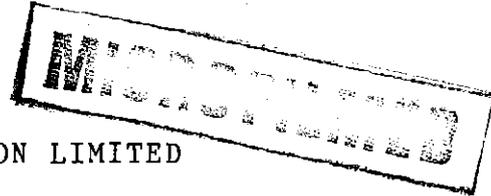


PROJECTS 259/285
K-55-3

MINES	
File Ref. EL 88/87 + EL 15/88	
- 3 APR 1989	
Doc. Ref.	
Action Officer	Initials
REFER TO COVER SHEET ON FILE	
Resubmit to	Date



PLACER EXPLORATION LIMITED

RENEWAL REPORT, 1989

EXPLORATION LICENCES EL 88/87 AND EL 15/88

MT HOUSETOP/HAMPSHIRE, TASMANIA

PLACER EXPLORATION REPORT TAS 2/89

89-2939



ROBART

FEBRUARY 1989

P.D. ELLIS

DISTRIBUTION

TASMANIAN DEPARTMENT OF MINES

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CONTENTS

	<u>PAGE NO.</u>
1. INTRODUCTION	1
2. SUMMARY	3
3. LOCATION AND GENERAL	4
4. PREVIOUS EXPLORATION	6
5. GEOLOGY	8
6. CURRENT EXPLORATION	10
6.1 Techniques	10
6.2 Results	11
6.3 Proposed Exploration	13
7. REFERENCES	14

APPENDICES

I	DRAINAGE GEOCHEMISTRY - BULK LEACH ANALYSES
II	DRAINAGE GEOCHEMISTRY - STREAM SEDIMENT ANALYSES
III	ROCK CHIP GEOCHEMISTRY
IV	FOLLOW-UP DRAINAGE GEOCHEMISTRY - BULK LEACH ANALYSES
V	FOLLOW-UP DRAINAGE GEOCHEMISTRY - STREAM SEDIMENT ANALYSES
VI	FOLLOW-UP DRAINAGE GEOCHEMISTRY - CYANIDE LEACH ANALYSES OF STREAM SEDIMENT SAMPLES

LIST OF ILLUSTRATIONS

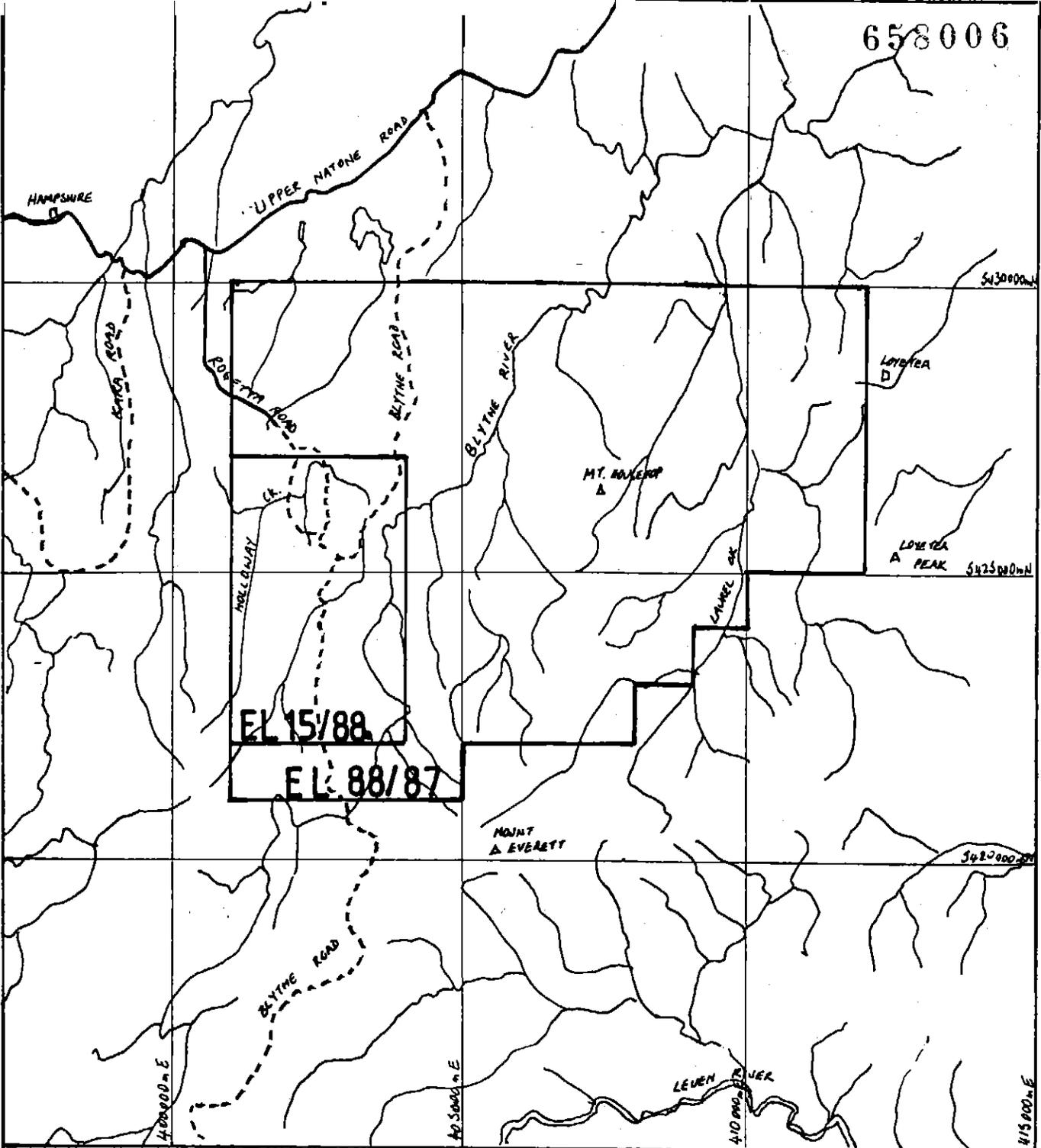
<u>FIGURES</u>		<u>FACING PAGE</u>
		<u>NO.</u>
1	LOCATION MAP, EL 88/87 AND EL 15/88, MT HOUSETOP/HAMPSHIRE	1
2	GEOLOGY SUMMARY, EL 88/87 AND EL 15/88, MT HOUSETOP/HAMPSHIRE	8
3	ROCK CHIP SAMPLE LOCATIONS - WHITE HILL, EL 15/88, HAMPSHIRE	11

PLANS (in pockets)

<u>PLAN NO.</u>		<u>Scale</u>
SK 55.3 - 3218	EL 88/87 - EL 15/88 - MT HOUSETOP/HAMPSHIRE GEOLOGICAL INTERPRETATION	1 : 25000
SK 55.3 - 3248	EL 88/87 - EL 15/88 - MT HOUSETOP/HAMPSHIRE DRAINAGE SAMPLE LOCATIONS	1 : 25000

KEYWORDS

TASMANIA	EXPLORATION
EL 88/87	GOLD
EL 15/88	SILVER
MINERALISATION	COPPER
MT HOUSETOP	TIN
HAMPSHIRE	TUNGSTEN
DRAINAGE GEOCHEMISTRY	SK 55-03
HOUSETOP GRANITE	GEOCHEMISTRY
INGLIS	8015



5 cm

0 5 km

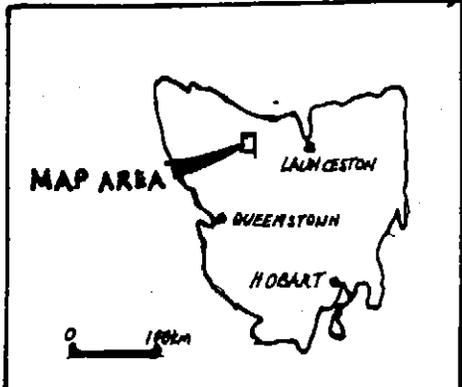


FIG.1 LOCATION MAP, EL 88/87 AND EL 15/88 MOUNT HOUSSETOP/HAMPSHIRE, TASMANIA

06

1. INTRODUCTION

EL 88/87 (Mt Housetop) and EL 15/88 (Hampshire) were obtained by Placer Exploration Limited as a result of the purchase of CSR Limited's Mineral Group. The EL 88/87 area (68 km²) was the result of an Exploration Licence application over "free" ground around the southern edges of the Housetop Granite. The application aim was to explore the area for Renison style tin deposits (possibly with associated tungsten and/or molybdenum) and Ketz River style gold mineralisation. The application was made in August 1987 with the Licence being granted on the 10th March 1988. EL 15/88 resulted from a Tender Application for Tenement Application ETA 30 in February 1988. This was to explore a part (22 km²) of EL 17/68 (formerly held by Tasmania Mines) for Renison style tin deposits and Ketz River style gold mineralisation. EL 15/88 was granted to CSR Limited on the 1st August 1988 over an area of 13 km². Both Licences were transferred to Placer Exploration Limited in October 1988. The combined area of 81 km² has an expenditure commitment of \$28,000 over the first two years of tenure. In January 1989 agreement was reached to arrange a common renewal date (1st August 1990) and common reporting.

The 81 km² combined Licence is located 30 km south of Burnie, a major industrial town and port on the north-west coast of Tasmania (Figure 1). The Licence is centred on Mt Housetop and extends from Loyatea Peak westwards to Holloway Creek and from Lake Kara southwards to Mt. Everett.

The area has potential for Renison style carbonate emplacement and/or skarn mineralisation in the Ordovician Gordon Limestone and gold mineralisation as skarn or replacement with sulphides in Cambrian volcanoclastic rocks. This Cambro-Ordovician sequence has been intruded by the Devonian Housetop Granite which is believed to be responsible for the nearby Kara tungsten mineralisation.

Minor gold anomalies are known to the east and south-east of the Housetop Granite. In the Moina/Cethana

area, 25 km south-east, significant gold prospects occur, probably associated with the Moina Granite (similar to the Housetop Granite and probably related).

Since the discovery of the mineralisation at Moina and Kara the area has been explored briefly. Recent activity by the forestry industry has allowed easy access.

This report summarises the investigations completed by CSR and Placer Exploration in the initial 12 month term of EL 88/87 ending on the 10th March 1989. Exploration of EL 15/88 is covered for the first seven months. The next report will cover the period March 1989 to July 1990 for both Licences.

2. SUMMARY

Exploration of EL 88/87 commenced in March 1988 while the exploration of EL 15/88 commenced in August 1988. Initially a brief review of previous exploration showed several unexplained gold drainage anomalies existed. Little previous work had been completed in the area.

Preliminary bulk gold and conventional stream sediment drainage sampling showed two areas of significant gold anomalies. Follow-up sampling in these anomalous areas was undertaken. Although a laboratory assaying problem became evident, the anomalies were confirmed and better defined.

Preliminary rock chip sampling of a silicified zone with some sulphide mineralisation failed to locate any gold anomalies. Several areas of magnetite skarn were located. No gold was evident in these skarns.

Further mapping, rock chip sampling and ridge and spur soil sampling is required in the anomalous areas. Gridding of the anomalous areas will be undertaken, with associated geochemistry and geological mapping.

3. LOCATION AND GENERAL

The EL 88/87 - EL 15/88 area is centred 30 km north east of Waratah and 30 km south of the north-western Tasmanian port of Burnie. The 11 km (E-W) by 9 km (N-S) area is adjacent to, and east of, the Tasmania Mines Karatungsten deposit (Figure 1).

Excellent access to the area is provided by sealed roads along the northern (Upper Natone Road) and eastern (Loyatea Road) boundaries of the Licence. Forestry activity within the Licence has provided good gravel road driving access to most parts with easy access to within 2 km of most parts of the Licence.- Current forestry work is expected to provide even easier access to some parts of the area.

The northern and central parts of the Licence are underlain by the Devonian Housatop Granite. Although originally supporting a thick eucalypt and/or rainforest cover, most of this granite area now only supports scrubby regrowth after dominantly being clear fell logged. The south-western corner of the Licence is underlain by Ordovician limestones and siliceous sediments. These sediments mainly support low, easily traversed buttongrass scrub with minor scrubby regrowth. The south-eastern Licence boundary is underlain by Cambrian to Ordovician volcanoclastic and siliceous sediments which generally support rainforest to eucalypt forest. Minor areas on the eastern boundary have been cleared for farming. These are generally areas of Tertiary basalt.

EL 88/87 and EL 15/88 are drained dominantly by tributaries of the Blythe River. The Blythe River flows through the Licence from the south-west corner to the central north while Laurel Creek (a major tributary of the Blythe River) drains the eastern area. Small tributaries (Osborne and

Tittie Gee Creeks) of the Emu River drain the north-west corner of the Licence. The two main drainage systems (Blythe River and Laurel Creek) are deeply incised resulting in a steep, hilly topography ranging in elevation from 300 to 690m above sea level.

4. PREVIOUS EXPLORATION

Small iron rich lens have been known in the Hampshire area since the 1890s when prospectors first started exploring the ground between Emu Bay and the West Coast (Mt Bischoff).

In the 1956-63 period, Rio Tinto explored north-west Tasmania (SPL 302 and EL 4/59), completing airborne EM and magnetic surveys on most of the prospective zones. Minor work around the Hampshire iron deposits gave generally discouraging results and the Exploration Permits were allowed to expire.

In 1963 the Tasmanian Department of Mines commenced a brief examination of the magnetite lenses south-east of Hampshire for local (Ulverstone) iron ore miners. This included some ground magnetic traverses and some shallow drilling along with geological mapping. This work showed the magnetite lenses tended to be near vertical bodies within siliceous and calcareous sediments near the contact of the Devonian Granite. Some were suggested to be remnants of roof pendants.

In 1968 W.S. Singline obtained EL17/68 in order to explore and evaluate the known iron, tin, copper and barite mineralisation of the area between Two Hummocks and Highclere. Initial work by Singline and his company, Tasminex (1969-1985) concentrated on the Hampshire (Kara) iron, tin and tungsten deposits, the Hummocks barite deposits and the Laurel Creek copper mineralisation (chalcopyrite in chlorite-quartz veins in decomposed siliceous rocks dipping at 50° to the south-east). Most of the work was on the Kara deposits (Whitehead, 1987).

Between 1971 and 1974 the area was joint ventured to ANZECO (the exploration arm of Union Carbide Corporation) which (as operator) further detail evaluated the Kara skarns

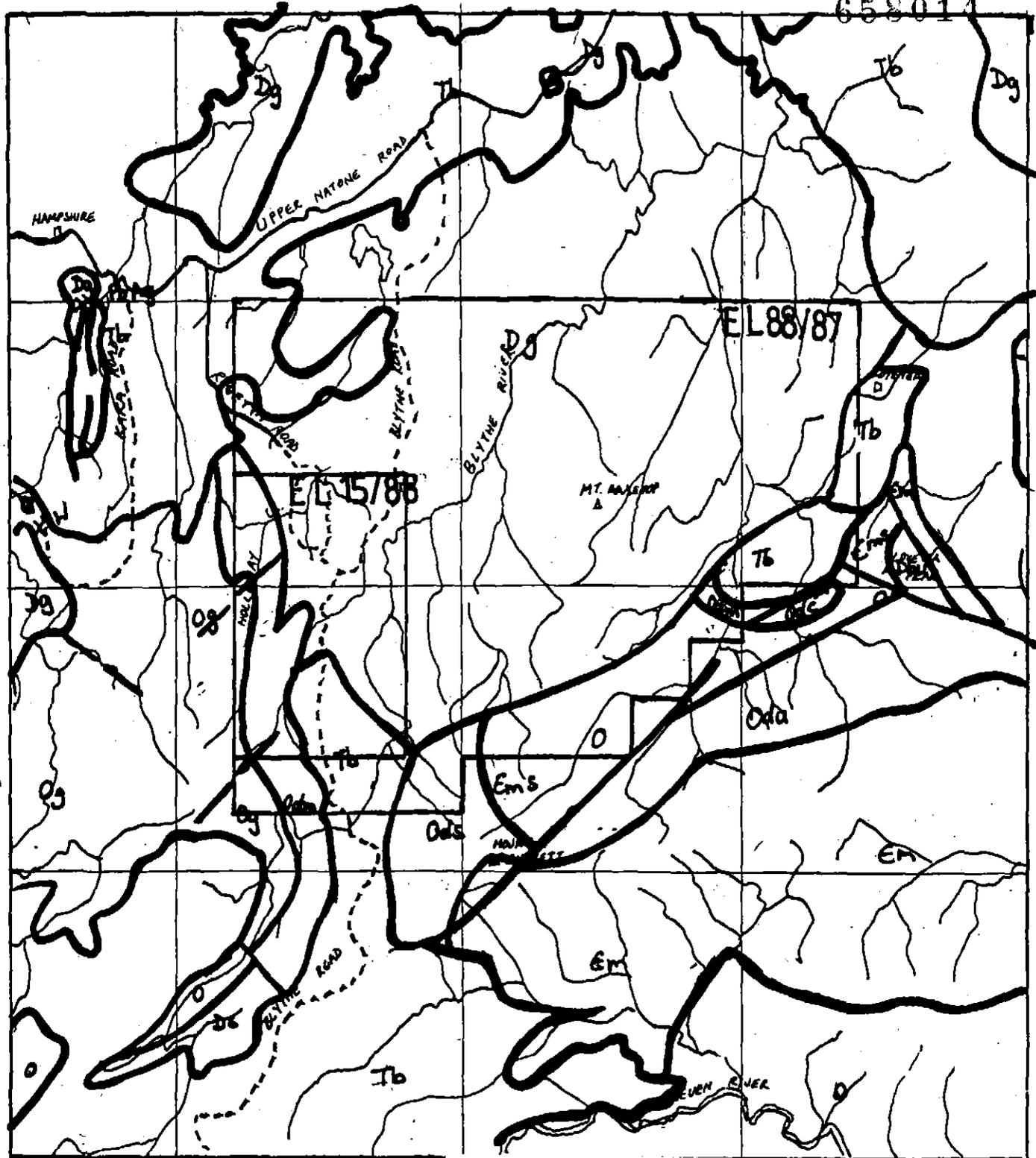
and completed regional mapping, geochemical sampling and air magnetics/radiometrics surveys. In the regional surveys a total of 593 panned concentrate and rock chip samples were analysed for W. Of these, 157 samples were also analysed for Sn, Cu, Pb, Zn and Au. Eight panned concentrate samples showed anomalous Au values. No further regional work or follow-up was completed on these anomalous areas, some of which are now included in the EL 88/87/EL 15/88 area. All ANZECO's work after 1972 was concentrated on the evaluation of the tungsten skarns until the joint venture lapsed in 1974 (Brandt, 1974).

During the 1975-1976 period, work within EL 17/68 by Tasminex was confined to the known skarn mineralisation.

Between 1977 and 1985 McIntyre Mines (in joint venture with Tasminex) evaluated the Kara No. 1 and Kara North tungsten skarns. Only minor regional exploration was completed.

Tasminex, and later Tasmania Mines, operated the EL 17/68 area from 1985 until its partial relinquishment in late 1987. No significant regional work was completed in the area now covered by EL 88/87 or EL 15/88.

CSR's regional evaluation suggested potential for tin and/or gold mineralisation in the area. EL 88/87 was obtained by application over "open" ground while EL 15/88 was obtained by tender when Tasmania Mines relinquished part of EL 17/68.



TERTIARY	Tb	Basalt
DEVONIAN	Ds	Bell Shale Equivalent
	Dbu	Undifferentiated
	Dg	Granite
ORDOVICIAN	Og	Gordon Limestone
	Odm	Moina Sandstone equivalents
	Odc	Siliceous conglomerate
	O	Sandstone & conglomerate
	Odu	Undifferentiated
CAMBRIAN	Em's	Sediments (felsic to intermediate Volcanics)
	em	Mixed felsic to intermediate Volcanics & Sediments

5 cm

0 5km

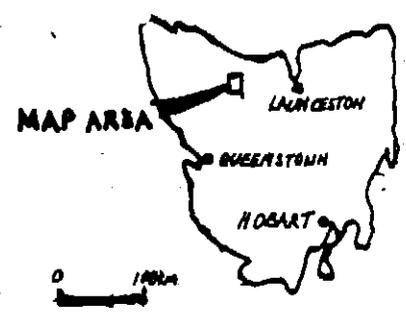


FIG.2 GEOLOGY SUMMARY EL 88/87 & EL 15/88
MOUNT HUSSETOP / HAMPSHIRE

5. GEOLOGY

The oldest rocks in the Licence area (Figure 2) are the correlates of the Mt Read Volcanics outcropping along the south-east of the Licence. These are a mixed sequence of dominantly extrusive felsic to intermediate volcanic and sedimentary rocks with fossils suggesting a late Middle Cambrian age. East of Laurel Creek the Cambrian rocks are mainly volcanics (tuffs, epiclastics and lavas) with interbedded sediments (laminated mudstones, greywackes and conglomerates). West of Laurel Creek the sediments (lithic wackes to quartz sandstones) are more abundant than the volcanics. Lithic sediments contain fragments of chloritised fine volcanics, felsic volcanics and metamorphics.

Overlying the Cambrian volcano-sedimentary sequence, with apparent conformity, is the dominantly quartz sandstone sequence of the Ordovician Denison Subgroup correlates. These rocks occur to the south-east of the Licence area. In the south, at Mt Everett, the basal Ordovician rocks are well-sorted, coarse non-marine sandstones with some pebbles and conglomerates. In the east, at Loyatea Peak, rocks in a similar stratigraphic position are more coarse and are similar to Owen Conglomerate.

Overlying the coarse sandstone to conglomeratic rocks is a sequence of quartz sandstone and shale with minor coarse horizons which are probably Moína Sandstone equivalents. These are exposed to the south of Peak Hill (Laurel Creek area) and in the south-west corner of the Licence.

Overlying the Moína Sandstone correlates (but with generally poor outcrop) is a limestone sequence correlated with the Gordon Limestone. This fine grained, grey silty limestone occurs mainly along the western side of the Licence in lower swampy areas. Small patches occur in Red-water Creek and to the east of the Licence.

The above Cambro-Ordovician sequence has been intruded by the Late Devonian-Early Carboniferous Housetop Granite (dated at 353-370 Ma). This is an equigranular to sparsely porphyritic, medium- to coarse-grained biotite granite, the emplacement of which was controlled by pre-existing faults and/or joints.

Granite underlies most of the central and northern portions of the Licence with Cambro-Ordovician sediments occurring along the western, southern and south-eastern areas of the Licence.

During the intrusion of the granite, heated fluids metasomatised some areas of limestones to magnetite bearing skarn. Some of these carry economic concentrations of tungsten with tin, copper and/or molybdenum, such as at the Kara Mine (4 km to the west of the Licence).

During the Tertiary, much of north-west Tasmania was inundated by dominantly alkali olivine basalts. Remnants of these, along with intra-basalt layers of sediments and some greybillies, occur in the north-western, southern and south-eastern parts of the Licence. Some tin and/or gold may be associated with the Tertiary sediments.

Minor recent glacial, fluvioglacial and fluvial sediments overlie the older rocks. These generally occur as valley floor alluvial-type deposits with some containing anomalous tin and possibly gold concentrations.

Detailed geology is shown on PLAN NO. SK55.3-3218.

6. CURRENT EXPLORATION

6.1 Techniques

EL 88/87 and EL 15/88 were acquired to cover the southern, eastern and western margins of the Housetop Granite containing volcanoclastic, carbonaceous and calcareous rocks suitable for hosting Renison style tin deposits or Ketza style gold deposits. A review of previous exploration data showed that although the area has been held under Exploration Licence for some time there was a significant area of the contact that was basically unexplored. Also minor drainage geochemistry showed several isolated gold anomalies which had never been further investigated.

*in carbonates,
fault/gneiss
related*

Initial broadly spaced drainage sampling was undertaken. This sampling involved the taking of two samples from the major easily accessible drainages within the area. These samples were:

- a 5 kg sample of -6 mm active stream sediment for bulk cyanide leaching of extractable gold with additional silver and copper analyses;
- a 1 kg conventional stream sediment sample for analysis of the -80 mesh fraction for Cu, Pb, Zn, Bi, As, Sb, Sn and Ag (for reference).

Anomalous sample sites were resampled for both sample types.

Confirmed anomalous drainages were then detail sampled. This sampling involved taking the 5 kg bulk leach sample and the 1 kg stream sediment sample from

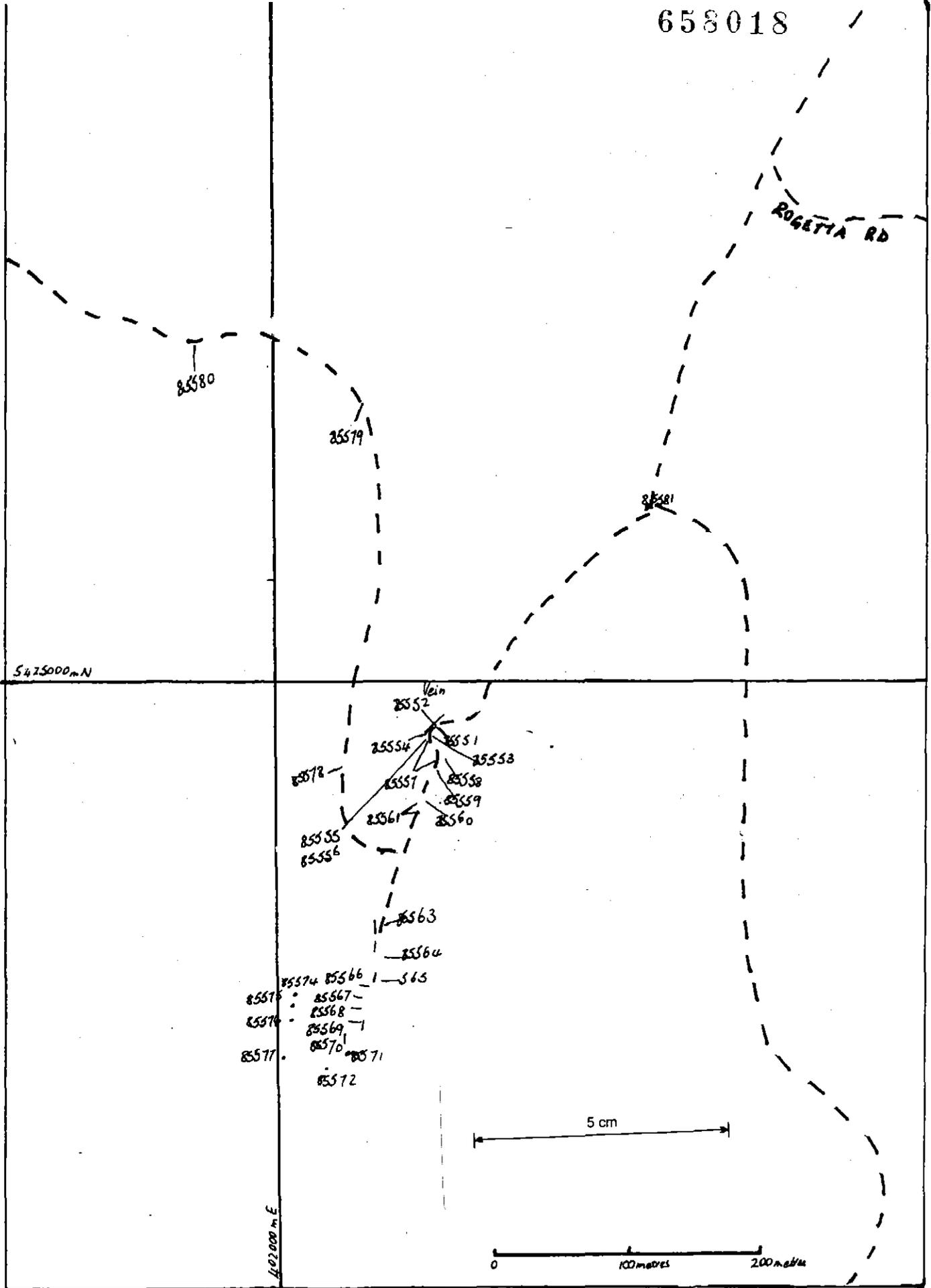


FIG 3 ROCK CHIP SAMPLE LOCATIONS
WHITE HILL, EL15/88, HAMPSHIRE

sites at all stream intersections and at intervals between 500 and 1000 m along the main drainage within the anomalous drainage area. During this detailed sampling programme previous geological mapping was checked.

An area of obvious alteration with minor sulphide mineralisation and some possible skarn metasomatism was located during the follow-up of the initial anomalous samples. This was mapped and rock chip sampled.

6.2 Results

The review of previous exploration data showed that two tributaries of Laurel Creek contained unconfirmed anomalous gold values in panned concentrates. ANZECO samples CW305 (Laurel Creek tributary near Alstergren Road) and AL71 (Redwater Creek) showed 23 and 700 ppm Au, respectively.

The initial CSR/Placer drainage sampling programme showed two major areas of anomalous Au (Appendices I, II/PLAN No. SK55.3-3248):

- the Laurel Creek/Puffer Creek area in the east of EL 88/87 (up to 1.241 ppb Au in bulk samples) ppm?
- the Holloway Creek/Blythe River area of EL 15/88 (up to 1.8 ppb Au in the bulk samples). ppm?

Further sampling in these areas confirmed the anomalies, (Appendices I, II) while a brief traverse around the adjacent tracks showed an area of weak sulphide mineralisation and metasomatic alteration near White Hill. Rock chip sampling (Figure 3,

Appendix III) showed the sulphides to carry weak Pb (525 ppm), Zn (215 ppm), Ag (4 ppm) and As (270 ppm) but no significant Au or Sn. Magnetite skarns contained weak Zn (890 ppm) and significant Sn (330 ppm) but no Au.

Detailed drainage sampling of the Laurel Creek/Puffer Creek and Holloway Creek/Blythe River anomalous drainages was undertaken. During this detailed sampling it was noted that Laurel Creek tended to follow the contact between the Housetop Granite and the Cambrian volcano-sedimentary sequence. No mineralisation or alteration was noted.

Sampling of the Blythe River/Holloway Creek area located several areas of magnetite skarn float. These skarns carried no significant Au values.

Analyses of the bulk leach samples from the detailed sampling (Appendix IV) gave strange results. Confirmed anomalies showed no gold. In fact only three samples (out of 84) showed any detectable gold (up to 1.385 ppb). One anomalous sample was from a tributary of Laurel Creek (although Laurel Creek samples showed no gold) while the other two were from adjacent small tributaries of the Blythe River (although the Blythe River samples showed no gold).

duplicate → 5.1!

ppm?!

However, the conventional stream sediment samples (Appendix V) showed over half the samples to carry detectable gold (greater than 2 ppb). Cyanide leach analyses of the remnants of the stream sediment samples (Appendix VI) also suggested that there was detectable gold in a significant portion of the samples. ✓

Comparisons of the various geochemical results for the detailed sampling programme has suggested

several areas are anomalous in Au. These areas are:

- the White Hill area in the headwaters of Holloway and Intermediate Creeks
- an area of skarn float to the west of the Blythe River and north of Jaffrays Road
- the area of volcano-sedimentary rocks in the Laurel Creek area.

No area of significant Sn anomalies was located. Some of the skarns carried anomalous Sn values.

6.3 Proposed Exploration

Currently the Laurel Creek and the Holloway Creek/Blythe River anomalous areas are being re-sampled. This is an attempt to determine the cause of the discrepancies between analyses of samples sent to one laboratory in different batches and sent to different laboratories from the same sample programme. If this re-sampling confirms the three anomalous areas defined above, then further work will be completed on the anomalous areas. This will include:

- ridge and spur soil and rock chip sampling of the Au anomalous areas, with associated geological mapping.
- grids will be cut over the anomalous areas. These will be traversed with soil sampling, geological mapping and rock chip geochemistry.

Later work on confirmed anomalies may include grid based geophysics in an attempt to define drill targets.

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- WHITEHEAD, C.H., 1987. EL 17/68, Kara Region, Hampshire Relinquishment Report Part of EL 17/68. Unpub. Rpt. of Tasmania Mines Ltd.

APPENDIX I

DRAINAGE GEOCHEMISTRY

BULK LEACH ANALYSES


ANALYTICAL DATA

SAMPLE PREFIX			REPORT NUMBER			REPORT DATE	CLIENT ORDER No.		PAGE	
			162.5 13 3208			25.08.87	45074		1 OF	
	SAMPLE No.	TOT. wt	ZCN	Au(1)	Au(2)	Au(3)	Ag	Cu		
1										
2	A 272595	6.9	.169	x	x	x	2.8	50.		
3	A 272597	5.6	.173	1.20	10.1	1.80	2.3	23.		
4	A 272599	4.5	.185	x	x	x	2.6	62.		
5	A 272601	5.5	.181	.44	3.7	.667	1.3	x		
6										
7										
8	A 272608	5.6	.177	x	x	x	x	13.		
9										
10	A 272613	8.0	.185	.41	5.0	.621	4.7	36.		
11	A 272615	6.2	.185	.83	7.7	1.241	1.0	21.		

24

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Phone (09) 458 7999

52 Murray Road, Welshpool, W.A. 6106

Telex AA92560

ANALYTICAL REPORT No. 57128 1000000

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. 44670	PROJECT M. EUREP
DATE RECEIVED 31/03/68	RESULTS REQUIRED ASAP

No. OF PAGES OF RESULTS 2	DATE REPORTED 13/04/68	No. OF COPIES 1	TOTAL No. OF SAMPLES 32
------------------------------	---------------------------	--------------------	----------------------------

STATE OF SAMPLES	REFER BELOW	SAMPLE NUMBERS	PRE-TREATMENT							ANALYSIS			
			DRY	CRUSH	SPLIT	PUL-VERISE	SIEVE	OTHER SEE REMARKS	NONE	REFER TO ANALYSIS SECTION	PREPARATION	METHOD	
	Various		50								Co, Ag, Au/328		
	Various		50								Drywt/328		

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

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

REMARKS

STATE OF SAMPLES	ANALYSIS — PREPARATION	ANALYSIS — METHOD
whole core WC	perchloric acid A1	atomic absorption AAS
split core SC	hydrochloric acid A2	x-ray fluorescence XRF
cutting CU	nitric acid A3	spectrophotometry SPEC
rock Ro	aqua regia A4	colorimetry COL
soil SO	nitric-perchloric A5	chromatography CHR
pulp PU	HF mixture A6	titration TTN
water WA	HF under pressure A7	other chemicals means CHEM
tissue TI	fusion A8	miscellaneous MISC
stream sediment SS		fluorescence FLUOR
heavy mineral HM		inductively coupled plasma ICP

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ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

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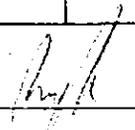
44670

1 OF 2

TUBE No.	SAMPLE No.	Cu	Ag	Au	Drywt				
1	A321351	71	17.2	0.10	5.2				
2	A321353	46	23.3	0.28	4.6				
3	A321356	169	23.2	0.33	4.4				
4	A321358	300	20.3	0.21	4.8				
5	A321360	99	28.3	0.27	4.1				
6	A321362	91	32.7	<0.05	2.8				
7	A321364	117	24.0	0.12	4.7				
8	A321366	161	10.5	0.09	5.2				
9	A321368	111	8.1	0.34	3.8				
10	A321370	218	13.5	0.10	4.7				
11	A321372	34	19.9	0.09	5.4				
12	A321375	39	9.6	0.09	4.8				
13	A321377	19	13.1	0.09	4.9				
14	A321379	32	11.5	0.11	5.1				
15	A321381	47	12.9	<0.05	4.9				
16	A321383	27	14.2	<0.05	5.5				
17	A321385	56	22.7	<0.05	4.6				
18	A321387	269	12.4	0.31	5.0				
19	A321389	1436	32.6	<0.05	1.8				
20	A321391	341	14.2	<0.05	4.9				
21	A321393	99	17.3	<0.05	5.1				
22	A321396	68	22.7	<0.05	4.9				
23	A321398	68	19.8	<0.05	5.3				
24	A321400	162	14.1	0.23	5.4				
25	A321452	155	15.8	0.21	4.5				

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

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ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

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PAGE

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13/04/88

44670

2 OF 2

TUBE No.	SAMPLE No.	Cu	Ag	Au	Drywt.					
1	A321454	82	14.5	0.11	4.7					
2	A321456	213	3.8	<0.05	5.9					
3	A321458	129	107.1	0.43	0.9					
4	A321460	87	18.7	<0.05	3.9					
5	A321462	54	13.5	<0.05	5.1					
6	A321464	277	9.7	<0.05	5.5					
7	A321466	21	11.7	0.24	5.4					
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23	DETECTION	1	0.1	0.05	0.1					
24	UNITS	PPB	PPB	PPB	KG					
25	METHOD	328	328	328	328					

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

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ANALYTICAL REPORT No.

999.28.08.05322

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
44670	DN 20209
DATE RECEIVED	RESULTS REQUIRED
08/04/88	ASAP

No. OF PAGES OF RESULTS

DATE REPORTED

No. OF COPIES

TOTAL No. OF SAMPLES

1	13/04/88	1	8
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STATE OF SAMPLES	REFER BELOW	SAMPLE NUMBERS	PRE-TREATMENT						OTHER SEE REMARKS	NONE	ANALYSIS		
			DRY	CRUSH	SPLIT	PULVERISE	SIEVE	REFER TO ANALYSIS SECTION			PREPARATION	METHOD	
		A 321469/83/2	SO								Cu, Ag, Au/328		
		A 321469/83/2	SO								Drywt/328		

RESULTS

TO

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

RESULTS

TO

P.O. Ellis
CSR Ltd.
P.O. Box 384
Roeny Park
Tasmania 7018

REMARKS

STATE OF SAMPLES	ANALYSIS — PREPARATION	ANALYSIS — METHOD
whole core WC	perchloric acid A1	atomic absorption AAS
split core SC	hydrochloric acid A2	x-ray fluorescence XRF
cutting CU	nitric acid A3	spectrophotometry SPEC
rock Ro	aqua regia A4	colorimetry COL
soil SO	nitric-perchloric A5	chromatography CHR
pulp PU	HF mixture A6	titration TTN
water WA	HF under pressure A7	other chemicals means CHEM
tissue TI	fusion A8	miscellaneous MISC
stream sediment SS		fluorescence FLUOR
heavy mineral HM		inductively coupled plasma ICP

AUTHORISED OFFICER

[Signature]

ANALABS

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

ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No.

PAGE

999.28.08.05322

18/04/88

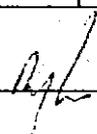
44670

1 OF 1

TUBE No.	SAMPLE No.	Cu	Ag	Au	Drywt					
1	A 321469	52	2.1	<0.05	6.1					
2	A 321471	39	2.1	<0.05	5.0					
3	A 321473	135	4.5	0.60	5.0					
4	A 321475	260	3.9	<0.05	5.6					
5	A 321477	55	2.8	<0.05	4.0					
6	A 321479	47	4.5	0.10	6.0					
7	A 321481	63	5.0	0.13	6.2					
8	A 321483	74	3.7	0.09	5.5					
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23	DETECTION	1	0.1	0.05	0.1					
24	UNITS	PPR	PPB	PPB	KG					
25	METHOD	32B	32B	32B	32B					

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



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ANALABS

A division of MacDonal Hamilton & Co. Pty. Ltd.

Phone (09) 458 7999

52 Murray Road, Wetherill Park, W.A. 6106

Telex AA92560

ANALYTICAL REPORT No.

777.32.08.00705

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

P.O. Ellis
Placer Exploration Ltd.
P.O. Box 384
Rosny Park
Tasmania 7018

ORDER No.	PROJECT
1154	DN 1451
DATE RECEIVED	RESULTS REQUIRED
06/09/88	ASAP

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No. OF SAMPLES
1	14/10/88	1	14

STATE OF SAMPLES REFER BELOW	SAMPLE NUMBERS	PRE-TREATMENT							ANALYSIS			
		DRY	CRUSH	SPLIT	MIL-VERSE	SIEVE	OTHER-SEE REMARKS	NONE	REFER TO ANALYSIS SECTION	PREPARATION	METHOD	
	85501/17/2,85520/28/2	SS								Au, Cu, Ag/328		
	85501/17/2,85520/28/2	SS								Drywt/328		
	85501/17/2,85520/28/2	SS								Au (1), Au (2)/328		
	85501/17/2,85520/28/2	SS								Au (1), Au (2)/328		

RESULTS TO
Placer Exploration Ltd.,
G.P.O. Box 4315
Sydney
N.S.W. 2001

RESULTS TO
P.O. Ellis
Placer Exploration Ltd.
P.O. Box 384
Rosny Park
Tasmania 7018

REMARKS

STATE OF SAMPLES	ANALYSIS — PREPARATION	ANALYSIS — METHOD
whole core WC	perchloric acid A1	atomic absorption AAS
split core SC	hydrochloric acid A2	x-ray fluorescence XRF
cutting CU	nitric acid A3	spectrophotometry SPEC
rock Ro	aqua regia A4	colorimetry COL
soil SO	nitric-perchloric A5	chromatography CHR
pulp PU	HF mixture A6	titration TTN
water WA	HF under pressure A7	other chemicals means CHEM
sludge TI	fusion A8	miscellaneous MISC
stream sediment SS		fluorescence FLUOR
heavy mineral HM		Inductively Coupled plasma ICP

AUTHORISED OFFICER

ANALABS

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

ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No.

PAGE

999.52.08.05705

14/10/88

1154

1 OF 1

TUBE No.	SAMPLE No.	Cu	Ag	Au	Au(1)	Au(2)	Drywt			
1	85501	244	6.4	0.34	0.23	1.3	3.8			
2	85503	20	2.6	0.17	0.12	1.2	6.8			
3	85505	31	2.0	0.18	0.12	1.3	7.0			
4	85507	19	2.4	0.09	0.06	0.6	6.4			
5	85509	28	0.8	0.65	0.43	1.8	2.7			
6	85511	306	5.1	1.36	0.91	4.6	3.4			
7	85513	99	4.0	0.18	0.12	1.2	7.0			
8	85515	-70	1.4	0.18	0.12	1.5	8.0			
9	85517	113	4.9	0.18	0.12	1.4	7.7			
10	85520	26	1.1	0.26	0.17	2.2	8.3			
11	85522	22	1.7	0.10	0.86	0.6	6.6			
12	85524	22	<0.1	0.10	0.06	0.6	6.6			
13	85526	27	0.6	0.17	0.11	1.4	8.5			
14	85528	338	22.5	0.35	0.23	0.8	2.4			
15										
16										
17										
18										
19										
20										
21										
22										
23	DETECTION	1	0.1	0.05	0.01	0.1	0.1			
24	UNITS	PPB	PPB	PPB	PPB	PPB	KG			
25	METHOD	328	328	328	328	328	328			

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
 

APPENDIX II

DRAINAGE GEOCHEMISTRY

STREAM SEDIMENT ANALYSES

DMLABS SERVICES PTY. LTD.



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ANALYTICAL REPORT

JOB COM872481

SAMPLE	Ba	Sb	As	Sn	W
A 272603 <i>Gx14</i> 10	<4	5	980 ¹⁹⁵	15	
[REDACTED]					
A 272609 -20+80# <i>Kara</i> 55	6	6	70	10	
[REDACTED]					
A 272612 <i>Gx6</i> 430	12 ⁹	9	14	60	
A 272614 -20+80# <i>land</i> 120	4	7	<4	<10	
A 272616 -20+80# <i>Pulvers</i> 105	4	9	<4	<10	
A 272576 -20+80# <i>Blythe</i> 140	6	9	8	<10	
[REDACTED]					
A 272579 <i>Gx11</i> 25	8	3	130 ¹³⁸	<10	
[REDACTED]					
[REDACTED]					
A 272587 -20+80#	90	6	10	<4	<10
[REDACTED]					
A 272590 <i>Gx9</i> 15	6	8	24 ²¹⁰	25	
[REDACTED]					
[REDACTED]					
A 272596 -20+80#	25	6	4	14	<10
A 272598 -20+80#	50	6	8	<4	<10
A 272600 -20+80#	65	8	7	16	20
A 272602 -20+80#	40	<4	7	16	<10
UNITS	ppm	ppm	ppm	ppm	ppm
SCHEME	XRF1	XRF1	XRF1	XRF1	XRF1



ANALYTICAL REPORT

JOB COM872481

658035

SAMPLE AG

A 272603 Gx14 <1

[REDACTED]

A 272609 -80# & -20+80# <1

[REDACTED]

A 272612 Gxb <1

A 272614 -80# & -20+80# <1

A 272616 -80# & -20+80# <1

A 272576 -80# & -20+80# <1

[REDACTED]

A 272579 Gx11 <1

[REDACTED]

A 272587 -80# & -20+80# <1

[REDACTED]

A 272590 Gx9 <1

[REDACTED]

A 272596 -80# & -20+80# <1

A 272598 -80# & -20+80# <1

A 272600 -80# & -20+80# <1

A 272602 -80# & -20+80# <1

UNITS ppm

SCHEME AAS3

35

COMLABS SERVICES PTY. LTD.



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ANALYTICAL REPORT

JOB COM872481

658036

SAMPLE	AU
<hr/>	
A 272598 -80# & -20+80#	<5
A 272602 -80# & -20+80#	<5
A 272614 -80# & -20+80#	<5
A 272616 -80# & -20+80#	<5

36



CLASSIC COMLABS LTD

Analytical Laboratories (INC. IN WA.)

658037

305 South Road, Mile End South, South Australia, 5031
Telephone: (08) 43 5722 Fax: (08) 234 0321 Telex: LABCOM AA89323



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OUR REF:
YOUR REF:

Mr. P. Ellis
CSR Minerals Limited
479 Oceana Drive
HOWRAH
TAS 7018 Australia

JOB NUMBER: 8AD1280
Your Reference: 20210,20211
Date Received: 20-APR-1988 Turnaround 20 days
Date Relayed: 10-MAY-1988
Date Reported: 10-MAY-1988
Number of Samples: 85
Report Comprising: Cover Sheet
Pages 1 to 8

Comments:

Report Dist'n: Carbon Copies(CC), Electronic Media(EM), Magnetic Media(MM)
Type Recipient Location Date Copies

Approved Signature:

for

Harry Fishman
Deputy Managing Director.
CLASSIC COMLABS LTD
(Please address any enquiries to Mr. Trevor Francis)

This report relates specifically to the sample(s) tested in so far as that the sample(s) is truly representative of the sample source as supplied.



37

Job: 8AD1280
O/N: 20210,20211 **658038**

ANALYTICAL REPORT

SAMPLE	Ag	Cu	Pb	Ni	Bi	Au
A 321352 -80#	<1	5	16	10	<4	20
A 321352 -20+80#	<1	14	32	28	<4	<5
A 321354 -80#	<1	9	14	14	<4	15
A 321354 -20+80#	<1	3	10	12	<4	<5
A 321355	<1	60	22	52	<4	65
A 321359 -80#	<1	10	20	42	<4	<5
A 321359 -20+80#	<1	5	12	14	<4	<5
A 321361 -80#	<1	5	22	6	<4	<5
A 321361 -20+80#	<1	2	8	10	<4	<5
A 321363 -80#	<1	9	38	22	<4	<5
A 321363 -20+80#	<1	5	18	20	<4	<5
A 321365 -80#	<1	9	22	20	<4	10
A 321365 -20+80#	<1	6	16	20	<4	15
A 321367 -80#	<1	11	20	66	<4	15
A 321367 -20+80#	<1	9	10	48	<4	<5
A 321369 -80#	<1	4	16	14	<4	<5
A 321369 -20+80#	<1	7	20	14	<4	<5
A 321371 -80#	<1	19	24	80	<4	10
A 321371 -20+80#	<1	7	14	44	<4	<5
A 321373 -80#	<1	4	18	<4	<4	10
A 321373 -20+80#	<1	3	12	10	<4	<5
A 321374	<1	5	12	8	<4	10
A 321357 -80#	<1	6	10	6	<4	<5
A 321357 -20+80#	<1	2	14	<4	<4	<5
A 321376 -80#	<1	8	20	10	<4	<5

UNITS	ppm	ppm	ppm	ppm	ppm	ppb
SCHEME	AAS3	AAS1	AAS1	AAS1	AAS1	AAS5C



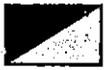
38

Job: 8AD1280
O/N: 20210,20211

658039

ANALYTICAL REPORT

SAMPLE	Ag	Cu	Pb	Ni	Bi	Au
A 321376 -20+80#	<1	2	-20	10	<4	<5
A 321378 -80#	<1	15	18	32	<4	10
A 321378 -20+80#	<1	<2	10	6	<4	<5
A 321380 -80#	<1	6	20	16	<4	5
A 321380 -20+80#	<1	2	10	<4	<4	<5
A 321382 -80#	<1	9	26	12	<4	5
A 321382 -20+80#	<1	5	20	8	<4	20
A 321384 -80#	<1	11	22	28	<4	35
A 321384 -20+80#	<1	3	6	8	<4	5
A 321386 -80#	<1	8	38	20	<4	10
A 321386 -20+80#	<1	3	22	8	<4	<5
A 321388 -80#	<1	13	22	24	14	15
A 321388 -20+80#	<1	8	14	18	<4	<5
A 321390 -80#	<1	10	18	18	<4	<5
A 321390 -20+80#	<1	11	18	16	<4	<5
A 321392 -80#	<1	7	16	12	<4	<5
A 321392 -20+80#	<1	10	14	20	<4	<5
A 321394 -80#	<1	6	30	12	<4	<5
A 321394 -20+80#	<1	4	30	10	<4	<5
A 321395	770	630	4800	18	60	2100
A 321397 -80#	2	8	68	12	<4	25
A 321397 -20+80#	<1	5	44	16	<4	10
A 321399 -80#	<1	8	40	18	<4	15
A 321399 -20+80#	<1	8	44	8	<4	<5
A 321451 -80#	<1	8	16	22	<4	<5
UNITS	ppm	ppm	ppm	ppm	ppm	ppb
SCHEME	AAS3	AAS1	AAS1	AAS1	AAS1	AAS5C
UPPER SCHEME	AAS4					



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Job: 8AD1280

O/N: 20210,20211

658040

39

ANALYTICAL REPORT

SAMPLE	Ag	Cu	Pb	Ni	Bi	Au
A 321451 -20+80#	<1	8	-14	22	<4	<5
A 321453 -80#	<1	6	14	14	<4	<5
A 321453 -20+80#	<1	5	14	18	<4	<5
A 321455 -80#	<1	7	10	10	<4	<5
A 321455 -20+80#	<1	6	12	12	<4	<5
A 321457 -80#	<1	12	26	16	<4	<5
A 321457 -20+80#	<1	4	10	10	<4	<5
A 321459 -80#	<1	10	30	20	<4	5
A 321459 -20+80#	<1	7	24	12	<4	<5
A 321461 -80#	<1	5	18	10	<4	<5
A 321461 -20+80#	<1	5	24	12	<4	30
A 321463 -80#	<1	4	24	10	<4	55
A 321463 -20+80#	<1	2	14	4	<4	<5
A 321465 -80#	<1	7	30	14	<4	5
A 321465 -20+80#	<1	7	32	16	<4	<5
A 321467 -80#	<1	2	14	10	<4	5
A 321467 -20+80#	<1	2	8	4	<4	<5
A 321468	<1	2	8	6	<4	<5
A 321470 -80#	<1	5	20	20	<4	55
A 321470 -20+80#	<1	2	10	10	<4	<5
A 321472 -80#	<1	5	18	14	<4	15
A 321472 -20+80#	<1	2	8	4	<4	<5
A 321474 -80#	<1	8	24	22	<4	10
A 321474 -20+80#	<1	5	22	14	<4	<5
A 321476 -80#	<1	6	16	12	<4	<5

UNITS
SCHEME

ppm
AAS3

ppm
AAS1

ppm
AAS1

ppm
AAS1

ppm
AAS1

ppb
AAS5C



ANALYTICAL REPORT

SAMPLE	Ag	Cu	Pb	Ni	Bi	Au
A 321476 -20+80#	<1	7	-10	10	<4	<5
A 321478 -80#	<1	5	16	18	<4	<5
A 321478 -20+80#	<1	3	10	10	<4	<5
A 321480 -80#	<1	5	30	16	<4	<5
A 321480 -20+80#	<1	4	20	12	<4	<5
A 321482 -80#	<1	2	20	16	<4	5
A 321482 -20+80#	<1	2	10	16	<4	15
A 321484 -80#	<1	5	22	16	<4	<5
A 321484 -20+80#	<1	5	38	18	<4	<5
A 321485	<1	60	20	52	<4	75
UNITS	ppm	ppm	ppm	ppm	ppm	ppb
SCHEME	AAS3	AAS1	AAS1	AAS1	AAS1	AAS5C



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Job: 8AD1280

O/N: 20210,20211 658042

ANALYTICAL REPORT

SAMPLE	Sn	W	As	Sb	Ba
A 321352 -80#	34	<10	<2	10	75
A 321352 -20+80#	4	<10	<2	<4	55
A 321354 -80#	34	10	<2	4	50
A 321354 -20+80#	14	20	<2	6	30
A 321355	12	65	9	10	380
A 321359 -80#	12	30	<2	<4	45
A 321359 -20+80#	<4	<10	<2	<4	40
A 321361 -80#	18	20	10	10	100
A 321361 -20+80#	<4	<10	<2	6	90
A 321363 -80#	I.S.	I.S.	I.S.	I.S.	I.S.
A 321363 -20+80#	<4	<10	<2	4	130
A 321365 -80#	10	<10	<2	<4	60
A 321365 -20+80#	8	<10	<2	4	55
A 321367 -80#	10	30	<2	6	65
A 321367 -20+80#	6	<10	2	<4	40
A 321369 -80#	<4	20	<2	4	45
A 321369 -20+80#	4	<10	<2	8	45
A 321371 -80#	I.S.	I.S.	I.S.	I.S.	I.S.
A 321371 -20+80#	6	10	2	8	55
A 321373 -80#	I.S.	I.S.	I.S.	I.S.	I.S.
A 321373 -20+80#	4	<10	<2	6	40
A 321374	500	<10	<2	<4	15
A 321357 -80#	I.S.	I.S.	I.S.	I.S.	I.S.
A 321357 -20+80#	24	10	<2	10	40
A 321376 -80#	I.S.	I.S.	I.S.	I.S.	I.S.
UNITS	ppm	ppm	ppm	ppm	ppm
SCHEME	XRF1	XRF1	XRF1	XRF1	XRF1



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Job: 8AD1280
O/N: 20210,20211 **658043**

ANALYTICAL REPORT

SAMPLE	Sn	W	As	Sb	Ba
A 321376 -20+80#	10	<10	<2	12	130
A 321378 -80#	I.S.	I.S.	I.S.	I.S.	I.S.
A 321378 -20+80#	6	<10	<2	6	40
A 321380 -80#	I.S.	I.S.	I.S.	I.S.	I.S.
A 321380 -20+80#	8	<10	<2	8	80
A 321382 -80#	14	15	<2	4	140
A 321382 -20+80#	6	20	<2	8	85
A 321384 -80#	44	40	<2	10	70
A 321384 -20+80#	4	10	<2	6	35
A 321386 -80#	18	35	<2	6	110
A 321386 -20+80#	6	<10	3	6	110
A 321388 -80#	26	<10	12	12	80
A 321388 -20+80#	28	<10	14	<4	65
A 321390 -80#	6	<10	2	12	130
A 321390 -20+80#	4	<10	<2	4	105
A 321392 -80#	4	<10	<2	8	100
A 321392 -20+80#	8	<10	<2	4	155
A 321394 -80#	4	15	<2	14	210
A 321394 -20+80#	<4	10	<2	10	280
A 321395	1600	<10	190	130	930
A 321397 -80#	8	<10	3	10	370
A 321397 -20+80#	12	<10	<2	8	280
A 321399 -80#	10	10	2	6	170
A 321399 -20+80#	4	<10	7	6	180
A 321451 -80#	<4	30	4	8	120
UNITS SCHEME	ppm XRF1	ppm XRF1	ppm XRF1	ppm XRF1	ppm XRF1



43

Job: 8AD1280
O/N: 20210,20211

658044

ANALYTICAL REPORT

SAMPLE	Sn	W	As	Sb	Ba
A 321451 -20+80#	6	<10	<2	<4	120
A 321453 -80#	10	<10	<2	4	75
A 321453 -20+80#	<4	<10	<2	4	65
A 321455 -80#	<4	25	<2	4	80
A 321455 -20+80#	<4	15	<2	10	60
A 321457 -80#	12	35	<2	6	65
A 321457 -20+80#	8	<10	<2	6	55
A 321459 -80#	14	35	<2	6	90
A 321459 -20+80#	6	15	<2	6	65
A 321461 -80#	8	25	<2	<4	135
A 321461 -20+80#	8	<10	<2	6	150
A 321463 -80#	46	30	<2	8	85
A 321463 -20+80#	20	<10	<2	<4	55
A 321465 -80#	10	10	5	<4	100
A 321465 -20+80#	8	15	<2	4	85
A 321467 -80#	<4	<10	<2	6	50
A 321467 -20+80#	12	<10	<2	8	35
A 321468	510	<10	<2	6	10
A 321470 -80#	38	30	<2	8	30
A 321470 -20+80#	70	<10	<2	<4	20
A 321472 -80#	50	<10	<2	12	55
A 321472 -20+80#	16	<10	<2	6	15
A 321474 -80#	8	<10	5	8	115
A 321474 -20+80#	12	<10	2	6	115
A 321476 -80#	6	50	<2	<4	60
UNITS	ppm	ppm	ppm	ppm	ppm
SCHEME	XRF1	XRF1	XRF1	XRF1	XRF1



44

Job: 8AD1280
O/N: 20210,20211

658045

ANALYTICAL REPORT

SAMPLE	Sn	W	As	Sb	Ba
A 321476 -20+80#	6	<10	2	6	30
A 321478 -80#	16	<10	2	8	55
A 321478 -20+80#	<4	20	<2	6	30
A 321480 -80#	8	<10	<2	6	135
A 321480 -20+80#	6	15	<2	10	125
A 321482 -80#	36	30	<2	10	40
A 321482 -20+80#	14	<10	<2	8	20
A 321484 -80#	4	15	<2	<4	130
A 321484 -20+80#	4	15	<2	8	140
A 321485	4	50	4	20	350

UNITS	ppm	ppm	ppm	ppm	ppm
SCHEME	XRF1	XRF1	XRF1	XRF1	XRF1

APPENDIX III

ROCK CHIP GEOCHEMISTRY

ANALABS

A division of MacDonald Hamilton & Co. Pty. Ltd.

Phone (09) 458 7999

52 Murray Road, Welshpool, W.A. 6106

Telex AA92560

ANALYTICAL REPORT No. 999.52.08.05701

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

P.D. Ellis
Placer Exploration Ltd.
P.O. Box 384
Rosny Park
Tasmania 7018

ORDER No.	PROJECT
1155	DN 1452
DATE RECEIVED	RESULTS REQUIRED
05/09/88	ASAP

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No. OF SAMPLES
4	04/10/88	1	34

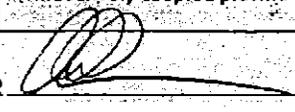
STATE OF SAMPLES	REFER BELOW	SAMPLE NUMBERS	PRE-TREATMENT						OTHER SEE REMARKS	NONE	ANALYSIS		
			DRY	CRUSH	SPLIT	PULVERISE	SIEVE	REFER TO ANALYSIS SECTION			PREPARATION	METHOD	
		85551/84	RD				Prep: 005,009, 012,013, 016				Cu, Pb, Zn, Ag, Bi, Ni / 101		
		85551/84	RD								As / 114, Sn, W, Ba, Sb / 401, Au / 336		
		85551/84	RD								Au / 329		

RESULTS TO
Placer Exploration Ltd.,
G.P.O. Box 4315
Sydney
N.S.W. 2001

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

REMARKS

STATE OF SAMPLES	ANALYSIS — PREPARATION	ANALYSIS — METHOD
whole core WC	perchloric acid A1	atomic absorption AAS
split core SC	hydrochloric acid A2	x-ray fluorescence XRF
cutting rock CU	nitric acid A3	spectrophotometry SPEC
soil Ro	aqua regia A4	colorimetry COL
pulp SO	nitric-perchloric A5	chromatography CHR
water PU	HF mixture A6	titration TTN
tissue WA	HF under pressure A7	other chemical means CHEM
stream sediment TI	fusion A8	miscellaneous MISC
heavy mineral HM		fluorescence FLUOR
		inductively coupled plasma ICP

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

ANALYTICAL DATA

SAMPLE PREFIX REPORT NUMBER REPORT DATE CLIENT ORDER No. PAGE

999.52.08.05701

04/10/88

1155

1 OF 4

TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	Bi	Ni	As	Sn	Sb
1	85551	<5	<5	50	<0.5	<10	15	15	25	<3
2	85552	<5	5	40	<0.5	<10	15	16	5	<3
3	85553	<5	<5	25	<0.5	<10	15	14	20	<3
4	85554	10	<5	20	<0.5	<10	30	9	15	<3
5	85555	10	30	90	<0.5	<10	15	110	8	20
6	85556	20	85	75	<0.5	<10	15	31	30	5
7	85557	25	525	215	4.0	20	20	270	30	20
8	85558	5	<5	45	<0.5	<10	20	9	30	<3
9	85559	<5	<5	100	<0.5	<10	25	9	30	3
10	85560	<5	<5	130	<0.5	<10	20	7	20	<3
11	85561	<5	<5	90	<0.5	<10	15	5	40	<3
12	85562	<5	<5	50	<0.5	<10	5	7	540	<3
13	85563	<5	<5	10	<0.5	<10	10	1	60	<3
14	85564	<5	<5	10	<0.5	<10	10	3	25	3
15	85565	<5	<5	20	<0.5	<10	15	1	15	<3
16	85566	15	<5	30	<0.5	<10	40	9	6	<3
17	85567	15	<5	35	<0.5	<10	35	20	15	3
18	85568	15	<5	20	<0.5	20	45	17	30	<3
19	85569	25	<5	20	<0.5	<10	70	14	9	<3
20	85570	20	<5	20	<0.5	<10	50	13	15	<3
21	85571	<5	<5	10	<0.5	<10	25	2	30	<3
22	85572	<5	<5	40	<0.5	<10	20	1	7	<3
23	85573	5	<5	75	<0.5	<10	30	71	4	<3
24	85574	<5	<5	10	<0.5	<10	10	1	40	<3
25	85575	<5	<5	10	<0.5	<10	10	<1	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

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ANALYTICAL DATA

SAMPLE PREFIX REPORT NUMBER REPORT DATE CLIENT ORDER No. PAGE

999.52.08.05701

04/10/88

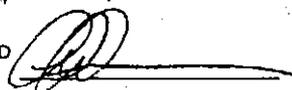
1155

2 OF 4

TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	Bi	Ni	As	Sn	Sb
1	85576	5	<5	10	<0.5	<10	10	<1	10	<3
2	85577	<5	<5	25	<0.5	<10	10	<1	<3	4
3	85578	5	<5	10	<0.5	<10	20	<1	5	4
4	85579	10	<5	10	<0.5	<10	25	1	<3	<3
5	85580	<5	<5	5	<0.5	<10	10	<1	30	<3
6	85581	10	<5	365	<0.5	10	40	7	1200	<3
7	85582	85	<5	55	<0.5	10	65	10	20	<3
8	85583	30	30	365	<0.5	180	40	76	330	20
9	85584	15	<5	890	<0.5	<10	45	10	260	<3
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23	DETECTION	5	5	5	0.5	10	5	1	3	3
24	UNITS	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
25	METHOD	101	101	101	101	101	101	114	401	401

Results in ppm unless otherwise specified
 T = element present; but concentration too low to measure
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 -- = element not determined

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49

658050

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ANALYTICAL DATA

SAMPLE PREFIX REPORT NUMBER REPORT DATE CLIENT ORDER No. PAGE

999.52.08.05701

04/10/88

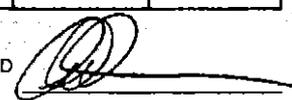
1155

3 OF 4

TUBE No.	SAMPLE No.	Ba	W	Au	Au				
1	85551	15	<20	-	0.011				
2	85552	30	<20	-	0.006				
3	85553	<10	25	-	0.007				
4	85554	160	<20	-	0.004				
5	85555	15	<20	-	0.011				
6	85556	<10	<20	-	0.002				
7	85557	15	30	-	0.004				
8	85558	<10	<20	-	0.002				
9	85559	25	<20	-	0.001				
10	85560	110	<20	-	0.002				
11	85561	<10	<20	-	0.001				
12	85562	<10	<20	-	<0.001				
13	85563	<10	65	-	0.001				
14	85564	<10	30	-	0.001				
15	85565	50	<20	-	0.002				
16	85566	490	<20	-	0.002				
17	85567	75	<20	-	0.004				
18	85568	80	160	-	0.002				
19	85569	150	<20	-	<0.001				
20	85570	100	<20	-	<0.001				
21	85571	<10	30	-	0.003				
22	85572	<10	<20	-	0.001				
23	85573	360	<20	-	0.012				
24	85574	<10	250	-	0.001				
25	85575	10	50	-	0.001				

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

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ANALYTICAL DATA

SAMPLE PREFIX REPORT NUMBER REPORT DATE CLIENT ORDER No. PAGE

999.52.08.05701

04/10/88

1155

4 OF 4

TUBE No.	SAMPLE No.	Ba	W	Au	Au				
1	85576	<10	25	-	0.001				
2	85577	70	<20	-	0.001				
3	85578	<10	<20	-	0.003				
4	85579	<10	<20	-	0.001				
5	85580	15	<20	-	<0.001				
6	85581	<10	45	-	0.001				
7	85582	410	55	0.16	-				
8	85583	<10	<20	-	0.008				
9	85584	30	<20	-	0.008				
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23	DETECTION	10	20	0.02	0.001				
24	UNITS	PPM	PPM	PPM	PPM				
25	METHOD	401	401	329	336				

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

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APPENDIX IV

FOLLOW-UP DRAINAGE GEOCHEMISTRY

BULK LEACH ANALYSES

52

ANALABS

A division of MacDonold Hamilton & Co. Pty. Ltd.

Phone (09) 458 7999

52 Murray Road, Welshpool, W.A. 6106

Telex AA92560

FAX: 004 31 8890

ANALYTICAL REPORT No. 999.52.08.05894

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

P.D. Ellis
Placer Exploration Ltd.
P.O. Box 384
Rosny Park
Tasmania 7018

ORDER No.	PROJECT
1157	
DATE RECEIVED	RESULTS REQUIRED
12/12/88	ASAP

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No. OF SAMPLES
4	12/12/88	1	84

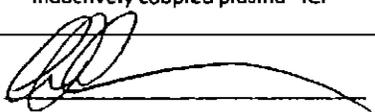
STATE OF SAMPLES	REFER FLOW	SAMPLE NUMBERS	PRE-TREATMENT						ANALYSIS					
			DRY	CRUSH	SPLIT	PUL. VERISE	SIEVE	OTHER SEE REMARKS	NONE	REFER TO ANALYSIS SECTION	PREPARATION	METHOD		
		Various -	BC									Totwt, Au(1), Au(2), Au(3), Ag, Cu/328		

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

RESULTS TO

REMARKS

STATE OF SAMPLES	ANALYSIS — PREPARATION	ANALYSIS — METHOD
whole core WC	perchloric acid A1	atomic absorbtion AAS
split core SC	hydrochloric acid A2	x-ray fluorescence XRF
cutting CU	nitric acid A3	spectrophotometry SPEC
rock Ro	aqua regia A4	colorimetry COL
soil SO	nitric-perchloric A5	chromatography CHR
pulp PU	HF mixture A6	titration TTN
water WA	HF under pressure A7	other chemicals means CHEM
tissue TI	fusion A8	miscellaneous MISC
stream sediment SS		fluorescence FLUOR
heavy mineral HM		inductively coupled plasma ICP

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ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No.

PAGE

		999.52.08.05894				12/12/88	1157		1 OF 4	
TUBE No.	SAMPLE No.	Totwt	Au(1)	Au(2)	Au(3)	Ag	Cu			
1	A321651	3.1	<0.01	<0.1	<0.001	12.556	36			
2	A321652	3.1	<0.01	<0.1	<0.001	15.385	127			
3	A321653	2.4	<0.01	<0.1	<0.001	20.345	193			
4	A321654	3.5	<0.01	<0.1	<0.001	16.928	42			
5	A321655	2.6	<0.01	<0.1	<0.001	17.826	52			
6	A321656	2.0	<0.01	<0.1	<0.001	5.862	28			
7	A321657	2.8	<0.01	<0.1	<0.001	7.403	31			
8	A321658	5.1	<0.01	<0.1	<0.001	4.074	30			
9	321660	3.8	<0.01	<0.1	<0.001	4.167	71			
10	321662	3.3	<0.01	<0.1	<0.001	4.074	41			
11	321664	3.5	0.22	1.1	0.324	17.027	85			
12	321666	3.8	<0.01	<0.1	<0.001	3.158	92			
13	321668	4.7	<0.01	<0.1	<0.001	3.038	30			
14	321670	3.9	<0.01	<0.1	<0.001	3.140	35			
15	321672	3.7	<0.01	<0.1	<0.001	1.071	21			
16	321674	3.7	<0.01	<0.1	<0.001	2.250	53			
17	321676	5.1	<0.01	<0.1	<0.001	2.727	89			
18	321678	4.9	<0.01	<0.1	<0.001	1.776	67			
19	321680	3.5	<0.01	<0.1	<0.001	16.364	186			
20	321682	5.0	<0.01	<0.1	<0.001	4.213	40			
21	321684	4.1	<0.01	<0.1	<0.001	2.386	95			
22	321686	4.8	<0.01	<0.1	<0.001	0.723	65			
23	321688	3.9	<0.01	<0.1	<0.001	3.614	88			
24	321690	5.2	<0.01	<0.1	<0.001	3.462	29			
25	321692	4.0	<0.01	<0.1	<0.001	1.899	163			

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

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

ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No.

PAGE

999.52.08.05894

12/12/88

1157

2 OF 4

TUBE No.	SAMPLE No.	Totwt	Au (1)	Au (2)	Au (3)	Ag	Cu			
1	321694	4.6	<0.01	<0.1	<0.001	4.444	20			
2	321696	4.8	<0.01	<0.1	<0.001	2.744	33			
3	321698	3.7	<0.01	<0.1	<0.001	<0.001	71			
4	321701	4.5	<0.01	<0.1	<0.001	1.667	48			
5	321703	4.0	<0.01	<0.1	<0.001	<0.001	68			
6	321705	4.4	<0.01	<0.1	<0.001	5.000	77			
7	321707	5.9	<0.01	<0.1	<0.001	1.189	125			
8	321709	4.9	<0.01	<0.1	<0.001	43.861	32			
9	321711	4.5	<0.01	<0.1	<0.001	50.952	12			
10	321713	4.0	<0.01	<0.1	<0.001	35.500	70			
11	321715	3.7	0.92	5.1	1.385	34.231	88			
12	321717	4.1	<0.01	<0.1	<0.001	28.615	102			
13	321719	4.1	0.41	2.5	0.621	30.000	171			
14	321721	4.3	<0.01	<0.1	<0.001	22.174	61			
15	321723	2.5	<0.01	<0.1	<0.001	52.615	18			
16	321725	4.7	<0.01	<0.1	<0.001	30.234	9			
17	321727	3.8	<0.01	<0.1	<0.001	25.946	12			
18	321729	5.1	<0.01	<0.1	<0.001	22.258	51			
19	321731	3.9	<0.01	<0.1	<0.001	81.364	27			
20	321733	3.7	<0.01	<0.1	<0.001	40.000	40			
21	321735	4.5	<0.01	<0.1	<0.001	45.783	10			
22	321737	5.1	<0.01	<0.1	<0.001	27.891	11			
23	321739	4.5	<0.01	<0.1	<0.001	2.744	16			
24	321742	4.0	<0.01	<0.1	<0.001	1.579	10			
25	321744	4.1	<0.01	<0.1	<0.001	33.333	93			

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

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

ANALYTICAL DATA

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REPORT NUMBER

REPORT DATE

CLIENT ORDER No.

PAGE

999.52.08.05894

12/12/88

1157

3 OF 4

TUBE No.	SAMPLE No.	Totwt	Au (1)	Au (2)	Au (3)	Ag	Cu			
1	321746	4.3	<0.01	<0.1	<0.001	17.647	60			
2	321748	3.9	<0.01	<0.1	<0.001	8.929	68			
3	321750	4.5	<0.01	<0.1	<0.001	4.337	61			
4	321752	2.2	<0.01	<0.1	<0.001	8.036	43			
5	321754	4.4	<0.01	<0.1	<0.001	3.048	74			
6	321756	3.8	<0.01	<0.1	<0.001	5.844	55			
7	321758	3.8	<0.01	<0.1	<0.001	3.750	38			
8	321760	4.2	<0.01	<0.1	<0.001	11.566	54			
9	321762	3.8	<0.01	<0.1	<0.001	10.357	54			
10	321764	1.8	<0.01	<0.1	<0.001	15.205	58			
11	321766	4.5	<0.01	<0.1	<0.001	10.179	161			
12	321768	4.3	<0.01	<0.1	<0.001	20.649	58			
13	321770	5.2	<0.01	<0.1	<0.001	8.239	23			
14	321772	3.0	<0.01	<0.1	<0.001	12.973	65			
15	321774	4.3	<0.01	<0.1	<0.001	9.615	42			
16	321776	2.9	<0.01	<0.1	<0.001	9.375	61			
17	321778	3.4	<0.01	<0.1	<0.001	21.290	53			
18	321780	3.0	<0.01	<0.1	<0.001	10.370	37			
19	321782	4.1	<0.01	<0.1	<0.001	10.526	89			
20	321784	3.7	<0.01	<0.1	<0.001	7.917	33			
21	321786	4.4	<0.01	<0.1	<0.001	10.125	56			
22	321788	4.3	<0.01	<0.1	<0.001	3.375	23			
23	321790	3.9	<0.01	<0.1	<0.001	0.923	32			
24	321792	3.9	<0.01	<0.1	<0.001	3.976	22			
25	321794	3.6	<0.01	<0.1	<0.001	3.649	65			

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

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A Division of Macdonald Hamilton & Co. Pty Ltd

ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No

PAGE

999.52.08.05894

12/12/88

1157

4 OF 4

TUBE No.	SAMPLE No.	Totwt	Au(1)	Au(2)	Au(3)	Ag	Cu			
1	321796	4.8	<0.01	<0.1	<0.001	2.442	28			
2	321798	1.2	<0.01	<0.1	<0.001	6.818	293			
3	321800	4.1	<0.01	<0.1	<0.001	0.674	17			
4	162001	2.1	<0.01	<0.1	<0.001	1.731	335			
5	162003	2.3	<0.01	<0.1	<0.001	1.929	90			
6	162005	5.1	<0.01	<0.1	<0.001	4.648	25			
7	162007	2.3	<0.01	<0.1	<0.001	3.068	491			
8	162009	3.1	<0.01	<0.1	<0.001	1.500	60			
9	162011	4.6	<0.01	<0.1	<0.001	27.434	122			
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23	DETECTION	0.1	0.01	0.1	0.001	0.001	1			
24	UNITS	-	PPM	PPM	PPM	PPM	PPM			
25	METHOD	328	328	328	328	328	328			

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
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APPENDIX V

FOLLOW-UP DRAINAGE GEOCHEMISTRY

STREAM SEDIMENT ANALYSES



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83

305 South Road, Mile End South, South Australia, 5031
Telephone: (08) 43 5722 Fax: (08) 234 0321 Telex: LABCOM AA89323

658059

Mr. P.D. Ellis
Placer Exploration Limited
P.O. BOX 384
ROSNY PARK
TAS 7018 Australia

JOB NUMBER: 8AD3904

Your Reference: 1453

Date Received: 14-DEC-1988 Turnaround 6 days
Date Relayed: 20-DEC-1988
Date Reported: 20-DEC-1988

Number of Samples: 104 Report Analyte Codes
N.A. - Not Analysed.
L.N.R. - Listed But Not Received.
I.S. - Insufficient Sample for Analysis.

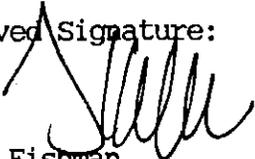
Report Comprising: Cover Sheet
Pages 1 to 10

Comments:

Report Dist'n Type	Recipient	Location	Date	Copies
Carbon Copies(CC)	Placer Exploration	Sydney	20-DEC-1988	2

Approved Signature:

for


Harry Fishman
Managing Director.
CLASSIC COMLABS LTD
(Please address any enquiries to Mr. Trevor Francis)

This report relates specifically to the sample(s) tested in so far as that the sample(s) is truly representative of the sample source as supplied.



59

ANALYTICAL REPORT

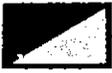
SAMPLE	Cu	Pb	Zn	Bi	As	Sb	Sn
85502	16	6	10	<10	5	6	22
85504	11	6	11	<10	7	8	34
85506	14	8	12	<10	<2	8	<4
85508	11	10	10	<10	6	<4	16
85510	7	10	19	<10	2	6	6
85512	11	42	76	<10	<2	10	46
85514	9	6	6	<10	2	8	24
85516	14	8	15	10	44	6	135
85518	8	8	56	<10	9	4	6
85520	12	18	38	<10	76	6	10
85521	10	<4	<2	<10	9	6	8
85523	7	6	<2	<10	4	<4	10
85525	9	<4	5	<10	4	6	6
85527	10	10	<2	<10	6	6	8
85529	8	4	<2	<10	2	4	4
321651	9	4	6	<10	9	6	<4
321652	6	52	58	<10	11	6	10
321653	10	22	38	<10	8	6	6
321654	9	32	22	<10	13	4	4
321655	8	36	24	<10	13	<4	6
321656	4	12	<2	10	4	6	8
321657	11	6	4	<10	6	6	6
321658	7	18	38	<10	74	<4	10
321659	9	6	13	<10	7	8	<4
321661	5	6	8	<10	4	<4	4
UNITS SCHEME	ppm AAS1	ppm AAS1	ppm AAS1	ppm AAS1	ppm XRF1	ppm XRF1	ppm XRF1



60

ANALYTICAL REPORT

SAMPLE	Cu	Pb	Zn	Bi	As	Sb	Sn
321663	6	<4	4	<10	4	6	<4
321665	11	<4	5	<10	5	<4	8
321667	10	10	11	<10	5	8	4
321669	2	<4	<2	<10	5	<4	4
321671	7	<4	2	<10	7	12	<4
321673	17	6	3	<10	5	4	10
321675	13	6	5	<10	9	8	4
321677	10	6	13	<10	3	6	<4
321679	6	<4	9	<10	<2	<4	6
321681	6	4	7	<10	7	4	8
321683	3	<4	3	<10	8	6	6
321685	7	6	13	<10	11	4	4
321687	6	8	15	<10	15	8	10
321689	4	16	30	<10	19	8	4
321691	5	8	8	<10	8	8	<4
321693	6	8	12	<10	13	4	6
321695	7	6	8	<10	7	8	6
321697	6	4	10	<10	7	4	4
321699	<2	<4	11	<10	2	6	6
321700	46	10	36	<10	15	6	10
321702	6	4	9	10	16	6	6
321704	11	<4	20	<10	6	10	10
321706	6	<4	11	<10	10	8	10
321708	11	<4	36	<10	5	<4	4
321710	16	<4	42	<10	7	<4	10
UNITS	ppm						
SCHEME	AAS1	AAS1	AAS1	AAS1	XRF1	XRF1	XRF1



61

Job: 8AD3904 658062
O/N: 1453

ANALYTICAL REPORT

SAMPLE	Cu	Pb	Zn	Bi	As	Sb	Sn
321712	9	<4	9	<10	3	6	10
321714	15	6	32	10	8	8	10
321716	12	20	96	<10	8	16	50
321718	14	6	48	<10	3	<4	10
321720	24	26	92	<10	4	8	32
321722	8	8	30	<10	11	<4	4
321724	15	8	20	<10	4	6	10
321726	8	<4	12	<10	3	10	18
321728	7	<4	15	<10	5	8	10
321730	9	14	24	<10	14	10	60
321732	5	<4	8	<10	<2	<4	12
321734	7	<4	8	<10	3	4	18
321736	6	4	12	<10	4	6	8
321738	8	<4	16	<10	3	8	14
321740	11	14	22	<10	9	10	10
321741	12	8	18	<10	<2	8	8
321743	9	4	15	<10	4	4	12
321745	17	10	19	<10	7	6	12
321747	11	8	18	<10	<2	6	6
321748	740	4300	3500	45	340	115	1660
321749	24	14	20	<10	5	4	8
321751	14	22	26	<10	6	<4	10
321753	14	<4	15	<10	4	4	8
321755	9	30	34	<10	3	6	<4
321757	11	8	22	<10	5	8	10

UNITS SCHEME	ppm AAS1	ppm AAS1	ppm AAS1	ppm AAS1	ppm XRF1	ppm XRF1	ppm XRF1
-----------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------



ANALYTICAL REPORT

SAMPLE	Cu	Pb	Zn	Bi	As	Sb	Sn
321759	10	8	20	<10	6	6	22
321761	14	10	17	<10	5	6	30
321763	16	6	17	<10	8	4	22
321765	11	8	16	<10	7	8	30
321767	12	18	24	<10	<2	8	22
321769	11	8	20	<10	5	<4	16
321771	15	12	22	<10	<2	4	20
321773	10	10	17	<10	7	12	24
321775	18	38	92	<10	10	6	20
321777	11	36	96	<10	10	8	10
321779	22	48	88	<10	10	6	14
321780	730	4350	3550	50	360	115	1680
321781	16	40	68	<10	9	<4	8
321783	11	26	38	<10	7	6	14
321785	7	8	8	<10	6	4	8
321787	22	44	96	<10	9	8	<4
321789	10	8	16	<10	4	4	6
321791	11	20	32	<10	6	8	8
321793	19	30	44	<10	4	6	10
321795	10	14	17	<10	4	10	4
321797	10	26	38	<10	5	6	4
321799	19	34	56	10	5	<4	4
321801	<2	6	18	<10	6	6	4
162002	17	8	52	<10	7	6	<4
162004	10	14	9	<10	7	6	4
UNITS	ppm						
SCHEME	AAS1	AAS1	AAS1	AAS1	XRF1	XRF1	XRF1



Job: 8AD3904
O/N: 1453

658064

ANALYTICAL REPORT

SAMPLE	Cu	Pb	Zn	Bi	As	Sb	Sn
162006	11	10	12	<10	4	<4	<4
162008	15	10	24	<10	7	8	6
162010	10	8	28	<10	3	<4	4
162012	9	12	22	<10	2	6	8
UNITS	ppm						
SCHEME	AAS1	AAS1	AAS1	AAS1	XRF1	XRF1	XRF1



64



Job: 8AD3904 **658065**
O/N: 1453

ANALYTICAL REPORT

SAMPLE	Ag
85502	<0.1
85504	<0.1
85506	0.1
85508	<0.1
85510	<0.1
85512	<0.1
85514	<0.1
85516	<0.1
85518	<0.1
85520	1.2
85521	<0.1
85523	0.2
85525	<0.1
85527	0.1
85529	<0.1
321651	<0.1
321652	0.5
321653	0.4
321654	0.2
321655	0.2
321656	0.2
321657	<0.1
321658	1.1
321659	0.3
321661	0.2

UNITS ppm
SCHEME AAS2A



65

ANALYTICAL REPORT

SAMPLE	Ag
321663	<0.1
321665	0.3
321667	0.3
321669	<0.1
321671	0.3
321673	1.0
321675	0.3
321677	<0.1
321679	<0.1
321681	0.3
321683	<0.1
321685	0.3
321687	0.7
321689	0.2
321691	0.2
321693	0.3
321695	0.3
321697	<0.1
321699	0.3
321700	0.2
321702	0.5
321704	<0.1
321706	<0.1
321708	0.5
321710	<0.1
UNITS	ppm
SCHEME	AAS2A



66

ANALYTICAL REPORT

SAMPLE	Ag
321712	<0.1
321714	<0.1
321716	0.1
321718	0.7
321720	0.3
321722	<0.1
321724	0.2
321726	0.2
321728	0.1
321730	0.3
321732	<0.1
321734	<0.1
321736	<0.1
321738	<0.1
321740	<0.1
321741	<0.1
321743	0.4
321745	0.3
321747	0.4
321748	730
321749	0.2
321751	0.8
321753	0.3
321755	0.2
321757	0.2
UNITS	ppm
SCHEME	AAS2A
UPPER SCHEME	AAS2C



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Job: 8AD3904
O/N: 1453

658068

ANALYTICAL REPORT

SAMPLE	Ag
321759	-0.6
321761	0.5
321763	0.4
321765	0.2
321767	0.2
321769	0.5
321771	0.4
321773	0.1
321775	0.7
321777	0.4
321779	0.4
321780	720
321781	1.0
321783	1.3
321785	0.3
321787	0.7
321789	0.5
321791	0.8
321793	0.6
321795	0.4
321797	0.4
321799	0.9
321801	<0.1
162002	<0.1
162004	0.8
UNITS	ppm
SCHEME	AAS2A
UPPER SCHEME	AAS2C



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Job: 8AD3904

O/N: 1453

658069

68

ANALYTICAL REPORT

SAMPLE	Ag
162006	0.7
162008	<0.1
162010	0.1
162012	<0.1
UNITS	ppm
SCHEME	AAS2A



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658070

Ms Liz Fry
Placer Exploration Limited
P.O. BOX 384
ROSNY PARK
TAS 7018

JOB NUMBER: 8AD3969

Your Reference:

Date Received: 20-DEC-1988 Turnaround 3 days
Date Relayed: 23-DEC-1988
Date Reported: 23-DEC-1988

Number of Samples: 104 Report Analyte Codes
N.A. - Not Analysed.
L.N.R. - Listed But Not Received.
I.S. - Insufficient Sample for Analysis.

Report Comprising: Cover Sheet
Pages 1 to 5

Comments:

Report Dist'n: Carbon Copies(CC), Electronic Media(EM), Magnetic Media(MM)
Type Recipient Location Date Copies

Approved Signature:

for

Harry Fishman
Managing Director.
CLASSIC COMLABS LTD
(Please address any enquiries to Mr. Trevor Francis)

This report relates specifically to the sample(s) tested in so far as that the sample(s) is truly representative of the sample source as supplied.



70

ANALYTICAL REPORT

SAMPLE	Au Avg	Au Dp1	Au Dp2	Au Dp3
85502	10	6	16	--
85504	14	16	12	--
85506	<2	--	--	--
85508	<2	--	--	--
85510	<2	--	--	--
85512	<2	--	--	--
85514	2	--	--	--
85516	2	--	--	--
85518	4	--	--	--
85520	14	--	--	--
85521	4	--	--	--
85523	2	--	--	--
85525	4	--	--	--
85527	60	65	55	--
85529	8	12	4	--
321651	4	--	--	--
321652	2	--	--	--
321653	6	--	--	--
321654	4	--	--	--
321655	2	--	--	--
321656	8	--	--	--
321657	2	<2	6	--
321658	<2	--	--	--
321659	6	--	--	--
321661	16	10	24	--
UNITS	ppb	ppb	ppb	ppb
SCHEME	AAS9	AAS9	AAS9	AAS9



ANALYTICAL REPORT

SAMPLE	Au Avg	Au Dp1	Au Dp2	Au Dp3
321663	6	--	--	--
321665	8	--	--	--
321667	<2	--	--	--
321669	4	--	--	--
321671	<2	--	--	--
321673	<2	--	--	--
321675	4	--	--	--
321677	4	--	--	--
321679	<2	--	--	--
321681	6	--	--	--
321683	4	--	--	--
321685	4	8	<2	--
321687	4	--	--	--
321689	6	--	--	--
321691	<2	--	--	--
321693	<2	--	--	--
321695	<2	--	--	--
321697	2	6	<2	--
321699	<2	--	--	--
321700	<2	--	--	--
321702	<2	--	--	--
321704	<2	--	--	--
321706	<2	--	--	--
321708	2	--	--	--
321710	<2	--	--	--
UNITS	ppb	ppb	ppb	ppb
SCHEME	AAS9	AAS9	AAS9	AAS9



ANALYTICAL REPORT

SAMPLE	Au Avg	Au Dp1	Au Dp2	Au Dp3
321712	4	<2	10	--
321714	4	--	--	--
321716	2	--	--	--
321718	<2	--	--	--
321720	<2	--	--	--
321722	<2	<2	<2	--
321724	2	--	--	--
321726	<2	<2	<2	--
321728	<2	--	--	--
321730	<2	--	--	--
321732	<2	--	--	--
321734	2	6	<2	--
321736	<2	--	--	--
321738	<2	--	--	--
321740	<2	--	--	--
321741	<2	--	--	--
321743	<2	--	--	--
321745	<2	--	--	--
321747	<2	--	--	--
321748	1950	1900	1950	--
321749	8	--	--	--
321751	<2	--	--	--
321753	6	--	--	--
321755	<2	--	--	--
321757	14	12	16	--
UNITS	ppb	ppb	ppb	ppb
SCHEME	AAS9	AAS9	AAS9	AAS9



ANALYTICAL REPORT

SAMPLE	Au Avg	Au Dp1	Au Dp2	Au Dp3
321759	6	--	--	--
321761	6	--	--	--
321763	10	--	--	--
321765	2	--	--	--
321767	2	--	--	--
321769	<2	--	--	--
321771	<2	<2	<2	--
321773	<2	--	--	--
321775	12	--	--	--
321777	10	--	--	--
321779	<2	--	--	--
321780	2300	I.S.	--	--
321781	14	--	--	--
321783	20	10	30	--
321785	6	--	--	--
321787	8	--	--	--
321789	<2	<2	<2	--
321791	<2	--	--	--
321793	4	--	--	--
321795	L.N.R.	L.N.R.	L.N.R.	L.N.R.
321797	L.N.R.	L.N.R.	L.N.R.	L.N.R.
321799	L.N.R.	L.N.R.	L.N.R.	L.N.R.
321801	L.N.R.	L.N.R.	L.N.R.	L.N.R.
162002	2	--	--	--
162004	38	--	--	--
UNITS	ppb	ppb	ppb	ppb
SCHEME	AAS9	AAS9	AAS9	AAS9

73



Job: 8AD3969

658075

74

ANALYTICAL REPORT

SAMPLE	Au Avg	Au Dp1	Au Dp2	Au Dp3
162006	18	--	--	--
162008	6	--	--	--
162010	2	--	--	--
162012	2	--	--	--
UNITS	ppb	ppb	ppb	ppb
SCHEME	AAS9	AAS9	AAS9	AAS9

APPENDIX VI

FOLLOW-UP DRAINAGE GEOCHEMISTRY

CYANIDE LEACH ANALYSES OF STREAM SEDIMENT SAMPLES



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76

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658077

Mr. Peter Ellis
Placer Exploration Limited
P.O. BOX 384
ROSNY PARK
TAS 7018 Australia

JOB NUMBER: 9AD0019

Your Reference: 1162

Date Received: 5-JAN-1989 Turnaround 12 days
Date Relayed: 17-JAN-1989
Date Reported: 17-JAN-1989

Number of Samples: 104 Report Analyte Codes
N.A. - Not Analysed.
L.N.R. - Listed But Not Received.
I.S. - Insufficient Sample for Analysis.

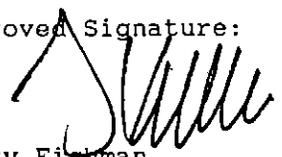
Report Comprising: Cover Sheet
Pages 1 to 5

Comments:

Report Dist'n: Carbon Copies(CC), Electronic Media(EM), Magnetic Media(MM)
Type Recipient Location Date Copies

Approved Signature:

for


Harry Fishman
Managing Director.
CLASSIC COMLABS LTD
(Please address any enquiries to Mr. Trevor Francis)

This report relates specifically to the sample(s) tested in so far as that the sample(s) is truly representative of the sample source as supplied.



ANALYTICAL REPORT

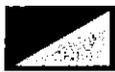
SAMPLE	Au	Cu	Ag
85502	1.0	<100	20
85504	1.0	300	<20
85506	0.5	<100	<20
85508	<0.5	<100	20
85510	<0.5	<100	40
85512	<0.5	300	40
85514	<0.5	<100	20
85516	<0.5	<100	<20
85518	<0.5	<100	40
85520	I.S.	I.S.	I.S.
85521	<0.5	<100	<20
85523	<0.5	<100	<20
85525	<0.5	<100	40
85527	<0.5	<100	<20
85529	<0.5	<100	40
A 321651	<0.5	<100	20
A 321652	<0.5	<100	40
A 321653	<0.5	<100	40
A 321654	<0.5	<100	40
A 321655	<0.5	<100	40
A 321656	<0.5	<100	40
A 321657	<0.5	<100	20
A 321658	I.S.	I.S.	I.S.
A 321659	<0.5	<100	<20
A 321661	<0.5	<100	<20
UNITS	ppb	ppb	ppb
SCHEME	BLEG1	BLEG1	BLEG1



ANALYTICAL REPORT

SAMPLE	Au	Cu	Ag
A 321663	<0.5	<100	20
A 321665	<0.5	<100	40
A 321667	I.S.	I.S.	I.S.
A 321669	0.5	<100	40
A 321671	<0.5	<100	40
A 321673	<0.5	<100	40
A 321675	<0.5	<100	40
A 321677	<0.5	200	40
A 321679	<0.5	<100	40
A 321681	<0.5	<100	40
A 321683	<0.5	<100	20
A 321685	I.S.	I.S.	I.S.
A 321687	<0.5	<100	100
A 321689	<0.5	200	40
A 321691	<0.5	<100	40
A 321693	<0.5	<100	40
A 321695	<0.5	<100	20
A 321697	<0.5	<100	<20
A 321699	<0.5	<100	20
A 321700	I.S.	I.S.	I.S.
A 321702	<0.5	<100	<20
A 321704	<0.5	<100	<20
A 321706	<0.5	<100	<20
A 321708	<0.5	<100	<20
A 321710	<0.5	<100	<20

UNITS	ppb	ppb	ppb
SCHEME	BLEG1	BLEG1	BLEG1



Job: 9AD0019
O/N: 1162

658080

ANALYTICAL REPORT

SAMPLE	Au	Cu	Ag
A 321712	<0.5	<100	<20
A 321714	<0.5	<100	40
A 321716	<0.5	1400	40
A 321718	<0.5	<100	<20
A 321720	<0.5	1100	<20
A 321722	<0.5	<100	20
A 321724	I.S.	I.S.	I.S.
A 321726	<0.5	<100	<20
A 321728	0.5	<100	40
A 321730	0.5	<100	20
A 321732	<0.5	<100	<20
A 321734	<0.5	<100	<20
A 321736	<0.5	<100	<20
A 321738	<0.5	<100	20
A 321740	<0.5	900	<20
A 321741	<0.5	200	<20
A 321743	<0.5	700	40
A 321745	<0.5	800	<20
A 321747	<0.5	800	<20
A 321748	I.S.	I.S.	I.S.
A 321749	<0.5	800	<20
A 321751	I.S.	I.S.	I.S.
A 321753	<0.5	700	<20
A 321755	<0.5	300	20
A 321757	<0.5	100	<20

UNITS ppb ppb ppb
SCHEME BLEG1 BLEG1 BLEG1



80

ANALYTICAL REPORT

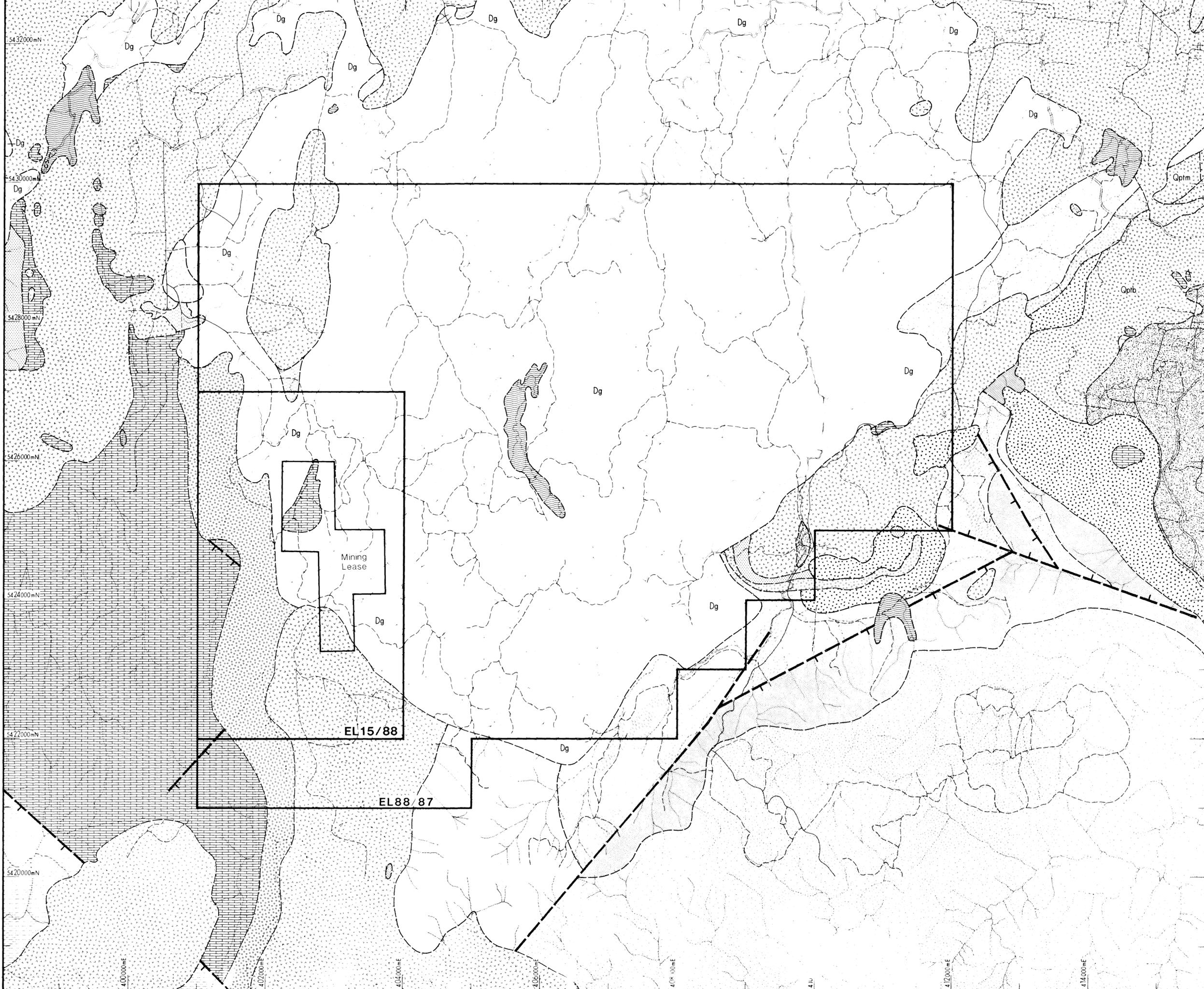
SAMPLE	Au	Cu	Ag
A 321759	<0.5	100	<20
A 321761	<0.5	<100	20
A 321763	<0.5	400	<20
A 321765	<0.5	100	20
A 321767	<0.5	600	20
A 321769	<0.5	300	40
A 321771	<0.5	200	20
A 321773	<0.5	300	40
A 321775	<0.5	200	40
A 321777	<0.5	1200	<20
A 321779	<0.5	1400	40
A 321780	I.S.	I.S.	I.S.
A 321781	1.0	900	60
A 321783	1.0	1300	40
A 321785	1.0	1200	20
A 321787	0.5	<100	<20
A 321789	0.5	900	60
A 321791	I.S.	I.S.	I.S.
A 321793	I.S.	I.S.	I.S.
A 321795	0.5	100	<20
A 321797	0.5	<100	<20
A 321799	I.S.	I.S.	I.S.
A 321801	<0.5	<100	20
A 162002	<0.5	1100	<20
A 162004	<0.5	2800	<20
UNITS	ppb	ppb	ppb
SCHEME	BLEG1	BLEG1	BLEG1



81

ANALYTICAL REPORT

SAMPLE	Au	Cu	Ag
A 162006	<0.5	1100	<20
A 162008	<0.5	2900	40
A 162010	<0.5	2600	40
A 162012	<0.5	300	<20
UNITS	ppb	ppb	ppb
SCHEME	BLEG1	BLEG1	BLEG1



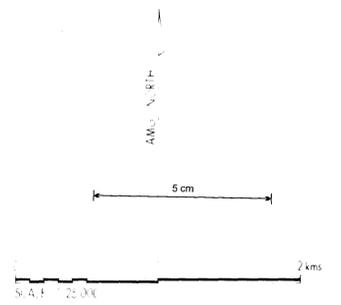
TOPOGRAPHY

- Main road
- Road
- Road track (restricted access)
- Creek/stream

GEOLOGY

- QUATERNARY**
- Qha Younger alluvium, swamp and marsh deposits
 - Qpt Scree and talus
 - Qptb Basalt scree and talus
 - Qpts Siliclastic rock scree and talus
 - Qptm Basalt and siliclastic rock scree and talus
 - Qpa Older alluvium and terrace deposits
 - Gpw Older till
- TERTIARY**
- Tb Basalt
 - Ts Sand and gravel deposits
 - Tsf Ferruginous sand and gravel deposits
 - Tss Silicified quartzose sediments
- DEVONIAN**
- Db Fossiliferous sandstone and mudstone (Bell Shale)
 - Dg Housetop Granite
- ORDOVICIAN**
- Og Fossiliferous limestone (Gordon Limestone)
 - Odm Bioturbated sandstones & minor conglomerate (Maina Sandstone)
 - Odc Dominantly siliceous conglomerate
 - Ods Dominantly quartz sandstone & minor conglomerate
 - Odu Undifferentiated
- CAMBRIAN**
- Ems Dominantly sedimentary rocks (felsic to intermediate volcanic)
 - Em Mixed sequence of dominantly extrusive felsic to intermediate volcanic & sedimentary rocks

- Fault, inferred, downthrown side indicated
- Geological boundary, position approximate



89-2939

PLACER 111 HOUSE TOWN HAMPSHIRE TASMANIA

EL88/87 - EL15/88

658083

Geological Interpretation

Date	Feb 1989	Geologist	P. Ellis
Revisors		Drawn	K. Ryder
		Plan No.	3218

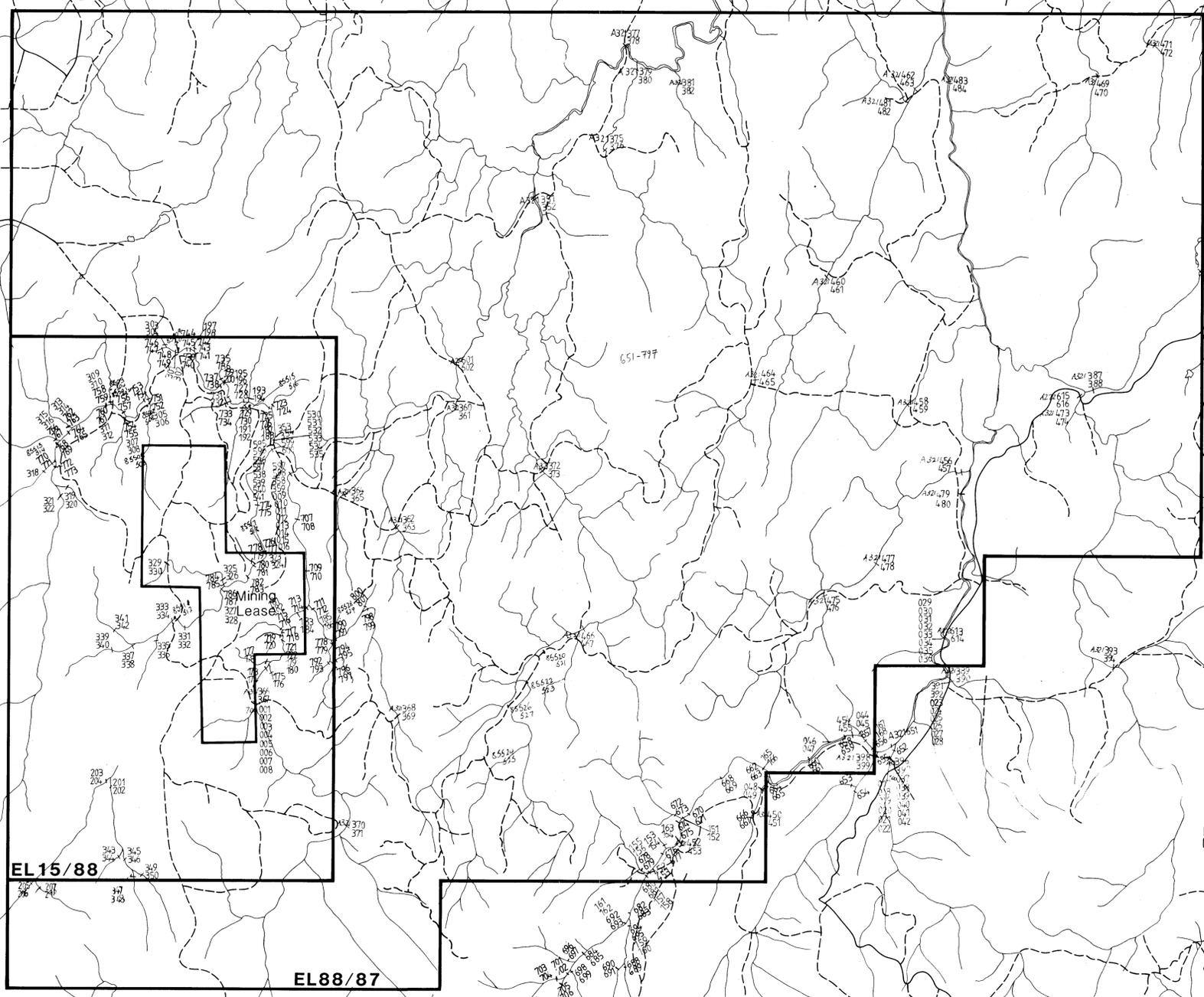
TOPOGRAPHY

-  Major road } (maintained for continuous public use)
-  Road }
-  Road / track (restricted use or access)
-  Creek / stream

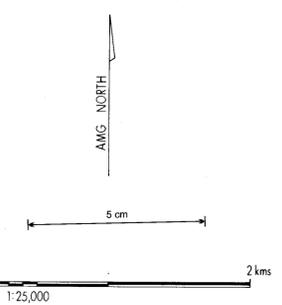
UNLESS SHOWN OTHERWISE ON MAP, SAMPLE NOS. HAVE THE FOLLOWING PREFIXES:

- 651-797 A321
- 575-586 A272
- ALL OTHERS 700

5432000mN
5430000mN
5428000mN
5426000mN
5424000mN
5422000mN
5420000mN



400000mE
402000mE
404000mE
406000mE
408000mE
410000mE
412000mE
414000mE



658084
89-2939

PLACER MT HOUSETOP - HAMPSHIRE TASMANIA

EL88/87 - EL15/88

Drainage Sample Locations

Date:	Geologist:
Revisions:	Drawn:
Plan No. SK55.3 - 3248	