Recently the Tasmanian Department of Mines have published Mt. Read Project gravity and magnetic data, part of which cover the Parsons Hood area. The results of the interpretation of these data (Leaman, 1988) have been examined in the light of grid based exploration.

6.2 Results

(a) Ground Magnetics

The magnetic high area observed on lines 3600N and 3800N in the Salmon Grid appears to continue on line 3400N of the Wilson Grid (Drg No. 7611-18). There appears to be an offset of the anomaly between the two grids.

In the southern part of the grid the magnetics are fairly non-descript with only minor anomalous values in an area of generally low and variable magnetics (Appendix I). These few minor anomalous high values tend to be only single point anomalies, and as such are insignificant.

Generally, on the Wilson Grid there tends not to be the strong geological correlation with the magnetics as was observable on the Salmon Grid.

(b) Soil Geochemistry

Soil samples taken at 25 m intervals along all the cut lines of the Wilson grid were analysed for Cu, Pb, Zn, Ag, Ni, Bi, As, Sn, W, Ba and Sb. The results of analysis (Appendix II) showed a continuation of the correlation of anomalous Cu values with the magnetic high on lines 3400N and 3200N (Drg No 7611-19). On the southern lines the Cu values tend to be rather variable. A peak Cu value of 160 ppm was obtained on line 3000N.

Apart from one value of 550 ppm, all the lead values were less than 65 ppm (Drg No 7611-20). This was significantly lower than values obtained on the Salmon Grid.

Arsenic values were generally low (<5 ppm). Higher values (peaking at 22 ppm) are randomly distributed throughout the grid (Drg No 7611-21).

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Tin values are generally low (<10 ppm Sn) with most less than 20 ppm (Drg No 7611-22). Two anomalous values of 50 ppm and 45 ppm occur at 3100N and 2800N as isolated anomalies.

The Ba distribution tends to be erratic (Drg No 7611-23) although not as variable as shown by the samples from the Salmon Grid.

Similarly, the Zn distribution tends to be erratic (Drg No 7611-24).

Ag, Ni, Bi, Sb and W showed no significant variations with peak values of only 2.5, 210, 40,9, and 20 ppm, respectively.

(c) Others

Early in 1988 line 3600N of the Salmon Grid was traversed with VLF-EM and geological mapping. The VLF-EM survey (Appendix III) showed no significant anomalous responses.

The geological mapping of the same line showed no anomalous rocks, rather it showed a monotonous sequence of weathered orange-khaki tuffaceous siltstones and shales with some coarser tuffaceous sandstone bands. This was broken in the vicinity of 801m E and 749m E by bands of white to light grey chert.

In early 1988 a Department of Mines report by D.E. Leaman (1988) on the Meredith Granite was released. This report modelled observed gravity and magnetic fields with known geology and physical properties and concluded that the southern and southeastern edges of the granite were very steep to a depth of at least several kilometers. Previous ideas on this contact assumed a much shallower dip with a ridge of granite probably extending southeast towards Renison and possibly running into the Pine Hill granite. This new model for the granite contact downgrades the potential of the Parsons Hood area as it places most of the surficial rocks too far away from the granite for the formation of cassiterite in a replacement type environment (generally about 400

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m from the granite).

Similarly this new model also explains the lack of any significant geochemical anomalies in soil samples from the area. The odd, isolated high Pb and/or Zn values could be explained by small, single veins leaking from a distant granite.

6.3 Quality Control

The analyses of the soil samples (250 samples) included those for 17 quality control samples consisting of 4 different standard samples (Table 1).

There does appear to be a problem with the Analabs Sn analyses at low levels. Previously Analabs have shown higher Sn values than the quoted values but these analyses showed the Sn values at 50 to 138 ppm to be very low (x and 20 ppm, respectively). Values around 290 ppm Sn are very accurate and precise.

The Cu, Pb, Zn and Ni analyses appear to be very accurate and consistent as compared to quoted values.

Similarly Ag, Bi and As analyses seem to be in agreement with past results. However the Ba, Sb and W results appear to be variable. Overall, it appears that the laboratory may have a problem with XRF analyses.

7. CONCLUSIONS

The geological, geophysical and geochemical studies of the South Pieman, Salmon and Wilson Grids were very disappointing with only minor low grade anomalies being defined.

The lack of anomalies was finally explained by the remodelling of the south/southeast contact of the Meredith Granite in a regional gravity/magnetic interpretation study. This study showed the granite contact to be very steep

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TABLE 1 SAMPLE ANALYSIS QUALITY CONTROL

Standard Sample	Cu	Pb	Zn	Ag	Ni	Bi	As	Ba	Sb	Sn	W
G x 10A321122	5	10	x	x	x	x	1	40	x	x	x
G x 10A321215	5	5	x	x	5	x	1	55	x	10	x
G x 10A321326	5	5	x	x	10	x	x	60	x	x	x
G x 10A321330	5	5	x	0.5	10	20	1	50	x	x	x
Quoted										50	
Past											
Results	3	x	3	x	x	x	x	15	6	50	x
G x 11A321145	5	5	5	x	5	x	2	140	x	x	x
G x 11A321234	5	5	5	x	5	x	2	x	15	10	x
G x 11A321310	5	5	5	x	10	20	2	150	x	10	x
G x 11A321329	10	5	5	0.5	5	x	2	150	x	20	x
G x 11A321350	10	5	5	x	15	x	2	150	x	10	x
Quoted										138	
Past											
Results	9	5	5	x	4	x	1	28	x	142	8
G x 21A321174	165	230	900	x	210	x	24	5	25	x	x
G x 21A321300	170	225	885	x	210	x	24	6	25	x	x
G x 21A331327	170	230	875	0.5	195	x	24	8	x	x	x
G x 21A321349	165	230	880	x	200	x	25	5	25	x	x
Quoted	150	210	800	-	180	-	-	-	-	-	-
Past											
Results	-	-	-	-	-	-	-	-	-	-	-
G x 21A321295	10	20	20	x	5	30	7	310	x	290	x
G x 21A321328	15	20	25	0.5	15	x	8	4	25	280	x
G x 21A321345	10	20	20	x	10	x	9	340	x	290	x
G x 21A321175	15	20	20	x	10	x	9	320	x	290	x
Quoted										294	
Past											
Results	10	25	12	x	8	3	x	x	x	295	35

and thus the areas of the Salmon, Wilson and South Pieman Grids were at least several kilometers away from the granite. This is far in excess of the highly desireable 400 m distance between granite and replaceable rocks for the deposition of cassiterite.

Because of the lack of high grade anomalies and the excessive distance of the suitable host horizons from the granite it is recommended no further work is completed in the area and that EL 25/85 is thus relinquished.

8. REFERENCES

Brown, A.V., 1980 — Some Aspects of the Geology of the Mt. Lindsay - Dundas Areas, Western Tasmania, Tasmanian Department of Mines Report No 1980/42 (unpub)

Ellis, P.D., 1986 — Renewal Report 1986 - Exploration Licence No 25/85, Parsons Hood, Tasmania, CSR Ltd unpub. Report

Ellis, P.D., 1987 — Renewal Report 1987 - Exploration Licence No 25/85 Parsons Hood, Tasmania, CSR Ltd unpub Report No. EMR 8/88

Leaman, D.E., 1988 — Granites of W and NW Tasmania, Provisional Interpretation 13. The Meredith Granite, Tas. Dept of Mines Mt. Read Volcanics Project 1987/8 (unpub)

APPENDIX I

GROUND MAGNETIC READINGS

WILSON GRID

WILSON GRID

GEOMETRICS 816 -SN 565

LINE	STATION	READING	LINE	STATION	READING	LINE	STATION	READING
2200N	1125E	61903	2400N	1450E	61930	2600N	1225E	62035
	1150E	61900		1475E	61888		1250E	61905
	1175E	61888		1500E	61887		1275E	61912
	1200E	61871		1525E	61851		1300E	61915
	1225E	61937		1550E	61857		1325E	61900
	1250E	61866		1575E	61833		1350E	61889
	1275E	61852		1600E	61859		1375E	61890
	1300E	61867		1625E	61871		1400E	61907
	1325E	61911		1650E	61912		1425E	61890
	1350E	61915		1675E	61921		1450E	61884
	1375E	61905		1700E	61875		1475E	61858
	1400E	61890		1725E	61850		1500E	61911
	1425E	61875		1750E	61886		1525E	61900
	1450E	61881		1775E	61891		1550E	61871
	1475E	61929		1800E	61902		1575E	61851
	1500E	61931		1825E	61913		1600E	61848
	1525E	61869		1850E	61875		1625E	61853
	1550E	61852		1875E	61910		1650E	61871
				1900E	61903		1675E	61862
2400N	1125E	61893		1925E	61894			
	1150E	61890		1950E	61882	2800N	1025E	61851
	1175E	61897		1975E	61868		1050E	61867
	1200E	61883		2000E	61868		1075E	61862
	1225E	61869		2025E	61859		1100E	61871
	1250E	61851		2050E	61862		1125E	61877
	1275E	61842					1150E	61869
	1300E	61899	2600N	1075E	61821		1175E	61901
	1325E	61855		1100E	61837		1200E	61925
	1350E	61892		1125E	61851		1225E	61919
	1375E	61905		1150E	61862		1250E	61912
	1400E	61915		1175E	61887		1275E	61906
	1425E	61923		1200E	61895		1300E	61900

APPENDIX II

SOIL GEOCHEMISTRY OF SAMPLES FROM THE WILSON GRID

CSR Limited
Minerals Exploration and Development Group

6822

733023

Correspondence to: THE CHIEF GEOLOGIST
Box 483, G.P.O.
Sydney, N.S.W. 2001
Telephone: (02) 235 8333

FIELD SAMPLE DESPATCH SHEET

20202

Project No. 7611 Project Name PARSONS HOOD - WILSON GRID Date Required / / ASAP

Date Despatched 18/2/88 Despatcher PDE/RTW Despatched per ANALABS

CSR Order No. 44657 Consignment No.

Lab Name ANALABS

Preparation Method PULVERIZE (CODE 016)

Element(s)/Method Cu, Pb, Zn, Ag, Ni, Bi: 101; As: 114; Sn, W, Ba, Sb: 401

PD Ellis CSR Ltd PO Box 241 Rosny Park Tas 7018

CSR SAMPLE NUMBER	FIELD NUMBER	SAMPLE TYPE	CONTROL TYPE	SAMPLE DESCRIPTION	ORIGINAL NUMBER	SAMPLE WEIGHT SUBMITTED
A32101		ER		3400N 1250E B C		
102		ER		1225E O B C		
103		ER		1200E B G C		
104		ER		1175E B G C		
105		ER		1150E B G C		
106		ER		1125E B C		
107		ER		1100E B C		
108		ER		1075E G C		
109		ER		1050E G C		
110		ER		1025E B C		
111		ER		1000E G C		
112		ER		975E G C		
113		ER		950E R B C		
114		ER		1275E B C		
115		ER		1300E B C		
116		ER		1325E R B C		
117		ER		1350E R B C		
118		ER		1375E B C		
119		ER		1400E B C		
120		ER		1425E O B C		
121		ER		1450E B C		
122		CL	ST	6X10		
123		ER		3200N 1414E B C		
124		ER		1400E B C		
125		ER		1375E B C		
126		ER		1350E B C		
127		ER		1325E B C		
128		ER		1300E Y B C		
129		ER		1275E B C		
130		ER		1250E B C		
131		ER		1225E B C		
132		ER		1200E B C		
133		ER		1175E B C		
134		ER		1150E B C		
135		ER		1125E B C		
136		ER		1100E B C		
137		ER		1075E B C		
138		ER		1050E O B C		
139		ER		1025E O B C		
140		ER		1000E B C		

DISBURSEMENT: WHITE – to Assay Laboratory with order. PINK – to Computer Services. YELLOW – to Head Office filing.

CSR Limited
Minerals Exploration and Development Group

733024

Correspondence to: THE CHIEF GEOLOGIST
Box 483, G.P.O.
Sydney, N.S.W. 2001
Telephone: (02) 235 8333

FIELD SAMPLE DESPATCH SHEET

20203

Project No. 7611 Project Name PARSONS HOOD - WILSON GRID Date Required / /

Date Despatched 18, 2, 88 Despatcher PDE/RTW Despatched per

CSR Order No. 44657 Consignment No.

Lab Name ANALABS

Preparation Method SEE Field Sample Despatch Sheet 20202

Element(s)/Method

CSR SAMPLE NUMBER	FIELD NUMBER	SAMPLE TYPE	CONTROL TYPE	SAMPLE DESCRIPTION	ORIGINAL NUMBER	SAMPLE WEIGHT SUBMITTED
A32111		ER		3200M QQSE GIC		
142		ER		QSOE GBC		
143		ER		Q25E BC		
144		ER		QOOE BC		
145		CL	ST	GXII		
146		ER		3000M1568E BC		
147		ER		1550E GIC		
148		ER		1525E GBC		
149		ER		1500E BC		
150		ER		1475E BIC		
151		ER		1450E BC		
152		ER		1425E BYC		
153		ER		1400E GC		
154		ER		1375E GIC		
155		ER		1350E BC		
156		ER		1325E QBC		
157		ER		1300E BC		
158		ER		1275E BC		
159		ER		1250E BC		
160		ER		1225E BC		
161		ER		1200E BC		
162		ER		1175E BC		
163		ER		1150E BC		
164		ER		1125E BC		
165		ER		1100E BC		
166		ER		1075E BC		
167		ER		1050E BC		
168		ER		1025E BC		
169		ER		1000E BC		
170		ER		975E BC		
171		ER		950E BC		
172		ER		925E BC		
173		ER		900E BC		
174		CL	ST	6X12		
175		CL	ST	6X12		
176		ER		3125N1200E GBC		
177		ER		3150N1200E BC		
178		ER		3125N BC		
179		ER		3100N AC		
180		ER		3075N BC		

DISBURSEMENT: WHITE – to Assay Laboratory with order. PINK – to Computer Services. YELLOW – to Head Office filing.

CSR Limited 024
Minerals Exploration and Development Group

733025

Correspondence to: THE CHIEF GEOLOGIST
Box 483, G.P.O.
Sydney, N.S.W. 2001
Telephone: (02) 235 8333

FIELD SAMPLE DESPATCH SHEET

20204

Project No. 7611 Project Name ~~PARSONS HOOD~~ WILSON GRID Date Required / /

Date Despatched 18/2/88 Despatcher PDE/AEW Despatched per

CSR Order No. 44657 Consignment No.

Lab Name ANALABS

Preparation Method see sheet 20202

Element(s)/Method

CSR SAMPLE NUMBER	FIELD NUMBER	SAMPLE TYPE	CONTROL TYPE	SAMPLE DESCRIPTION	ORIGINAL NUMBER	SAMPLE WEIGHT SUBMITTED
A32181		ER		3050M 1200E ABC		
182		ER		3025N ABC		
183		ER		2975N BC		
184		ER		2950M BC		
185		ER		2925M ABC		
186		ER		2900M BC		
187		ER		2875M BC		
188		ER		2850N BC		
189		ER		2825M BC		
190		ER		2800N 1623E BC		
191		ER		1600E BC		
192		ER		1575E BC		
193		ER		1550E BC		
194		ER		1525E BC		
195		ER		1500E BC		
196		ER		1475E BGC		
197		ER		1450E GBC		
198		ER		1425E BC		
199		ER		1400E BC		
200		ER		1375E ABC		
201		ER		1350E BC		
202		ER		1325E BC		
203		ER		1300E BC		
204		ER		1275E BC		
205		ER		1250E ABC		
206		ER		1225E ABC		
207		ER		1200E BC		
208		ER		1175E BC		
209		ER		1150E BC		
210		ER		1125E ORC		
211		ER		1100E RBC		
212		ER		1075E RRC		
213		ER		1050E BC		
214		ER		1025E BC		
215		CLST		GX10		
216		ER		3200N 1200E BC		
217		ER		3225N BC		
218		ER		3250N GC		
219		ER		3275M GC		
220		ER		3300N GRC		

DISBURSEMENT: WHITE – to Assay Laboratory with order. PINK – to Computer Services. YELLOW – to Head Office filing.

CSR Limited C25
Minerals Exploration and Development Group

733026

Correspondence to: THE CHIEF GEOLOGIST
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Telephone: (02) 235 8333

FIELD SAMPLE DESPATCH SHEET

20205

Project No. 7611 Project Name PARSONS HOOD - WILSON GRID Date Required / /

Date Despatched 18/2/88 Despatcher TDE/REN Despatched per

CSR Order No. 44657 Consignment No.

Lab Name ANALABS

Preparation Method See Sheet 20202

Element(s)/Method

CSR SAMPLE NUMBER	FIELD NUMBER	SAMPLE TYPE	CONTROL TYPE	SAMPLE DESCRIPTION	ORIGINAL NUMBER	SAMPLE WEIGHT SUBMITTED
A231220		ER		3325N/1200E GC		
221		ER		3250N GBC		
222		ER		3375N GBC		
223		ER		3400N BC		
224		ER		3425N GC		
225		ER		3475N GC		
226		ER		3500N WGC		
227		ER		3525N BC		
228		ER		3550N BC		
229		ER		3575N BC		
230		ER		3600N BC		
231		ER		3625N BC		
232		CL	ST	GXAA		
233		ER		2775N/1200E BC		
234		ER		2750N BC		
235		ER		2725N BC		
236		ER		2700N BC		
237		ER		2675N BC		
238		ER		2650N BC		
239		ER		2625N BC		
240		ER		2600N BC		
241		ER		2575N BC		
242		ER		2550N BC		
243		ER		2525N BC		
244		ER		2500N BC		
245		ER		2475N BC		
246		ER		2450N BC		
247		ER		2425N BC		
248		ER		2400N BC		
249		ER		2375N BC		
250		ER		2350N BC		
251		ER		~~2300N/2850E BC~~		
252		ER		2400N 2850E GBC		
253		ER		2825E BC		
254		ER		2800E BC		
255		ER		2775E BC		
256		ER		2750E BC		
257		ER		2725E BC		
258		ER		2700E BC		
259		ER		2675E BC		
260		ER		2650E BC		

DISBURSEMENT: WHITE – to Assay Laboratory with order. PINK – to Computer Services. YELLOW – to Head Office filing.

CSR Limited G26
Minerals Exploration and Development Group

733027

Correspondence to: THE CHIEF GEOLOGIST
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Sydney, N.S.W. 2001
Telephone: (02) 235 8333

FIELD SAMPLE DESPATCH SHEET

20206

Project No. 7611 Project Name PARSONS HOOD - WILSON GRID Date Required / /

Date Despatched 18/2/88 Despatcher PDE/REW Despatched per

CSR Order No. 46657 Consignment No.

Lab Name ANALABS

Preparation Method See Sheet 20202

Element(s)/Method

CSR SAMPLE NUMBER	FIELD NUMBER	SAMPLE TYPE	CONTROL TYPE	SAMPLE DESCRIPTION	ORIGINAL NUMBER	SAMPLE WEIGHT SUBMITTED
A32126 1		ER		2600N 1825E B C		
262		ER		1800E B C		
263		ER		1775E B C		
264		ER		1750E B C		
265		ER		1725E B C		
266		ER		1700E B C		
267		ER		1675E B C		
268		ER		1650E B C		
269		ER		1625E B C		
270		ER		1600E B C		
271		ER		1575E B C		
272		ER		1550E B C		
273		ER		1525E B C		
274		ER		2400N 1500E B C		
275		CB		2400N 1475E B C		
276		ER		2400N 1450E B C		
277		ER		2400N 1425E B C		
278		ER		2400N 1400E B C		
279		ER		2400N 1375E B C		
280		ER		2400N 1350E B C		
281		ER		2400N 1325E B C		
282		ER		2400N 1300E B C		
283		ER		2400N 1275E B C		
284		ER		2400N 1250E B C		
285		ER		2400N 1225E B C		
286		ER		2400N 1175E B C		
287		ER		2400N 1150E B C		
288		ER		2400N 1125E B C		
289		ER		2400N 1686E B C		
290		ER		2600N 1675E B C		
291		ER		2600N 1650E B C		
292		ER		1625E B C		
293		ER		1600E B C		
294		ER		1575E B C		
295		CRST		6x12A 4800GMB		
296		ER		2600N 1550E B C		
297		ER		1525E B C		
298		ER		1500E B C		
299		ER		1475E B C		
300		CRST		6x12 4800GMB		

DISBURSEMENT: WHITE – to Assay Laboratory with order. PINK – to Computer Services. YELLOW – to Head Office filing.

CSR Limited 687
Minerals Exploration and Development Group

733028

Correspondence to: THE CHIEF GEOLOGIST
Box 483, G.P.O.
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Telephone: (02) 235 8333

FIELD SAMPLE DESPATCH SHEET

20207

Project No. 7611 Project Name PARSONS HOOP - WILSON GRID Date Required / /

Date Despatched 18/2/88 Despatcher PDE/RLW Despatched per

CSR Order No. 44657 Consignment No.

Lab Name ANALABS

Preparation Method see sheet 20202

Element(s)/Method

CSR SAMPLE NUMBER	FIELD NUMBER	SAMPLE TYPE	CONTROL TYPE	SAMPLE DESCRIPTION	ORIGINAL NUMBER	SAMPLE WEIGHT SUBMITTED
A321301		ER		2600M 1450E B C		
302		ER		1425E B C		
303		ER		1400E B C		
304		ER		1375E B C		
305		ER		1350E B C		
306		ER		1325E B C		
307		ER		1300E B C		
308		ER		1275E B C		
309		ER		1250E B C		
310		CL	ST	GX 11		
311		ER		2600N 1225E B C		
312		ER		1175E B C		
313		ER		1150E B C		
314		ER		1125E B C		
315		ER		1100E B C		
316		ER		1075E B C		
317		ER		2375N 1200E B C		
318		ER		2350N B C		
319		ER		2325N B C		
320		ER		2300N B C		
321		ER		2275N B C		
322		ER		2250N B C		
323		ER		2225N B C		
324		ER		2200N B C		
325		ER		2175N B C		
326		CL	ST	GX 10		
327		CL	ST	GX 12		
328		CL	ST	GX 12A		
329		CL	ST	GX 11		
330		CL	ST	GX 10		
331		ER		2200N 1550E B C		
332		ER		1525E B C		
333		ER		1500E B C		
334		ER		1475E R B C		
335		ER		1450E B C		
336		ER		1425E B C		
337		ER		1400E B C		
338		ER		1375E B C		
339		ER		1350E B C		
340		ER		1325E R B C		

DISBURSEMENT WHITE – to Assay Laboratory with order. PINK – to Computer Services. YELLOW – to Head Office filing.

CSR Limited 628
Minerals Exploration and Development Group

733029

Correspondence to: THE CHIEF GEOLOGIST
Box 483, G.P.O.
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Telephone: (02) 235 8333

FIELD SAMPLE DESPATCH SHEET

20208

Project No. 7611 Project Name PARSONS HOOD - WILSON GRID Date Required / /

Date Despatched 18/2/88 Despatcher PDE/REW Despatched per

CSR Order No. 44657 Consignment No.

Lab Name ANALABS

Preparation Method See sheet 20202

Element(s)/Method

CSR SAMPLE NUMBER	FIELD NUMBER	SAMPLE TYPE	CONTROL TYPE	SAMPLE DESCRIPTION	ORIGINAL NUMBER	SAMPLE WEIGHT SUBMITTED
A32134 1		ER		2200N 1300E RBC		
342		ER		1275E B C		
343		ER		1250E B C		
344		ER		1225E B C		
345		CL	ST	GX12A		
346		ER		2200N 1175E B C		
347		ER		1150E B C		
348		ER		1125E B C		
349		CL	ST	GX12		
350		CL	ST	GX11		

DISBURSEMENT: WHITE – to Assay Laboratory with order. PINK – to Computer Services. YELLOW – to Head Office filing.

629 733030

ANALABS

A division of MacDonald Hamilton & Co. Pty. Ltd.
Phone (09) 458 7999 52 Murray Road, Welshpool, W.A. 6106 Telex AA92560
FAX: 004 31 8690

ANALYTICAL REPORT No. 799.28.08.05182

THIS REPORT MUST BE READ IN CONJUNCTION WITH THE ACCOMPANYING ANALYTICAL DATA

Mr. D. Fehon
CSR Ltd., MEDG
G.P.O Box 483
Sydney
NSW 2001

ORDER No.	PROJECT
44657	ON 20202/08

DATE RECEIVED	RESULTS REQUIRED
22/02/88	ASAP

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No. OF SAMPLES
22	16/03/88	1	250

STATE OF SAMPLES	PRE-TREATMENT							ANALYSIS		
REFER BELOW	SAMPLE NUMBERS	DRY	CRUSH	SPLIT	PULVERISE	SIEVE	OTHER SEE REMARKS	NONE	REFER TO ANALYSIS SECTION	PREPARATION	METHOD
	KQ21101/350	30	Prep: 01a						Cu,Pb,Zn,Ag,Ni,Bi/101,As/114		
	KQ21101/350	30							Sn,W,Mo,Sb/401		

RESULTS TO
Mr. D. Fehon
CSR Ltd., MEDG
G.P.O Box 483
Sydney
NSW 2001

RESULTS TO
P.D. Ellis
CSR Ltd.
P.O. Box 384
Rosny Park
Tasmania 7018

REMARKS

STATE OF SAMPLES		ANALYSIS — PREPARATION				ANALYSIS — METHOD	
whole core	WC	perchloric acid	A1	cold acid	CA	atomic absorbtion	AAS
split core	SC	hydrochloric acid	A2	specific sulphide	SS	x-ray fluorescence	XRF
cutting	CU	nitric acid	A3	other mixed acids	Ma	spectrophotometry	SPEC
rock	Ro	aqua regia	A4	alkaline attack	AA	colorimetry	COL
soil	SO	nitric-perchloric	A5	volatilization	VO	chromatography	CHR
pulp	PU	HF mixture	A6	ignition	IG	titration	TTN
water	WA	HF under pressure	A7	pressed powder (XRF)	PP	other chemicals means	CHEM
tissue	TI	fusion	A8	glass fusion (XRF)	GF	miscellaneous	MISC
stream sediment	SS					fluorescence	FLUOR
heavy mineral	HM					inductively coupled plasma	ICP

AUTHORISED OFFICER

600

733031

ANALABS

A Division of Macdonald Hamilton & Co. Pty. Ltd.

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	999.26.08.05182	16/03/88	44657	1 OF 22

TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	Ni	Bi	As	Sn	Sb
1	A321101	100	60	100	<0.5	85	<10	5	3	<3
2	A321102	25	20	40	0.5	30	<10	7	<3	7
3	A321103	10	<5	15	0.5	25	<10	2	4	<3
4	A321104	5	<5	25	<0.5	25	<10	1	7	<3
5	A321105	10	<5	25	<0.5	25	<10	2	9	<3
6	A321106	10	<5	10	<0.5	15	<10	2	4	<3
7	A321107	10	<5	20	<0.5	20	<10	1	3	<3
8	A321108	10	<5	15	<0.5	20	<10	2	5	<3
9	A321109	10	<5	10	<0.5	20	<10	2	7	<3
10	A321110	5	<5	10	1.5	15	<10	2	3	<3
11	A321111	10	<5	10	1.0	25	<10	1	9	<3
12	A321112	10	5	20	1.0	25	<10	6	3	<3
13	A321113	20	30	50	1.5	45	<10	13	8	<3
14	A321114	80	20	70	1.5	60	<10	4	7	<3
15	A321115	55	15	60	1.0	45	<10	10	7	3
16	A321116	65	10	60	0.5	65	<10	4	3	3
17	A321117	55	10	110	0.5	65	<10	5	6	4
18	A321118	70	10	75	0.5	70	<10	5	<3	3
19	A321119	70	15	55	0.5	60	<10	7	6	4
20	A321120	70	20	80	1.0	80	<10	9	9	5
21	A321121	60	10	50	1.0	50	<10	5	7	<3
22	A321122	5	10	<5	<0.5	<5	<10	1	40	<3
23	A321123	50	5	35	0.5	50	<10	3	6	<3
24	A321124	50	10	45	0.5	60	<10	2	6	4
25	A321125	70	10	45	<0.5	45	<10	3	6	<3

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

AUTHORISED OFFICER Cheryl Cotton

631

733032

ANALABS

A Division of Macdonald Hamilton & Co. Pty Ltd.

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	999.28.08.05162	16/03/88	44657	2 OF 22

TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	Ni	Bi	As	Sn	Sb
1	A321126	35	5	25	0.5	35	<10	4	8	5
2	A321127	10	<5	15	0.5	30	<10	3	6	3
3	A321128	15	<5	20	<0.5	30	<10	2	5	<3
4	A321129	10	15	40	<0.5	35	<10	8	9	<3
5	A321130	10	<5	20	<0.5	25	<10	3	7	<3
6	A321131	10	5	20	1.0	25	<10	6	7	<3
7	A321132	10	<5	15	0.5	25	<10	7	9	<3
8	A321133	10	10	15	<0.5	20	<10	5	7	<3
9	A321134	10	<5	25	1.0	15	<10	5	3	3
10	A321135	25	50	20	<0.5	30	<10	3	3	<3
11	A321136	30	<5	20	<0.5	30	<10	2	8	5
12	A321137	20	5	30	<0.5	35	<10	2	<3	<3
13	A321138	45	10	35	0.5	35	<10	4	9	<3
14	A321139	55	15	30	<0.5	65	<10	5	8	<3
15	A321140	40	10	20	<0.5	45	<10	5	9	<3
16	A321141	15	5	15	1.0	25	<10	5	<3	<3
17	A321142	10	5	20	<0.5	20	<10	5	6	<3
18	A321143	15	10	40	0.5	40	<10	8	<3	<3
19	A321144	35	15	60	0.5	90	<10	13	5	<3
20	A321145	5	5	5	<0.5	5	<10	2	140	<3
21	A321146	10	10	20	0.5	35	<10	3	6	3
22	A321147	10	5	20	1.0	25	<10	3	5	<3
23	A321148	10	15	20	1.0	40	<10	6	6	<3
24	A321149	15	25	25	1.5	35	<10	6	4	5
25	A321150	25	15	25	0.5	40	<10	6	6	<3

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

AUTHORISED OFFICER Cheryl Cathro

002

733033

ANALABS

A Division of Macdonald Hamilton & Co. Pty. Ltd.

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	999.28.08.05182	16/03/88	44657	3 OF 32

TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	Ni	Bi	As	Sn	Sb
1	A321151	20	15	20	1.5	35	<10	5	<3	<5
2	A321152	30	5	20	1.0	30	<10	5	9	<5
3	A321153	10	<5	20	0.5	25	<10	4	6	6
4	A321154	10	<5	20	1.0	30	<10	2	9	<5
5	A321155	10	10	20	1.0	20	<10	5	7	<5
6	A321156	25	10	25	0.5	30	<10	5	3	<5
7	A321157	25	5	25	1.0	25	<10	5	6	<5
8	A321158	30	10	30	1.0	25	<10	3	5	<5
9	A321159	40	10	30	0.5	25	<10	3	9	<5
10	A321160	60	5	50	0.5	35	<10	4	6	4
11	A321161	50	10	40	1.0	35	<10	4	8	<5
12	A321162	70	15	45	0.5	30	10	4	8	<5
13	A321163	70	10	45	0.5	30	<10	3	8	7
14	A321164	85	13	65	1.0	40	<10	5	5	<5
15	A321165	95	10	70	0.5	40	<10	4	8	4
16	A321166	110	5	60	1.0	45	<10	6	9	8
17	A321167	85	15	80	1.0	70	<10	4	5	<5
18	A321168	130	5	70	1.0	105	<10	5	7	4
19	A321169	100	15	10	<0.5	60	<10	6	3	4
20	A321170	120	15	140	<0.5	170	<10	4	4	<5
21	A321171	160	5	145	<0.5	140	<10	2	8	5
22	A321172	80	15	50	<0.5	60	<10	5	4	<5
23	A321173	95	5	85	<0.5	95	<10	5	<3	<5
24	A321174	165	230	900	<0.5	210	<10	24	5	25
25	A321175	15	20	20	<0.5	10	<10	9	320	<5

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

AUTHORISED OFFICER Cheryl Cattrall

ANALABS

A Division of Macdonald Hamilton & Co. Pty. Ltd.

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	999.28.08.05182	16/03/88	44657	4 OF 22

TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	Ni	Bi	As	Sn	Sb
1	A321176	10	5	30	<0.5	20	<10	5	7	<3
2	A321177	15	<5	30	<0.5	30	<10	5	5	<3
3	A321178	20	<5	30	<0.5	20	<10	4	5	<3
4	A321179	35	<5	35	<0.5	30	<10	3	50	<3
5	A321180	40	5	35	<0.5	25	<10	2	4	3
6	A321181	60	5	40	<0.5	30	<10	4	4	9
7	A321182	70	20	80	<0.5	40	<10	4	9	<3
8	A321183	65	<5	40	<0.5	40	<10	3	9	4
9	A321184	60	5	50	<0.5	30	<10	5	9	<3
10	A321185	65	10	45	<0.5	40	<10	4	3	8
11	A321186	70	<5	50	<0.5	35	<10	4	4	<3
12	A321187	105	5	75	<0.5	30	<10	7	10	<3
13	A321188	125	10	120	<0.5	60	<10	5	<3	7
14	A321189	110	20	70	<0.5	60	<10	4	7	3
15	A321190	120	<5	90	<0.5	75	<10	2	<3	<3
16	A321191	115	50	90	<0.5	50	<10	6	<3	<3
17	A321192	70	25	55	<0.5	45	<10	3	<3	<3
18	A321193	60	25	45	1.0	40	<10	3	<3	4
19	A321194	60	20	40	1.5	40	<10	4	<3	4
20	A321195	55	15	40	<0.5	45	<10	4	<3	<3
21	A321196	30	5	30	<0.5	40	<10	3	<3	<3
22	A321197	20	5	20	<0.5	25	<10	3	<3	4
23	A321198	40	10	25	<0.5	25	<10	6	<3	<3
24	A321199	50	10	55	<0.5	30	<10	5	<3	<3
25	A321200	65	5	35	<0.5	40	<10	5	6	4

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

AUTHORISED OFFICER Cheryl Cattric

ANALABS

A Division of Macdonald Hamilton & Co. Pty. Ltd.

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	999.28.08.05182	16/03/88	44657	5 OF 22

TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	Ni	Bi	As	Sn	Sb
1	A321201	80	10	40	<0.5	40	<10	4	4	<3
2	A321202	105	20	50	0.5	60	<10	4	9	3
3	A321203	110	20	50	<0.5	70	<10	6	<3	4
4	A321204	100	20	55	<0.5	65	<10	5	45	4
5	A321205	50	15	30	<0.5	35	<10	6	10	<3
6	A321206	85	10	50	<0.5	55	<10	6	3	<3
7	A321207	135	15	70	<0.5	70	<10	5	7	<3
8	A321208	120	15	90	<0.5	55	<10	4	4	<3
9	A321209	105	10	70	0.5	35	<10	4	3	6
10	A321210	110	25	60	<0.5	30	<10	9	9	<3
11	A321211	125	20	130	<0.5	140	<10	11	4	<3
12	A321212	110	5	110	<0.5	130	<10	5	6	<3
13	A321213	120	10	100	<0.5	130	<10	5	7	<3
14	A321214	130	15	140	<0.5	115	<10	3	6	<3
15	A321215	5	5	<5	<0.5	5	<10	1	55	<3
16	A321216	25	<5	25	<0.5	20	<10	6	10	4
17	A321217	15	<5	20	0.5	15	<10	4	6	4
18	A321218	15	5	20	<0.5	10	<10	3	6	<3
19	A321219	15	<5	15	<0.5	10	<10	3	4	<3
20	A321220	15	<5	10	1.0	5	<10	2	3	<3
21	A321221	20	<5	15	<0.5	20	<10	3	3	<3
22	A321222	15	<5	15	<0.5	20	<10	3	4	<3
23	A321223	15	<5	10	<0.5	10	<10	2	5	<3
24	A321224	15	<5	10	<0.5	20	<10	2	7	<3
25	A321225	15	<5	15	<0.5	10	<10	3	6	6

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
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A Division of Macdonald Hamilton & Co. Pty Ltd.

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	999.28.08.05182	16/03/88	44657	6 OF 22

TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	Ni	Bi	As	Sn	Sb
1	A321226	20	<5	15	<0.5	15	<10	3	6	<3
2	A321227	15	<5	15	<0.5	15	<10	3	6	<3
3	A321228	20	<5	10	<0.5	15	<10	4	4	<3
4	A321229	35	15	40	<0.5	30	<10	9	5	3
5	A321230	30	5	40	0.5	20	<10	8	5	<3
6	A321231	30	<5	40	<0.5	30	<10	9	8	<3
7	A321232	35	10	50	<0.5	25	<10	7	8	<3
8	A321233	50	10	60	0.5	45	<10	6	15	<3
9	A321234	5	5	5	<0.5	5	<10	2	<3	15
10	A321235	145	<5	85	1.5	70	<10	4	5	<3
11	A321236	90	20	80	0.5	35	<10	7	5	3
12	A321237	110	15	80	0.5	60	<10	6	3	3
13	A321238	55	5	45	1.0	20	<10	3	<3	<3
14	A321239	65	30	35	<0.5	50	<10	5	<3	<3
15	A321240	100	25	70	<0.5	60	<10	7	6	4
16	A321241	110	20	20	<0.5	35	<10	5	3	3
17	A321242	110	55	120	<0.5	85	<10	6	<3	<3
18	A321243	120	25	100	<0.5	80	<10	4	6	<3
19	A321244	135	30	110	<0.5	90	<10	6	9	<3
20	A321245	85	15	65	1.0	60	<10	3	9	<3
21	A321246	115	65	105	1.0	70	<10	12	6	3
22	A321247	115	65	100	0.5	65	<10	10	3	3
23	A321248	115	45	100	0.5	70	<10	10	7	<3
24	A321249	105	30	115	<0.5	60	<10	6	8	<3
25	A321250	120	30	140	<0.5	115	<10	10	9	<3

Results in ppm unless otherwise specified
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A Division of Macdonald Hamilton & Co. Pty. Ltd.

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	999.28.08.05182	16/03/88	44657	7 OF 22

TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	Ni	Bi	As	Sn	Sb
1	A321251	SNR	-	-	-	-	-	-	SNR	-
2	A321252	55	35	55	<0.5	40	<10	7	6	6
3	A321253	70	20	60	<0.5	40	<10	4	<3	<3
4	A321254	30	25	50	<0.5	45	<10	7	<3	6
5	A321255	70	30	45	<0.5	50	<10	10	8	<3
6	A321256	70	35	45	<0.5	35	<10	14	<3	<3
7	A321257	60	20	40	<0.5	45	<10	10	4	6
8	A321258	80	25	40	<0.5	45	<10	6	<3	7
9	A321259	65	30	45	1.5	35	<10	7	5	6
10	A321260	90	25	70	<0.5	50	<10	8	<3	<3
11	A321261	75	25	60	1.0	40	<10	6	5	6
12	A321262	65	20	50	<0.5	35	<10	8	8	8
13	A321263	80	25	65	<0.5	45	<10	6	10	6
14	A321264	75	25	60	<0.5	40	<10	7	<3	7
15	A321265	100	20	90	<0.5	45	<10	4	<3	<3
16	A321266	80	30	80	<0.5	50	<10	4	4	<3
17	A321267	65	30	60	1.0	45	<10	4	<3	<3
18	A321268	70	30	80	<0.5	50	<10	4	15	<3
19	A321269	70	20	60	<0.5	45	<10	5	10	<3
20	A321270	100	25	60	<0.5	50	<10	6	9	5
21	A321271	80	30	50	<0.5	45	<10	10	6	6
22	A321272	65	20	55	<0.5	90	<10	9	7	<3
23	A321273	70	550	390	<0.5	120	<10	22	5	<3
24	A321274	70	75	90	0.5	55	<10	8	6	<3
25	A321275	80	25	60	1.0	45	<10	6	4	<3

Results in ppm unless otherwise specified
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A Division of Macdonald Hamilton & Co. Pty Ltd.

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	999.28.08.05182	16/03/88	44657	8 OF 22

TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	Ni	Bi	As	Sn	Sb
1	A321276	90	15	60	0.5	45	<10	4	8	<3
2	A321277	110	15	60	<0.5	50	<10	6	5	<3
3	A321278	90	15	395	<0.5	50	<10	6	9	3
4	A321279	100	15	65	0.5	60	<10	5	5	4
5	A321280	120	15	75	0.5	50	<10	13	7	<3
6	A321281	110	20	60	0.5	50	<10	9	5	<3
7	A321282	115	20	100	0.5	60	<10	9	5	<3
8	A321283	105	25	95	<0.5	50	<10	10	5	3
9	A321284	90	20	65	0.5	40	<10	9	6	<3
10	A321285	110	30	110	2.0	95	<10	7	9	4
11	A321286	90	25	110	1.0	60	<10	5	9	<3
12	A321287	90	20	90	2.5	50	<10	6	6	3
13	A321288	70	25	70	1.0	35	<10	5	<3	<3
14	A321289	80	25	65	1.5	40	<10	2	8	<3
15	A321290	75	25	60	1.5	40	<10	2	10	3
16	A321291	90	20	90	2.5	70	<10	4	9	<3
17	A321292	60	30	60	2.0	40	<10	3	9	<3
18	A321293	65	25	60	2.0	45	<10	2	10	3
19	A321294	60	30	55	2.0	40	<10	3	10	3
20	A321295	10	20	20	<0.5	5	30	7	310	<3
21	A321296	55	30	50	2.5	40	<10	3	9	4
22	A321297	55	35	50	1.5	40	<10	3	8	<3
23	A321298	60	35	55	1.0	45	20	5	8	3
24	A321299	30	20	30	1.5	25	<10	3	8	3
25	A321300	170	225	885	<0.5	210	<10	24	6	25

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A Division of Macdonald Hamilton & Co. Pty. Ltd.

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	999.28.06.05182	16/03/88	44657	9 OF 22

TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	Ni	Bi	As	Sn	Sb
1	A321301	25	15	25	1.5	25	<10	4	4	<3
2	A321302	25	15	40	<0.5	30	<10	4	7	<3
3	A321303	60	30	40	0.5	40	20	6	8	<3
4	A321304	30	25	35	0.5	30	<10	6	5	3
5	A321305	30	30	30	1.0	40	<10	8	8	3
6	A321306	20	45	25	1.0	40	<10	9	7	7
7	A321307	10	15	20	<0.5	20	<10	4	8	<3
8	A321308	30	35	40	0.5	35	<10	11	5	3
9	A321309	30	40	45	0.5	40	<10	11	8	<3
10	A321310	5	5	5	<0.5	10	20	2	150	<3
11	A321311	40	45	50	1.5	65	<10	14	3	3
12	A321312	90	20	80	2.5	70	<10	4	4	5
13	A321313	65	20	70	0.5	50	20	4	5	<3
14	A321314	110	15	95	1.0	45	<10	4	7	<3
15	A321315	140	20	120	2.0	100	<10	4	7	<3
16	A321316	130	20	115	1.5	125	<10	4	3	4
17	A321317	90	35	80	1.0	60	20	7	5	<3
18	A321318	90	30	60	1.5	50	<10	5	9	7
19	A321319	40	15	40	0.5	30	20	5	8	3
20	A321320	45	20	40	2.5	30	<10	5	7	<3
21	A321321	90	25	85	1.5	65	<10	4	<3	<3
22	A321322	115	20	90	1.5	65	30	5	6	3
23	A321323	100	20	70	1.5	45	20	3	4	4
24	A321324	90	20	55	<0.5	40	20	6	6	4
25	A321325	130	40	85	1.0	55	<10	17	6	4

Results in ppm unless otherwise specified
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A Division of Macdonald Hamilton & Co. Pty. Ltd.

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	999.28.08.05162	16/03/88	44657	10 OF 22

TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	Ni	Bi	As	Sn	Sb
1	A321326	5	5	<5	<0.5	10	<10	<1	60	<3
2	A321327	170	230	875	0.5	195	<10	24	8	<3
3	A321328	15	20	25	0.3	15	<10	8	4	25
4	A321329	10	5	5	0.5	5	<10	2	150	<3
5	A321330	5	5	<5	0.5	10	20	1	50	<3
6	A321331	100	40	70	1.5	70	<10	5	8	<3
7	A321332	120	45	75	1.5	70	<10	5	5	<3
8	A321333	65	15	100	2.0	70	<10	3	7	<3
9	A321334	150	10	90	2.0	65	<10	8	8	<3
10	A321335	105	25	130	0.5	135	<10	7	8	4
11	A321336	80	25	70	0.5	70	40	6	6	<3
12	A321337	115	15	135	1.5	80	<10	5	8	<3
13	A321338	110	15	120	1.0	65	<10	6	6	3
14	A321339	105	15	130	0.5	195	30	3	8	4
15	A321340	80	20	90	<0.5	60	40	7	6	4
16	A321341	100	10	105	2.5	85	<10	12	5	3
17	A321342	115	20	120	1.5	110	<10	6	5	<3
18	A321343	140	10	90	1.5	115	30	4	5	<3
19	A321344	110	20	80	0.5	60	30	6	7	3
20	A321345	10	20	20	<0.5	10	<10	9	340	<3
21	A321346	55	15	45	1.0	45	<10	8	9	3
22	A321347	40	10	35	<0.5	40	<10	7	8	4
23	A321348	35	15	35	0.5	35	20	9	6	5
24	A321349	165	230	880	<0.5	200	<10	25	5	25
25	A321350	10	5	5	<0.5	15	<10	2	150	<3

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ANALABS

A Division of Macdonald Hamilton & Co. Pty Ltd.

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	999.28.08.05182	16/03/88	44657	11 OF 22

TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	Ni	Bi	As	Sn	Sb
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21	NOTE: SNR Denotes sample not received.									
22	DETECTION	5	5	5	0.5	5	10	1	3	3
23	UNITS	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
24	METHOD	101	101	101	101	101	101	114	401	401
25										

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ANALABS

A Division of Macdonald Hamilton & Co. Pty. Ltd.

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	999.28.08.05182	16/03/88	44657	12 OF 22

TUBE No.	SAMPLE No.	Ba	W							
1	A321101	80	<20							
2	A321102	150	<20							
3	A321103	100	<20							
4	A321104	160	<20							
5	A321105	95	<20							
6	A321106	80	<20							
7	A321107	50	<20							
8	A321108	120	<20							
9	A321109	90	<20							
10	A321110	50	<20							
11	A321111	40	<20							
12	A321112	260	<20							
13	A321113	410	<20							
14	A321114	60	<20							
15	A321115	280	<20							
16	A321116	210	<20							
17	A321117	75	<20							
18	A321118	170	<20							
19	A321119	100	<20							
20	A321120	80	<20							
21	A321121	50	<20							
22	A321122	<10	<20							
23	A321123	50	<20							
24	A321124	30	<20							
25	A321125	15	<20							

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ANALABS

A Division of Macdonald Hamilton & Co. Pty. Ltd.

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	999.28.08.05182	16/03/88	44657	13 OF 22

TUBE No.	SAMPLE No.	Ba	W							
1	A321126	<10	<20							
2	A321127	25	<20							
3	A321128	10	<20							
4	A321129	220	<20							
5	A321130	100	<20							
6	A321131	140	<20							
7	A321132	170	<20							
8	A321133	120	<20							
9	A321134	110	<20							
10	A321135	130	<20							
11	A321136	130	<20							
12	A321137	110	<20							
13	A321138	100	<20							
14	A321139	75	<20							
15	A321140	85	<20							
16	A321141	70	<20							
17	A321142	200	<20							
18	A321143	340	<20							
19	A321144	330	<20							
20	A321145	<10	<20							
21	A321146	95	<20							
22	A321147	60	<20							
23	A321148	75	<20							
24	A321149	120	<20							
25	A321150	75	<20							

Results in ppm unless otherwise specified
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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	999.28.08.05102	16/03/88	44657	14 OF 22

TUBE No.	SAMPLE No.	Ba	W							
1	A321151	80	<20							
2	A321152	50	<20							
3	A321153	30	<20							
4	A321154	50	<20							
5	A321155	140	<20							
6	A321156	120	<20							
7	A321157	130	<20							
8	A321158	90	<20							
9	A321159	85	<20							
10	A321160	85	<20							
11	A321161	45	<20							
12	A321162	75	<20							
13	A321163	85	<20							
14	A321164	90	<20							
15	A321165	45	<20							
16	A321166	60	<20							
17	A321167	75	<20							
18	A321168	60	<20							
19	A321169	110	<20							
20	A321170	60	<20							
21	A321171	60	<20							
22	A321172	100	<20							
23	A321173	110	<20							
24	A321174	290	<20							
25	A321175	<10	<20							

Results in ppm unless otherwise specified
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ANALABS

A Division of Macdonald Hamilton & Co. Pty. Ltd.

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	999.28.08.05182	16/03/88	44657	15 OF 22

TUBE No.	SAMPLE No.	Ba	W							
1	A321176	130	<20							
2	A321177	140	<20							
3	A321178	120	<20							
4	A321179	40	<20							
5	A321180	35	<20							
6	A321181	45	<20							
7	A321182	15	<20							
8	A321183	60	<20							
9	A321184	65	<20							
10	A321185	60	<20							
11	A321186	70	<20							
12	A321187	50	<20							
13	A321188	75	<20							
14	A321189	65	<20							
15	A321190	80	<20							
16	A321191	50	<20							
17	A321192	50	<20							
18	A321193	60	<20							
19	A321194	70	<20							
20	A321195	45	<20							
21	A321196	55	<20							
22	A321197	60	<20							
23	A321198	95	<20							
24	A321199	30	<20							
25	A321200	15	<20							

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

AUTHORISED OFFICER Cheryl Cathie

045

733046

ANALABS

A Division of Macdonald Hamilton & Co. Pty. Ltd.

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	999.28.08.05182	16/03/88	44657	16 OF 22

TUBE No.	SAMPLE No.	Ba	W							
1	A321201	20	<20							
2	A321202	40	<20							
3	A321203	40	<20							
4	A321204	40	<20							
5	A321205	55	<20							
6	A321206	100	<20							
7	A321207	30	<20							
8	A321208	40	<20							
9	A321209	40	<20							
10	A321210	80	<20							
11	A321211	280	<20							
12	A321212	100	<20							
13	A321213	85	<20							
14	A321214	180	<20							
15	A321215	10	<20							
16	A321216	140	<20							
17	A321217	170	<20							
18	A321218	150	<20							
19	A321219	160	<20							
20	A321220	100	<20							
21	A321221	130	<20							
22	A321222	55	<20							
23	A321223	75	<20							
24	A321224	35	<20							
25	A321225	130	<20							

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

AUTHORISED OFFICER Cheryl Cathie

646 733047

ANALABS

A Division of Macdonald Hamilton & Co. Pty. Ltd.

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	999.28.08.05182	16/03/88	44657	17 OF 22

TUBE No.	SAMPLE No.	Ba	W							
1	A321226	140	<20							
2	A321227	150	<20							
3	A321228	130	<20							
4	A321229	280	<20							
5	A321230	270	<20							
6	A321231	310	<20							
7	A321232	360	<20							
8	A321233	220	<20							
9	A321234	10	<20							
10	A321235	<10	<20							
11	A321236	25	<20							
12	A321237	<10	<20							
13	A321238	120	<20							
14	A321239	120	<20							
15	A321240	60	<20							
16	A321241	75	<20							
17	A321242	180	<20							
18	A321243	60	<20							
19	A321244	70	<20							
20	A321245	170	<20							
21	A321246	75	<20							
22	A321247	45	<20							
23	A321248	150	<20							
24	A321249	50	<20							
25	A321250	100	<20							

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

AUTHORISED OFFICER Cheryl Cathie

627

733048

ANALABS

A Division of Macdonald Hamilton & Co. Pty. Ltd.

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	999.28.08.05182	16/03/88	44657	18 OF 22

TUBE No.	SAMPLE No.	Ba	W							
1	A321251	-	-							
2	A321252	90	<20							
3	A321253	70	<20							
4	A321254	50	<20							
5	A321255	75	<20							
6	A321256	75	<20							
7	A321257	50	<20							
8	A321258	45	<20							
9	A321259	55	<20							
10	A321260	100	<20							
11	A321261	100	<20							
12	A321262	45	<20							
13	A321263	80	<20							
14	A321264	75	<20							
15	A321265	110	<20							
16	A321266	110	<20							
17	A321267	85	<20							
18	A321268	90	<20							
19	A321269	70	<20							
20	A321270	70	<20							
21	A321271	25	<20							
22	A321272	25	<20							
23	A321273	240	<20							
24	A321274	75	<20							
25	A321275	70	<20							

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

AUTHORISED OFFICER Cheryl Cattrall

ANALABS

A Division of Macdonald Hamilton & Co. Pty. Ltd.

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	999.28.08.05162	16/03/88	44657	19 OF 22

TUBE No.	SAMPLE No.	Ba	W							
1	A321276	65	<20							
2	A321277	85	<20							
3	A321278	85	<20							
4	A321279	45	<20							
5	A321280	55	<20							
6	A321281	70	<20							
7	A321282	130	<20							
8	A321283	140	<20							
9	A321284	220	<20							
10	A321285	95	<20							
11	A321286	130	<20							
12	A321287	160	<20							
13	A321288	140	<20							
14	A321289	80	<20							
15	A321290	70	<20							
16	A321291	80	<20							
17	A321292	60	<20							
18	A321293	80	<20							
19	A321294	60	<20							
20	A321295	<10	<20							
21	A321296	<10	<20							
22	A321297	<10	<20							
23	A321298	<10	<20							
24	A321299	20	<20							
25	A321300	290	<20							

Results in ppm unless otherwise specified
T = element present: but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

AUTHORISED OFFICER Cheryl Cattle

ANALABS

A Division of Macdonald Hamilton & Co. Pty. Ltd.

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	999.28.08.05162	16/03/88	44657	20 OF 22

TUBE No.	SAMPLE No.	Ba	W							
1	A321301	55	<20							
2	A321302	25	<20							
3	A321303	50	<20							
4	A321304	25	<20							
5	A321305	70	<20							
6	A321306	80	<20							
7	A321307	55	<20							
8	A321308	120	<20							
9	A321309	110	<20							
10	A321310	10	<20							
11	A321311	210	<20							
12	A321312	260	<20							
13	A321313	80	<20							
14	A321314	160	<20							
15	A321315	140	<20							
16	A321316	130	<20							
17	A321317	70	<20							
18	A321318	25	<20							
19	A321319	35	<20							
20	A321320	110	<20							
21	A321321	80	<20							
22	A321322	30	<20							
23	A321323	60	<20							
24	A321324	60	<20							
25	A321325	95	<20							

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

AUTHORISED OFFICER Cheryl Cathie

650 733051

5

ANALABS

A Division of Macdonald Hamilton & Co. Pty. Ltd.

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	799.28.06.05182	16/03/88	44657	21 OF 32

TUBE No.	SAMPLE No.	Ba	W							
1	A321326	<10	<20							
2	A321327	<10	<20							
3	A321328	280	<20							
4	A321329	20	<20							
5	A321330	<10	<20							
6	A321331	85	<20							
7	A321332	20	<20							
8	A321333	120	<20							
9	A321334	40	<20							
10	A321335	<10	<20							
11	A321336	30	<20							
12	A321337	<220	<20							
13	A321338	430	<20							
14	A321339	130	<20							
15	A321340	330	<20							
16	A321341	270	<20							
17	A321342	90	<20							
18	A321343	70	<20							
19	A321344	15	<20							
20	A321345	<10	<20							
21	A321346	130	<20							
22	A321347	210	<20							
23	A321348	210	<20							
24	A321349	290	<20							
25	A321350	10	<20							

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

AUTHORISED OFFICER Cheryl Cathie

651

733052

ANALABS

A Division of Macdonald Hamilton & Co. Pty. Ltd.

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	999.28.08.05182	16/03/88	44657	22 OF 22

TUBE No.	SAMPLE No.	Ba	W							
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21	NOTE: SNR	Denotes	sample	not	received.					
22	DETECTION	10	20							
23	UNITS	PPM	PPM							
24	METHOD	401	401							
25										

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

AUTHORISED OFFICER Cheryl Cathie

APPENDIX III

VLF-EM READINGS FOR LINE 3600N

SALMON GRID

VLF-EM LINE 3600N

LINE COORDINATE	INCLINATION	PHASE
1025	0	-20
1000	0	-18
975	-5	- 2
950	-10	- 3
925	-10	2
900	-10	6
875	-10	6
850	-13	11
825	-10	10
800	0	10
775	10	6
750	0	6
725	-10	7
700	-25	-5
675	-25	-4
650	-25	-1
625	-27	-8
600	-33	-12

E.L. 31/82

E.L. 25/85

HRG 22 HRG 20 HRG 18 HRG 16 HRG 14 HRG 12 HRG 10 HRG 13 HRG 11 HRG 9 HRG 8 HRG 7 HRG 6 HRG 5 HRG 4

ML 16 ML 15 ML 14 ML 17 ML 18 ML 10 ML 10.5 ML 9.5 ML 8.5 ML 8 ML 7.5 ML 7 ML 6.5 ML 6 ML 5 ML 4.5 ML 4 ML 3 ML 2 ML 1

HARMAN RIVER

WILSON RIVER

HYDRO ELECTRIC COMMISSION LOWER PIEMAN DAM - TULLAH ROAD

SALMON GRID

240N 250N 230N 6000N 5600N 6400N 5200N 220N 210N

5 386 000 m N

5 384 000 m N

5 382 000 m N

5 380 000 m N

REFERENCE

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

QUATERNARY	Qg	Glacial derived gravels
	Qra	Alluvium
TERTIARY	Tg	Gravels
DEVONIAN	Db	Bell Slate
	DF	Florence Quartzite
SILURIAN	Sas	Siliceous sandstone — Amber Slate
	Sa	Undifferentiated — Amber Slate
	Sc	Crotty Quartzite
ORDOVICIAN	Og	Gordon Limestone
CAMBRIAN	€dh	Hutchinson Formation
	€h	Hornfelsed — Crimson Creek Formation
	€g	Mainly tuffs, some clastic sediments — Crimson Creek Formation
	€m	Mainly fine clastic sediments, some tuffs — Crimson Creek Formation
	€c	Undifferentiated — Crimson Creek Formation
	€cu	Upper chert — Success Creek Formation
	€cd	Chert, undifferentiated — Success Creek Formation
	€cl	Lower chert — Success Creek Formation
	€lb	Undifferentiated — Penaon Bell Formation — Success Creek Formation
	€lr	Laminated siliceous siltstone with some sandstone and conglomerate — Penaon Bell Formation — Success Creek Formation
	€l	Undifferentiated — Penaon Bell Formation — Success Creek Formation
	€ss	Black mudstones and siltstones with minor sandstone — Success Creek Formation
	€sd	Quartz sandstone - Dalcoath Formation — Success Creek Formation
	€sc	Polymic conglomerate with minor sandstone — Success Creek Formation
PRECAMBRIAN	pE	Quartzites, siltstones, shales (graphitic/slumped), mudstones/siltstones
INTRUSIVES		
DEVONIAN	Dg	Granite
CAMBRIAN	€s	Serpentinites
	€gb	Gabbro and basic intrusives
		Mineralized zones - Crimson Creek Formation

CSR LIMITED-MEDG

E.L. 25/85 PARSONS HOOD, TASMANIA

88-2863

INTERPRETATIVE GEOLOGY

(North Sheet)

733055 7765

SCALE	1:10,000
DRAWN	P.D.E./P.R.
DATE	Jan '86
REVISED	Sept '86, Jan '88
DRG No	7611-1

E.L. 31 82

E.L. 25/85

SALMON GRID

WILSON GRID

SOUTH PIEMAN GRID

MERTON HILL GRID

PIEMAN RIVER

FORESTRY ACCESS ROAD

5 380 000mN

5 378 000mN

5 376 000mN

5 374 000mN

382 000mE

364 000mE

366 000mE

REFERENCE

- Watercourse
- Road
- Vehicle track, walking track
- E.L. boundary
- Grid lines
- Geological boundary
- 70° Strike and dip of bedding
- Fault

QUATERNARY	Qg	Glacial derived gravels
	Qra	Alluvium
TERTIARY	Tg	Gravels
DEVONIAN	Db	Bell Slate
	DF	Florentine Quartzite
SILURIAN	Sas	Siliceous sandstone — Amber Slate
	Sa	Undifferentiated — Amber Slate
	Sc	Crotty Quartzite
ORDOVICIAN	Og	Gordon Limestone
CAMBRIAN	€dh	Hoskisson Formation
	€h	Hornfelsed
	€g	Mainly tuffs, some clastic sediments — Crimson Creek Formation
	€m	Mainly fine clastic sediments, some tuffs — Crimson Creek Formation
	€c	Undifferentiated — Crimson Creek Formation
	€cu	Upper chert — Success Creek Formation
	€cd	Chert, undifferentiated — Success Creek Formation
	€cl	Lower chert — Success Creek Formation
	€lb	Undifferentiated — Remson Bell Formation — Success Creek Formation
	€lr	Laminated siliceous siltstone with some sandstone and conglomerate — Remson Bell Formation — Success Creek Formation
	€l	Undifferentiated — Success Creek Formation
	€ss	Black mudstones and siltstones with minor sandstone — Success Creek Formation
	€sd	Quartz sandstone – Dalcoath Formation — Success Creek Formation
	€sc	Polymic conglomerate with minor sandstone — Success Creek Formation
PRECAMBRIAN	pЄ	Quartzites, siltstones, shales (graphitic/stumpea), mudstones/siltstones
INTRUSIVES		
DEVONIAN	Dg	Granite
	€s	Serpentenites
CAMBRIAN	€gb	Gabbro and basic intrusives

Mineralized zones – Crimson Creek Formation

5 cm

CSR LIMITED-MEDG

E.L. 25/85 PARSONS HOOD, TASMANIA

733056

INTERPRETATIVE GEOLOGY

(South Sheet)

88-2863 1 7766

SCALE	1:10,000
DRAWN	P.D.E./P.R.
DATE	Jan '86
REVISED	Sept '86 Jan '88

DRG. No. **7611-2**

E.L.25/85

360000mE

365000mE

5380000mN

5375000mN

HARMAN RIVER

PIEMAN RIVER

WILSON RIVER

HYDRO ELECTRIC COMMISSION LOWER PIEMAN DAM - TULLAH ROAD

SALMON GRID

WILSON GRID

SOUTH PIEMAN GRID

FORESTRY ACCESS ROAD

HRG8 HRG7 HRG6 HRG5 HRG4

ML19.5 ML19 ML18.5 ML18 ML17.5 ML17 ML16.5 ML16 ML15.5 ML15 ML14.5 ML14 ML13.5 ML13 ML12.5 ML12 ML11.5 ML11 ML10.5 ML10 ML9.5 ML9 ML8.5 ML8 ML7.5 ML7 ML6.5 ML6 ML5.5 ML5 ML4.5 ML4 ML3.5 ML3 ML2.5 ML2 ML1.5 ML1

MV7 MV6 MV5 MV4 MV3 MV2 MV1 MV0

Dg Granite

Qra Alluvium

Qg Glacial derived gravels

Og Gordon Limestone

Tg Gravels

Db Bell Shale

DF Florence Quartzite

Sas Siliceous sandstone

Sa Undifferentiated — Amber Slate

Sc Crotty Quartzite

Ss Serpentinites

Cgb Gabbro and basic intrusives

Cdh Hushisson Formation

Ch Hornfelsed

Cg Mainly tuffs, some clastic sediments

Cm Mainly fine clastic sediments, some tuffs

Cc Undifferentiated — Crimson Creek Formation

Ccu Upper chert

Ccd Chert, undifferentiated

Ccl Lower chert

Clb Undifferentiated

Clr Laminated siliceous siltstone with some sandstone and conglomerate — Renison Bell Formation

Cl Undifferentiated — Success Creek Formation

Css Black mudstones and siltstones with minor sandstone

Csd Quartz sandstone - Dalcoath Formation

Csc Polymic conglomerate with minor sandstone

pC Quartzites, siltstones, shales (graphitic/slumped), mudstones/siltstones

REFERENCE

- Watercourse
- Road
- Vehicle track, walking track
- E.L. boundary
- Grid lines
- Geological boundary
- 70° Strike and dip of bedding
- Fault

QUATERNARY — Qg Glacial derived gravels; Qra Alluvium

TERTIARY — Tg Gravels

DEVONIAN — Db Bell Shale; DF Florence Quartzite

SILURIAN — Sas Siliceous sandstone; Sa Undifferentiated (Amber Slate); Sc Crotty Quartzite

ORDOVICIAN — Og Gordon Limestone

CAMBRIAN — Cdh Hushisson Formation; Ch Hornfelsed; Cg Mainly tuffs, some clastic sediments; Cm Mainly fine clastic sediments, some tuffs; Cc Undifferentiated (Crimson Creek Formation); Ccu Upper chert; Ccd Chert, undifferentiated; Ccl Lower chert; Clb Undifferentiated; Clr Laminated siliceous siltstone with some sandstone and conglomerate (Renison Bell Formation); Cl Undifferentiated; Css Black mudstones and siltstones with minor sandstone; Csd Quartz sandstone - Dalcoath Formation; Csc Polymic conglomerate with minor sandstone (Success Creek Formation)

PRECAMBRIAN — pC Quartzites, siltstones, shales (graphitic/slumped), mudstones/siltstones

INTRUSIVES

DEVONIAN — Dg Granite

Ss Serpentinites

CAMBRIAN — Cgb Gabbro and basic intrusives

Mineralized zones - Crimson Creek Formation

5 cm

CSR LIMITED - MEDG

E.L. 25/85 PARSONS HOOD, TASMANIA

733057

INTERPRETATIVE GEOLOGY

88 - 2863 7767

SCALE	1:10,000
DRAWN	P.D.E./P.R.
DATE	Jan. '86
REVISED	Sept '86, Jan. '88

DRG. No. **7611-4**

365 000 mE

5 380 000 mN

PARSONS HOOD

WILSON RIVER

SALMON CREEK

MT. ELIZABETH TRACK

MT. ELIZABETH ROAD

REFERENCE

- FLIGHT LINE SHOWING LINE No.
- 2250 — ISOMAGNETIC CONTOURS, 50 GAMMAS CONTOUR INTERVAL (Add 62,000 gammas to values shown for total Field magnetic intensity)
- MAGNETIC LOW CLOSURE
- CATEGORY 1 σt > 100 MHOS SIGNAL NOISE > 2
- CATEGORY 2 10 ≤ σt ≤ 100 MHOS SIGNAL NOISE > 2
- CATEGORY 3 σt < 10 MHOS SIGNAL NOISE > 2
- 166 / 150/- ANOMALY CODE No. / DEPTH TO CURRENT AXIS IN m / σt IN MHOS
- BANDED CONDUCTOR
- MULTIPLE SURFACE CONDUCTORS
- (23) CONDUCTOR AXIS AND CODE
- FLAT LYING CONDUCTOR OR CONDUCTIVE REGION
- E.L. BOUNDARY

5 cm

733058

NOTE : MAGNETICS BY SCINTREX Jan. 1973

CSR LIMITED - MEDG

E.L. 25/85 PARSONS HOOD, TASMANIA

TURAIR MAGNETICS & EM ANOMALIES

88 - 2863 7768

SCALE : 1 10,000 (Approx.)	DRG. No. 7611 - 5
DRAWN : P.D.E./	
DATE : Jan. '86	
REVISED :	

E.L.25/85

365 000 mE
5 380 000 mN

366 000 mE
5 378 000 mN

367 000 mE
5 376 000 mN

AREA `A´

AREA `B´

AREA `C´

AREA `D´

AREA `E´

M.N.

REFERENCE

GEOCHEMISTRY (PPM)

100 Cu

15 Sn

12.5 As

5 cm

733059

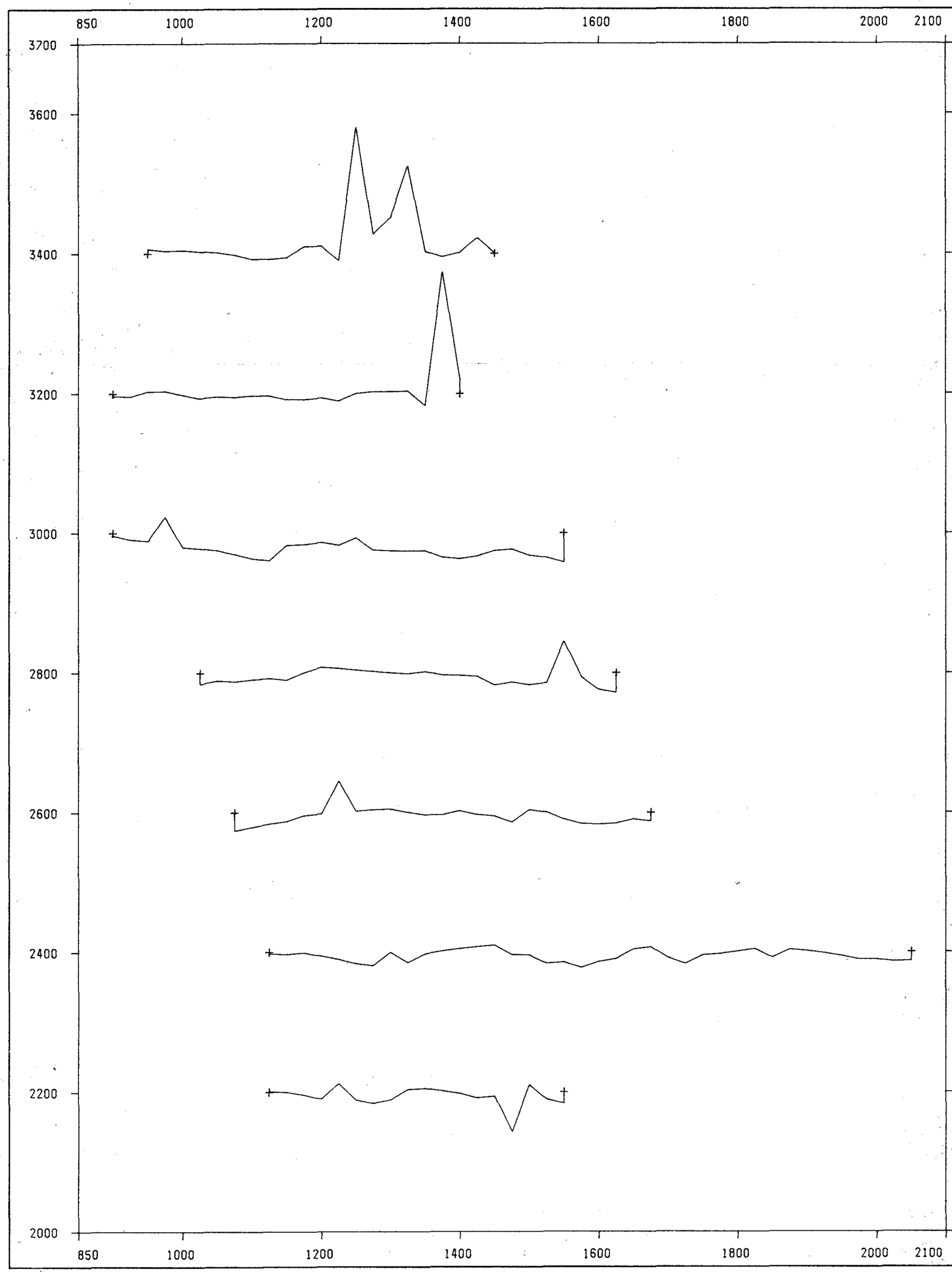
CSR LIMITED - MEDG

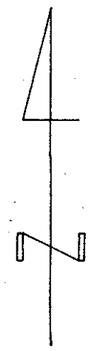
E.L. 25/85 PARSONS HOOD, TASMANIA

SOIL GEOCHEMISTRY

88 - 2863 7769

SCALE : 1:10,000	DRG No
DRAWN :	7611 - 6
DATE : Jan '86	
REVISED :	





nT
62200.0
62050.0
61900.0
61750.0
61600.0

5 cm

METRES

100 50 0 50 100 150 200 250 300 350 400 450 500

733060

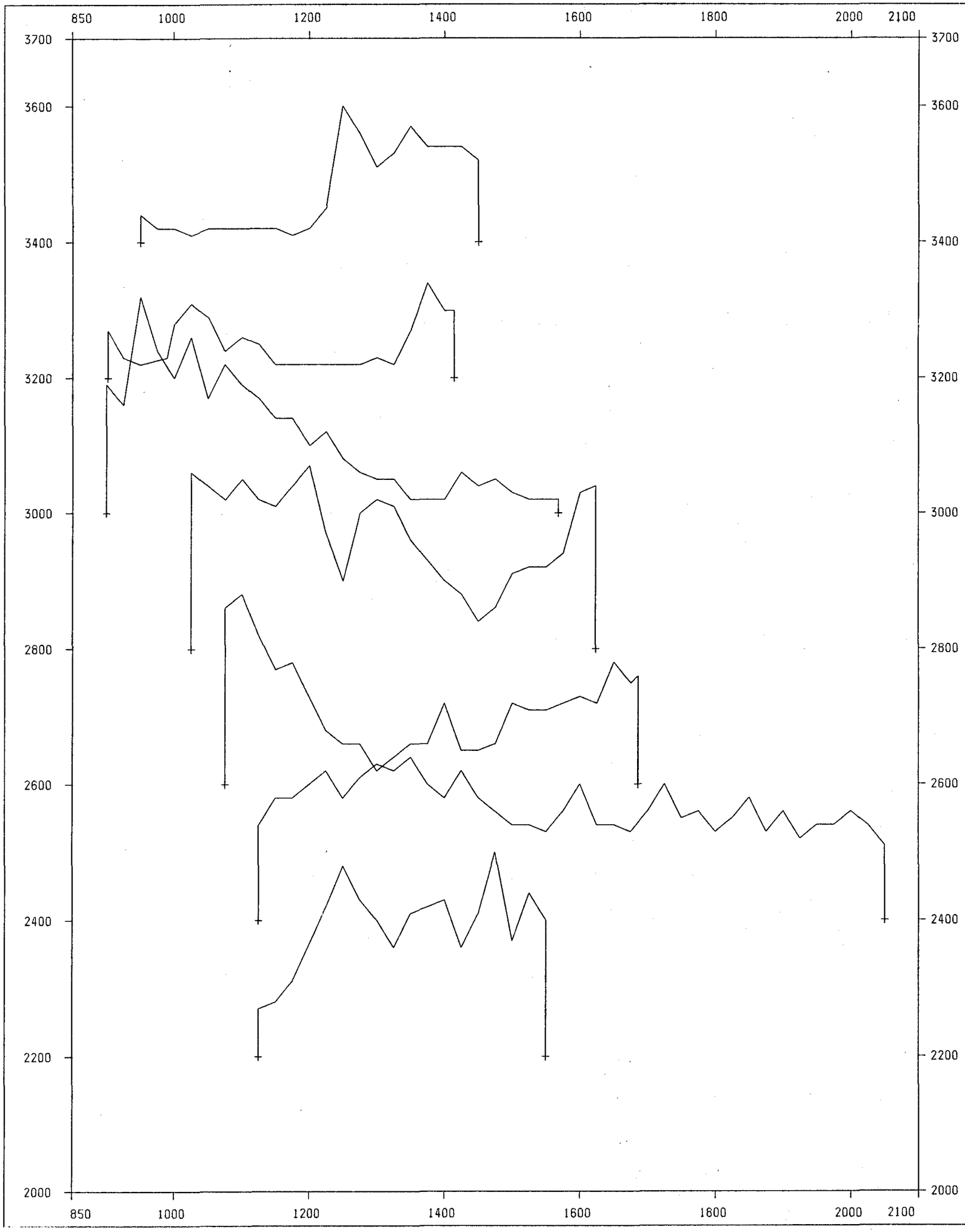
88-2863

CSR Limited - MEDG

PARSONS HOOD EL 25/85
WILSON GRID
GROUND MAGNETICS 150 nT/cm.

SCALE:	1:5000	DATE:	22/7/1988
DRAWN:	PRG	REVN	PLAN NO
CHECKED:			7611-18
APPROVED:			

7770



5 cm

METRES

100 50 0 50 100 150 200 250 300 350 400 450 500

733061

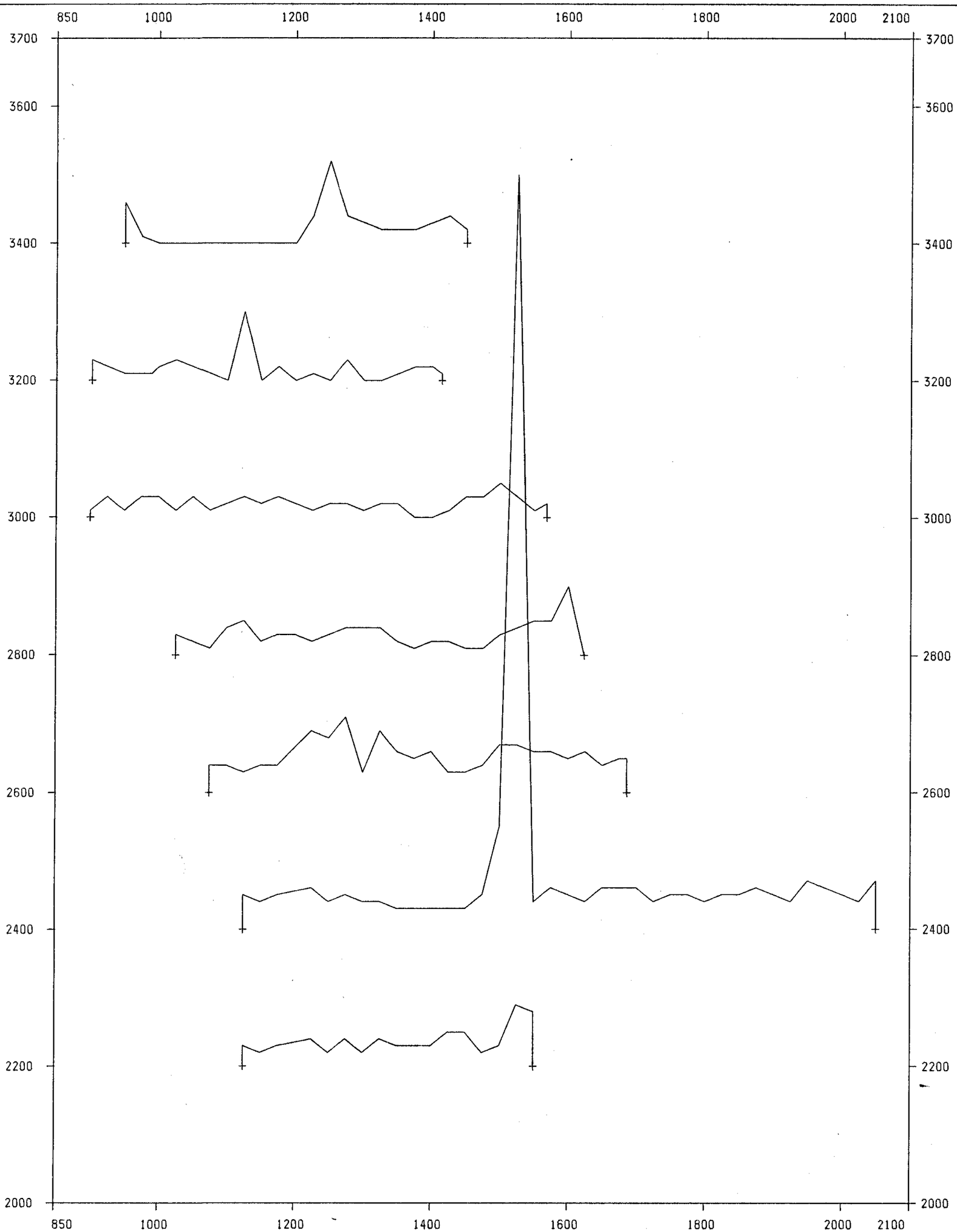
88-2863

CSR Limited - MEDG

PARSONS HOOD EL 25/85
WILSON GRID
COPPER SOIL PROFILES (25 ppm/c

SCALE:	1:5000	DATE:	8/6/1988
DRAWN:	PRG	REVN	PLAN NO
CHECKED:			7611-19
APPROVED:	PDE		

7771



5 cm

METRES

100 50 0 50 100 150 200 250 300 350 400 450 500

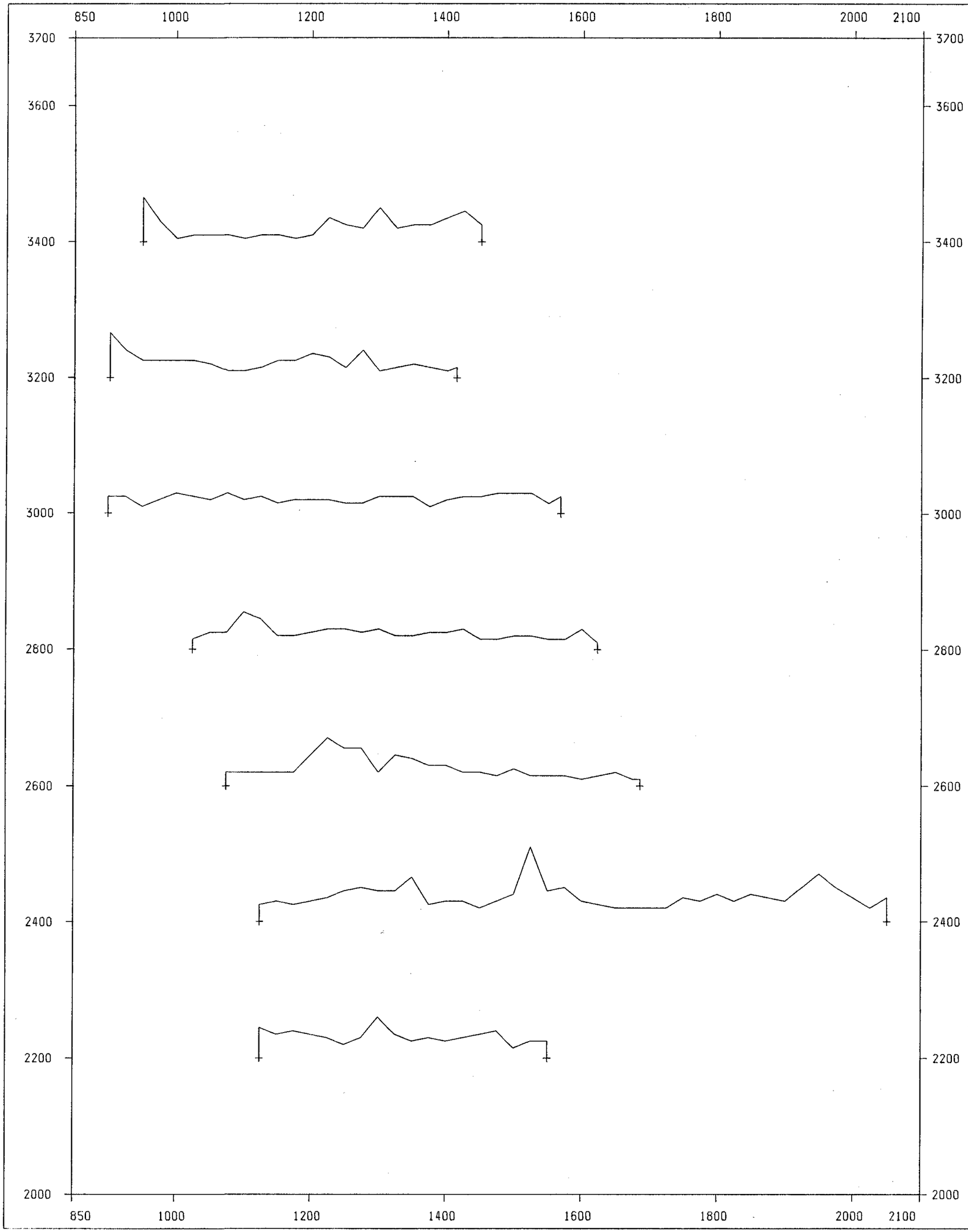
88-2863 733062

CSR Limited - MEDG

PARSONS HOOD EL 25/85
WILSON GRID
LEAD SOIL PROFILES (25 ppm/cm)

SCALE:	1:5000	DATE:	8/6/1988
DRAWN:	PRG	REVN	PLAN NO
CHECKED:			7611-20
APPROVED:	PDE		

7772



5 cm

METRES

100 50 0 50 100 150 200 250 300 350 400 450 500

733063

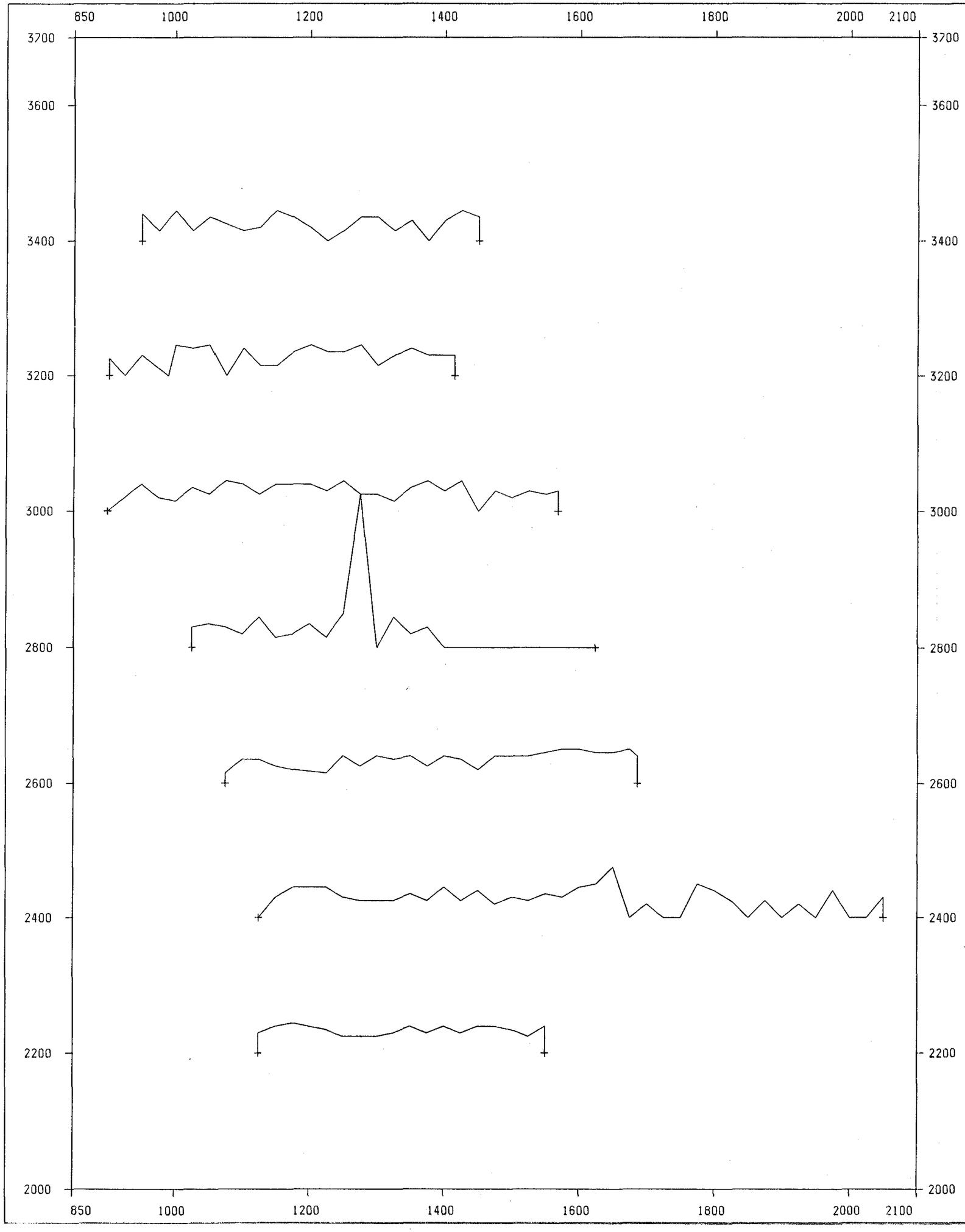
88-2863

CSR Limited - MEDG

PARSONS HOOD EL 25/85
WILSON GRID
As SOIL PROFILES (10 ppm/cm)

SCALE:	1:5000	DATE:	8/6/1988
DRAWN:	PRG	REVN	PLAN NO
CHECKED:			7611-21
APPROVED:	PDE		

7773



5 cm

METRES

100 50 0 50 100 150 200 250 300 350 400 450 500

733064

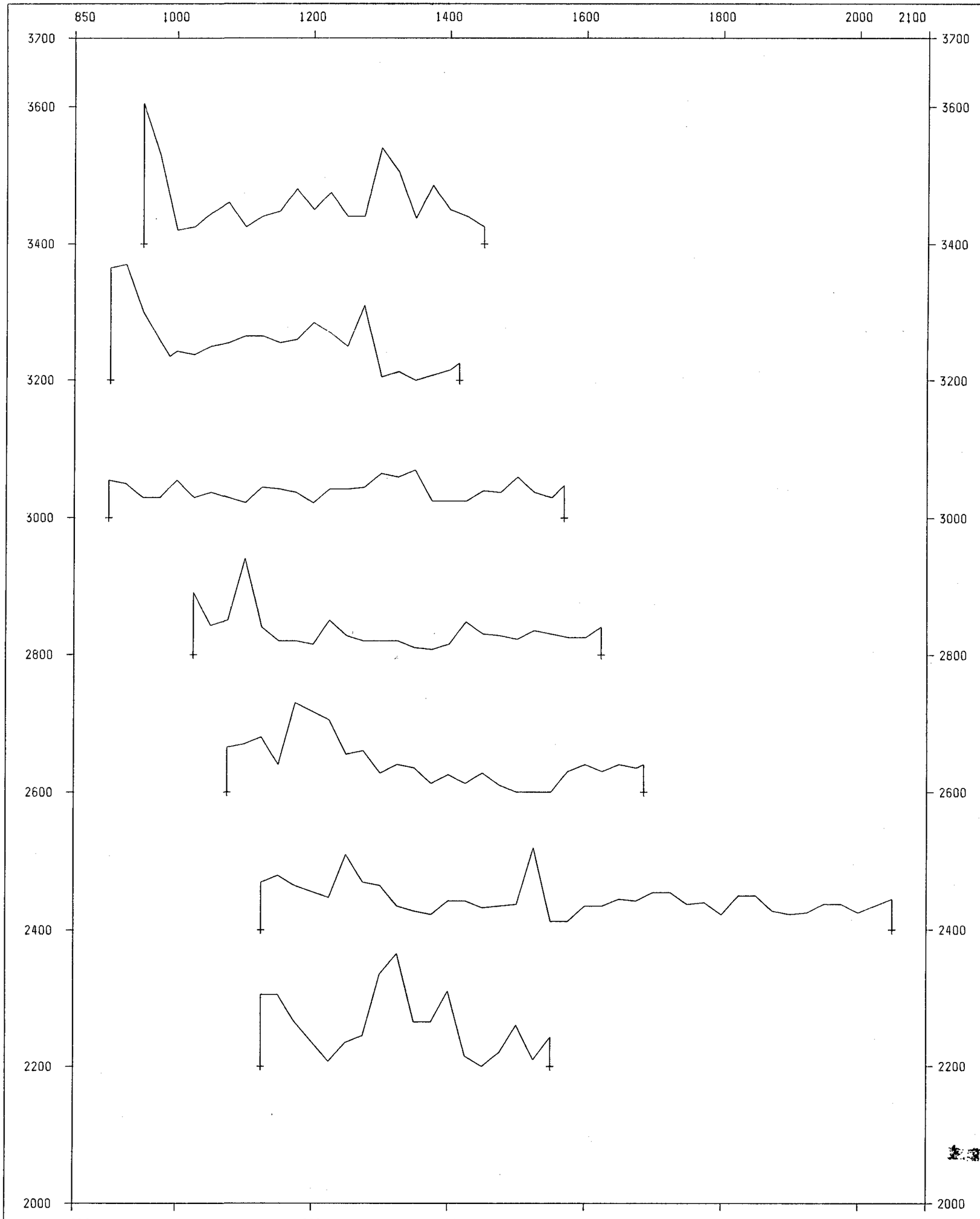
88-2863

CSR Limited - MEDG

PARSONS HOOD EL 25/85
WILSON GRID
TIN SOIL PROFILES (10 ppm/cm)

SCALE:	1:5000	DATE:	8/6/1988
DRAWN:	PRG	REVN	PLAN NO
CHECKED:			7611-22
APPROVED:	PDE		

7774



5 cm

METRES

100 50 0 50 100 150 200 250 300 350 400 450 500

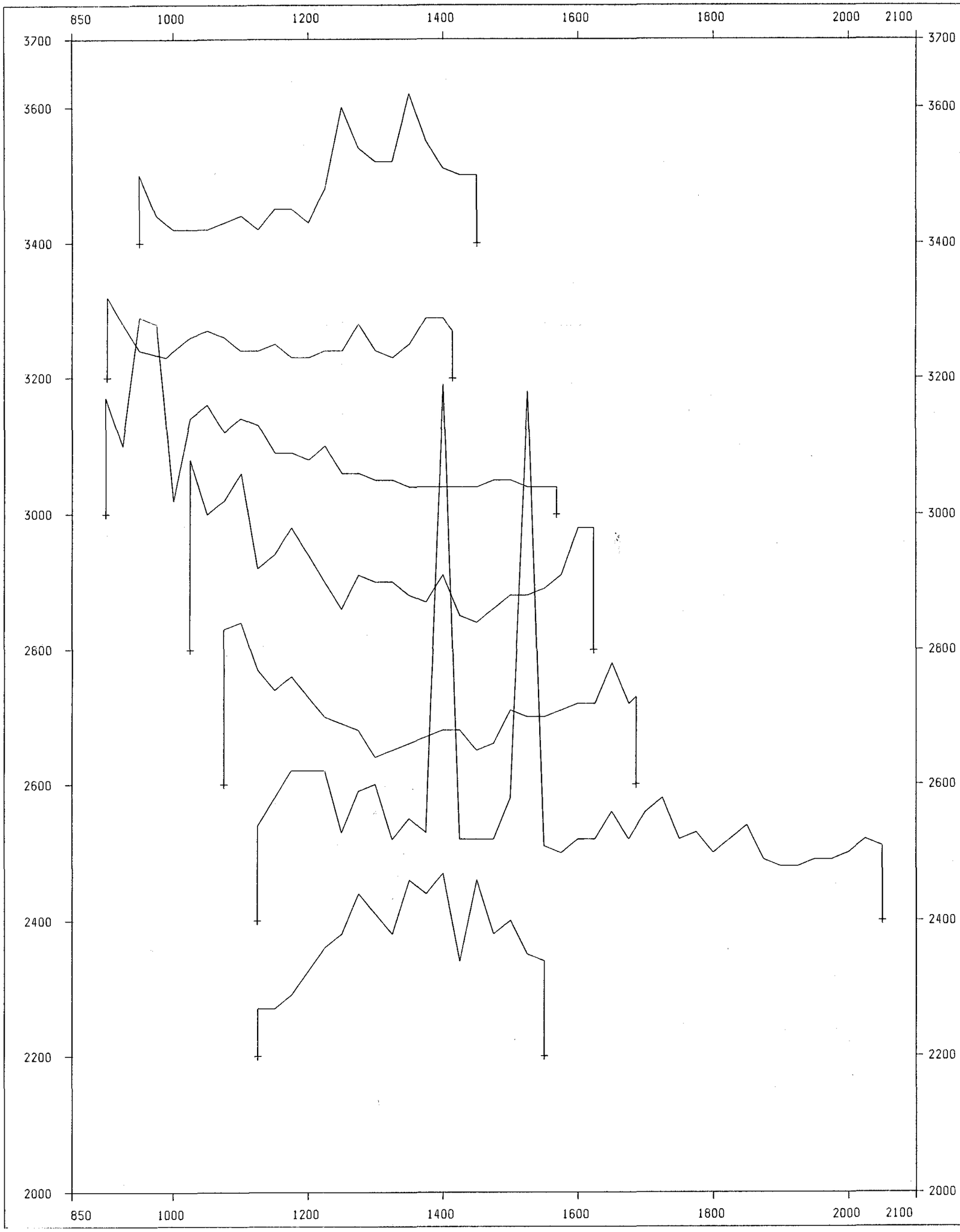
733065 88-2863

CSR Limited - MEDG

PARSONS HOOD EL 25/85
WILSON GRID
Ba SOIL PROFILES (100 ppm/cm)

SCALE:	1:5000	DATE:	8/6/1988
DRAWN:	PRG	REVN	PLAN NO
CHECKED:			7611-23
APPROVED:	PDE		

7775



5 cm

METRES

100 50 0 50 100 150 200 250 300 350 400 450 500

CSR

733066

88-2863

CSR Limited - MEDG

PARSONS HOOD EL 25/85
WILSON GRID
ZINC SOIL PROFILES (25 ppm/cm)

SCALE:	1:5000	DATE:	6/6/1988
DRAWN:	PRG	REVN	PLAN NO
CHECKED:			7611-24
APPROVED:	PDE		

7776