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DISC 194

AMOCO MINERALS AUSTRALIA COMPANY

PART PROJECT A-80-82

**MICROFILMED**

PROGRESS REPORT

JULY TO DECEMBER 1983

EXPLORATION LICENCE 32/82

WELDBOROUGH

TASMANIA

P. A. JONES

FEBRUARY 1984

REPORT 383

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Amoco

6 Dec 1983  
number 462004

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#### SUMMARY AND CONCLUSIONS

Exploration Licence 32/82 was granted to Amoco for a period of 12 months from July 15, 1983. The tenement embraces potential large tonnage low grade (0.2 - 0.4% tin) sheeted tin greisens within the Blue Tier Batholith of northeast Tasmania.

Intensive surface prospecting and limited exploration has been conducted from 1874 to the present outlining numerous rich alluvial deposits and small tonnage vein greisens. Recent work at the nearby Anchor deposit has established potential for a large greisen hosted tin orebody. The Anchor deposit is understood to be a near surface blind greisen sheet formed by the intrusion of a tin rich leucocratic granite into a pre-existent granite.

Limited regional stream sediment sampling surveys by Amoco have

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outlined highly anomalous tin values in the area encompassing Schroaders and Cotton Creeks. Values in the panned concentrates average from 4000 to 6000 ppm and the stream sediments from 400 to 2250 ppm. Minor copper, zinc and tungsten values were returned coincident with the tin values. Greisenous veins in altered granite at Schroaders Creek proved highly anomalous with a composite sample assaying 0.125% tin with anomalous tungsten and barium.

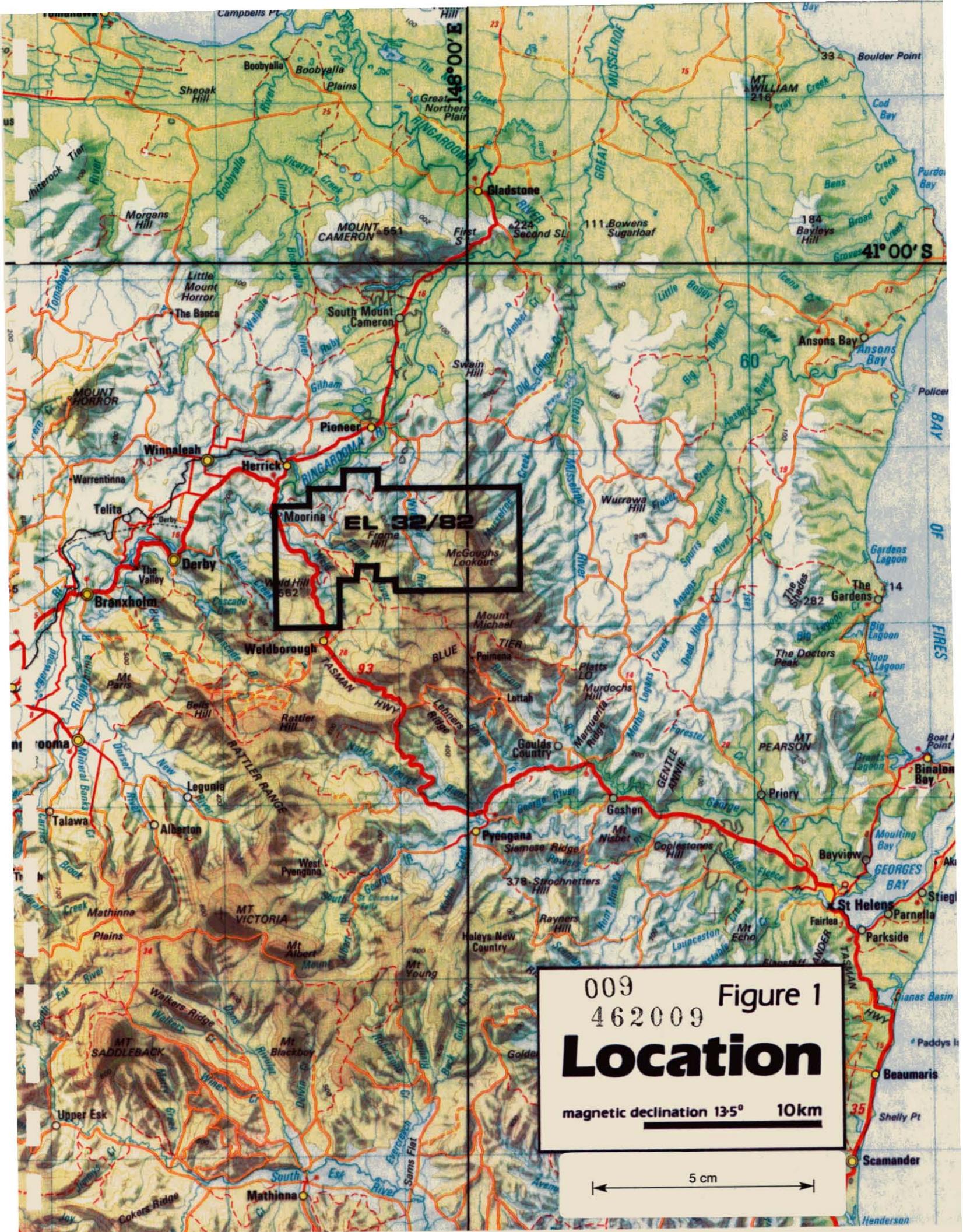
The remaining portion of the licence will be stream sampled and detailed sampling will be conducted along Schroaders Creek and Cotton Creek to delineate a source for the anomalous stream geochemistry. Geological mapping and rockchip sampling surveys will also be implemented in the Schroaders Creek - Cotton Creek area.

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LOCATION AND ACCESS

Exploration Licence 32/82 is located immediately northeast of the town of Weldborough, northeast Tasmania. Access within the tenement is poor due to rugged terrain and thick vegetation, however the licence is serviced by a major sealed highway (Tasman Highway) connecting the area with St. Helens 40 kilometers to the southeast. Initial access in the region will be by foot and four wheel drive utilizing existing forest and mine tracks. Most of the old tracks will require opening up and repairing.

No difficulties would be anticipated with respect to power, water, labor and transport should a mine be developed.



DESCRIPTION OF THE PROPERTY AND OWNERSHIP

Exploration Licence 32/82 of approximately 86 square kilometers in area was granted to Amoco Minerals for the period of 12 months from July 15, 1983.

A number of pre-existing mining leases (alluvial) and water easements lie within the tenement. These are currently being searched and will be presented on the Amoco 1:25 000 base plan in the following report to the Department.

#### HISTORY AND EXPLORATION TO DATE

Tin was first discovered in the Blue Tier Batholith from alluvials in the vicinity of Ruby Valley near George Bay in 1874. Subsequent intensive prospecting found rich alluvial deposits near Weldborough and a number of sluicing ventures on veined greisens were undertaken. The more notable of these deposits are: Southern Cross, Lottah, Kent, Haleys, Marie, Planet, Rising Sun, Crystal Hill, Spinks, Cream Creek, Nichols (F-B), Australia and Anchor. Alluvial flats were also successfully worked in several creeks. The combined production from these mines is estimated to have been 5,000 tons of tin ore. In addition 2,680 tons of tin concentrates were recovered from the primary deposit of the Anchor Mine until closure by the original company in 1914. A further 1,500 tons are estimated to have been produced from other greisen deposits although invariably these mines were unsuccessful.

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The Mount Lyell<sup>Mining</sup> and Railway company carried out extensive surface prospecting (17,160 meters of trenches) and diamond drilling (49 holes totalling 1950 meters) surveys during the period 1906 to 1907. Much of Mt. Lyell's work was confined to vein greisens of narrow width and limited strike as evidenced by their best intercept: Moon Mine - Bore 18 from 6 - 9.75 meters assaying 0.51% tin.

Limited surveys have been conducted by the Mines Department over the years 1927 to 1943. Surveys included surface sampling (trenching perpendicular to greisen veins) and drilling (both churn drilling and diamond drilling) with generally disappointing results.

The Aberfoyle Tin Development Partnership conducted detailed surveys over the Anchor Mine area located approximately 18 kilometers south-southeast of EL 32/82 during the early to mid 1960's. Diamond drilling outlined a zone of tin mineralized greisenized biotite - muscovite granite totalling 1.2 million tons at 0.37% tin lying beneath a barren porphyritic biotite granite. Drilling failed to close off the mineralization. Subsequently Renison Limited obtained title to the ground through a joint venture with Hellyer Mining and Exploration in 1976 and increased the reserves of the Anchor Mine to +3 millions tons of 0.25% to 0.3% tin.

Geophoto Resources in 1974 conducted exploration surveys centered on the area from Cross Creek to Cream Creek workings. Geophoto concluded that the exposed greisen vein mineralization at Cream Creek was sub-economic.

In 1978 Aberfoyle pegged an exploration licence to the north of the Anchor Mine looking for repeat deposits of the Anchor type: tin mineralized greisen sheets occurring beneath a roof of older and barren granite. Limited areas were mapped on a reconnaissance basis (approximate 10 square kilometers) at a

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scale of 1:15 840. Detailed surveys at a scale of 1:600 were implemented on the Cream Creek workings culminating in a proposed six hole percussion drill program. The program was terminated prematurely at the completion of two holes due to the unsuitability of the drill rig. Both holes were stopped short of their planned depths due to heavy water inflows. Hole 1 failed to intersect the prospective horizon and hole 2 intersected a narrow greisenous zone containing low tin values before passing into fresh barren host granite.

Large tracts of the Aberfoyle exploration licence remained unexplored and as no systematic exploration had been conducted by previous workers Amoco staked the ground as it became available late in 1982.

## REGIONAL GEOLOGY

Upper Devonian granitic rocks of northeast Tasmania crop out over an area of more than 2,500 square kilometers the largest mass being the Blue Tier Batholith.

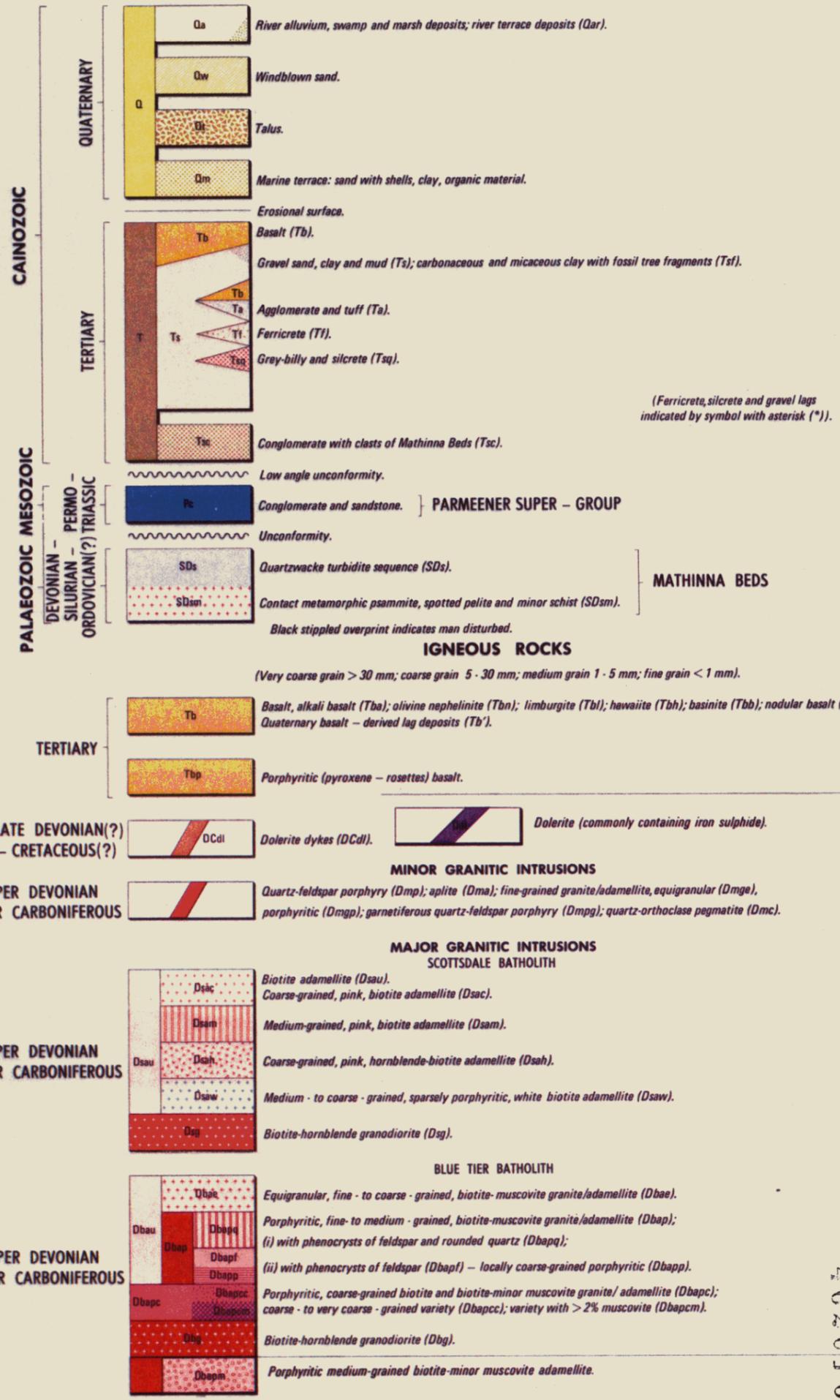
The granitic rocks have been emplaced into the Mathinna Beds which are the only exposed Paleozoic sedimentary sequence in the area. They are unconformably overlain by Permian and minor Triassic sedimentary sequences. These have been intruded by Jurassic dolerite sills. An extensive cover of Tertiary sedimentary rocks and basaltic lavas exists particularly in the north and northeastern parts of the area.

The Blue Tier Batholith is a composite body varying from early mafic granodiorites to leucocratic granites (Grover 1977). The plutons have sharp discordant contacts, narrow zones of contact



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REFERENCE



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metamorphism and appear to be high level magmatic intrusions that were generally passively emplaced with minor marginal deformation.

Small bodies of muscovite-biotite granite of sheet like character with associated feeder dikes are the youngest intrusion in the batholith. They are confined to the upper levels of the batholith and tin mineralization shows a marked association with them. Greisenized granites and greisens are generally confined to irregularities in the upper contact of the muscovite-biotite granite sheets where essentially unaltered granite is typified by higher lithium and tin at lower potassium rubidium and magnesium lithium ratios than granite from lower contacts.

#### LOCAL GEOLOGY

Regional mapping by Groves et al in 1977 shows the licence is underlain by upper Devonian porphyritic and coarse grained biotite granite/adamellite - Poimena Pluton (Figure 2). The pluton is the largest in the Batholith occupying about 45% of its surface area and considering its size is remarkably homogeneous. The normal granite/adamellite consists of large K-feldspar phenocrysts generally about five centimeters in length in a medium grained groundmass.

Late stage leucocratic tin granites - Lottah Sheets intrude the older granites in the vicinity of the Cream Creek workings and in an area encompassing both Schroaders and Cotton Creeks. The Lottah sheets are composed of equigranular fine grained muscovite-biotite granites, granite porphyries, leucogranites, aplites, pegmatites and greisens. The greisens typically consist

of aggregates of quartz and muscovite with minor albite. They are coarser grained ( up to four millimeters average grains size) than the greisenized granites and almost invariably contain abundant coarse grained fractured cassiterite crystals. Pale green biotite and carbonate are present in some greisens and topaz is more common than muscovite. Minor chalcopyrite, bornite, molybdenite and fluorite may be present.

There are a large number of small dike like bodies of acid and basic composition that intrude the major granitic rocks within the licence.

Extensive Tertiary and Quaternary deposits blanket much of the licence area many of which have been actively explored and worked by small concerns.

A major lineament is observed trending northwest from the Anchor Mine to the Weld River which Renison Limited have named the Crystal Hill Lineament. A number of major workings lie along or in close proximity to this basement structure.

## MINERALIZATION

Tin mineralization within the Blue Tier Area occurs as three distinct types:

- 1 Steeply dipping greisen veins or pipes in tin bearing granite
- 2 Flat lying greisen sheets in tin bearing granite
- 3 Quartz and quartz greisen veins in porphyritic adamellites

Of these mineralization styles the capped greisen sheets have the greatest tonnage/grade potential to be economically attractive. The flat lying greisen sheets (greisenized granite and greisen) occur sub parallel to the roof contact of fine grained muscovite - biotite tin granites (Lottah Sheets - Grove 1977) with the overlying porphyritic biotite granite/adamellite (Poimena Pluton Groves 1977). The contact of the two granites is sharp and is usually marked by a barren zone of pegmatite. Significant tin

mineralization (coarse grained cassiterite) roughly overlaps the limit of greisenization and is associated with minor molybdenite, chalcopyrite and fluorite. The major deposit of this type is at the Anchor Mine and other smaller bodies include the Crystal Hill, Liberator, North Liberator, Don, Australia, Summit, Mount Michael, New Moon and Ken Deposits.

The greisen sheet deposits appear to be local enrichments controlled by structural irregularities (Crystal Creek Lineament-Renison) in the roof of the tin granite sheets. Greisenization is attributed to the development through extensive fractionation of a water saturated melt in which tin, fluorine and other incompatible elements are concentrated.

WORK CONDUCTED BY AMOCO

Work conducted during the period July to December 1983 entailed reconnaissance stream sediment/panned concentrate and rockchip geochemical surveys as well as a detailed assessment of previous data and the preparation of a 1:25 000 basemap for the licence.

Analytical Techniques

Rockchip and regional stream sediment and panned concentrate samples were dried in an oven at 40°C prior to sample preparation. The stream sediments were sieved to -80 mesh and both the panned concentrate and rockchip sample were crushed and pulverized prior to being despatched to Comlabs in Adelaide for analysis for copper, lead, zinc, silver, tin, tungsten, uranium, arsenic, molybdenum and gold.

Analysis for basemetals, molybdenum and gold was by AAS after

hydrochloric acid digestion and tin tungsten, arsenic and uranium was by XRF.

The rockchip sample was analyzed for an additional nine elements, antimony and barium by XRF and nickel, cobalt, bismuth, cadmium, manganese, chrome and vanadium by AAS.

Check assays on every twentieth sample were carried out by Amdel in Adelaide with good reproducibility.

#### Stream Sediment Geochemistry

A regional stream sediment program collecting 58 minus -80 mesh and panned concentrate samples was completed over a portion of the licence area (Enclosure 1).

Highly anomalous values were consistently obtained from the area drained by Schroaders and Cotton Creeks to the south of EL 32/82. Values from the stream sediments averaged from 400-2250 ppm and had associated weak copper (30-50 ppm) and zinc (50-80 ppm) anomalies. The panned concentrate samples from the same zone assayed from 4000 to 6000 ppm with associated minor tungsten. These anomalous values occur where greisenous granite and greisen windows have been unroofed by stream erosion exposing possible capped sheet greisens of the Anchor type. Minor gold values of up to 0.15 ppm were also returned from the panned concentrates.

Elsewhere in the licence values of up to 1.29% tin were obtained (downstream of alluvial workings) and numerous values from 100 to 300 ppm were returned. A more detailed and complete sampling program is underway to delineate the source of anomalies defined to date.

#### Rockchip Geochemistry

One composite sample of greisenous vein material in an area of altered (phyllic) coarse grained granite returned 0.125% tin with weakly anomalous copper - 28 ppm, zinc - 60 ppm, tungsten - 40

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ppm and barium - 230 ppm (Enclosure 1). More detailed sampling and mapping will be conducted in the area to ascertain its potential.

EXPLORATION POTENTIAL

The majority of the Weldborough licence is underlain by the Poimena Pluton however minor zones of leucocratic tin granites - Lottah Sheets crop out as windows beneath the barren overlying pluton. Further tin mineralized sheets may exist at shallow depth like that discovered at the Anchor mine especially in the geochemically highly anomalous area between Schroaders and Cotton Creeks. There is good potential for locating large tonnage greisen hosted deposits amenable to open pitting and assaying from 0.2% to 0.4% tin.

#### PROPOSED PROGRAM

The search for Anchor type greisen hosted tin deposits is made difficult by the fact that they are located immediately beneath a roof of older granite therefore they have little surface expression. The use of normal geochemical soil techniques may therefore be unsuccessful if no leakage has taken place from the greisen systems. The low sulfide content of the mineralization has little surface geophysical expression and again conventional geophysical surveys would appear to be of limited value.

On this basis the proposed program will include the completion of a stream sediment/panned concentrate survey over the entire tenement as well as completing a detailed stream program in the Schoaders Creek - Cotton Creek areas.

027

Regional mapping and rockchip surveys to isolate and define possible vein and sheeted greisens will be undertaken at the same time as the regional stream program.

SIGNED: .....  .....  
P. JONES 

AMOCO MINERALS AUSTRALIA COMPANY

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EXPENDITURE TO DECEMBER 31, 1983

EXPLORATION LICENCE NO. 32/82

Salaries and Wages	1,863.29
Supplies - maps	41.58
Cookery	4.70
Travel	36.00
Communications	5.00
Consultants/Contractors	1,273.85
Assays	1,835.70
Equipment Operation & Maintenance	46.99
Property Payments	56.48
	<u>5,163.59</u>
Overhead	1,000.97
	<u>\$6,164.56</u>

*T.J. Conquest*  
T.J. CONQUEST  
ACCOUNTANT

APPENDIX 1  
ASSAY RESULTS

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**COMLABS Pty. Ltd.**  
COMPUTERISED ANALYTICAL LABORATORIES

Head Office and  
Central Laboratory  
305 SOUTH ROAD,  
MILE END SOUTH  
STH. AUST. 5031  
TEL: (08) 43 5722  
TELEX: AA89323



NATA REGISTERED No. 1526

OUR REF: COM 830792  
YOUR REF: Desp. 4379 O/N 9384

Mr. P. Jones,  
Amoco Minerals Aust. Ltd,  
61 Counsel Street,  
ZEEHAN. TAS. 7469,

27.4.83

Dear Phil,

RE: JOB COM 830792

Enclosed are the assays for the samples delivered to our  
laboratory on the 21st April, 1983.

Yours sincerely,  
COMLABS PTY LTD

per : 

c.c.: NORTH SYDNEY

031

462031



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**ANALYTICAL REPORT**

JOB COM830792

O/N : 4379

Results in ppm

STREAM SEDIMENTS  
"B" DENOTES  
PANNEED CONCENTRATES

SAMPLE	Sn	W	U	As
88801 B	195	<10	<4	8
88802 B	22	<10	<4	14
88803 B	310	10	4	12
88804 B	14	15	<4	9
88805 B	4	<10	<4	6
88806 B	90	<10	<4	12
88807 B	40	10	<4	9
88808 B	50	<10	<4	16
88809 B	20	20	<4	6
88810 B	14	<10	<4	3
88811 B	10	<10	<4	9
88812 B	75	<10	<4	12
88813 B	300	10	8	16
88814 B	10	<10	<4	4
88815 B	60	10	<4	7
88816 B	65	<10	<4	3
88817 B	10	15	<4	4
88818 B	1.29%	60	<4	4
88819 B	200	<10	<4	8
88820 B	280	15	<4	9
88821 B	14	<10	<4	3
88822 B	10	10	<4	5
88823 B	240	<10	<4	7
88825 B	85	10	<4	8
88826 B	200	15	<4	14

032

462032



## ANALYTICAL REPORT

JOB COM830792

O/N : 4379

## Results in ppm

SAMPLE	Sn	W	U	As
88827 B	115	<10	<4	2
88828 B	290	<10	<4	4
88829 B	160	10	4	6
88830 B	4500	20	<4	8
88831 B	50	10	<4	5
88832 B	65	<10	<4	9
88833 B	185	<10	<4	7
88834 B	6	10	<4	10
88835 B	22	<10	<4	14
88836 B	14	15	<4	8
88837 B	110	<10	<4	10
88838 B	14	<10	<4	10
88839 B	20	<10	<4	8
88840 B	4	10	<4	3
88841 B	175	15	<4	5
88842 B	8	15	<4	6
88843 B	4150	60	<4	10
88844 B	5200	45	<4	10
88845 B	3800	35	<4	8
88846 B	4400	50	4	8
88847 B	880	15	<4	10
88848 B	6050	40	4	16
88849 B	2350	15	<4	8
88850 B	75	<10	<4	9
88851 B	20	10	<4	14

033

462033



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### ANALYTICAL REPORT

JOB COM830792

O/N : 4379

#### Results in ppm

SAMPLE	Sn	W	U	As
88853 B	340	50	<4	10
88854 B	140	15	<4	8
88855 B	230	15	<4	6
88856 B	165	<10	<4	2
88857 B	6	15	<4	12
88858 B	10	10	<4	16
88859 B	38	<10	<4	16

Method of Analysis : Sn W U As : XRF1/2

034

462034



### ANALYTICAL REPORT

JOB COM830792

O/N : 4379

#### Results in ppm

SAMPLE	Cu	Pb	Zn	Ag	Mo	Au
88801 B	8	<4	8	<1	6	<0.05
88802 B	8	8	14	<1	<4	<0.05
88803 B	32	6	22	<1	<4	<0.05
88804 B	8	<4	8	<1	<4	<0.05
88805 B	6	<4	8	<1	<4	<0.05
88806 B	6	<4	12	<1	<4	<0.05
88807 B	6	<4	14	<1	<4	<0.05
88808 B	16	6	26	<1	<4	<0.05
88809 B	6	<4	8	<1	<4	<0.05
88810 B	6	<4	2	<1	<4	<0.05
88811 B	6	<4	2	<1	<4	<0.05
88812 B	6	<4	4	<1	<4	<0.05
88813 B	12	12	16	<1	<4	<0.05
88814 B	6	<4	6	<1	<4	<0.05
88815 B	6	<4	4	<1	<4	<0.05
88816 B	6	<4	2	<1	<4	<0.05
88817 B	4	<4	<2	<1	<4	<0.05
88818 B	6	<4	8	<1	<4	<0.05
88819 B	4	<4	4	<1	<4	<0.05
88820 B	6	12	12	<1	<4	<0.05
88821 B	6	<4	2	<1	<4	<0.05
88822 B	4	<4	2	<1	<4	<0.05
88823 B	6	<4	6	<1	<4	<0.05
88825 B	6	<4	10	<1	<4	<0.05
88826 B	6	16	65	<1	<4	<0.05

035

462035



### ANALYTICAL REPORT

JOB COM830792

O/N : 4379

#### Results in ppm

SAMPLE	Cu	Pb	Zn	Ag	Mo	Au
88827 B	6	<4	4	<1	<4	<0.05
88828 B	6	<4	2	<1	<4	<0.05
88829 B	6	<4	10	<1	<4	<0.05
88830 B	6	<4	10	<1	<4	<0.05
88831 B	4	<4	6	<1	<4	<0.05
88832 B	8	4	10	<1	<4	<0.05
88833 B	6	<4	2	<1	<4	<0.05
88834 B	6	<4	4	<1	<4	<0.05
88835 B	6	<4	10	<1	<4	<0.05
88836 B	6	<4	8	<1	<4	<0.05
88837 B	4	<4	2	<1	<4	<0.05
88838 B	4	<4	10	<1	<4	<0.05
88839 B	6	<4	6	<1	<4	<0.05
88840 B	4	<4	2	<1	<4	<0.05
88841 B	4	<4	4	<1	<4	<0.05
88842 B	4	<4	<2	<1	<4	<0.05
88843 B	6	<4	10	<1	<4	<0.05
88844 B	6	<4	8	<1	<4	<0.05
88845 B	6	<4	10	<1	<4	<0.05
88846 B	6	<4	8	<1	<4	<0.05
88847 B	8	<4	12	<1	<4	<0.05
88848 B	8	8	18	<1	<4	<0.05
88849 B	6	<4	12	<1	<4	<0.05
88850 B	6	8	10	<1	<4	<0.05
88851 B	6	12	16	<1	<4	<0.05

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### ANALYTICAL REPORT

JOB COM830792

O/N : 4379

#### Results in ppm

SAMPLE	Cu	Pb	Zn	Ag	Mo	Au
88853 B	6	6	8	<1	<4	<0.05
88854 B	6	<4	8	<1	<4	<0.05
88855 B	6	<4	8	<1	<4	<0.05
88856 B	6	<4	8	<1	<4	<0.05
88857 B	4	8	10	<1	<4	<0.05
88858 B	6	10	18	<1	<4	<0.05
88859 B	6	8	18	<1	<4	<0.05

Method of Analysis : Cu Pb Zn : AAS1  
 Ag Mo : AAS3  
 Au : AAS5A



**COMLABS Pty. Ltd.**  
COMPUTERISED ANALYTICAL LABORATORIES

Head Office and  
Central Laboratory  
305 SOUTH ROAD,  
MILE END SOUTH  
STH. AUST. 5031  
TEL: (08) 43 5722  
TELEX: AA89323



NATA REGISTERED No. 1526

OUR REF.: COM 830819  
YOUR REF.: Despatch 4380

Mr. P. Jones,  
Amoco Minerals Aust. Ltd,  
61 Counsel Street,  
ZEEHAN. TAS. 7469,

3.5.83

Dear Phil,

RE: JOB COM 830819

Enclosed are the assays for the samples delivered to our  
laboratory on the 27th April, 1983.

Yours sincerely,  
COMLABS PTY LTD

per :

c.c.: NORTH SYDNEY

038

462038



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STREAM SEDIMENTS  
 - 80#

**ANALYTICAL REPORT**

JOB COM830819

O/N : 4380

DATA BASE  
 NUMBER

Results in ppm

DATA BASE NUMBER	SAMPLE	Cu	Pb	Zn	Ag	Mo	Ni	Au
7601	88801 A	12	14	14	<1	<4	4	0.10
2	88802 A	14	38	50	<1	<4	12	<0.05
3	88803 A	38	20	48	1	<4	<4	<0.05
4	88804 A	8	40	60	<1	<4	8	<0.05
5	88805 A	8	34	38	1	<4	8	<0.05
6	88806 A	18	30	70	2	<4	8	<0.05
7	88807 A	10	20	75	<1	<4	10	<0.05
8	88808 A	40	32	36	<1	<4	6	<0.05
9	88809 A	12	18	44	<1	<4	12	<0.05
7610	88810 A	8	12	26	<1	<4	12	<0.05
1	88811 A	8	18	22	<1	<4	6	<0.05
2	88812 A	10	18	22	<1	<4	6	<0.05
3	88813 A	10	38	30	<1	<4	8	<0.05
4	88814 A	10	12	6	<1	<4	4	<0.05
5	88815 A	14	18	28	<1	<4	8	<0.05
6	88816 A	10	16	20	1	<4	8	<0.05
7	88817 A	8	22	10	<1	<4	6	<0.05
8	88818 A	10	18	28	<1	<4	6	<0.05
9	88819 A	6	20	22	<1	<4	6	<0.05
7620	88820 A	6	38	14	<1	<4	16	<0.05
1	88821 A	6	16	14	<1	<4	4	<0.05
2	88822 A	4	16	10	<1	<4	6	<0.05
7623	88823 A	10	12	26	<1	<4	4	<0.05
7625	88825 A	8	12	20	<1	<4	<4	<0.05
7626	88826 A	6	16	30	<1	<4	8	<0.05

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### ANALYTICAL REPORT

JOB COM830819

O/N : 4380

#### Results in ppm

	SAMPLE	Cu	Pb	Zn	Ag	Mo	Ni	Au
↓								
7827	88827 A	6	12	12	<1	<4	8	<0.05
8	88828 A	8	8	14	<1	<4	8	<0.05
9	88829 A	8	26	16	<1	<4	6	<0.05
7830	88830 A	6	16	16	<1	<4	6	<0.05
1	88831 A	6	24	24	<1	<4	8	<0.05
2	88832 A	10	24	12	2	6	<4	<0.05
3	88833 A	6	26	14	1	4	<4	0.10
4	88834 A	8	20	28	<1	6	<4	0.10
5	88835 A	14	28	30	1	6	4	0.10
6	88836 A	24	18	50	1	4	10	0.10
7	88837 A	16	22	24	1	6	<4	0.10
8	88838 A	12	14	28	<1	<4	<4	0.10
9	88839 A	8	14	14	<1	4	<4	0.10
7840	88840 A	8	18	20	<1	4	6	0.15
1	88841 A	8	16	24	<1	4	<4	<0.05
2	88842 A	6	14	18	<1	4	<4	0.10
3	88843 A	28	18	60	<1	6	<4	0.10
4	88844 A	30	20	60	1	6	<4	<0.05
5	88845 A	50	24	80	1	6	<4	0.10
6	88846 A	28	18	50	1	6	<4	0.05
7	88847 A	34	16	70	<1	8	6	<0.05
8	88848 A	34	22	70	1	6	6	0.15
9	88849 A	10	28	30	1	8	<4	0.10
7850	88850 A	6	16	18	1	6	<4	0.10
1	88851 A	6	22	30	<1	4	<4	<0.05

040

462040



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### ANALYTICAL REPORT

JOB COM830819

O/N : 4380

#### Results in ppm

SAMPLE	Cu	Pb	Zn	Ag	Mo	Ni	Au
7852 88852 A	4	16	14	<1	6	<4	0.10
3 88853 A	12	50	32	<1	8	<4	0.10
4 88854 A	10	16	22	<1	<4	<4	<0.05
5 88855 A	8	12	20	<1	8	4	0.10
6 88856 A	10	14	22	<1	6	6	0.10
7 88857 A	4	12	12	<1	6	<4	0.10
8 88858 A	8	10	24	<1	4	<4	0.10
7859 88859 A	10	14	30	<1	4	<4	0.05

Method of Analysis : Cu Pb Zn Ni : AAS1  
 Ag Mo : AAS3  
 Au : AAS5A

041

462041



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### ANALYTICAL REPORT

JOB COM830819

O/N : 4380

DATA BASE  
 NOS AS ON  
 P.350

Results in ppm

7801



SAMPLE	Sn	As	U
88801 A	80	2	4
88802 A	32	8	10
88803 A	1400	<2	18
88804 A	30	8	18
88805 A	30	4	6
88806 A	175	<2	26
88807 A	65	2	28
88808 A	55	16	8
88809 A	30	3	10
88810 A	34	2	8
88811 A	22	5	12
88812 A	145	<2	26
88813 A	175	2	22
88814 A	32	3	10
88815 A	380	<2	28
88816 A	44	5	12
88817 A	20	4	6
88818 A	46	3	14
88819 A	40	6	14
88820 A	30	5	4
88821 A	26	2	12
88822 A	14	2	8
88823 A	1100	<2	10
88825 A	150	3	10
88826 A	50	7	8

7823

7825

7826

1042

462042



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### ANALYTICAL REPORT

JOB COM830819

O/N : 4380

#### Results in ppm

DATA BASE  
 NCS

7827



7851

SAMPLE	Sn	As	U
88827 A	130	3	8
88828 A	430	<2	10
88829 A	30	<2	8
88830 A	20	<2	10
88831 A	34	6	8
88832 A	38	2	6
88833 A	36	2	14
88834 A	32	2	12
88835 A	24	6	16
88836 A	6	100	75
88837 A	135	6	14
88838 A	130	<2	20
88839 A	30	2	4
88840 A	80	<2	4
88841 A	44	7	12
88842 A	18	3	10
88843 A	650	<2	22
88844 A	410	<2	12
88845 A	510	<2	16
88846 A	2250	<2	28
88847 A	470	<2	18
88848 A	870	<2	16
88849 A	600	<2	18
88850 A	75	<2	12
88851 A	60	6	10

043

462043



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### ANALYTICAL REPORT

JOB COM830819

O/N : 4380

#### Results in ppm

DATA BASE NOS	SAMPLE	Sn	As	U
7852	88852 A	110	12	10
	88853 A	42	2	6
	88854 A	65	<2	8
	88855 A	1600	<2	14
	88856 A	640	<2	14
	88857 A	16	<2	6
	88858 A	280	<2	12
7859	88859 A	165	4	6

Method of Analysis : Sn As U : XRF1

044

462044



**COMLABS Pty. Ltd.**  
COMPUTERISED ANALYTICAL LABORATORIES

Head Office and  
Central Laboratory  
305 SOUTH ROAD,  
MILE END SOUTH  
STH. AUST. 5031  
TEL: (08) 43 5722  
TELEX: AA89323



NATA REGISTERED No. 1528

OUR REF.: COM 832459

YOUR REF.: Despatch 4902

Mr. P. Jones,  
Amoco Minerals Aust. Ltd,  
61 Counsel Street,  
ZEEHAN. TAS. 7469,

15.11.83

Dear Phil,

P

RE: JOB COM 832459

Enclosed are the assays for the samples delivered to our  
laboratory on the 4th November, 1983.

Yours sincerely,  
COMLABS PTY LTD

per :

c.c.: SYDNEY

045

462045



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### ANALYTICAL REPORT

JOB COM832459

O/N : 4902

#### Results in ppm

SAMPLE	Sn	W	Sb	As	Ba
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PANNED  
CONCENTRATED

73725	1250	40	4	8	230
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Method of Analysis : XRF1

1046

462046



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### ANALYTICAL REPORT

JOB COM832459

O/N : 4902

#### Results in ppm

SAMPLE	Cu	Pb	Zn	Ni	Co	Bi	Cd
73725	28	20	60	<4	<4	<4	<1

Method of Analysis : AAS1

047

462047



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### ANALYTICAL REPORT

JOB COM832459

O/N : 4902

#### Results in ppm

SAMPLE	Mn	Cr	Ag	Mo	V	Au
73725	130	20	<1	<4	<10	<0.05

Method of Analysis : Ag Mo V : AAS3  
Mn Cr : AAS2  
Au : AAS5A

048

462048



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### ANALYTICAL REPORT

JOB COM832459

O/N : 4902

#### Results in ppm

SAMPLE	Cu	Pb	Zn	Ni	Cr	Ag	Au
PANNE CONC 73726	<2	10	12	<4	130	<1	<0.05

Method of Analysis : Cu Pb Zn Ni : AAS1  
 Cr : AAS2  
 Ag : AAS3  
 Au : AASSA

049

462049



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### ANALYTICAL REPORT

JOB COM832459

O/N : 4902

Results in ppm

SAMPLE            Sn

73726            1850

Method of Analysis : Sn : YRF1

