455001

PROJECT 259

K-55-3

90-364

PLACER EXPLORATION LIMITED

RELINQUISHMENT REPORT

EXPLORATION LICENCE EL 88/87

MT HOUSETOP, TASMANIA

PLACER EXPLORATION REPORT TAS 7/90

HOBART

JULY 1990

P.D. ELLIS

DISTRIBUTION

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KEYWORDS

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

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APPENDICES

LIST OF ILLUSTRATIONS

PLANS
(In pockets)

1. SUMMARY

Exploration of EL 88/87 commenced in March 1988 and continued into the second period (a 17 month period to give a common renewal date with the adjacent EL 15/88 which has since been relinquished).

During 1989-90, rock chip sampling of the White Hill and Jaffrays Road areas (in the relinquished adjoining EL 15/88) showed the anomalous Au in the Holloway Creek, Intermediate Creek and Blythe River areas was associated with magnetic skarns and/or the contact of Tertiary Basalt with the underlying Ordovician sediment. These were low grade, small and of no economic significance.

Follow-up drainage sampling showed weakly anomalous Au values occurred in the middle upper reaches of Laurel Creek. This area was close to the contact of the Housetop Granite with the volcano-sedimentary rocks in an apparently block faulted zone.

Rock-chip sampling in this anomalous zone failed to locate any significant Au values in altered (metamorphosed) sediments, veined granite, quartz veins or any other unusual rock outcrop or float. It is still thought the anomalous Au is associated with the block faulting.

All significant anomalies within the Licence area have been explained, mainly by Au associated with skarns. The only unexplained weak Au anomaly is in Laurel Creek and is confined to a small area of block faulting with no evidence of economic mineralisation or significant alteration.

No further work is required and the Licence should be relinquished.

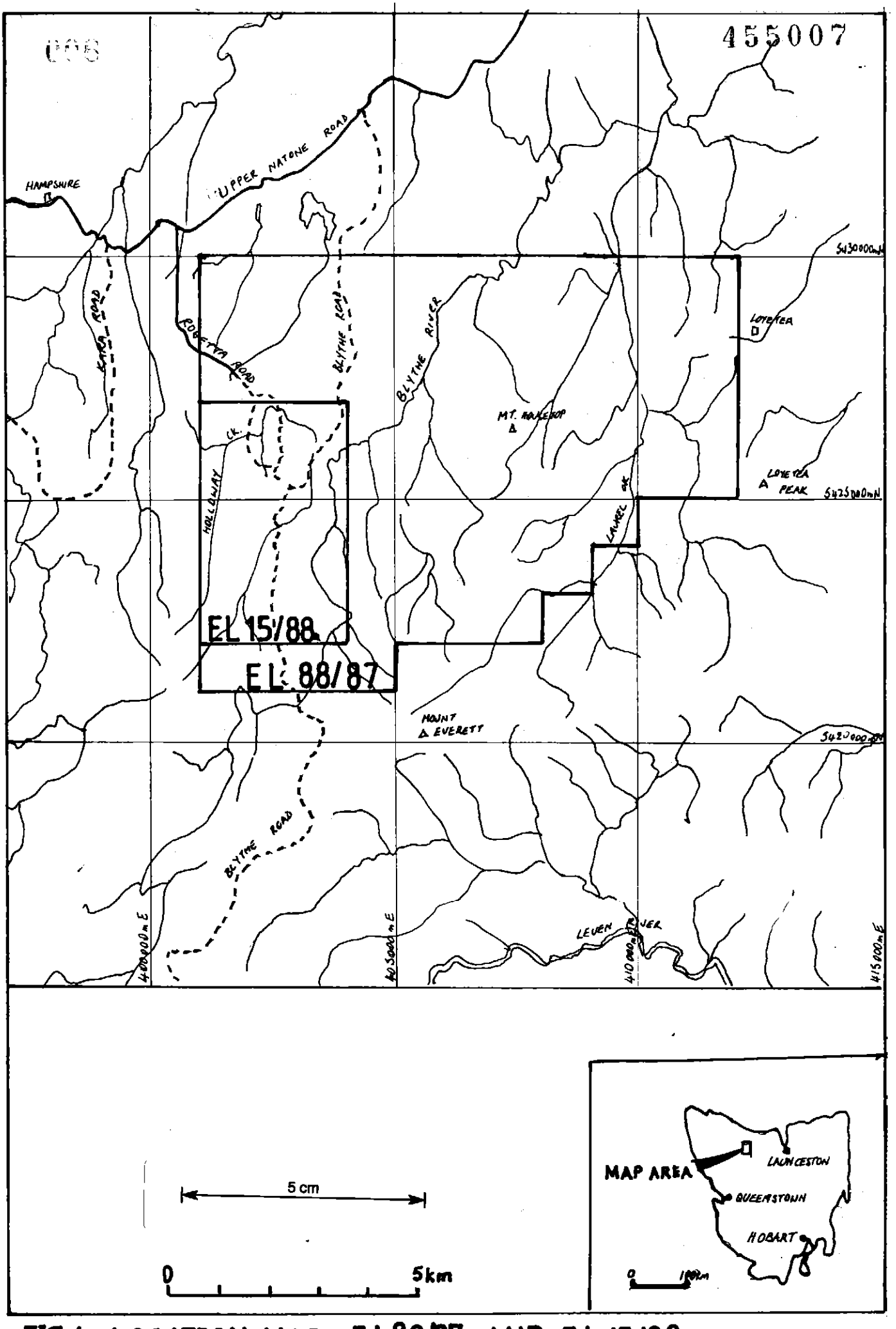

FIG. 1 LOCATION MAP, EL 88/87 AND EL 15/88
MOUNT HOUSETOP/HAMPSHIRE, TASMANIA

2. 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 (68km^2) 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 Ketza 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 (22km^2) of EL 17/68 (formerly held by Tasmania Mines) for Renison style tin deposits and Ketza River style gold mineralisation. EL 15/88 was granted to CSR Limited on the 1st August 1988 over an area of 13km^2. Both Licences were transferred to Placer Exploration Limited in October 1988. The combined area of 81km^2 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. EL 15/88 was relinquished in August 1989 after all the geochemical anomalies were examined and explained.

The 68km^2 Licence (EL 88/87) is located 30km 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 replacement and/or skarn mineralisation in the Ordovician Gordon Limestone and gold mineralisation as skarn or replacement with sulphides in Cambrian volcaniclastic 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, 25km 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 Placer Exploration in the second term of EL 88/87 ending on the 1st August 1990.

3. LOCATION AND GENERAL

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

Excellent access to the area is provided by sealed roads along the northern (Upper Natone Road) boundary of the Licence. Forestry activity within the Licence has provided good gravel road driving access to within 2km 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 Housetop 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 western and south-western area 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 volcaniclastic 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 is drained dominantly by tributaries of the Blythe River. The Blythe River flows through the Licence from the southwest 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 main drainage systems 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 1890's 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 magnetic 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 EL 17/68 in order to explore and evaluate the known iron, tin, copper and barite mineralisation of the area between Two Hummock 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 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 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 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 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 the adjacent EL 15/88 was obtained by tender when Tasmanian Mines relinquished part of EL 17/68.

Initial work by CSR/Placer consisted of broadly spaced drainage sampling with two samples being taken from each site on the major easily accessible drainages within the Licence area. Samples consisted of:

- a 5kg sample of -6mm active stream sediment for bulk cyanide leaching of extractable gold with additional silver and copper analysis.

- a 1kg conventional stream sediment sample for analysis of the -80# fraction for Cu, Pb, Zn, Bi, As, Sb, Sn and Ag (for reference).

This sampling defined (confirmed) anomalies in the Laurel Creek/Puffer Creek and the Holloway Creek/Blythe River areas (Ellis, 1989a). Follow-up sampling of these drainages showed the Holloway Creek/Blythe River anomaly was sourced in a series of magnetic skarns near Jaffrays Road and in the upper reaches of Holloway Creek and/or from the contact of Tertiary Basalt with Ordovician sediments in the headwaters of Intermediate Creek and/or from a diopsidic skarn (with sulphides) in the Whole Hill area (Ellis 1989a, b).

The Laurel Creek/Puffer Creek anomaly was traced to an area of volcano-sedimentary Cambro-Ordovician rocks intruded by Devonian Granite in the middle reaches of Laurel Creek.

455014

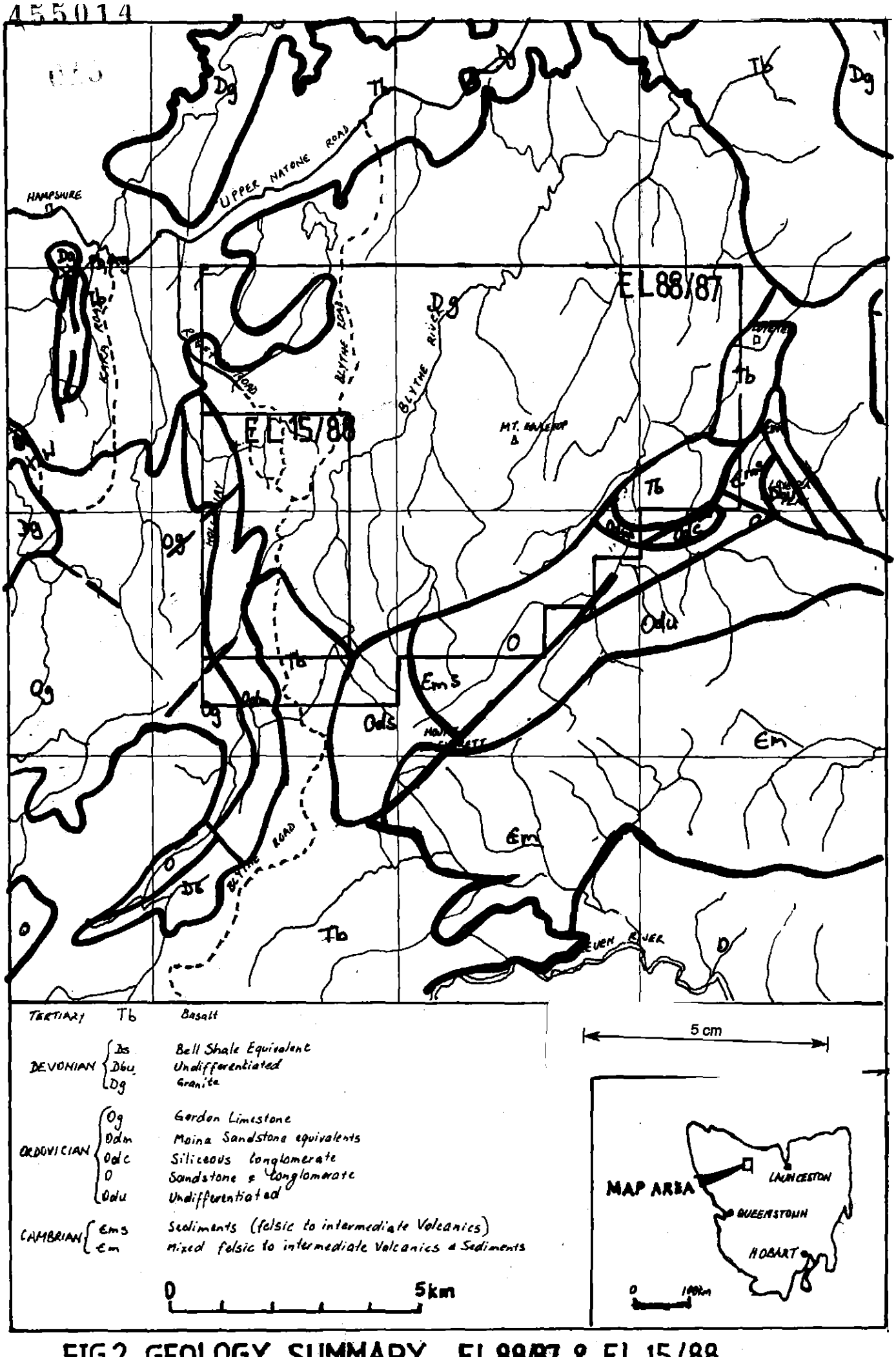

FIG.2 GEOLOGY SUMMARY EL88/87 & EL 15/88
MOUNT HOUSETOP / HAMPSHIRE

5. GEOLOGY

The oldest rocks in the Mt Housetop area (Figure 2) are the correlates of the Mt Read Volcanics outcropping in 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 inter-bedded 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 Moina Sandstone equivalents. These are exposed to the south of Peak Hill (Laurel Creek Area) and in the south and west of the Licence.

Overlying the Moina Sandstone correlates (but with generally poor outcrop) is a limestone sequence, correlated with 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 Redwater 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 the central and north-eastern portions of the Licence with 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 (4km to the west of the Licence).

During the Tertiary period, 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 fluviatile sediments overlie the older rocks. These generally occur as valley floor alluvial-type deposits with some containing anomalous tin and possible gold concentrations.

Detailed geology is shown on PLAN NO. SK 553-3218

6. CURRENT EXPLORATION.

6.1 Techniques

The areas of suspect geochemistry (Ellis 1989a) were re-sampled using 5kg bulk cyanide leach samples and 1kg conventional stream sediment samples (sieved to -80# for analysis).

Geological mapping and rock chip sampling was completed in areas of anomalous Au drainage geochemistry in Laurel Creek. Previous mapping suggested that faulting may have occurred in the granite/sediment contact in this area. All rocks with alteration or quartz veining were rock chip sampled in an attempt to define the source of the weakly anomalous Au.

6.2 Results

Re sampling of areas of suspect previous drainage geochemistry confirmed the original areas of anomalous Au results were anomalous (Appendix I). It also showed problems with the analysis and/or processing of samples for bulk cyanide. Leaching had developed. Despite previous accurate and consistent results, it became apparent that the process and/or reagents had changed.

Further sampling was undertaken in the Laurel Creek anomalous areas previously outlined in an attempt to define the source of the Au (Drg No SK 55.03-3248 and SK 55.03/259-1). Results of this bulk leach (Appendix II) and conventional stream sediment (Appendix II) sampling showed the only area of consistent (but low) anomalous Au was in the area of grid coordinate 542300mN 40800mE. At this location (and upstream) the edge of the Mt Housetop Granite appears to be faulted (Drg No SK 55.03-3218) with right-angle changes in the granite/sediment contact. It was thought the weakly anomalous

Au may have been associated with this faulting and occur with quartz veining and/or disseminations within dilation zones resulting from the faulting.

Geological mapping in this area failed to locate any altered rocks. Both the granite and the adjacent volcano-sedimentary rocks showed only slight weathering and no mineralisation. The sediments appeared to be weakly hornfelsed (in places) with minor quartz veining. Eleven rock chip samples from both float and outcrop were taken and analysed. These included all rocks with any unusual veining, silicification or hornfelsing. Results of the analyses (Appendix IV) showed no anomalous gold values.

6.3 Proposed Exploration

Drainage geochemistry showed an area of Laurel Creek to have weak anomalous Au values. Rock chip sampling failed to locate a rock source for the anomalous Au results. Geological mapping showed no significant alteration or mineralisation in the area of the weakly anomalous Au drainage geochemistry.

Weak Au may be associated with faulting along the granite/sediment contact in this area but is not sufficient to form economic (or even sub economic) mineralisation.

The area should be relinquished.

7. REFERENCES

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Unpub. Rpt. of Tasmania Mines Ltd.

APPENDIX I

CHECK FOLLOW-UP DRAINAGE GEOCHEMISTRY
CYANIDE LEACH AND STREAM SEDIMENT ANALYSES

NOTE: Some samples are from the previously relinquished adjoining EL 15/88 area.

455021

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Analytical Laboratories (INC. IN W.A.)

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

Mr Peter Ellis
Placer Exploration Limited
479 Oceana Drive
Howrah
TAS 7018

JOB NUMBER: 9AD0565

Your Reference: 1456

Date Received: 06-APR-1989 Turnaround 11 days
Date Relayed: 17-APR-1989
Date Reported: 17-APR-1989

Number of Samples: 77

Report Analyte Codes
N.A. - Not Analysed.
L.N.R. - Listed But Not Received.
I.S. - Insufficent Sample for Analysis.

Report Comprising: Cover Sheet
Pages 1 to 4

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.
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(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.

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455022

Job: 9AD0565
O/N: 1456

ANALYTICAL REPORT

SAMPLE	Ag	Cu	Au
271959	22	24	1.05
A1	13.6	9.8	0.85
700001	0.28	2.3	0.35
700003	0.14	2.0	0.10
700009	0.04	1.0	0.25
700013	<0.02	0.6	0.15
700017	0.04	1.1	<0.05
700021	0.16	1.5	0.10
700023	0.02	1.4	<0.05
700027	0.04	1.9	0.10
700029	0.04	<0.1	0.20
700033	0.04	0.3	0.40
700037	0.06	1.0	0.10
700041	0.04	0.9	0.05
700044	<0.02	0.2	0.05
700046	<0.02	0.8	0.10
700048	<0.02	1.5	0.10
700151	<0.02	<0.1	0.05
700153	0.02	0.6	0.10
700155	<0.02	0.1	0.15
700157	<0.02	<0.1	0.20
700159	<0.02	<0.1	0.10
700161	0.04	1.2	0.05
700163	0.02	0.3	0.05
700165	L.N.R.	L.N.R.	L.N.R.
UNITS	ppm	ppm	ppb
SCHEME	BLEG1	BLEG1	BLEG2

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Job: 9AD0565
O/N: 1456

ANALYTICAL REPORT

SAMPLE	Ag	Cu	Au
700167	L.N.R.	L.N.R.	L.N.R.
700169	L.N.R.	L.N.R.	L.N.R.
700171	<0.02	26	1.25
700173	<0.02	1.4	<0.05
700175	<0.02	0.7	<0.05
700177	0.02	<0.1	<0.05
700179	0.06	3.0	0.65
700181	0.04	2.1	1.60
700183	<0.02	<0.1	<0.05
700185	0.02	0.9	<0.05
700187	0.12	<0.1	0.05
700189	0.08	<0.1	<0.05
700191	<0.02	0.7	0.05
700193	<0.02	<0.1	<0.05
700195	0.04	<0.1	<0.05
700197	0.02	0.4	<0.05
700199	<0.02	<0.1	0.05
700201	<0.02	0.5	1.50
700203	0.06	1.1	<0.05
700205	0.02	0.9	0.05
700207	0.04	1.4	<0.05
700209	0.12	1.5	<0.05
700211	0.04	1.7	0.25
700213	0.04	1.5	0.20
700301	0.04	0.7	<0.05
UNITS	ppm	ppm	ppb
SCHEME	BLEG1	BLEG1	BLEG2

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Job: 9AD0565
O/N: 1456

ANALYTICAL REPORT

SAMPLE	Ag	Cu	Au
700303	<0.02	0.4	<0.05
700305	<0.02	1.7	<0.05
700307	<0.02	0.9	<0.05
700309	<0.02	<0.1	<0.05
700311	<0.02	1.0	<0.05
700313	<0.02	<0.1	<0.05
700315	0.06	0.4	<0.05
700319	0.06	<0.1	<0.05
700321	<0.02	0.5	<0.05
700323	<0.02	0.7	<0.05
700325	<0.02	0.6	0.55
700327	<0.02	0.7	<0.05
700329	<0.02	1.3	0.20
700331	0.02	0.6	<0.05
700333	0.02	0.2	<0.05
700335	<0.02	0.9	<0.05
700337	<0.02	<0.1	<0.05
700339	<0.02	<0.1	<0.05
700341	<0.02	0.5	0.05
700343	<0.02	<0.1	0.05
700345	<0.02	0.4	<0.05
700347	<0.02	0.9	<0.05
700349	<0.02	1.4	<0.05
321530	<0.02	<0.1	<0.05
321534	0.02	0.3	<0.05
UNITS	ppm	ppm	ppb
SCHEME	BLEG1	BLEG1	BLEG2

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Job: 9AD0565
O/N: 1456

455025

ANALYTICAL REPORT

SAMPLE	Ag	Cu	Au
321536	0.38	2.1	0.15
321573	17.0	30	2.0
UNITS	ppm	ppm	ppb
SCHEME	BLEG1	BLEG1	BLEG2

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455026

Mr Peter Ellis
Placer Exploration Limited
479 Oceana Drive
Howrah
TAS 7018

Mt Howrah

JOB NUMBER: 9AD0552

Your Reference: 1457

Date Received: 11-APR-1989
Date Relayed: 11-APR-1989
Date Reported: 11-APR-1989

Turnaround 1 day

Number of Samples: 96

Report Analyte Codes
N.A. - Not Analysed.
L.N.R. - Listed But Not Received.
I.S. - Insufficent Sample for Analysis.

Report Comprising: Cover Sheet
Pages 1 to 8

Comments:

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

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Approved Signature:

for Harry Fishman

Harry Fishman
Managing Director.
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(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.

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Job: 9AD0552
O/N: 1457

ANALYTICAL REPORT

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321531	510	22	38	0.8	26
321533	290	50	145	1.3	150
321535	380	54	135	4.4	26
321537	10	24	46	0.3	<2
321539	3	22	50	0.4	<2
321541	4	18	38	0.1	<2
321542	3	4	6	0.4	<2
321543	620	4450	3250	700	3300
700001	6	14	44	1.3	8
700002	9	28	150	1.4	8
700004	24	34	135	0.3	55
700006	14	20	86	0.1	I.S.
700008	11	24	100	0.9	I.S.
700010	14	18	94	0.3	I.S.
700012	4	18	70	0.3	I.S.
700014	3	14	48	0.2	4
700016	4	16	58	0.3	<2
700018	<2	26	36	0.5	<2
700020	3	36	38	0.1	6
700022	3	46	54	0.3	10
700024	<2	10	19	<0.1	2
700026	<2	8	20	<0.1	<2
700028	<2	6	18	0.2	4
700030	4	24	56	0.5	16
UNITS	ppm	ppm	ppm	ppm	ppb
SCHEME	AAS1	AAS1	AAS1	AAS2A	AAS9
UPPER SCHEME				AAS2C	

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Analytical Laboratories (INC. IN W.A.)

Job: 9AD0552
O/N: 1457

ANALYTICAL REPORT

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700034	<2	22	44	0.5	8
700036	4	30	48	0.4	I.S.
700038	<2	36	58	0.2	4
700040	<2	28	50	0.3	<2
700042	<2	32	54	0.4	<2
700043	24	8	36	0.4	34
700045	7	8	8	0.2	2
700047	16	14	125	0.1	18
700049	9	16	64	0.2	4
700050	670	4300	3600	610	2800
700083	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
700152	10	20	145	<0.1	16
700154	6	12	60	0.1	2
700156	4	<4	20	<0.1	<2
700158	4	4	17	<0.1	<2
700160	2	6	14	0.2	6
700162	5	10	34	0.1	6
700164	6	6	36	0.4	2
700166	4	12	92	<0.1	20
700168	4	8	64	0.4	6
700170	88	56	1080	<0.1	I.S.
700172	46	40	195	0.5	22
700174	9	10	84	0.2	4
700176	4	4	34	0.2	<2
UNITS	ppm	ppm	ppm	ppm	ppb
SCHEME	AAS1	AAS1	AAS1	AAS2A	AAS9
UPPER SCHEME				AAS2C	

Job: 9AD0552
O/N: 1457

ANALYTICAL REPORT

SAMPLE	Cu	Pb	Zn	Ag	Au
700178	2	<4	19	0.2	2
700180	14	20	165	0.1	<2
700182	8	22	210	0.4	18
700184	7	22	175	0.2	8
700186	7	8	54	0.1	<2
700188	3	4	16	0.5	<2
700190	9	20	125	0.4	I.S.
700192	7	26	155	0.1	I.S.
700194	6	14	130	0.1	I.S.
700196	4	4	18	0.2	<2
700198	12	20	195	0.3	6
700200	17	20	220	0.2	8
700202	28	42	270	0.4	10
700204	9	44	175	0.2	4
700206	6	8	32	0.4	<2
700208	4	40	76	0.4	<2
700210	15	28	165	0.5	10
700212	18	38	290	0.6	I.S.
700214	14	20	195	0.5	26
700215	3	<4	<2	0.1	6
700302	5	4	9	0.3	<2
700304	10	12	130	0.3	I.S.
700306	7	24	120	0.3	I.S.
700308	3	12	32	<0.1	4
700310	5	12	36	0.5	<2
UNITS	ppm	ppm	ppm	ppm	ppb
SCHEME	AAS1	AAS1	AAS1	AAS2A	AAS9

CLASSIC COMLABS LTD
Analytical Laboratories (INC. IN W.A.)

455030

Job: 9AD0552
O/N: 1457

ANALYTICAL REPORT

SAMPLE	Cu	Pb	Zn	Ag	Au
700312	6	14	9	0.2	<2
700314	2	<4	2	0.3	<2
700316	4	12	15	0.5	<2
700318	<2	<4	5	0.2	<2
700320	4	14	20	0.3	2
700322	6	12	15	0.7	<2
700324	5	18	64	0.5	40
700326	9	48	190	0.5	I.S.
700328	4	22	70	0.6	4
700330	9	10	50	0.3	<2
700332	<2	14	40	0.3	16
700334	<2	<4	13	0.4	8
700336	3	16	46	0.4	10
700338	<2	<4	7	0.5	2
700340	<2	<4	3	0.3	<2
700342	2	<4	13	0.2	<2
700344	5	4	17	<0.1	2
700346	18	20	175	0.3	I.S.
700348	7	4	9	0.2	<2
700350	6	6	18	0.2	4
700512	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
UNITS	ppm	ppm	ppm	ppm	ppb
SCHEME	AAS1	AAS1	AAS1	AAS2A	AAS9

CLASSIC COMLABS LTD
Analytical Laboratories (INC. IN W.A.)

455031

Job: 9AD0552
O/N: 1457

ANALYTICAL REPORT

SAMPLE	As	Bi	Sn	Sb
321529	430	64	1620	120
321531	19	6	54	8
321533	16	6	58	4
321535	12	4	54	10
321537	10	<4	32	8
321539	9	<4	22	6
321541	8	6	30	8
321542	<2	4	510	8
321543	450	78	1640	130
700001	82	6	4	6
700002	13	<4	6	8
700004	9	<4	8	6
700006	6	<4	8	<4
700008	7	4	4	6
700010	13	<4	16	10
700012	10	<4	10	<4
700014	8	4	18	12
700016	10	6	14	6
700018	10	<4	6	10
700020	15	<4	4	12
700022	20	<4	<4	10
700024	6	<4	10	6
700026	6	8	8	4
700028	4	<4	4	6
700030	9	<4	4	8
UNITS	ppm	ppm	ppm	ppm
SCHEME	XRF1	XRF1	XRF1	XRF1

Job: 9AD0552
O/N: 1457

ANALYTICAL REPORT

SAMPLE	As	Bi	Sn	Sb
700032	7	<4	6	10
700034	13	<4	6	10
700036	15	4	4	8
700038	8	8	24	8
700040	7	<4	<4	8
700042	11	<4	8	10
700043	14	16	<4	16
700045	6	<4	10	8
700047	8	8	4	6
700049	12	<4	8	8
700050	400	54	1640	115
700083	L.N.R.	L.N.R.	L.N.R.	L.N.R.
700152	8	<4	8	8
700154	9	<4	6	6
700156	4	<4	4	10
700158	9	4	<4	8
700160	8	<4	<4	8
700162	10	<4	<4	10
700164	7	<4	8	6
700166	7	<4	6	10
700168	7	<4	4	<4
700170	14	4	12	10
700172	30	<4	64	14
700174	7	<4	8	6
700176	6	<4	8	6
UNITS	ppm	ppm	ppm	ppm
SCHEME	XRF1	XRF1	XRF1	XRF1

Job: 9AD0552
O/N: 1457

ANALYTICAL REPORT

SAMPLE	As	Bi	Sn	Sb
700178	3	<4	58	4
700180	9	4	30	12
700182	16	8	90	6
700184	5	<4	6	10
700186	5	8	18	10
700188	7	<4	26	8
700190	7	<4	18	4
700192	36	12	240	4
700194	6	<4	22	4
700196	6	<4	24	6
700198	5	<4	28	8
700200	7	<4	125	8
700202	11	<4	<4	8
700204	12	4	<4	6
700206	6	<4	4	10
700208	10	<4	6	8
700210	11	<4	220	12
700212	17	<4	48	6
700214	9	10	22	14
700215	<2	<4	500	10
700302	6	<4	24	6
700304	8	6	8	4
700306	12	<4	10	12
700308	4	<4	10	8
700310	7	6	38	6
UNITS	ppm	ppm	ppm	ppm
SCHEME	XRF1	XRF1	XRF1	XRF1

455034

ANALABS

A division of MacDonald Hamilton & Co. Pty. Ltd.
52 Murray Road, Welshpool, W.A. 6106
Phone (09) 458 7999
FAX: 004 31 8890
Telex AA92560

ANALYTICAL REPORT No. 899.32.08.0819

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
DN 1460	

DATE RECEIVED	RESULTS REQUIRED
07/04/89	ASAP

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No. OF SAMPLES
1	18/04/89	1	16

STATE OF SAMPLES		PRE-TREATMENT							ANALYSIS		
REFER BELOW	SAMPLE NUMBERS	DRY	CRUSH	SPLIT	PUL-VERISE	SIEVE	OTHER SEE REMARKS	NONE	REFER TO ANALYSIS SECTION	PREPARATION	METHOD
	Various	SS							Cu,Ag,Au,DryWt/32B		

RESULTS TO

Liz Fry
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	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

034

ANALABS

455035

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	795.32.08.0619	18/04/89	DN 1460	1 OF 1

TUBE No.	SAMPLE No.	Cu	Ag	Au	DryWt					
1	A321552	69	<0.1	0.15	3.9					
2	A321538	76	<0.1	<0.05	4.1					
3	A321540	67	2.0	0.09	4.4					
4	A700005	332	<0.1	0.09	3.8					
5	A700007	208	0.7	<0.05	4.9					
6	A700011	168	<0.1	0.10	4.3					
7	A700015	135	<0.1	<0.05	3.1					
8	A700019	261	0.7	0.17	3.9					
9	A700025	713	4.4	<0.05	4.1					
10	A700031	121	0.7	<0.05	3.0					
11	A700035	110	3.7	0.13	4.7					
12										
13								—		
14								—	20	
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

AUTHORISED OFFICER

APPENDIX II

FOLLOW-UP DRAINAGE GEOCHEMISTRY
BULK CYANIDE LEACH ANALYSES

CLASSIC COMLABS LTD 455037
Analytical Laboratories (INC. IN W.A.)

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

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

Job Number: 9AD1048

Your Reference: 1461
Number of Samples: 177
Extra Samples : 0

Date Received: 28-JUN-1989
Date Reported: 18-JUL-1989

This report comprises a cover sheet and pages 1 to 8

This report relates specifically to the samples tested in so far as that the samples as supplied are truly representative of the sample source. Please address any enquiries to Mr. Trevor Francis.

Approved Signature:

for

Dr. John Kikkert
General Manager - Adelaide.
CLASSIC COMLABS LTD

CC Ms Liz Fry Sydney

Report Analyte Codes:
N.A. - Not Analysed.
L.N.R. - Listed But Not Received.
I.S. - Insufficent Sample for Analysis.

Distribution Codes:
CC - Carbon Copy
EM - Electronic Media
MM - Magnetic Media

Job: 9AD1048
O/N: 1461

ANALYTICAL REPORT

SAMPLE	Cu	Ag	Au
702018	<0.1	<0.02	<0.05
702020	0.1	0.14	0.15
702022	L.N.R.	L.N.R.	L.N.R.
702024	0.1	<0.02	0.05
702027	<0.1	0.02	0.20
702029	<0.1	<0.02	1.15
702031	<0.1	<0.02	<0.05
702033	0.2	0.02	0.05
702035	0.1	<0.02	<0.05
702037	0.2	<0.02	<0.05
702039	0.2	0.02	<0.05
702041	0.1	<0.02	<0.05
702043	0.1	<0.02	<0.05
702045	0.2	0.02	<0.05
702047	<0.1	<0.02	<0.05
702049	0.2	<0.02	<0.05
702051	0.1	<0.02	<0.05
702053	<0.1	<0.02	<0.05
UNITS	ppm	ppm	ppb
SCHEME	BLEG1	BLEG1	BLEG2

CLASSIC COMLABS LTD
Analytical Laboratories (INC. IN WA.)

455039

Job: 9AD1048
O/N: 1461

ANALYTICAL REPORT

SAMPLE	Cu	Ag	Au
702072	<0.1	<0.02	<0.05
702074	<0.1	<0.02	3.6
702076	<0.1	<0.02	3.4
702078	<0.1	<0.02	<0.05
702080	0.1	<0.02	0.05
702082	<0.1	<0.02	0.05
702085	0.1	<0.02	0.10
702089	0.3	<0.02	<0.05
702091	<0.1	<0.02	0.05
702093	0.2	0.02	<0.05
702095	0.2	0.02	<0.05
702097	0.2	0.02	0.05
702099	0.1	<0.02	<0.05
702102	0.2	<0.02	<0.05
702104	0.2	<0.02	0.05
702106	0.2	<0.02	13
702108	<0.1	<0.02	0.05
UNITS	ppm	ppm	ppb
SCHEME	BLEG1	BLEG1	BLEG2

CLASSIC COMLABS LTD
Analytical Laboratories (INC. IN WA.)

455040

Job: 9AD1048
O/N: 1461

ANALYTICAL REPORT

	SAMPLE	Cu	Ag	Au
	702110	<0.1	<0.02	0.20
	702112	<0.1	<0.02	0.05
	702114	0.3	<0.02	<0.05
	702116	<0.1	<0.02	0.10
	702119	<0.1	<0.02	<0.05
Hous	702121	0.2	0.04	<0.05
	702123	<0.1	<0.02	<0.05
	702125	<0.1	<0.02	<0.05
	702127	<0.1	<0.02	<0.05
	702129	<0.1	<0.02	<0.05
	702131	<0.1	<0.02	<0.05
	702133	<0.1	<0.02	<0.05
	702135	<0.1	<0.02	0.05
	UNITS	ppm	ppm	ppb
	SCHEME	BLEG1	BLEG1	BLEG2

455041

APPENDIX III

FOLLOW-UP DRAINAGE GEOCHEMISTRY
STREAM SEDIMENT ANALYSES

CLASSIC COMLABS LTD
Analytical Laboratories (INC. IN W.A.)

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

455042

Mr Peter Ellis
Placer Exploration Limited
PO BOX 384
ROSNY PARK
TAS 7018

Job Number: 9AD1049

Your Reference: 1462
Number of Samples: 373
Extra Samples : 0

Date Received: 27-JUN-1989
Date Reported: 06-JUL-1989

This report comprises a cover sheet and pages 1 to 30

This report relates specifically to the samples tested in so far as that the samples as supplied are truly representative of the sample source. Please address any enquiries to Mr. Trevor Francis.

Approved Signature:

for

Dr. John Kikkert
General Manager - Adelaide.
CLASSIC COMLABS LTD

CC Ms Liz Fry Sydney

Report Analyte Codes:
N.A. - Not Analysed.
L.N.R. - Listed But Not Received.
I.S. - Insufficent Sample for Analysis.

Distribution Codes:
CC - Carbon Copy
EM - Electronic Media
MM - Magnetic Media

CLASSIC COMLABS LTD
Analytical Laboratories (INC. IN WA)

455043

Job: 9AD1049
O/N: 1462

ANALYTICAL REPORT

SAMPLE	Cu	Pb	Zn	Ag	As	Sb	Au
702019 - 80#	3	50	64	0.4	8	10	2
702021 - 80#	5	4	10	0.2	5	8	x
702025 - 80#	4	16	20	0.1	5	4	x
702028 - 80#	2	<4	6	<0.1	4	6	x
702030 - 80#	<2	4	3	<0.1	5	8	x
702032 - 80#	7	56	250	0.4	18	8	x
702034 - 80#	3	8	5	0.3	6	8	x
702036 - 80#	<2	<4	6	<0.1	7	4	x
702038 - 80#	2	<4	4	0.3	2	6	x
702040 - 80#	<2	<4	3	<0.1	3	6	x
702042 - 80#	<2	<4	3	0.2	3	10	x
702044 - 80#	2	<4	2	<0.1	4	8	x
702046 - 80#	<2	18	60	0.5	6	4	x
702048 - 80#	3	<4	2	<0.1	4	6	x
702050 - 80#	2	16	64	<0.1	4	8	x
702052 - 80#	3	14	22	0.1	24	<4	x
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	
SCHEME	AAS1	AAS1	AAS1	AAS2A	XRF1	XRF1	
UPPER SCHEME		AAS4	AAS1C	AAS2C			

Job: 9AD1049
O/N: 1462

ANALYTICAL REPORT

	SAMPLE	Cu	Pb	Zn	Ag	As	Sb	Au
Hols	702054 - 80#	<2	12	40	0.1	13	6	x
	702073 - 80#	7	6	11	0.2	4	8	4
	702075 - 80#	2	4	6	<0.1	6	12	4
	702077 - 80#	<2	<4	4	<0.1	5	6	2
	702079 - 80#	4	4	10	0.2	7	8	x
Hols	702081 - 80#	3	6	4	0.1	7	8	2
	702083 - 80#	2	8	4	<0.1	3	4	2
	702086 - 80#	7	6	13	0.2	5	6	2
	702090 - 80#	3	6	8	<0.1	7	6	x
	702092 - 80#	5	8	7	0.3	9	6	2
	702094 - 80#	4	20	17	0.1	6	12	2
	702096 - 80#	5	4	7	0.2	6	8	x
	702098 - 80#	4	<4	8	0.3	3	6	x
	702100 - 80#	4	<4	8	0.2	4	6	2
	702103 - 80#	6	<4	5	<0.1	4	8	x
	702105 - 80#	4	6	9	<0.1	6	4	2
	UNITS	ppm	ppm	ppm	ppm	ppm	ppm	
	SCHEME	AAS1	AAS1	AAS1	AAS2A	XRF1	XRF1	

CLASSIC COMLABS LTD
Analytical Laboratories (INC. IN W.A.)

455045

Job: 9AD1049
O/N: 1462

ANALYTICAL REPORT

	SAMPLE	Cu	Pb	Zn	Ag	As	Sb	Au		
	702107 - 80#	6	6	12	<0.1	6	6	x		
	702109 - 80#	4	4	7	<0.1	5	8	x		
	702111 - 80#	<2	<4	3	<0.1	4	8	x		
Hous	702113 - 80#	4	6	5	<0.1	6	8	x		
	702115 - 80#	5	4	6	<0.1	4	6	x		
	702117 - 80#	9	4	9	<0.1	4	4	x	x	x
Gx13	702118 - 80#	6	4	4	<0.1	<2	4	6		
	702120 - 80#	9	14	44	0.2	5	10	x		
	702122 - 80#	14	210	135	0.9	28	8	x		
Hous	702124 - 80#	3	26	15	<0.1	7	8	x		
	702126 - 80#	6	22	16	0.1	3	8	x		
	702128 - 80#	6	28	13	0.4	8	10	2		
	702130 - 80#	2	16	6	0.2	4	10	x		
	702132 - 80#	6	36	70	<0.1	17	10	4	4	2
	702134 - 80#	4	52	18	0.3	7	12	x		
	702136 - 80#	3	12	<2	<0.1	4	6	2		

UNITS	ppm	ppm	ppm	ppm	ppm	ppm	
SCHEME	AAS1	AAS1	AAS1	AAS2A	XRF1	XRF1	

Job: 9AD1049
O/N: 1462

ANALYTICAL REPORT

SAMPLE	Au Avg	Au Dp1	Au Dp2	Au Dp3
702019 - 80#	2	--	--	--
702021 - 80#	<2	--	--	--
702025 - 80#	<2	--	--	--
702028 - 80#	<2	--	--	--
702030 - 80#	<2	--	--	--
702032 - 80#	<2	--	--	--
702034 - 80#	<2	--	--	--
702036 - 80#	<2	--	--	--
702038 - 80#	<2	--	--	--
702040 - 80#	<2	--	--	--
702042 - 80#	<2	--	--	--
702044 - 80#	<2	--	--	--
702046 - 80#	<2	--	--	--
702048 - 80#	<2	--	--	--
702050 - 80#	<2	--	--	--
702052 - 80#	<2	--	--	--
UNITS	ppb	ppb	ppb	ppb
SCHEME	AAS10	AAS10	AAS10	AAS10

Job: 9AD1049
O/N: 1462

ANALYTICAL REPORT

SAMPLE	Au Avg	Au Dp1	Au Dp2	Au Dp3
702054 - 80#	<2	--	--	--
702073 - 80#	4	--	--	--
702075 - 80#	4	--	--	--
702077 - 80#	2	--	--	--
702079 - 80#	<2	--	--	--
702081 - 80#	2	--	--	--
702083 - 80#	2	--	--	--
702086 - 80#	2	--	--	--
702090 - 80#	<2	--	--	--
702092 - 80#	2	--	--	--
702094 - 80#	2	--	--	--
702096 - 80#	<2	--	--	--
702098 - 80#	<2	--	--	--
702100 - 80#	2	--	--	--
702103 - 80#	<2	--	--	--
702105 - 80#	2	--	--	--
UNITS	ppb	ppb	ppb	ppb
SCHEME	AAS10	AAS10	AAS10	AAS10

Job: 9AD1049
O/N: 1462

ANALYTICAL REPORT

SAMPLE	Au Avg	Au Dp1	Au Dp2	Au Dp3
702107 - 80#	<2	--	--	--
702109 - 80#	<2	--	--	--
702111 - 80#	<2	--	--	--
702113 - 80#	<2	--	--	--
702115 - 80#	<2	--	--	--
702117 - 80#	<2	<2	<2	--
702118 - 80#	6	--	--	--
702120 - 80#	<2	--	--	--
702122 - 80#	<2	--	--	--
702124 - 80#	<2	--	--	--
702126 - 80#	<2	--	--	--
702128 - 80#	2	--	--	--
702130 - 80#	<2	--	--	--
702132 - 80#	4	4	2	--
702134 - 80#	<2	--	--	--
702136 - 80#	2	--	--	--
UNITS	ppb	ppb	ppb	ppb
SCHEME	AAS10	AAS10	AAS10	AAS10

455049

APPENDIX IV

FOLLOW-UP ROCK CHIP SAMPLING ANALYSES

ANALABS

A division of MacDonald Hamilton & Co. Pty. Ltd.
Phone (09) 458 7999 — 52 Murray Road, Welshpool, W.A. 6106 — Telex AA92560
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ANALYTICAL REPORT No. 799.52.08.0635

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

O/N 151

ORDER No.	PROJECT
89001	

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

DATE RECEIVED	RESULTS REQUIRED
22/08/89	ASAP

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No. OF SAMPLES
4	29/08/89	1	25

STATE OF SAMPLES		PRE-TREATMENT							ANALYSIS			
REFER BELOW	SAMPLE NUMBERS	DRY	CRUSH	SPLIT	PULVERISE	SIEVE	OTHER SEE REMARKS	NONE		REFER TO ANALYSIS SECTION	PREPARATION	METHC
	702488/500,704551/562	Ro	Prep: 005,009,017						Cu,Pb,Zn,Ag/101,As/114			
	702488/500,704551/562	Pu							Au,AuChk/309			
	702488/500,704551/562	Ro	Prep: 005,009,017						Cu,Pb,Zn,Ag/104			

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	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

455051

ANALABS

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

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	999.52.08.06435	29/08/89	39001	1 OF 4

TUBE No.	SAMPLE No.	Cu	Cu	Pb	Pb	Zn	Zn	Ag	Ag	As
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15	704552	30	-	30	-	160	-	<0.5	-	1
16	704553	15	-	35	-	420	-	<0.5	-	1
17	704554	55	-	30	-	115	-	<0.5	-	3
18	704555	55	-	10	-	75	-	<0.5	-	1
19	704556	10	-	5	-	45	-	<0.5	-	4
20	704557	15	-	5	-	15	-	<0.5	-	1
21	704558	15	-	30	-	30	-	<0.5	-	5
22	704559	20	-	5	-	20	-	<0.5	-	7
23	704560	30	-	15	-	65	-	<0.5	-	7
24	704561	30	-	15	-	90	-	<0.5	-	2
25	704562	20	-	15	-	35	-	<0.5	-	8

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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455052

ANALABS

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

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	999.52.08.06432	29/08/89	39901	2 OF 4

TUBE No.	SAMPLE No.	Cu	Cu	Pb	Pb	Zn	Zn	Ag	Ag	As
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22	DETECTION	5	25	5	25	5	0.01	0.5	2	1
23	UNITS	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM
24	METHOD	101	104	101	104	101	104	101	104	114
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

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052

455053

ANALABS

A Division of Mackenzie Hamilton & Co. Pty Ltd.

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	[illegible]	[illegible]	[illegible]	1 OF

TUBE No.	SAMPLE No.	Au	AuCHK							
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15	704552	[illegible]	–							
16	704553	[illegible]	<0.003							
17	704554	<0.002	–							
18	704555	[illegible]	–							
19	704556	[illegible]	–							
20	704557	[illegible]	–							
21	704558	[illegible]	[illegible]							
22	704559	[illegible]	–							
23	704560	[illegible]	–							
24	704561	[illegible]	–							
25	704562	[illegible]	–							

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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053

455054

ANALABS

A Division of Macdonald Hamilton & Co. Pty Ltd.

ANALYTICAL DATA

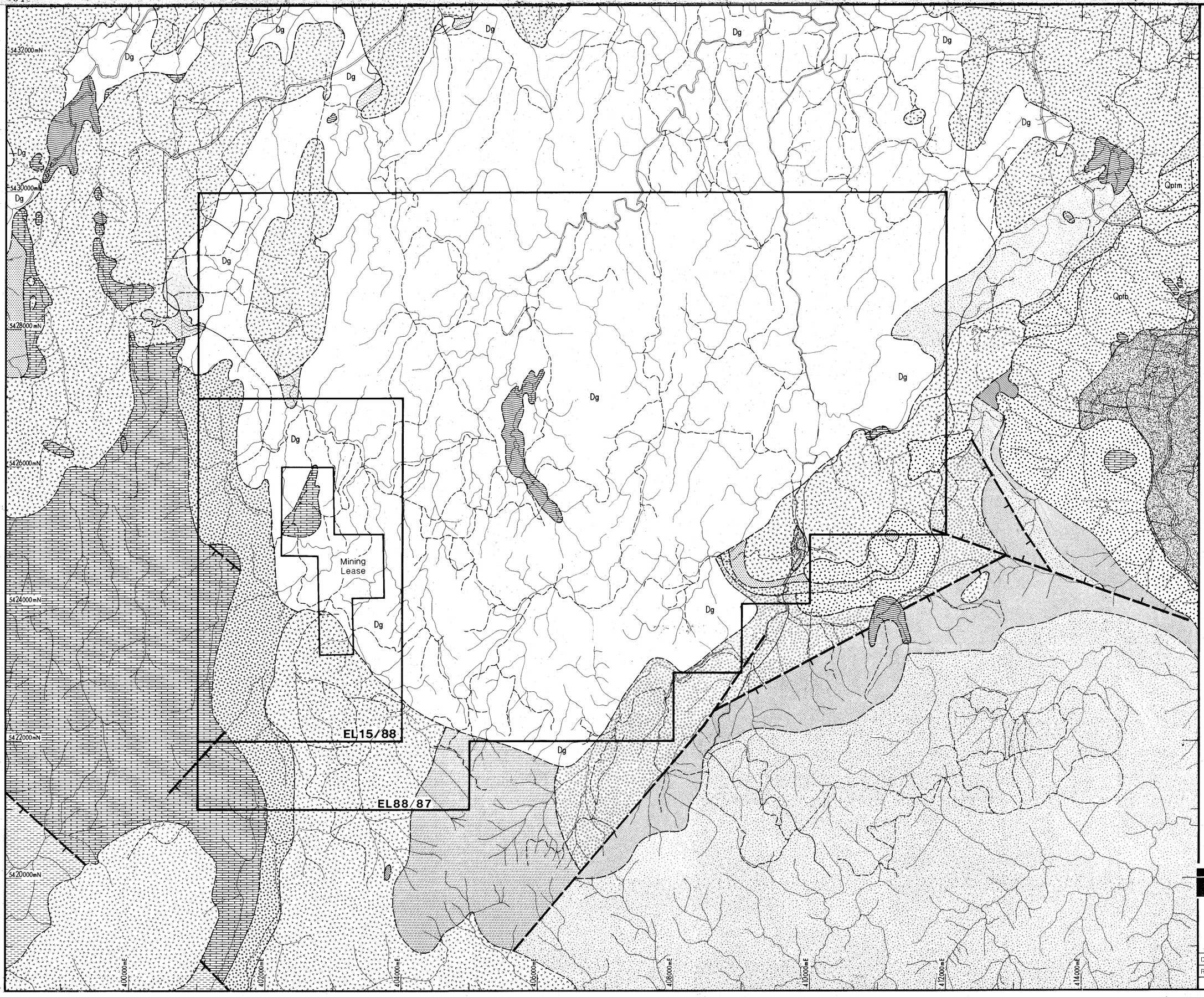
SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	[illegible]	[illegible]	[illegible]	1 OF [illegible]

TUBE No.	SAMPLE No.	Au	Ag(Oz)							
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22	DETECTION	0.005	0.003							
23	UNITS	PPM	PPM							
24	METHOD	309	309							
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

0640



TOPOGRAPHY

- Major road
- Road
- Road / track (restricted use or access)
- Creek / stream

(maintained for continuous public use)

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
- Qpw — Older till

TERTIARY

- Tb — Basalt
- Ts — Sand and gravel deposits
- Tsf — Ferrugineous 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 (Moina Sandstone)
- Odc — Dominantly siliceous conglomerate
- Ods — Dominantly quartz sandstone & minor conglomerate
- Odu — Undifferentiated

CAMBRIAN

- €ms — Dominantly sedimentary rocks (felsic to intermediate volcanic)
- €m — Mixed sequence of dominantly extrusive felsic to intermediate volcanic & sedimentary rocks

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

5 cm

AMG NORTH

455055

0 1 2 kms

SCALE 1:25,000

90-3164.

PLACER MT HOUSETOP - HAMPSHIRE TASMANIA

EL88/87 - EL15/88

Geological Interpretation

Date: February, 1989	Geologist: P.Ellis
Revisions:	Drawn: K.Ryder
	Plan No. SK55.3 - 3218

9642

5432000mN

5430000mN

5428000mN

5426000mN

5424000mN

5422000mN

5420000mN

400000mE

402000mE

404000mE

406000mE

408000mE

410000mE

412000mE

414000mE

EL15/88

EL88/87

Mining Lease

TOPOGRAPHY

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

UNLESS NOTED OTHERWISE ON MAP, SAMPLE NOs HAVE THE FOLLOWING PREFIXES,

651 - 797 . A321

575 - 588 A272

ALL OTHERS 700

455056

5 cm

AMG NORTH

0 1 2 kms

SCALE 1 25,000

90-3164.

PLACER MT HOUSETOP - HAMPSHIRE TASMANIA

EL88/87 - EL15/88

MT HOUSETOP / HAMPSHIRE

SAMPLE LOCATIONS

Date 26/7/90	Geologist P D E
Revisions	Drawn R K
Scale 1 25 000	Plan No SK55 3 - 3248

9641

405000E 406000E 407000E 408000E 409000E 410000E 411000E 412000E

5429000N
5428000N
5427000N
5426000N
5425000N
5424000N
5423000N
5422000N
5421000N
5420000N

NATONE
LOYATEA
HAMPSHIRE
LAUREL CREEK
GUNNS PLAIN
E L 88/87

ROADS / TRACKS
RIVERS
LICENCE BOUNDARY

455057

5 cm

90-3164.

0 0·5 1·0km

AMG NORTH

PLACER MT HOUSETOP – HAMPSHIRE TASMANIA

E.L 88/87
MT. HOUSETOP / LAUREL CREEK

SAMPLE LOCATIONS

Date: 26/7/90	Geologist: P.D.E
Revisions:	Drawn: R.K
Scale: 1:10000	Plan No. SK55.3 / 259-1