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SK55-3

PROJECT 504

PLACER EXPLORATION LTD

RELINQUISHMENT REPORT  
FOR 12 MONTHS TO JUNE 1990

EL 18/89, FROG HILL  
TASMANIA

RPT NO. TAS 5/90

**OPEN FILE**

**MICROFILMED**

90-3146

<b>MINES</b>	
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KEYWORDS

TASMANIA	EXPLORATION
EL 18/89	GOLD
SK55-03	SILVER
FROG HILL	LEAD
BLUE PEAK	ZINC
GEOLOGY	COPPER
MINE	PRECAMBRIAN
7915 - Arthur River	FOLLY HILL

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1. SUMMARY

EL18/89 over the Frog Hill/Folly Hill area was obtained to explore for Carlin style Au mineralisation.

Regional drainage sampling using bulk cyanide leach (Au, Ag, Cu) and -20# stream sediment (Cu, Pb, Zn, Au, Ag,  $\pm$ Sn, As) showed a weak (3.8ppb) cyanide leach anomaly in Twisting Creek. Conventional drainage samples failed to confirm this anomaly.

Soil sampling (auger) across the valley containing the old Au(?) workings and Mine Lease (43M/83) showed no significant anomalous values with highest values being only 115ppm Cu, 26ppm Pb, 150ppm Zn, 20ppb Au, 1ppm Ag and 2ppm As in one sample. The peak Au value was 50ppb in one soil sample. Adjacent soil samples showed no significant Au.

It is doubtful if the area contains any significant Au and thus the area should be relinquished.

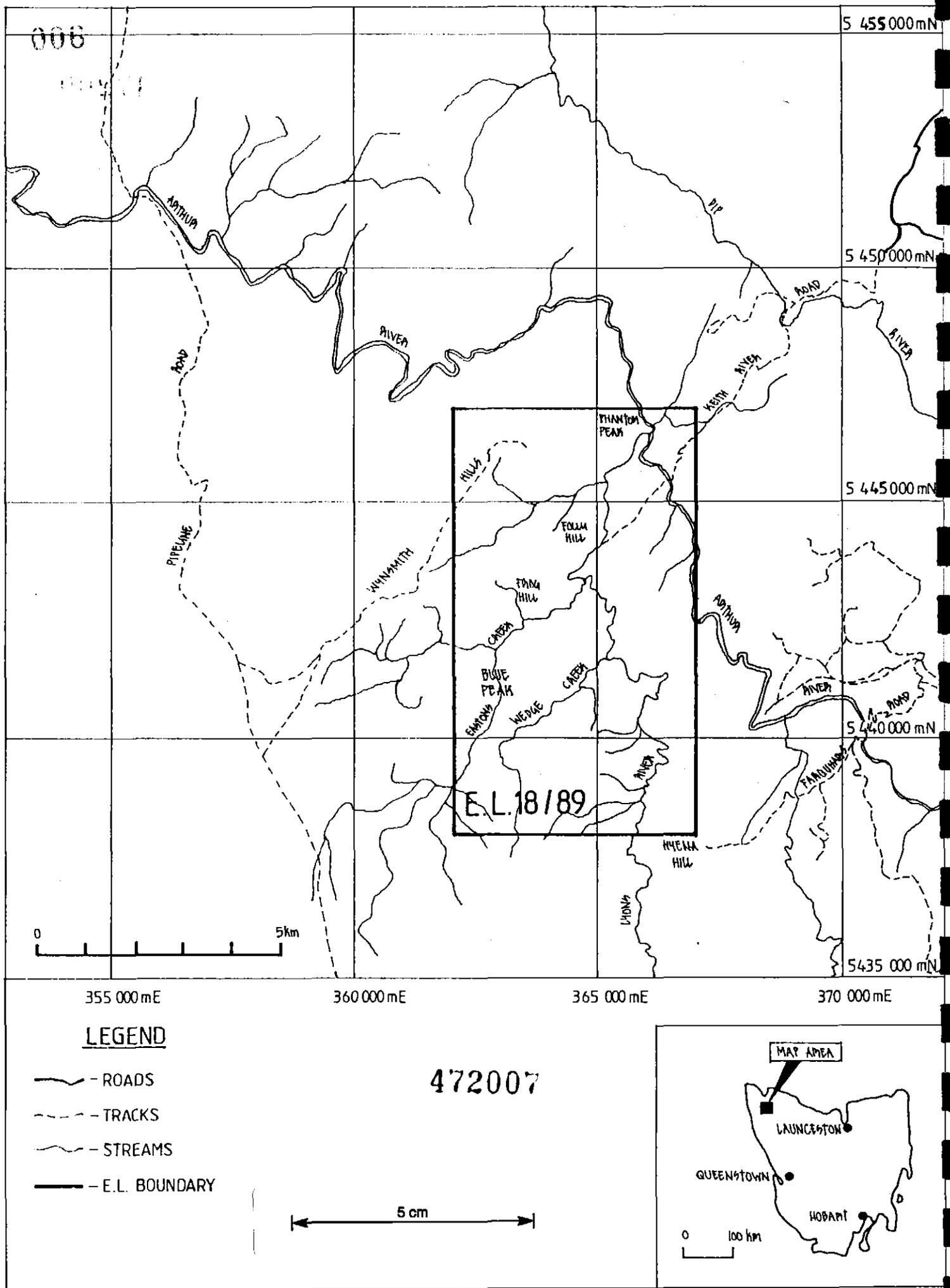


FIG. 1 LOCATION MAP, E.L. 18/89 FROG HILL, TASMANIA.

472008

## 2. INTRODUCTION

EL 18/89, Frog Hill is located 40km west south west of Burnie, a major industrial town and port on the northwest coast of Tasmania (Figure 1). The Licence is centred on Joke Hill, extending southwards from Phantom Peak to Hyena Hill and west from the Arthur River to Blue Peak.

The Licence was obtained by Placer Exploration Limited as a result of an application made in February 1989 over open ground. This was to explore an area of Precambrian phyllites and quartzites, surrounding an old Mining Lease (43M/83), for Carlin style fine gold mineralisation. The Mining Lease was obtained by Placer Exploration from CSR Limited in 1988 when Placer purchased CSR's Mineral Division. CSR Building Materials Division had apparently obtained the Lease in a series of take-overs of small timber companies (including Loongana Pty Ltd the owner of Blue Peak Gold Mining N.L.) but did not realise it held the lease. Consequently the Lease was not worked by CSR as it was an unlisted "asset".

EL18/89 was granted to Placer Exploration Limited on the 9th June over an area of 459 sq. km. This area had an exploration commitment of about \$50,000 for the first 3 years (including the area of 43M/83 which was relinquished and included in EL18/89 when it was transferred from CSR).

Little work on the old lease was recorded. However, the surrounding area was held by Geopeko and CRAE who explored it for W, Cu, Pb, Zn Au, Pt and magnesite. Access across the Arthur River has always been difficult and has restricted development and exploration. The steep terrain and thick (selectively logged) rainforest cover has further hindered exploration.

This report summarises and records the investigations completed by Placer Exploration in the year (June 1989-June 1990) between obtaining and relinquishing the EL18/89 area.

### 3. LOCATION AND GENERAL

EL 18/89 is centred on the Lyons River in northwest Tasmania, about 30 kms south of the northwest coast iron ore port of Port Latta. The 5km (E-W) by 9km (N-S) Licence is between the Arthur River (to the east) and the Savage River - Port Latta iron ore pipeline.

Access to the Licence area is reasonable via the old forestry logging track of Keith River Road to the eastern edge and via the iron ore pipeline track and Wynsmith Hills forestry track to the northwestern corner. Other low grade, overgrown logging tracks (with many washouts) provide walking, and possibly motor cycle, access to within several kilometres of most parts of the E.L.

The northwestern half of the Licence is underlain by a sequence of slates, shales and phyllites interspersed with quartzite units known collectively as the Neasey Formation (part of the Precambrian Rocky Cape Group). The southeastern half is underlain by Precambrian metamorphosed schists, phyllites and quartzites of the Keith Beds (Whyte Schists) in the Arthur Lineament metamorphic belt. Minor parts of the Licence are underlain by a Tertiary Basalt cap and in the far southeast minor Permian shales. All of these rocks support a thick rainforest which has generally been selectively logged early this century. Remnants of an old sawmill exist at the Lyons River crossing. Thick regrowth occurs around the Frog Hill/Folly Hill gold mine area. Swampy areas on several drainages (eg. Wedge Creek) support ti-tree and sword grass dominated vegetation. Some gullies and slopes are covered by horizontal scrub.

The Licence area is drained by tributaries of the Arthur River. The main tributary is the Lyons River and its tributaries which drain all but the eastern edge of the E.L. This eastern edge is drained by small creeks flowing directly into the Arthur River. Most of the streams are deeply incised into the underlying sedimentary rocks. Elevations range from

about 120m along the Arthur River to 540m on the peaks and ridges. Rapid changes in elevations occur around creeks where elevation changes of 200m may occur over horizontal distances of less than 500m.

#### 4. TITLE

Exploration Licence 18/89 (Frog Hill) resulted from an application for an open area surrounding Mining Lease 43M/83. Placer obtained 43M/83 from CSR Ltd (transferred on the 22nd March 1989) through the purchase of CSR's Mineral Division in 1988. CSR unknowingly obtained the apparently alluvial mining Lease by its take-over of Timber Holdings which had taken-over Alstergren Pty Ltd which in turn had taken-over Loongana Pty Ltd/Blue Peak Gold Mining NL the Lease holder.

The application for EL18/89, lodged on the 10th February 1989, covered a 45 sq. km area of Precambrian rocks around the Lease and included all sites of previously observed Au anomalies. The area was thought to be prospective for Carlin style Au mineralisation in carbonate rich phyllites of the Neasey Formation.

On the 9th June 1989, EL18/89 was granted to Placer Exploration Limited over the full 45 sq. km area. Mining Lease 43M/83 was then relinquished and reverted into EL18/89. The area of the Licence is mainly in state forest although the southwestern corner is now covered by a proposed National Estate area (of previously selectively logged forest).

EL 18/89 is subject to yearly renewals, however, because of poor results the Licence will not be renewed after its first twelve month period.

5. PREVIOUS EXPLORATION

After the discovery of tin at Mt Bischoff in 1871 most of the northwest of Tasmania was intensely prospected. This led to the discovery of several mineralised areas such as Magnet, Specimen Reef, Godkin and Confidence. In the Lyons River area the copper rich Victory mineralisation was discovered and worked. Several gold shows occur along the Arthur Lineament zone.

Because of the isolated nature of the area and the steep, heavily vegetated terrain only limited exploration or prospecting occurred in the Frog Hill area between the initial 1880's prospecting and the 1950's. In 1956 Rio Tinto explored most of northwest Tasmania under SPL304. Most of this involved airphoto interpretation with limited field visits. No anomalous areas were identified in the Lyons River area.

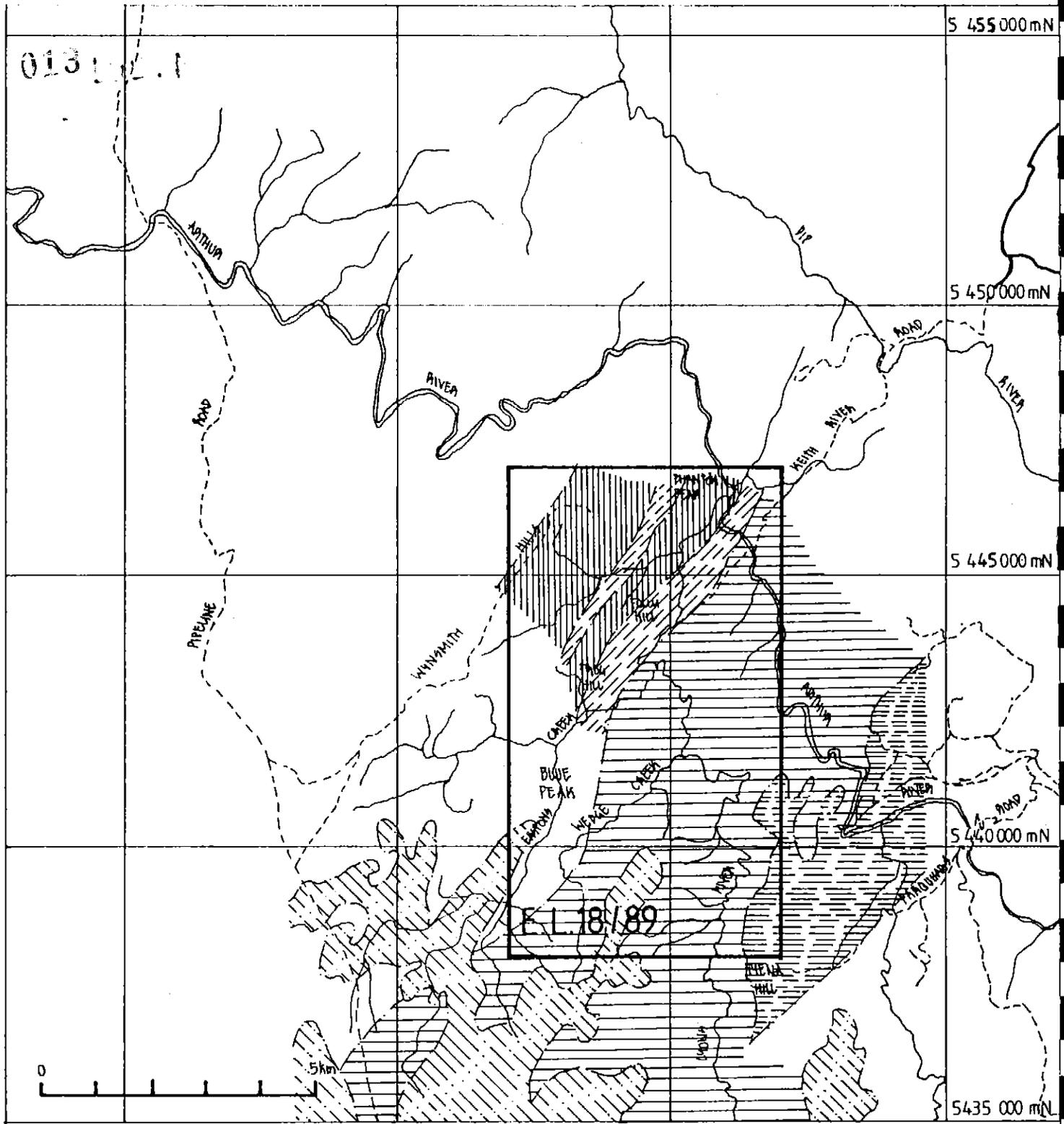
In 1966, Pickands Mather traversed the area with wide spaced stream sediment samples analysed for Cu, Pb, Zn and Sn. Again results were disappointing and the area was relinquished.

Esso Australia completed a brief evaluation of the area north of the Pieman River in 1973. Esso covered the EL2/73 with an airborne INPUT EM survey. This survey outlined 63 anomalies of which 36 were not explained (Neale, 1973). None of the anomalies were in the EL18/89 area.

In 1979 Peko pegged the EL1/79 area over a large portion of the Arthur Lineament and the surrounding rocks. Their main target was a Mittershill style strataform tungsten deposit. The EL1/79 area was mapped and drainage sampled (analysed for Sn, W and basemetals) with no significant anomalies. Despite being excluded from EL1/79, the area of 43M/93 (formerly 14M/76) was incorporated in Peko's exploration with a programme of mapping and sampling (Large and Poltock, 1981). Siliceous carbonates were located along strike from the Folly Hill gold

workings. The old workings were sampled but no Au was located in the gravels, despite drainage samples showing anomalous Au values.

The EL1/79 area was joint ventured to CRAE in 1982. Their target was Faro type shale hosted Pb-Zn mineralisation, Au/Pt mineralisation along a basement high in the Arthur Lineament and magnesite in the metamorphosed zone. The area was traversed by an airborne magnetic-radiometric survey which contained 20 anomalies. Five magnetic anomalies were coincident with INPUT anomalies. Again no anomalies were within the EL18/89 area. In 1985-87 further work was completed in the area of the old gold workings around Frog Hill. This showed the Au workings extended from the vicinity of the Chuckling Creek Road, in the saddle to the west of Frog Hill/Folly Hill, for a distance of about 500m (but not to the south of the road). A line of Jacro auger sampling along the road showed no anomalous values but defined a zone of carbonate rich phyllites between two quartzite ridges. This may be the host horizon for the Au. Another Au anomaly (cyanide leach sample) was located in a tributary of the Arthur River 2-3 km southeast of Folly Hill (the Arthur River Anomaly of CRAE). Neither anomaly was explained before the area was relinquished and Placer obtained the ground as EL18/89.



355 000 mE

360 000 mE

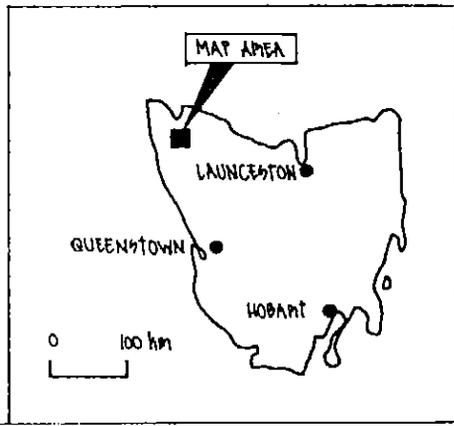
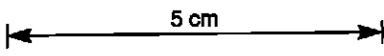
365 000 mE

370 000 mE

**LEGEND**

- ROADS
- TRACKS
- STREAMS
- E.L. BOUNDARY

- PRECAMBRIAN ROCKY CAPE GROUP (NEASEY FORM) SLATES, SHALES, PHYLLITES.
- PRECAMBRIAN ROCKY CAPE GROUP (NEASEY FORM.) QUARTZITES.
- PRECAMBRIAN ARTHUR LINEAMENT (KEITH BEDS, WHYTE SCHISTS.)
- PERMIAN SHALES
- TERTIARY BASALTS



472014

FIG. 2 GEOLOGY SUMMARY, E.L. 18/89 FROG HILL, TASMANIA.

6. GEOLOGY

Because of the limited access, high rainfall, thick vegetation and thick soil and weathering profile the geology of the EL18/89 area is poorly understood. (Figure 2).

The oldest rocks in the Licence area are rocks of the Precambrian Rocky Cape Group known locally as the Neasy Formation. These relatively unmetamorphosed rocks cover the northwestern half of the Licence and are composed of quartzite horizons in a sequence of dominantly siltstones, shales, slates and phyllites (Sheet SK5503/504-6). These rocks tend to strike northwest and dip to the southeast (in which direction they are thought to be younging). The schistosity (lineation) tends to be parallel to the compositional layering and reflects the primary lithology.

Southeastwards the Neasy Formation has a transitional contact (increase in metamorphic grade) with the rocks of the Arthur Lineament. This belt of middle greenschist facies metamorphics consists of quartz-mica schists phyllites and some quartzites. Further south (it extends from the Granville Harbour area in the south to Wynyard in the north) there are amphibolites and the Savage River iron formations in the Lineaments, as well as some carbonates (magnesite). In the Licence area the original rocks, now metamorphosed in the Lineament, were thought to be shales and phyllites of the Precambrian Keith Beds.

East of the Lineament, but not occurring in EL18/89 are mudstones and quartzwackes of the younger Precambrian Burnie Formation (Oonah Formation correlates?).

In the southwest corner of the Licence Permian shales and mudstones occur unconformably on the Precambrian rocks.

South of Blue Peak and south of Wedge Creek tongues of Tertiary Basalt occur. These are part of the flood basalts covering much of northwest Tasmania and often have associated sub basaltic gravels.

## 7. CURRENT EXPLORATION

### 7.1 Techniques

EL18/89 was acquired to explore an area surrounding an old CSR held (unknowingly) gold mine lease which was transferred to Placer on the purchase of CSR's Mineral Division. The Precambrian shales and phyllites (calcaceous) in the area were known to contain gold and were possibly suitable for hosting Carlin style Au mineralisation.

A review of previous exploration data showed that because of the inaccessible nature of the area little exploration had been completed in the Licence area. Minor Au exploration was completed around Frog Hill/Folly Hill by Peko/CRAE.

Initially Placer undertook broadly spaced drainage sampling. This sampling involved the taking of two samples from most of the major drainages throughout the area. These samples were:

- a 5kg sample of -6mm active stream sediment for bulk cyanide leaching of extractable gold with additional silver and copper analyses.
- a 1kg conventional stream sediment sample for analysis of the -20# fraction for Cu, Pb, Zn, Ag, Au, Sn (for reference and comparison of the bulk sample results).

Because of the inaccessible nature of the area the density of the sampling was increased in the initial sampling in an attempt to better define any resultant anomalies.

Further conventional stream sediment sampling of anomalous drainages was completed in association with geological mapping and rock chip sampling.

The area around the old gold mine was geologically mapped and rock chip sampled. Two lines of deep auger soil samples were taken across the valley containing the old workings.

## 7.2 Results

The review of previous exploration data showed the only ground exploration of the EL18/89 area was by Geopeko/CRAE as part of their exploration of EL1/79 (1979-1987). Two areas of anomalous Au had been identified (Frog Hill/Folly Hill and the Arthur Anomaly). No further work had been completed on the Arthur Anomaly. The Frog Hill/Folly Hill area was traversed along the road by a line of Jacro auger soil samples, despite earlier reports that the line of old working occurred only to the north of the road. The workings did not extend to the road or south of the road. Geological work associated with the soil sampling identified a calcaceous phyllite which was thought to be a probable host for the Au worked from the old trenches (earlier work on the overlying quartz gravels failed to locate any gold). No work was completed in an attempt to prove the gold occurred in the calcaceous phyllite in the area of the old workings.

The initial Placer drainage sampling programme (Sheet SK5503/504-1 for Location) showed two anomalous drainages (Appendices I and II, Sheets SK5503/504-2,-3,-4,-5). These were:

- a bulk sample with 3.8ppb Au in Twisting Creek (east of Wedge Creek) - no Au analysis for the -20# sample.
  
- a bulk sample with 0.8ppb Au in a tributary of the Arthur River (west bank) on the Keith River Road - the -20# sample had 12ppb Au, 66ppm Sn, and elevated Cu (22ppm), Pb (46ppm) and Zn (72ppm) relative to other adjacent samples (5, 10, 15 respectively).

No samples were initially taken from the drainage containing the old workings at Frog Hill/Folly Hill. No anomaly was observed in the area of the CRAE Arthur Anomaly which may have been a result of flood contamination from the Arthur River.

A visit to the Arthur Anomaly and the adjacent 0.8ppb bulk sample Au anomaly suggested sample site location would be critical to obtain a sample not contaminated by flooding of the Arthur River. The high Sn and elevated basemetal values of the -20# sample confirm the contamination from the Arthur River (Mt. Bischoff Sn mine and Magnet Ag-Pb-Zn Mine upstream).

Follow-up sampling (Appendix III) of Twisting Creek and the adjacent (unsampled) Wedge Creek resulted in a further 19 samples being taken (3 -20# drainage samples from Wedge Creek and 11 -20# drainage and 5 rock samples from Twisting Creek). The drainage samples from Wedge Creek and Twisting Creek showed no anomalous values with one sample showing a peak Au value of 20 ppb (most below detection). No anomalous Ag, Cu, Pb or Zn values were noted in these creeks. Rock chip samples from Twisting Creek (704902, 704908, 704909, 704913, 704914) showed no anomalous values.

In the area of the old Au workings (to the west of Frog Hill/Folly Hill) 26 soil samples (along two ridge to ridge traverses across the alluvials), 3 rock chip samples and 6 -20# stream sediment samples were taken. One rock chip sample from the creek bed (704877) showed weak Cu (115ppm), Pb (26ppm) and Zn (150ppm) but no significant Au (20ppb), Ag (1ppm) or As (2ppm). Drainage samples showed no anomalous values from the creek draining the old workings. Similarly the lines of soil sample traverses (auger) were very disappointing for an area supposedly worked for Au. The highest Au value was an isolated 50ppb to the east of the creek. This sample had no other anomalous geochemistry. On the northern traverse one sample near the creek contained 60ppm Cu, 42ppm Pb and 60ppm Zn but only 1ppm Ag and 10ppb Au. No other samples showed even weakly anomalous geochemistry.

### 7.3 Proposed Exploration

The results of the regional geochemistry sampling and associated geological mapping suggested the Twisting Creek/Wedge Creek area may contain anomalous Au and worthy of follow-up during the evaluation of the area of the old Au workings. The original Au anomaly could not be confirmed in Twisting Creek. Evaluation of the old workings area by deep auger soil traverses and drainage sampling failed to find any anomalous Au values. It is doubtful if any significant amount of Au was won from this area as there is only a total of five small diggings recorded, and no Au values in any of the samples were noted.

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

REFERENCES

- Clementson, I.M. 1983 Progress Report on Exploration  
August, 1983 - February, 1984.  
CRAE Report No. 12532 TCR 84-2103
- Clementson, I.M. 1985 Report on the Reduction of Licence  
Area. CRAE Report No. 13107. TCR 85-2340
- Clementson, I.M. 1985 Progress Report on Exploration.  
February, 1984 - February, 1985.  
CRAE Report No. 13136. TCR 85-2341
- Clementson, I.M. 1986 Progress Report on Exploration.  
February, 1985 - February, 1986.  
CRAE Report No. 13754. TCR 86-2533
- Flis, M.F. 1982 Preliminary Report on an Airborne  
Geophysical Survey, Rapid River  
EL1/79 N.W. Tasmania.  
CRAE Report No. 11637. TCR 82-7816
- Flis, M.F. 1983 First Progress Report on Follow-Up  
of Aeromagnetic Anomalies. August,  
1982 to August, 1983.  
CRAE Report No. 12276. TCR 83-2030
- Funnell, F.R. 1987 Progress Report on Exploration.  
February, 1986 - February 1987.  
CRAE Report No. 14379. TCR 87-2643
- Funnell, F.R. 1988 Rapid River EL1/79. N.W. Tas.  
Final Report on Exploration  
CRAE Report No. 14753. TCR ?
- Large R.R. & Poltock R. 1981 Progress Report EL 1/79, 1980  
Season, 34d September, 1981. ?

APPENDIX I

REGIONAL DRAINAGE GEOCHEMISTRY

BULK CYANIDE LEACH SAMPLE ANALYSES

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022 305 South Road, Mile End South, South Australia, 5031  
Telephone: (08) 43 5722 Fax: (08) 234 0321 Telex: LABCOM AA89323

472023

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. - Insufficient Sample for  
Analysis.

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



023

Job: 9AD1048  
O/N: 1461

ANALYTICAL REPORT

SAMPLE                      Cu                      Ag                      Au

472024

*FRAG 463?* 702403 →                      0.8                      <0.02                      0.05

UNITS                      ppm                      ppm                      ppb  
SCHEME                      BLEG1                      BLEG1                      BLEG2



Job: 9AD1048  
O/N: 1461

0 024

ANALYTICAL REPORT

472025

SAMPLE	Cu	Ag	Au
702453	<0.1	<0.02	<0.05
702455	0.1	<0.02	<0.05
702457	<0.1	<0.02	<0.05
<i>Frog</i> 702459	0.3	<0.02	<0.05
702461	<0.1	<0.02	<0.05
702463	<0.1	<0.02	0.10
702465	0.1	<0.02	<0.05
700356	0.2	<0.02	<0.05
700358	0.2	<0.02	<0.05
700360	0.2	<0.02	<0.05
700362	1.4	<0.02	0.05
700364	0.4	<0.02	0.05
<i>Frog</i> 700366	0.1	<0.02	<0.05
700368	0.1	<0.02	0.10
700370	<0.1	<0.02	0.25
700372	<0.1	<0.02	<0.05
700374	<0.1	<0.02	0.05
700376	<0.1	<0.02	<0.05
700378	0.3	<0.02	<0.05
700380	0.1	<0.02	<0.05
700382	0.2	<0.02	0.45
700385	<0.1	<0.02	0.15
700387	0.3	<0.02	<0.05
700389	0.6	<0.02	0.20
700391	0.4	<0.02	0.15
UNITS	ppm	ppm	ppb
SCHEME	BLEG1	BLEG1	BLEG2



Job: 9AD1048

O/N: 1461

025

ANALYTICAL REPORT

472026

*Frog*

SAMPLE	Cu	Ag	Au
700393	0.3	<0.02	0.20
700395	0.1	<0.02	0.05
700399	0.5	<0.02	<0.05
700401	0.3	<0.02	0.20
700403	2.6	0.02	0.40
700405	1.1	<0.02	0.20
700407	0.3	<0.02	0.05
700409	0.2	<0.02	0.25
700411	0.1	<0.02	<0.05
700413	<0.1	<0.02	0.15
700415	<0.1	<0.02	<0.05
700417	<0.1	<0.02	<0.05
700419	<0.1	<0.02	<0.05
700422	<0.1	<0.02	<0.05
700424	0.4	<0.02	<0.05
700426	<0.1	<0.02	<0.05
700429	0.1	<0.02	<0.05
700431	<0.1	<0.02	<0.05
700433	0.1	<0.02	<0.05
700436	0.7	<0.02	<0.05
700437	<0.1	<0.02	<0.05
700439	0.7	<0.02	0.05
700441	2.5	0.04	0.80
700443	0.2	<0.02	<0.05

UNITS	ppm	ppm	ppb
SCHEME	BLEG1	BLEG1	BLEG2



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472027

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

Job Number: 9AD1500

Your Reference: 1180  
Number of Samples: 105  
Extra Samples : 0

Date Received: 22-AUG-1989  
Date Reported: 19-SEP-1989

This report comprises a cover sheet and pages 1 to 3

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.

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

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



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Job: 9AD1500

O/N: 1180

## ANALYTICAL REPORT

Sample	Cu	Ag	Au
--------	----	----	----

472028

700967	<0.1	<0.02	<0.05
700969	0.1	<0.02	0.05
700971	0.4	<0.02	3.8
700973	0.3	<0.02	0.15
700975	0.1	<0.02	0.05
700977	<0.1	<0.02	0.05
700979	0.1	<0.02	0.15
700981	0.2	<0.02	0.15

*Frog*

Units	ppm	ppm	ppb
Detn Limit	0.1	0.02	0.05
Scheme	BLEG1	BLEG1	BLEG2



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Job: 9AD1500

O/N: 1180

## ANALYTICAL REPORT

028

Sample	Cu	Ag	Au
700983	0.1	<0.02	<0.05
700986	0.1	<0.02	0.10
700988	0.1	<0.02	<0.05

*Fung*

472029

Units	ppm	ppm	ppb
Detn Limit	0.1	0.02	0.05
Scheme	BLEG1	BLEG1	BLEG2

APPENDIX II  
REGIONAL DRAINAGE GEOCHEMISTRY  
STREAM SEDIMENT SAMPLE ANALYSES



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030

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

472031

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. - Insufficient Sample for  
Analysis.

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



ANALYTICAL REPORT

00 031

SAMPLE                      Cu            Pb            Zn            Ag            As            Sb            Au

702454 - 80#	30	54	145	1.3	78	14	6	6	8
702456 - 80#	5	8	14	0.2	6	4	2		
702458 - 80#	6	8	46	0.2	13	4	2		
<i>Frog</i> 702460 - 80#	5	6	9	0.4	5	6	2		
702462 - 80#	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.			
702464 - 80#	17	28	40	0.5	30	6	2		
702466 - 80#	7	6	4	<0.1	4	10	2		
700357 - 80#	5	16	46	<0.1	12	<4	2		
700359 - 80#	22	16	78	0.7	12	16	2		
UNITS	ppm	ppm	ppm	ppm	ppm	ppm			
SCHEME	AAS1	AAS1	AAS1	AAS2A	XRF1	XRF1			

472033



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Job: 9AD1049

O/N: 1462

00 032

ANALYTICAL REPORT

SAMPLE	Cu	Pb	Zn	Ag	As	Sb	Au
700361 - 80#	4	4	7	<0.1	3	8	2
700363 - 80#	8	6	11	0.1	4	4	4
700365 - 80#	7	10	34	0.2	7	6	2
700367 - 80#	5	4	14	<0.1	10	6	4
700369 - 80#	7	4	9	<0.1	4	12	2
700371 - 80#	5	6	7	<0.1	6	6	2
700373 - 80#	6	14	8	<0.1	7	4	2
700375 - 80#	4	4	6	<0.1	6	8	2
700377 - 80#	5	<4	4	<0.1	6	<4	2 4 2
700379 - 80#	5	6	16	0.4	7	6	4
700381 - 80#	9	6	17	0.4	8	8	6
700383 - 80#	2	<4	8	<0.1	6	4	2
6x121 700384 - 80#	8	20	13	0.4	13	<4	2
700386 - 80#	<2	<4	3	<0.1	5	10	2
700388 - 80#	6	6	26	<0.1	9	8	2
700390 - 80#	11	6	24	<0.1	7	8	2
700392 - 80#	8	6	34	0.1	5	12	2
700394 - 80#	5	6	22	<0.1	4	8	2
700396 - 80#	<2	4	7	<0.1	3	8	2
700400 - 80#	6	10	28	<0.1	4	8	2
700402 - 80#	16	12	34	<0.1	3	8	2
700404 - 80#	22	16	28	0.4	6	6	2
700406 - 80#	22	6	11	<0.1	5	4	2
700408 - 80#	9	16	32	0.1	13	6	2
700410 - 80#	3	8	24	<0.1	9	14	2
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	
SCHEME	AAS1	AAS1	AAS1	AAS2A	XRF1	XRF1	



00 033

ANALYTICAL REPORT

SAMPLE	Cu	Pb	Zn	Ag	As	Sb	Au			
700412 - 80#	<2	<4	6	<0.1	4	4	λ			
700414 - 80#	5	8	15	<0.1	9	6	8			
700416 - 80#	<2	4	3	<0.1	4	6	λ			
700418 - 80#	<2	<4	<2	<0.1	3	6	λ			
700420 - 80#	3	18	28	0.9	78	6	16	12	22	
700421 - 80#	<2	4	2	<0.1	4	6	2			
700423 - 80#	11	16	16	<0.1	8	8	4			
700425 - 80#	22	12	15	0.3	10	6	4			
700427 - 80#	9	24	15	<0.1	7	10	6	12	λ	
700430 - 80#	4	22	28	<0.1	11	6	6			
700432 - 80#	3	6	8	<0.1	7	12	4			
<i>Free</i> 700434 - 80#	4	26	11	<0.1	8	8	4			
700435 - 80#	6	20	15	<0.1	6	14	4			
700438 - 80#	6	4	13	<0.1	6	8	λ			
700440 - 80#	9	16	34	<0.1	14	4	λ			
700442 - 80#	22	46	72	0.4	66	12	4			
700444 - 80#	3	8	15	<0.1	4	<4	λ			

UNITS  
SCHEME  
UPPER SCHEME

ppm      ppm      ppm      ppm  
AAS1    AAS1    AAS1    AAS2A  
AAS4    AAS1C   AAS2C

ppm      ppm  
XRF1    XRF1



034

ANALYTICAL REPORT

SAMPLE	Cu	Pb	Zn	Ag	As	Sb	Au		
702404 - 80#	11	12	40	0.4	5	6	λ		
702405 - 80#	8	14	42	<0.1	6	8	2	4	2
702406 - 80#	9	10	30	<0.1	3	4	λ		
702407 - 80#	13	16	54	0.2	8	14	λ		
702408 - 80#	<2	4	6	<0.1	4	<4	λ		
702409 - 80#	38	30	76	0.3	6	8	λ		
702410 - 80#	20	8	110	0.8	5	12	λ		
702461	2	6	8	<0.1	8	6	λ		
UNITS	ppm	ppm	ppm	ppm	ppm	ppm			
SCHEME	AAS1	AAS1	AAS1	AAS2A	XRF1	XRF1			



00 035

ANALYTICAL REPORT

SAMPLE Au Avg Au Dp1 Au Dp2 Au Dp3

702454 - 80#	6	6	8	--
702456 - 80#	2	--	--	--
702458 - 80#	2	--	--	--
702460 - 80#	<2	--	--	--
702462 - 80#	L.N.R.	L.N.R.	L.N.R.	L.N.R.
702464 - 80#	2	--	--	--
702466 - 80#	2	--	--	--
700357 - 80#	2	--	--	--
700359 - 80#	2	--	--	--

UNITS	ppb	ppb	ppb	ppb
SCHEME	AAS10	AAS10	AAS10	AAS10



ANALYTICAL REPORT

0 036

SAMPLE	Au Avg	Au Dp1	Au Dp2	Au Dp3
700361 - 80#	2	--	--	--
700363 - 80#	4	--	--	--
700365 - 80#	2	--	--	--
700367 - 80#	4	--	--	--
700369 - 80#	2	--	--	--
700371 - 80#	<2	--	--	--
700373 - 80#	<2	--	--	--
700375 - 80#	<2	--	--	--
700377 - 80#	2	4	<2	--
700379 - 80#	4	--	--	--
700381 - 80#	6	--	--	--
700383 - 80#	<2	--	--	--
700384 - 80#	<2	--	--	--
700386 - 80#	<2	--	--	--
700388 - 80#	<2	--	--	--
700390 - 80#	<2	--	--	--
700392 - 80#	<2	--	--	--
700394 - 80#	<2	--	--	--
700396 - 80#	<2	--	--	--
700400 - 80#	<2	--	--	--
700402 - 80#	<2	--	--	--
700404 - 80#	2	--	--	--
700406 - 80#	<2	--	--	--
700408 - 80#	<2	--	--	--
700410 - 80#	<2	--	--	--

UNITS	ppb	ppb	ppb	ppb
SCHEME	AAS10	AAS10	AAS10	AAS10



037

ANALYTICAL REPORT

SAMPLE	Au	Avg	Au	Dp1	Au	Dp2	Au	Dp3
700412 - 80#	<2			--		--		--
700414 - 80#	8			--		--		--
700416 - 80#	<2			--		--		--
700418 - 80#	<2			--		--		--
700420 - 80#	16		12		22			--
700421 - 80#	2			--		--		--
700423 - 80#	4			--		--		--
700425 - 80#	4			--		--		--
700427 - 80#	6		12		<2			--
700430 - 80#	6			--		--		--
700432 - 80#	4			--		--		--
700434 - 80#	4			--		--		--
700435 - 80#	4			--		--		--
700438 - 80#	<2			--		--		--
700440 - 80#	<2			--		--		--
700442 - 80#	4			--		--		--
700444 - 80#	<2			--		--		--

UNITS	ppb	ppb	ppb	ppb
SCHEME	AAS10	AAS10	AAS10	AAS10



038

ANALYTICAL REPORT

SAMPLE Au Avg Au Dp1 Au Dp2 Au Dp3

702312 - 80#	6	6	8	--
702404 - 80#	<2	--	--	--
702405 - 80#	2	4	2	--
702406 - 80#	<2	--	--	--
702407 - 80#	<2	--	--	--
702408 - 80#	<2	--	--	--
702409 - 80#	<2	--	--	--
702410 - 80#	<2	--	--	--
702461	<2	--	--	--
UNITS	ppb	ppb	ppb	ppb
SCHEME	AAS10	AAS10	AAS10	AAS10

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

039

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

Job Number: 9AD1499

Your Reference: 1463  
Number of Samples: 231  
Extra Samples : 0

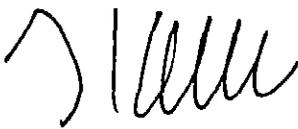
Date Received: 22-AUG-1989  
Date Reported: 27-SEP-1989

This report comprises a cover sheet and pages 1 to 10

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.

Additional material was not available to perform analysis on those samples marked as "Insufficient Sample for Analysis".

Approved Signature:

for 

Dr. John Kikkert  
General Manager - Adelaide.

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

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



Job: 9AD1499  
O/N: 1463

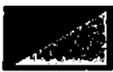
040

ANALYTICAL REPORT

Sample	Cu	Pb	Zn	Ag	As	Sb	Sn
700968 - 80#	8	6	7	0.4	3	<4	<4
700970 - 80#	10	12	34	0.3	4	<4	<4
700972 - 80#	11	10	26	0.3	3	<4	5
700974 - 80#	9	8	24	0.3	4	4	4
700976 - 80#	8	8	25	0.4	4	<4	6
700978 - 80#	5	4	10	0.4	3	<4	<4
700980 - 80#	4	<4	7	0.4	<2	<4	4
700982 - 80#	8	6	25	0.4	4	4	<4
700984 - 80#	5	5	9	0.3	<2	<4	4
700985 - 80#	48	26	26	0.5	17	<4	8 Gx7
700987 - 80#	10	10	20	0.4	4	<4	<4
700989 - 80#	8	5	22	0.3	5	<4	<4

*Find this*

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detn Limit	2	4	2	0.1	2	4	4
Scheme	AAS1	AAS1	AAS1	AAS2A	XRF1	XRF1	XRF1
Upper Scheme		AAS4		AAS2C			



ANALYTICAL REPORT

041

Sample	Au Avg	Au Dp1	Au Dp2	Au Dp3
700968 - 80#	4	--	--	--
700970 - 80#	2	--	--	--
700972 - 80#	<2	--	--	--
700974 - 80#	2	--	--	--
700976 - 80#	2	--	--	--
700978 - 80#	2	--	--	--
700980 - 80#	4	--	--	--
700982 - 80#	<2	--	--	--
700984 - 80#	6	--	--	--
700985 - 80#	4	--	--	--
700987 - 80#	<2	--	--	--
700989 - 80#	<2	--	--	--

Units	ppb	ppb	ppb	ppb
Detn Limit	2	2	2	2
Scheme	AAS9	AAS9	AAS9	AAS9

472043

00 044

APPENDIX III

FOLLOW-UP DRAINAGE, ROCK CHIP AND SOIL GEOCHEMISTRY



# CLASSIC LABORATORIES LTD

Incorporated in WA, a wholly owned subsidiary of Amdel Ltd  
Osman Place, Thebarton, South Australia 5031  
Telephone: (08) 43 5722 Facsimile: (08) 234 0321

472044



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043

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

## FINAL ANALYSIS REPORT

Your Order No: 1479

Our Job Number : 0AD1084

Samples received : 10-APR-1990

Results reported : 19-APR-1990

No. of samples : 56

Report comprises a cover sheet and pages 1 to 5

This report relates specifically to the samples tested in so far as that the samples as supplied are truly representative of the sample source.

### Note:

If you have any enquiries please contact Mr David Eardley-Harris quoting the above job number.

Approved Signatory:

Dr John Kikkert  
General Manager - Adelaide

### Report Codes:

N.A. - Not Analysed.  
L.N.R. - Listed But Not Received.  
I.S. - Insufficient Sample.

### Distribution Codes:

CC - Carbon Copy  
EM - Electronic Media  
MM - Magnetic Media

"RELIABLE ANALYSES AT COMPETITIVE COST"



ANALYTICAL REPORT

044

Sample	Au Avg	Au Dp1	Au Dp2	Au Dp3	Cu	Pb	Zn
704901	0.03	0.05	0.01	0.03	16	10	35
704902	<0.01	0.01	<0.01	--	7	<4	3
704903	0.02	0.02	--	--	14	10	22
704904	0.01	0.01	--	--	13	14	34
704905	0.03	0.03	0.03	--	13	12	32
704906	<0.01	<0.01	<0.01	--	13	8	28
704907	0.01	<0.01	0.02	--	15	14	28
704908	<0.01	<0.01	--	--	8	10	5
704909	<0.01	<0.01	--	--	4	4	56
704910	<0.01	<0.01	0.01	--	11	14	40
704911	<0.01	<0.01	--	--	11	12	32
704912	<0.01	<0.01	--	--	16	18	40
704913	0.01	0.01	--	--	17	8	35
704914	0.01	0.01	--	--	10	10	15
704915	<0.01	<0.01	--	--	6	8	28
704916	<0.01	<0.01	<0.01	--	16	15	34
704917	<0.01	<0.01	--	--	5	12	17
704918	<0.01	<0.01	--	--	12	10	78
704919	0.01	0.01	--	--	12	15	14
704920	<0.01	<0.01	--	--	19	10	17
704921	<0.01	<0.01	0.01	--	11	4	3
704922	0.02	0.02	--	--	13	8	5
704923	0.01	0.02	<0.01	--	16	<4	<2
704924	<0.01	<0.01	--	--	12	<4	3
704925	0.01	0.01	--	--	18	<4	3
704926	<0.01	<0.01	--	--	10	4	8
704927	<0.01	<0.01	--	--	8	4	2
704928	0.01	0.01	--	--	6	5	<2
704929	0.03	0.03	0.02	--	7	<4	2
704930	0.02	0.02	--	--	4	5	<2
704931	<0.01	<0.01	--	--	3	<4	<2
704932	L.N.R.	L.N.R.	--	--	L.N.R.	L.N.R.	L.N.R.
704933	<0.01	<0.01	--	--	14	12	26
704934	0.01	0.01	--	--	9	14	15
704935	<0.01	<0.01	--	--	10	10	11
704936	0.01	0.01	--	--	8	12	8
704937	0.02	0.01	0.03	--	8	<4	5
704938	<0.01	<0.01	--	--	8	10	2
704939	<0.01	<0.01	--	--	7	4	2
704940	<0.01	<0.01	--	--	66	44	60
704941	<0.01	<0.01	--	--	7	10	14
704942	<0.01	<0.01	<0.01	--	10	8	6
704943	0.01	0.01	--	--	11	10	6
704944	<0.01	<0.01	--	--	11	8	6
704945	0.01	0.01	--	--	17	18	7
Units	ppm						
Detn Limit	0.01	0.01	0.01	0.01	2	4	2
Scheme	FA1	FA1	FA1	FA1	AAS1	AAS1	AAS1

NOTE SOIL & STREAM SEDIMENT SAMPLES  
 NOT SEIVED PRIOR TO ANALYSIS.  
 See report on O/N 1480 for -2077 ANALYSES.



0 045

ANALYTICAL REPORT

Job: OAD1084  
O/N: 1479

Sample	Ag	As
704901	<1	2
704902	<1	<2
704903	<1	4
704904	1	3
704905	<1	7
704906	<1	4
704907	1	2
704908	<1	<2
704909	<1	2
704910	<1	<2
704911	1	2
704912	1	8
704913	1	4
704914	<1	3
704915	<1	<2
704916	1	7
704917	<1	<2
704918	1	3
704919	1	<2
704920	<1	3
704921	<1	<2
704922	<1	2
704923	<1	<2
704924	<1	<2
704925	<1	<2
704926	<1	<2
704927	<1	<2
704928	<1	<2
704929	<1	<2
704930	<1	<2
704931	<1	<2
704932	L.N.R.	L.N.R.
704933	<1	3
704934	<1	2
704935	<1	2
704936	<1	4
704937	<1	<2
704938	<1	<2
704939	<1	<2
704940	<1	15
704941	<1	9
704942	<1	7
704943	<1	4
704944	<1	6
704945	<1	<2

Units	ppm	ppm
Detn Limit	1	2
Scheme	AAS2	XRF1

NOTE SOIL & STREAM SEDIMENTS SAMPLES NOT SEIVED  
PRIOR TO ANALYSES  
see report on O/N 1484 for -20# analyses



00 046

ANALYTICAL REPORT

Job: OAD1084  
O/N: 1479

Sample	Au	Ag	Cu
704932	0.10	<0.02	<0.1
Units	ppb	ppm	ppm
Detn Limit	0.05	0.02	0.1
Scheme	BLEG2	BLEG1C	BLEG1C



00 04

ANALYTICAL REPORT

Job: 0AD1084

O/N: 1479

Sample	Au Avg	Au Dp1	Au Dp2	Au Dp3	Cu	Pb	Zn
704871	<0.01	<0.01	--	--	8	4	24
704872	0.01	0.01	--	--	7	<4	34
704873	<0.01	<0.01	--	--	8	8	54
704874	<0.01	<0.01	--	--	6	<4	4
704875	0.01	0.01	--	--	2	<4	<2
704876	<0.01	<0.01	--	--	<2	<4	5
704877	0.02	0.02	--	--	115	26	150
704878	<0.01	<0.01	--	--	10	<4	10
704879	0.01	0.01	--	--	44	6	22
704880	0.01	0.01	--	--	16	5	10
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detn Limit	0.01	0.01	0.01	0.01	2	4	2
Scheme	FA1	FA1	FA1	FA1	AAS1	AAS1	AAS1



ANALYTICAL REPORT

048

Sample	Ag	As
704871	<1	2
704872	<1	6
704873	<1	3
704874	<1	<2
704875	<1	<2
704876	<1	<2
704877	1	2
704878	<1	<2
704879	<1	<2
704880	<1	<2

Units	ppm	ppm
Detn Limit	1	2
Scheme	AAS2	XRF1



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Job: OAD1872

O/N: 1484

ANALYTICAL REPORT

049

Sample	Au Avg	Au Au Rp1	Au SS1
704175	0.01	0.02	<0.01
704176	0.02	0.02	--
704177	0.01	0.01	--
704178	<0.01	<0.01	--
704179	0.02	0.02	--
704180	<0.01	<0.01	<0.01
704181	0.02	0.02	--
704182	<0.01	<0.01	--
704183	0.01	0.01	--
704184	<0.01	<0.01	--
704185	0.01	0.01	--
704186	0.01	0.01	--
704187	0.01	0.01	--
704188	<0.01	<0.01	--
704190	0.01	0.01	--
704191	0.01	0.01	--
704192	0.01	0.01	--
704193	0.02	0.02	--
704194	0.02	0.02	--
704195	0.01	0.01	--
704196	<0.01	0.01	<0.01
704197	0.02	0.02	--
704198	0.01	0.01	--
704199	0.01	0.01	--
704200	<0.01	0.01	<0.01
704210	0.01	0.01	--
704211	0.01	0.01	--
704212	0.05	0.05	--
704213	0.01	0.01	--
704214	0.01	0.01	--
704215	0.02	0.02	--
704216	<0.01	<0.01	--
704217	0.03	0.03	--
704218	0.02	0.02	--
704219	0.01	0.01	--
704220	0.01	0.01	--
704221	<0.01	0.01	<0.01
704222	0.01	0.01	--
704223	0.01	0.01	--
704224	0.01	0.01	--
704225	<0.01	0.01	<0.01
704226	0.01	0.01	--
704227	0.01	0.01	--
704228	0.02	0.02	--
704229	0.01	0.01	--

Units	ppm	ppm	ppm	ppm
DL	0.01	0.01	0.01	0.01
Scheme	FA1	FA1	FA1	FA1



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Job: OAD1872

O/N: 1484

050

ANALYTICAL REPORT

Sample	Au Avg	Au Au Rpl	Au SS1
704230	0.01	0.01	--
704231	0.01	0.01	--
704232	0.01	0.01	--
704233	0.02	0.02	--
704234	0.01	0.01	--
704235	0.01	0.01	--
Units	ppm	ppm	ppm
DL	0.01	0.01	0.01
Scheme	FA1	FA1	FA1



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051

ANALYTICAL REPORT

Job: OAD1872

O/N: 1484

Sample	Cu	Pb	Zn	Ag
704175	14	15	35	<1
704176	3	8	2	<1
704177	11	14	25	<1
704178	13	14	34	<1
704179	10	14	32	<1
704180	8	18	28	<1
704181	12	20	36	<1
704182	9	18	42	<1
704183	14	16	38	<1
704184	13	15	40	<1
704185	9	18	38	<1
704186	7	18	28	<1
704187	8	14	17	<1
704188	7	18	20	<1
704190	9	18	44	<1
704191	4	8	<2	<1
704192	5	8	5	<1
704193	4	14	17	<1
704194	3	10	4	<1
704195	7	10	4	<1
704196	9	10	4	<1
704197	4	8	<2	<1
704198	6	8	3	<1
704199	7	8	<2	<1
704200	8	8	<2	<1
704210	3	10	2	<1
704211	2	12	<2	<1
704212	<2	6	<2	<1
704213	<2	5	<2	<1
704214	<2	5	4	<1
704215	<2	6	<2	<1
704216	4	14	17	<1
704217	3	14	24	<1
704218	5	12	25	<1
704219	<2	8	6	<1
704220	3	6	6	<1
704221	2	6	6	<1
704222	2	6	10	<1
704223	60	42	60	1
704224	2	8	18	<1
704225	2	5	8	<1
704226	<2	5	<2	<1
704227	5	8	11	<1
704228	3	12	12	<1
704229	2	10	14	<1
Units	ppm	ppm	ppm	ppm
DL	2	4	2	1
Scheme	AAS2	AAS2	AAS2	AAS2

052



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Job: OAD1872

O/N: 1484

ANALYTICAL REPORT

Sample	Cu	Pb	Zn	Ag
704230	2	4	8	<1
704231	<2	<4	6	<1
704232	3	<4	7	<1
704233	2	4	10	<1
704234	<2	5	4	<1
704235	<2	<4	6	<1
Units	ppm	ppm	ppm	ppm
DL	2	4	2	1
Scheme	AAS2	AAS2	AAS2	AAS2

053



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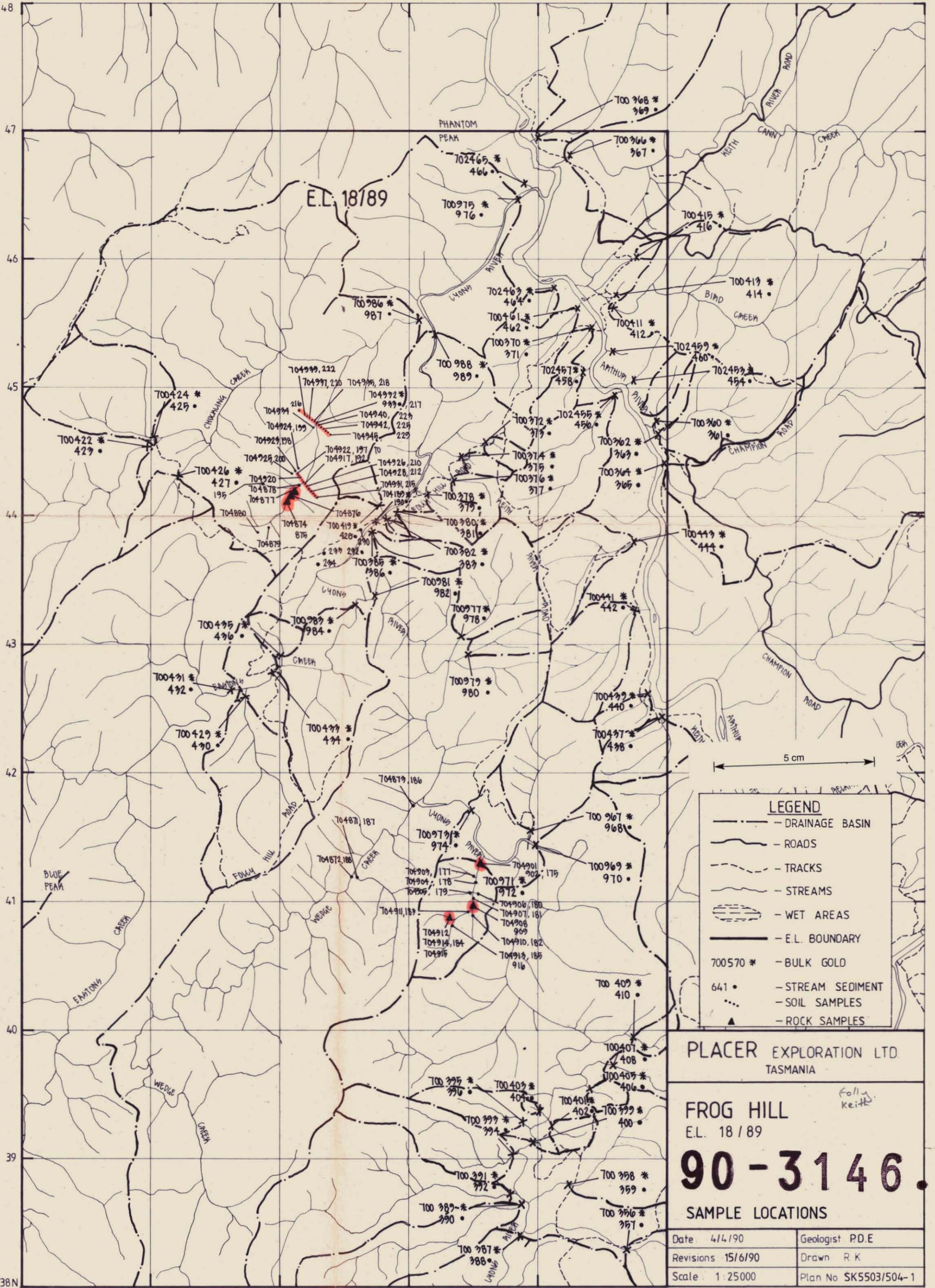
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Job: OAD1872

O/N: 1484

ANALYTICAL REPORT

Sample	Au	Cu	Ag	As
704189	<0.05	0.24	<0.02	4
Units	ppb	ppm	ppm	ppm
DL	0.05	0.10	0.02	2
Scheme	BLEG2	BLEG1C	BLEG1C	XRF1



**LEGEND**

- DRAINAGE BASIN
- ROADS
- - - TRACKS
- ~ ~ ~ STREAMS
- WET AREAS
- E.L. BOUNDARY
- 700570 \* - BULK GOLD
- 641 • - STREAM SEDIMENT
- - SOIL SAMPLES
- ▲ - ROCK SAMPLES

PLACER EXPLORATION LTD.  
TASMANIA

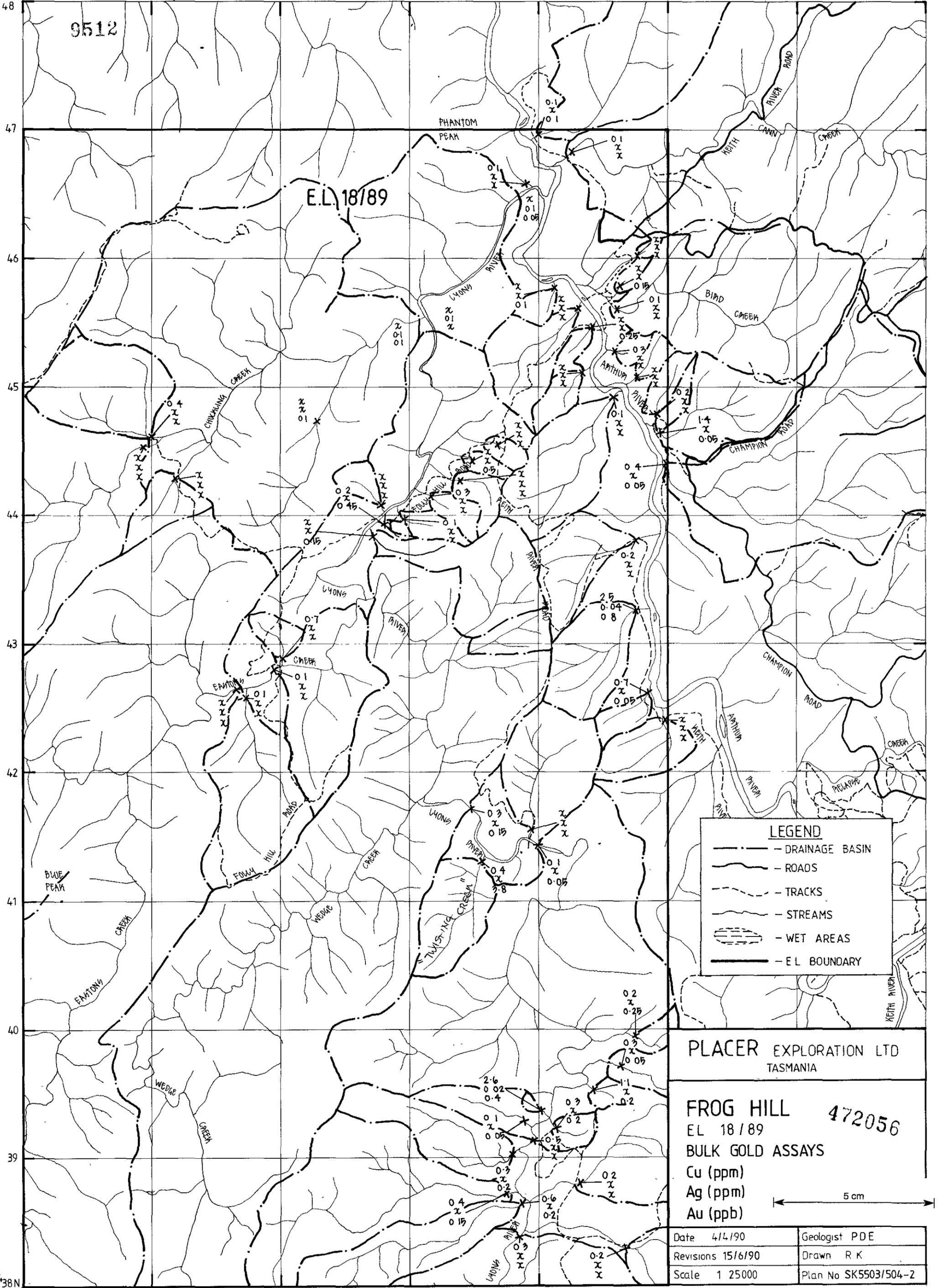
Frog Hill  
E.L. 18/89

**90-3146.**

SAMPLE LOCATIONS

Date: 4/4/90	Geologist P.D.E
Revisions 15/6/90	Drawn R.K
Scale: 1:25000	Plan No SK5503/504-1

472055



9512

E.L. 18/89

PHANTOM PEAK

**LEGEND**

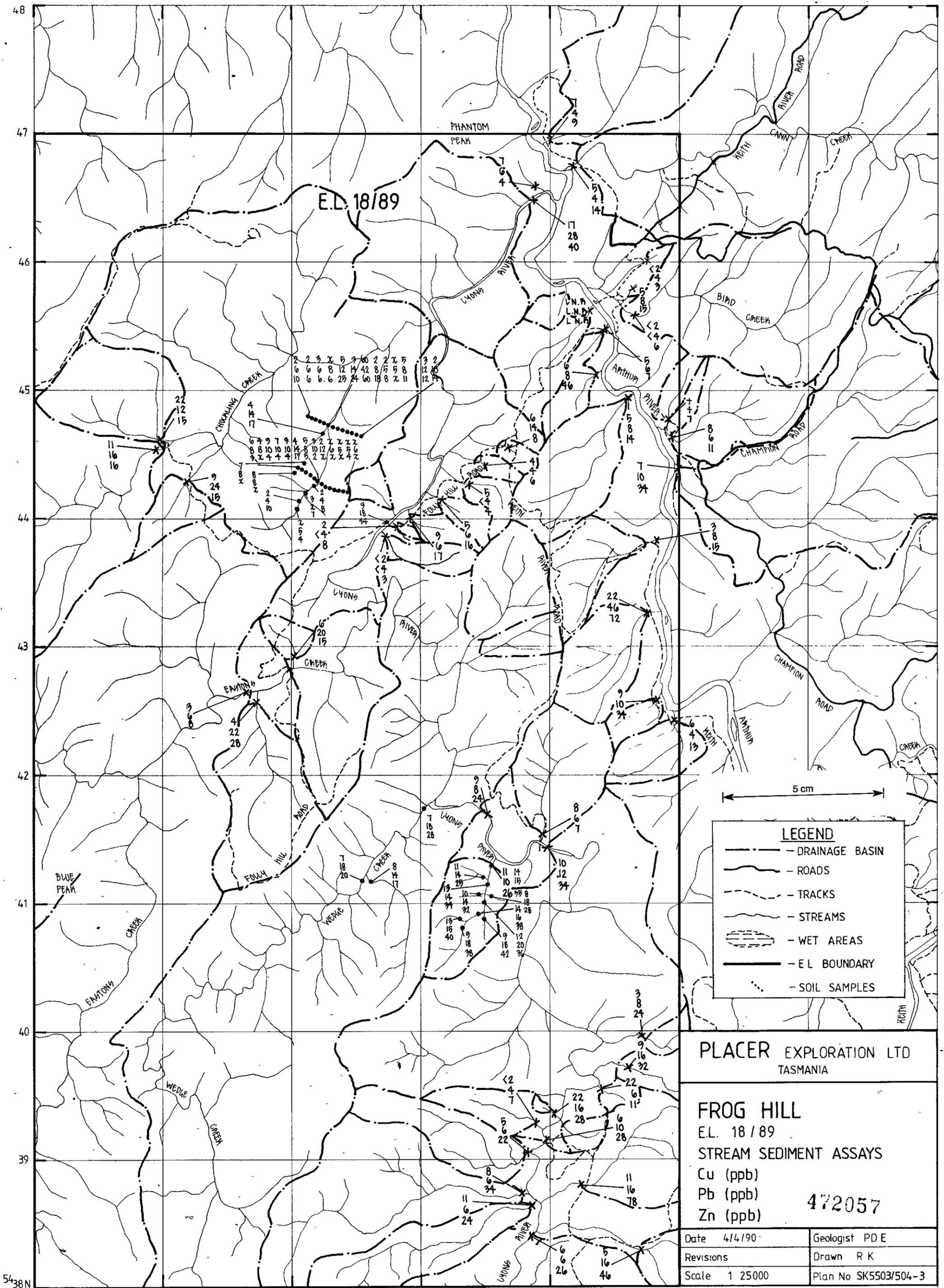
- DRAINAGE BASIN
- ROADS
- - - TRACKS
- ~ ~ ~ STREAMS
- ▨ WET AREAS
- E.L. BOUNDARY

PLACER EXPLORATION LTD  
TASMANIA

**FROG HILL** 472056  
 EL 18/89  
 BULK GOLD ASSAYS  
 Cu (ppm)  
 Ag (ppm)  
 Au (ppb)

← 5 cm →

Date 4/4/90	Geologist PDE
Revisions 15/6/90	Drawn R K
Scale 1 25000	Plan No SK5503/504-2



E.L. 18/89

**LEGEND**

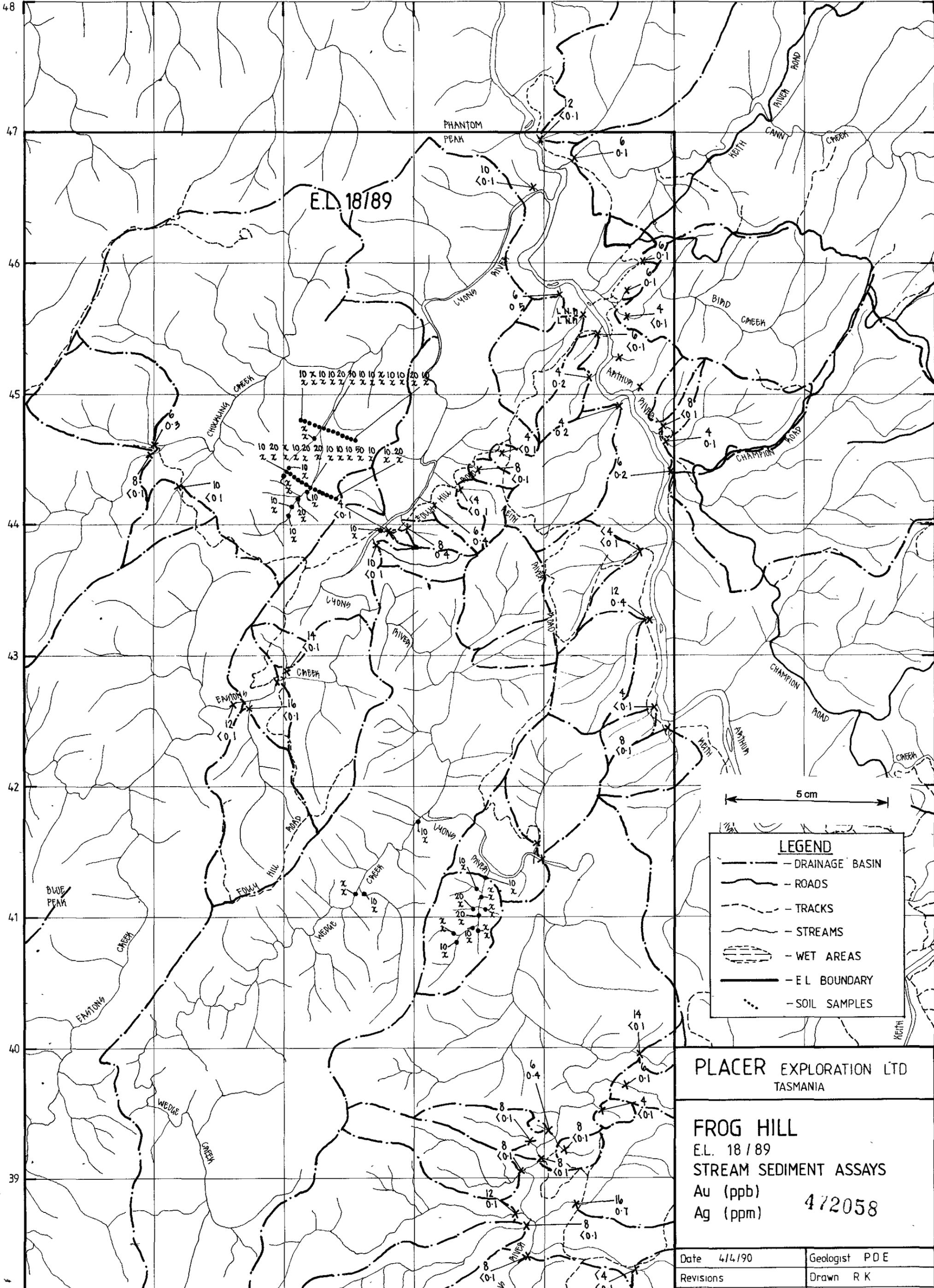
- DRAINAGE BASIN
- ROADS
- - - TRACKS
- ~ ~ ~ STREAMS
- ▨ WET AREAS
- E.L. BOUNDARY
- SOIL SAMPLES

5 cm

PLACER EXPLORATION LTD  
TASMANIA

**FROG HILL**  
E.L. 18/89  
STREAM SEDIMENT ASSAYS  
Cu (ppb)  
Pb (ppb)  
Zn (ppb) **472057**

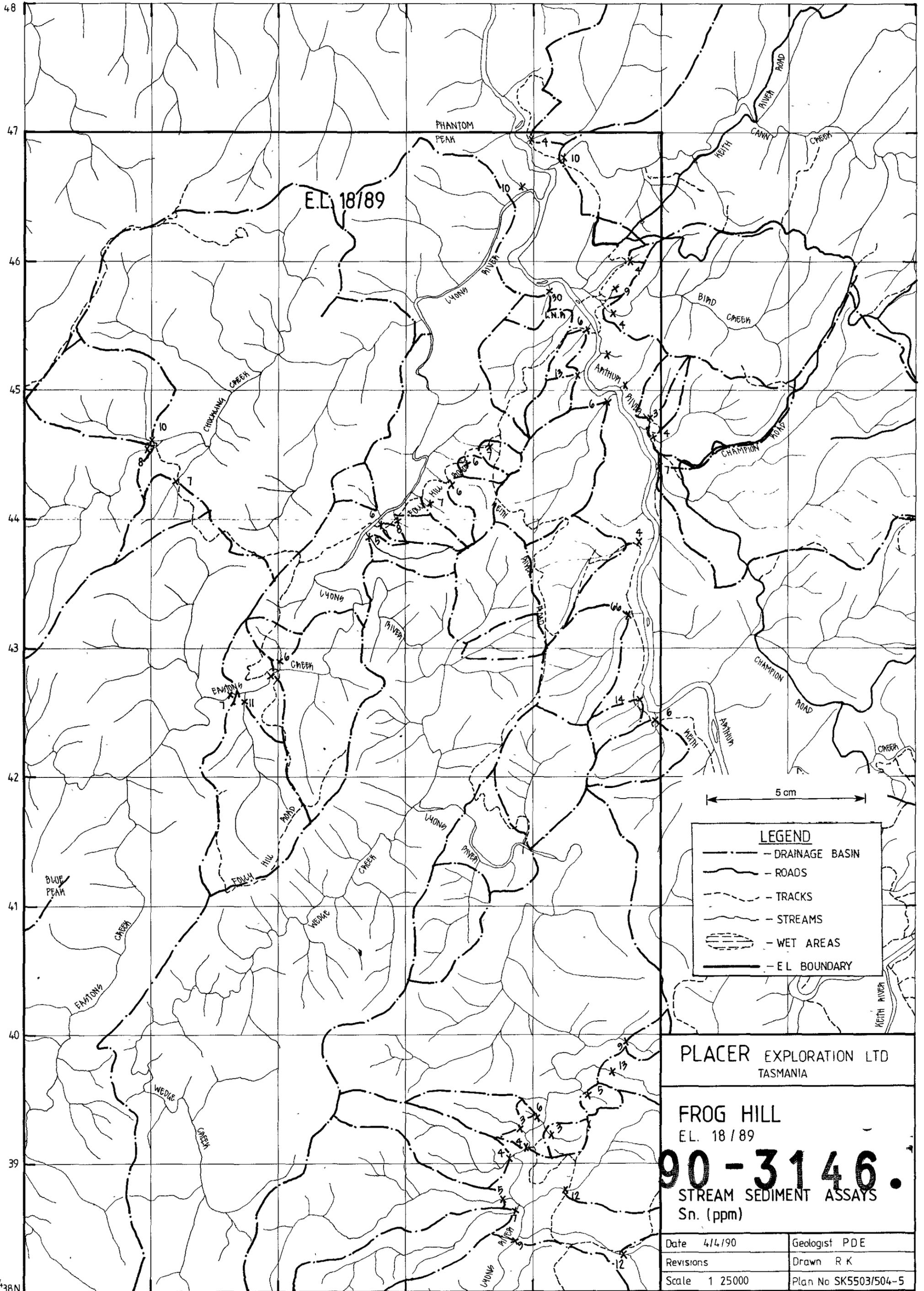
Date 4/1/90	Geologist P D E
Revisions	Drawn R K
Scale 1:25000	Plan No SK5503/504-3



**LEGEND**

- DRAINAGE BASIN
- ROADS
- - - TRACKS
- ~ ~ ~ STREAMS
- ▨ WET AREAS
- E.L. BOUNDARY
- SOIL SAMPLES

PLACER EXPLORATION LTD TASMANIA	
FROG HILL E.L. 18/89 STREAM SEDIMENT ASSAYS Au (ppb) Ag (ppm) <b>472058</b>	
Date 4/4/90	Geologist P D E
Revisions	Drawn R K
Scale 1:25000	Plan No SK5503/504-4



5 cm

**LEGEND**

- - - - - DRAINAGE BASIN
- ROADS
- ..... TRACKS
- STREAMS
- ▨▨▨▨▨ WET AREAS
- E.L. BOUNDARY

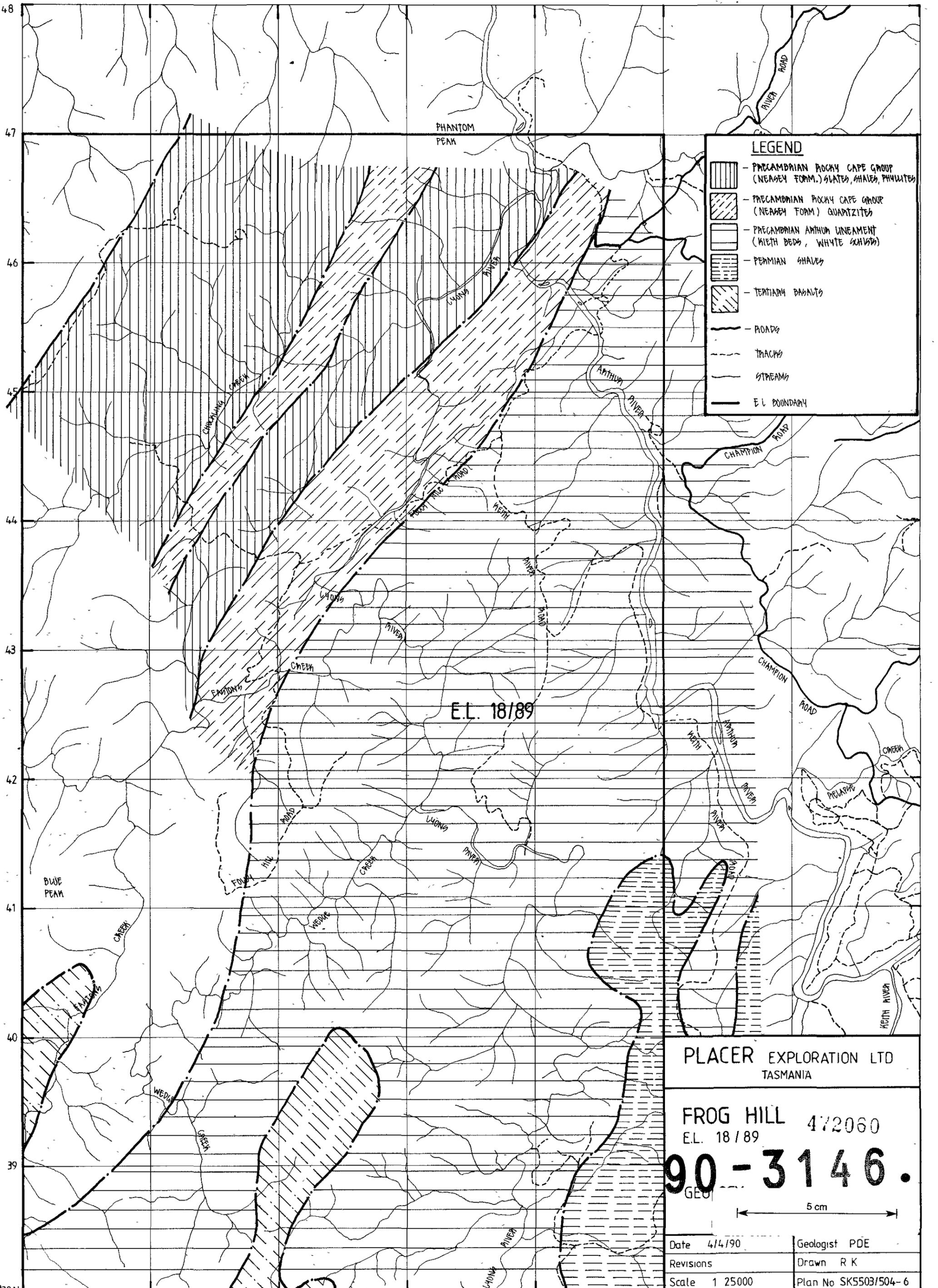
PLACER EXPLORATION LTD  
TASMANIA

FROG HILL  
E.L. 18/89

**90-3146.**  
STREAM SEDIMENT ASSAYS  
Sn. (ppm)

Date 4/4/90	Geologist PDE
Revisions	Drawn R K
Scale 1 25000	Plan No SK5503/504-5

472059



E.L. 18/89

LEGEND

- PRECAMBRIAN ROCKY CAPE GROUP (NEARBY FORM.) SLATES, SHALES, PHYLITES
- PRECAMBRIAN ROCKY CAPE GROUP (NEARBY FORM.) QUARTZITES
- PRECAMBRIAN ARTHUR LINEAMENT (KEITH BEDS, WHITE SCHISTS)
- PERMIAN SHALES
- TERTIARY BASALTS
- ROADS
- TRACKS
- STREAMS
- E.L. BOUNDARY

PLACER EXPLORATION LTD  
TASMANIA

FROG HILL 472060  
E.L. 18/89

**90-3146.**

5 cm

Date 4/4/90	Geologist PDE
Revisions	Drawn R K
Scale 1 25000	Plan No SK5503/504-6